SEE NOTES ON ALL CUT SHEETS!

IMEG #: 230303R
IMEG Submittal No.: P01

SUBMITTAL REVIEW COMMENTS

RETURNED TO

COMPANY: Crafton Tull
ATTN: Mark Owings
SENT VIA: Email

DATE: 08-06-26
REVIEWED BY: N. Williams

PROJECT NAME:	HOG Highlands	CONTRACTOR:	Clark
IMEG #:	230303R	CTR. SUBMITTAL #:	220000-01
DIVISION NO.:	22	SUBMITTAL DATE:	07-09-26
DESCRIPTION:	Plumbing Equipment, Fixtures, Emergency Fixtures	DATE RECEIVED:	07-28-26

This review is only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Notations made on the shop drawings during this review do not relieve the contractor from compliance with the requirements of the contract documents. Review of a specific item shall not include acceptance of an assembly of which the item is a component. The contractor is solely responsible for confirming and correlating all quantities and dimensions; selecting fabrication processes and techniques of construction; coordination of his or her work with that of all other trades; and performing all work in a safe and satisfactory manner.

ACTION	ITEM	NOTATIONS
Refer to Plan Review Comments, P-600 and Specifications 220000-01 Plumbing Equipment, 224000-01 Plumbing Fixtures and 224500 Emergency Plumbing Equipment.		
Reviewed As Noted, No Resubmittal	CP-1	Scheduled/submitted 1. Impeller = brass / noryl 2. 3-speed / not indicated
Reviewed As Noted, No Resubmittal	CP-2, CP-3	Scheduled/submitted 1. Impeller = brass / noryl 2. 3-speed / not indicated
Reviewed, No Notations	ET-1, ET-2	
Reviewed As Noted, No Resubmittal	SP-1	Scheduled/submitted 1. Power (hp) = ¾ / not indicated 2. Elec (V,ph) = 115, 1 / not indicated
Reviewed As Noted, No Resubmittal	EWH-1 thru EWH-10	Manufacturer and model = AO Smith / Lochinvar Contractor is responsible to coordinate all needed changes at no cost to the Owner.
~~Reviewed, No Notations~~	EWC-1	In lieu of the dual-level drinking fountain/bottle-filling stations noted in the "FIXTURE SCHEDULE" on P-600, EWC-1, "LZSTL8WSSP", provide the attached "LZSTL8WSBPRO-2FL10", black stainless, with two (2) ultra-capacity filters and all optional accessories required for a complete installation. Note: Existing plumbing and electrical design will not require revisions to accommodate new model; however, the location of the duplex receptacle to provide power for the unit will need to be coordinated to be hidden within the housing. See attachd Cut Sheet.
~~Reviewed As Noted, No Resubmittal~~	HL-1 Lavatory	Scheduled/submitted 1. ~~Zurn~~ strainer, p-trap, stop, protectors / multiple manufacturers
Architect to Review	HL-1, HL-2, HS-2, S-6 Faucet	Scheduled/submitted 1. Toto / Zurn Style is very similar.
Reviewed As Noted, No Resubmittal	HL-2 Lavatory	Scheduled/submitted 1. Model = Z5314 / Z5311 Sink model was chosen based on Faucet in schedule.

P.R. 02 REVISED DRINKING FOUNTAINS, SEE NOTE ON EWC-1 CARRIER

USE AMERICAN STANDARD "EDGEMERE" UNDERMOUNT SINK"

ENSURE COMPATIBILITY WITH AMERICAN STANDARD "EDGEMERE' UNDERMOUNT SINK

PROVIDE AMERICAN STANDARD WITH SHROUD

ACTION	ITEM	NOTATIONS
		2. Zurn strainer, p-trap, stop, protectors / multiple manufacturers
~~Reviewed, No Notations~~	HS-1 and Faucet	HS-1 IS INCORRECT IN THE SCHEDULE AND SHOULD BE THE AMERICAN STANDARD WALL LAV WITH GUARD
~~Reviewed As Noted, No Resubmittal~~	HS-2 ~~Lavatory~~	~~Scheduled/submitted~~ ~~1. Zurn strainer, p-trap, stop, protectors / multiple manufacturers~~ HS-2 IS INCORRECT AND SHOULD BE THE ATTACHED WDS-1
Reviewed, No Notations	HSH-1 Faucet	
Architect to Review	HSH-1 Pan	Color to be chosen by architect. SUBMIT PHYSICAL SAMPLES FOR REVIEW BY INTERIOR DESIGNER
Revise & Resubmit	HSH-1 Accessories	Seat, grab bars not indicated.
Reviewed, No Notations	HWC-1 Water Closet and Flush Valve	
Reviewed, No Notations	HWC-2 and Flush Valve	
Reviewed As Noted, No Resubmittal PROVIDE SPECIFIED BOBRICK B-224 X 36 SHELF WITH MOP AND BROOM HOLDERS/ AND RAG HOOKS	JS-1 and Faucet	Scheduled/submitted 1. Mustee/Fiat Contractor is responsible to coordinate all needed changes at no cost to the Owner. 2. Bumper guards / not indicated 3. Drain = cast iron / stainless
Reviewed, No Notations	KE-01 and Faucet	
Reviewed, No Notations	KE-02 and Faucet	
Reviewed As Noted, No Resubmittal	L-1 Lavatory	Scheduled/submitted 1. Zurn strainer, p-trap, stop, protectors / multiple manufacturers
Architect to Review	L-1 Faucet	Scheduled/submitted 1. Toto / Zurn Style is very similar.
Reviewed, No Notations	S-1 and Faucet	
Reviewed, No Notations	S-2, S-4 and Faucet	
Reviewed, No Notations	S-5 Sink and Faucet	
Reviewed, No Notations	S-6 Sink	
Reviewed As Noted, No Resubmittal	S-7	Scheduled/submitted 1. Faucet holes = 2 / not indicated
Reviewed, No Notations	SB-1	
Reviewed, No Notations	SS-1 Sink and Flush Valve	
Reviewed, No Notations	UR-1 and Flush Valve	
Reviewed, No Notations	WC-2 and Flush Valve	

REVISE AND RESUBMIT FIXTURES NOTED

CRAFTON TULL SUBMITTAL REVIEW

☐ NO EXCEPTION TAKEN ☒ MAKE CORRECTIONS NOTED
☐ SUBMIT SPECIFIED ITEM ☐ REJECTED
☒ REVISE AND RESUBMIT ☐ FOR RECORD ONLY

Review is only for conformance with the information given and the design concept of the Project as expressed in the Contract Documents. Review of submittals is not conducted for the purpose of determining the accuracy and completeness of other details, such as dimensions and quantities, or for substantiating instructions for the installation or performance of equipments or systems. Review of the Contractor's submittals shall not relieve the Contractor from any obligation contained in the Contract Documents. Review shall not constitute approval of any construction means, methods, techniques, sequences or any safety precautions or procedures. Review of a specific item shall not indicate approval or any assembly for which the item is a component.

REVIEWING DISCIPLINE(S): C L S M/P E A/I

BY: MC DATE: 8/10/26 BY:_____ DATE:_____

BY:_____ DATE:_____ BY:_____ DATE:_____

WDS-1

WATER DISPENSING STATION:

EQUIP BY T&S
5GF-8P-WS

WATER STATION W/ PEDESTAL TYPE RETRO GLASS FILLER, 18 GAUGE STAINLESS STEEEL DRIP PAN, GE GXULQK FULL FLOW WATER FILTERATION SYSTEM W/ GXULQR FILTER UNDER COUNTER, COORDINATE EXACT LOCATION WITH ARCHITECT'S MILLWORK PLANS

THIS ITEM HAS BEEN INCORRECTLY NOTED IN THE PLUMBING SCHEDULE AS HS-2, AND IS LOCATED IN THE SNACK BAR 349A ADJACENT TO THE MAIN SINK AS SHOWN ON THE ATTACHED PLAN

Glass Fillers

5GF-8P-WS

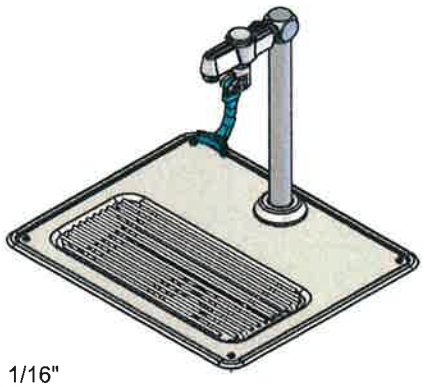
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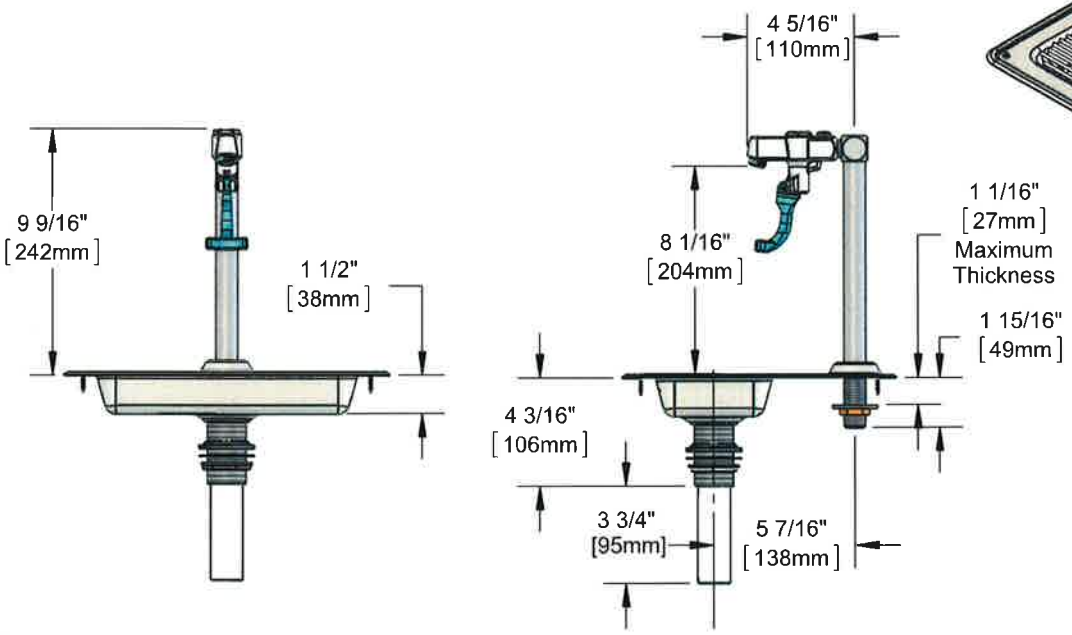
Water Station

Architect/Engineering Specifications:

Deck mount water station with polished chrome plated brass body pedestal type glass filler, adjustable flow outlet, push back actuation arm, pedestal with adjustable deck flange, 18 gauge stainless steel drip pan with drip in grid and 1 1/4" drain. Certiified to ASME A112.18.1\CSA B125.1, NSF 61-Section 9 and NSF 372. Meets ADA ANSI\ICC A117.1 requirments.

Job Name_____
Model Specified_____Quantity_____
Variations Specified_____
Date_____





Features & Benefits:

- Deck mount water station
- 8" deck mount glass filler w/ polished chrome plated brass body
- Screw driver adjustable flow outlet
- Instantaneous shut-off
- 1/2" NPT male inlet
- Pedestal w/ adjustable ∅2" flange
- 1 1/4" Drain
- Material: Polished chrome plated brass body & pedestal, chrome plated metal flange, 18 gauge stainless steel drip pan and stainless steel grid

Product Compliance:

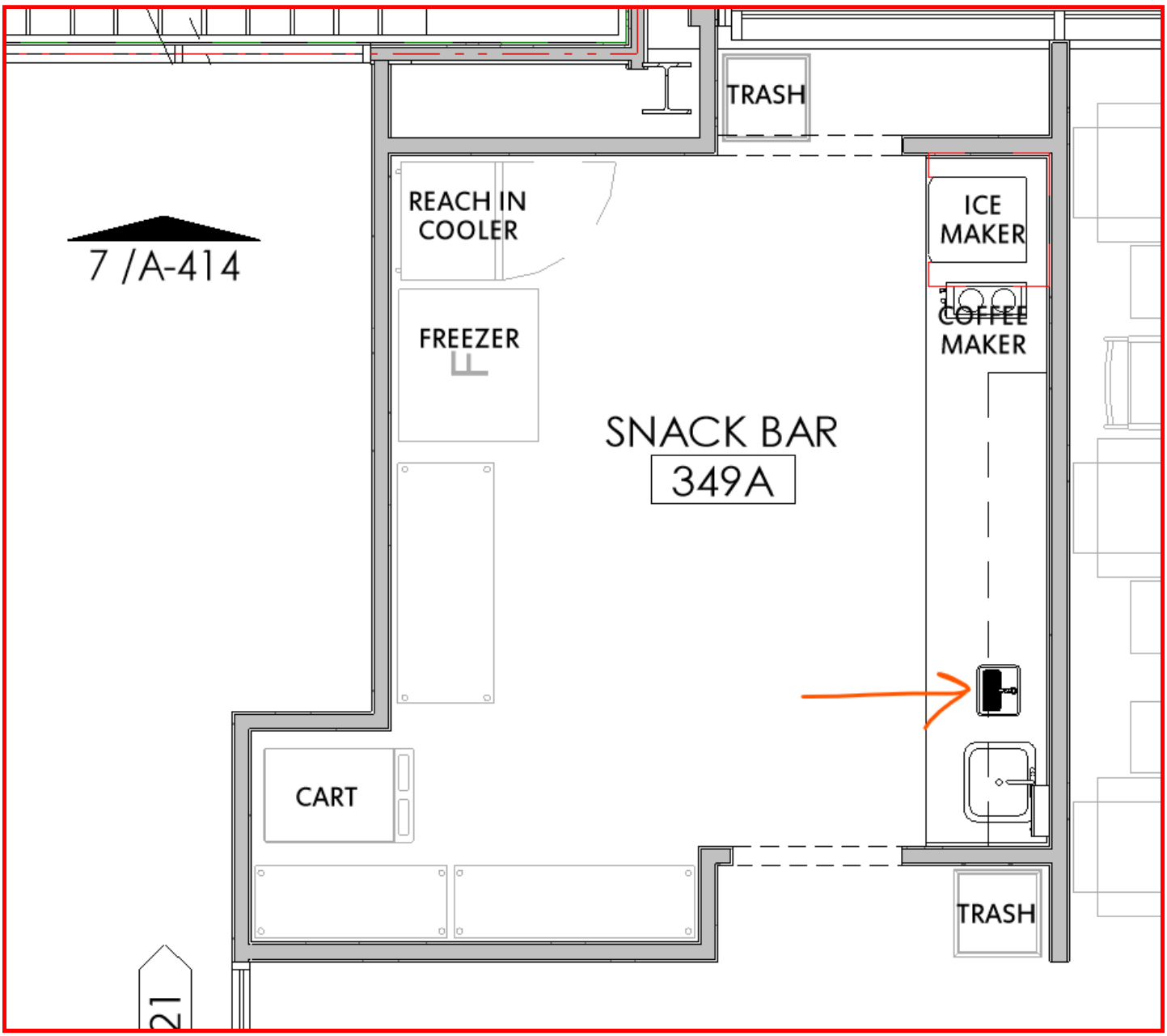
- ASME A112.18.1 / CSA B125.1
- NSF 61 - Section 9
- NSF 372 (Low Lead Content)
- ANSI A117.1 (ADA)

Warranty: One Year (Limited)

Performance Data:

- Pressure: 20 - 125 psi
- Temperature: 40°F - 140°F
- Flow Rate: 0.25 GPM min @ 60 psi
  2.50 GPM max @ 60 psi
- Discharge Rate: 18.00 GPM

ADA Compliant


TRASH
REACH IN COOLER
ICE MAKER
COFFEE MAKER
7 /A-414
FREEZER
SNACK BAR
349A
CART
TRASH
21

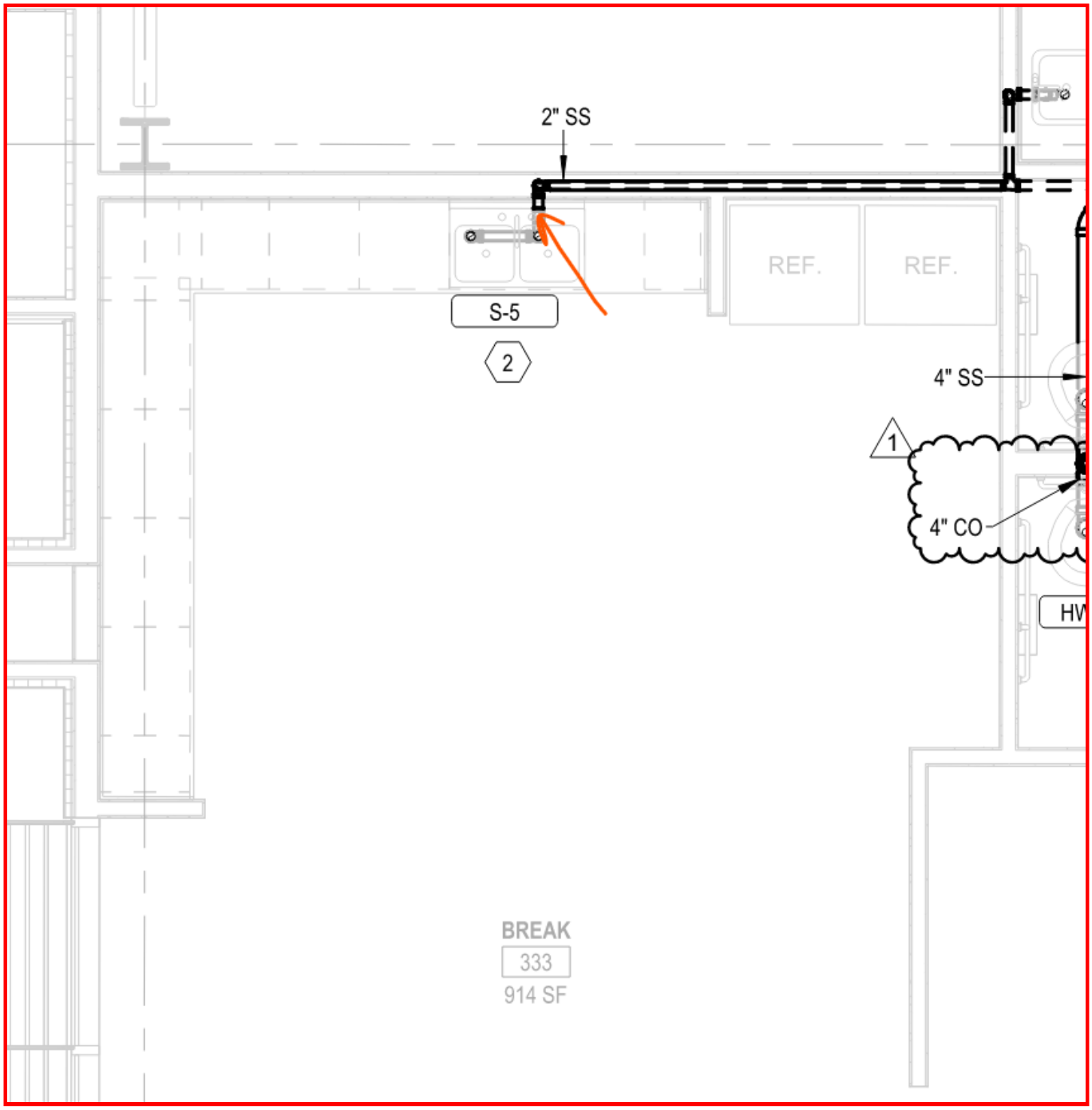
WDS-2

WATER DISPENSING STATION:

EQUIP BY T&S
B-1210-12-WFK

12" HIGH PEDESTAL TYPE GLASS FILLER W/ WATER FILTRATION KIT UNDER COUNTER, MOUNT ON SINK

THIS ITEM HAS BEEN INADVERTANTLY OMITTED FROM THE PLUMBING SCHEDULE AND SHOULD BE ADDED AND PROVIDED AT THE S-5 WITHIN THE BREAK ROOM 335 AS SHOWN ON THE ATTACHED PLAN


2" SS
REF.
REF.
S-5
2
4" SS
1
4" CO
HW
BREAK
333
914 SF

Glass Fillers and Water Stations

TAG:

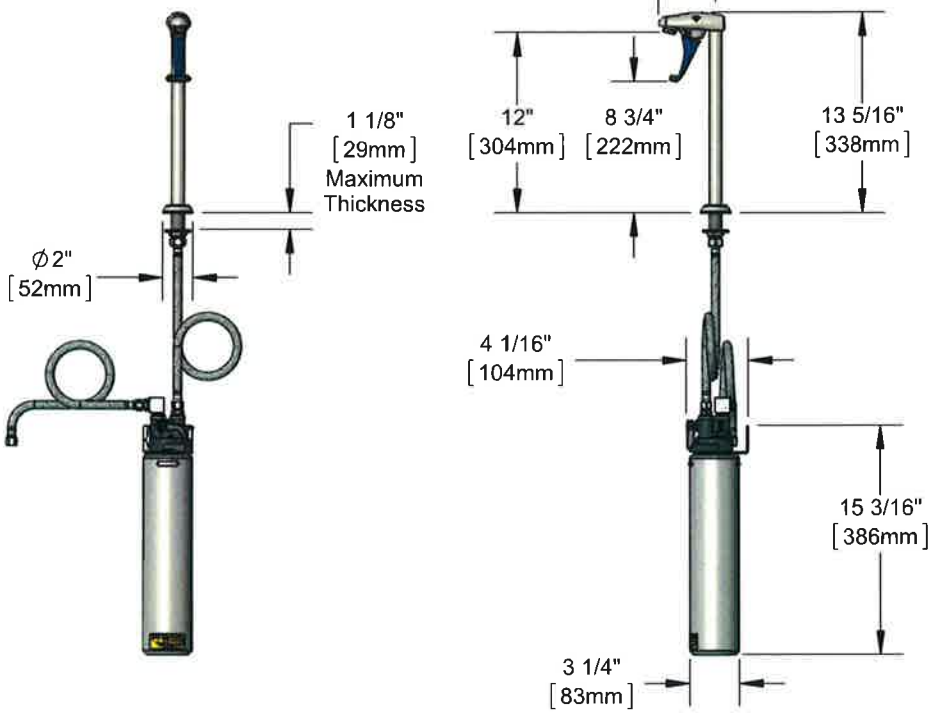
B-1210-12-WFK

Pedestal Glass Filler and Water Station

Architect/Engineering Specifications:

12" high deck mount glass filler with polished chrome plated brass body, adjustable flow outlet, push back actuation arm, pedestal with adjustable deck flange, water filtration cartridge and 1/2" NPT male inlet. Certified to ASME A112.18.1/CSA B125.1, NSF 61-Section 9 and NSF 372. Meets ADA ANSI/ICC A117.1 requirements.

Job Name_____
Model Specified_____ Quantity_____
Variations Specified_____
Date_____





Features & Benefits:

- 12" high deck mount glass filler
- Torx wrench adjustable flow outlet (wrench included)
- Dark blue push back arm
- Instantaneous shut-off
- 1/2" NPT male inlet
- Pedestal w/ adjustable Ø 2" flange
- Replacement water filtration cartridge & docking station
- Material: polished chrome plated brass body & pedestal, chrome plated metal flange and thermoplastic arm

Product Compliance:

- ASME A112.18.1 / CSA B125.1
- NSF 61 - Section 9
- NSF 372 (Low Lead Content)
- ANSI A117.1 (ADA)

Warranty: One Year (Limited)

Performance Data:

- Pressure: 20 - 125 psi
- Temperature: 40°F - 140°F
- Flow Rate: 0.25 GPM min @ 60 psi
  2.25 GPM max @ 60 psi

ADA Compliant

T&S BRASS AND BRONZE WORKS, INC.

• 2 Saddleback Cove • Travelers Rest, SC 29690
Ph 800-476-4103 • Fax 864-834-3518
• Simi Valley, CA • Ph 800-423-0150 • www.tsbrass.com

Date: 04/12/16

SUBMITTAL COMMENT SHEET

Project: 1763 - Highlands Building at Pinnacle Hills

General Notes by Clark:

This Package includes:

22 30 00-01 Plumbing Equipment

22 40 00-01 Plumbing Fixtures

22 45 00 Emergency Plumbing Fixtures

☐ APPROVED ☐ REVIEWED
☐ APPROVED AS NOTED ☐ REJECTED
☑ REVISE & RESUBMIT

THIS SUBMITTAL HAS BEEN REVIEWED FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS. APPROVAL DOES NOT RELIEVE THE SUBCONTRACTOR/SUPPLIER OF THE RESPONSIBILITY FOR CONFORMANCE TO THE QUALITY STANDARDS AS SET FORTH IN THE CONTRACT DOCUMENTS. NOR DOES IT RELIEVE THE RESPONSIBILITY FOR FIELD VERIFICATION OF ALL CONDITIONS RELATING TO THIS CONTRACT.

OK'D BY: BA DATE: 07/21/26

CLARK CONTRACTORS

SUBMITTAL COMMENT SHEET

Project: 1763 - Highlands Building at Pinnacle Hills

Submittal
Spec: 22 30 00-01
Title: Plumbing Equipment

General Notes by Clark:

Substitution request for Electric Water Heaters included.

☐ APPROVED ☑ REVIEWED
☐ APPROVED AS NOTED ☐ REJECTED
☐ REVISE & RESUBMIT

THIS SUBMITTAL HAS BEEN REVIEWED FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS. APPROVAL DOES NOT RELIEVE THE SUBCONTRACTOR/SUPPLIER OF THE RESPONSIBILITY FOR CONFORMANCE TO THE QUALITY STANDARDS AS SET FORTH IN THE CONTRACT DOCUMENTS. NOR DOES IT RELIEVE THE RESPONSIBILITY FOR FIELD VERIFICATION OF ALL CONDITIONS RELATING TO THIS CONTRACT.

OK'D BY: BA DATE: 07/24/26

CLARK CONTRACTORS

Crafton Tull
architecture | engineering | surveying

1450 E. Zion Road, Suite 9
Fayetteville, AR 72703

479.455.2207

Job No. **23302901**
Project: **Highlands Building at Pinnacle Hills, Rogers, AR**

SUBSTITUTION REQUEST FORM

Refer to Specifications: Page 223000-3

Refer to Drawings: Sheet P-600

Specified Item: AO SMITH DEL-30, DEL-40, DEN-40, DEN-66, DEN-80

Proposed Substitute: LOCHINVAR LDS-30, LDS-40, LDT-40, LDT-65, LDT-80

Attach specification data sheet or equivalent with complete description, designation, catalog or model number, and other technical data, including laboratory tests, if applicable.

Please fill in all blanks:

1) How will substitution affect dimensions indicated on drawings?

No affect, models are nearly identical

2) How will substitution affect structural or rough framings?

No affect, models are nearly identical

3) How will substitution affect wiring, piping, ductwork, etc.?

No affect, models are nearly identical

4) What effect will substitution have on other trades?

No affect, models are nearly identical

5) How will available finishes differ from the specified item?

No affect, models are nearly identical

Crafton Tull
architecture | engineering | surveying

1450 E. Zion Road, Suite 9
Fayetteville, AR 72703

479.455.2207

6) What are the other differences between the proposed substitution and the specified item?

Brand name is the only difference. Both are manufactured by A.O. Smith

7) If necessary, will the undersigned pay for Architectural and Engineering costs for the time and material necessary to revise the Contract Documents and notify all registered Bidders as a result of any pending substitution approval?

8) Do manufacturers' warranties differ from those of specified items?

Warranties are identical as Both brands are manufactured by A.O. Smith

Clarify: _____

Submitted by:

Firm Star Mechanical Supply

Address 122 W Randall Rd Springdale, AR 72764

Review Comments:

_____ Accepted*

_____ Accepted As Noted*

_____ Rejected

_____ Received Too Late

Authorized Signature:

By: _____

Date: _____

Remarks: _____

Phone: _____

Acceptance does not supersede any of the requirements of Contract Documents, Drawings, or Specifications.

COMFORT SYSTEMS USA

Quality People. Building Solutions.

Comfort Systems USA (Arkansas), Inc.
P.O. Box 16620
Little Rock, AR 72231
Phone 501-834-3320
Fax 501-834-5416

Date:	07/09/2026
Return Request:	07/30/2026
Project:	Highlands Building at Pinnacle Hills
Supplier:	Comfort Systems USA
Manufacturer:	Various
Submittal:	Plumbing Equipment
Submittal Number:	22 30 00-01
Drawing # and Installation:	Plumbing

ARCHITECT
Crafton Tull
Fayetteville, Ar.

ENGINEER
IMEG

GENERAL CONTRACTOR
Clark Contractors
Rogers, Ar.

MECHANICAL SUBCONTRACTOR
Comfort Systems USA (Arkansas), Inc.
116 Commercial Ave.
Lowell, AR 72745
(479) 770.8992

NOTES:

Revised 7/21/26

CSUSA PROJECT NO.
26-5034
jzuber@comfortar.com

2.16 HIGHLANDS BUILDING ROGERS

SECTION 2230000 PLUMBING EQUIPMENT REVISED

SOUTH JB HUNT DRIVE
ROGERS 72756

- Prepared By -

Josh Dych - Star Mechanical - Arkansas Branch
479-756-2055
jdych@star-mechanical.com
122 West Randall Wobbe Lane
Springdale, AR 72764, USA

- Address To -

Josh Zuber - Comfort Systems USA
479-770-8992
jzuber@comfortar.com
116 Commercial Ave
Lowell, AR 72745, USA

2.16 HIGHLANDS BUILDING ROGERS

Table of Contents

Datasheets

CP-1			
Type	Manufacturer	Model Number & Description	Pg.
	ARMSTRONG	ASTRO 230SS 110223306 115V 20GPM@18FT HEAD STAINLESS FLANGED CIRC PUMP	2
	ARMSTRONG	TIMER 24 HR MANUAL TIMER	6
	ARMSTRONG	3/4" AQUA 110123-121 3/4" AQUASTAT	10

CP-2			
Type	Manufacturer	Model Number & Description	Pg.
	ARMSTRONG	ASTRO 280SS 110223-321 115V 32GPM @ 30FT HEAD STAINLESS FLANGED CIRC PUMP	15
	ARMSTRONG	TIMER 24 HR MANUAL TIMER	19
	ARMSTRONG	3/4" AQUA 110123-121 3/4" AQUASTAT	23

CP-3			
Type	Manufacturer	Model Number & Description	Pg.
	ARMSTRONG	ASTRO 286SS 110223-325 230V 36GPM @ 42FT HEAD STAINLESS FLANGED CIRC PUMP	28
	ARMSTRONG	TIMER 810123-130 24HR MANUAL TIMER FOR CIRC PUMPS UNDER 1/2HP	32
	ARMSTRONG	3/4" AQUA 110123-120 1/2" AQUASTAT	36

ET-1			
Type	Manufacturer	Model Number & Description	Pg.
	WATTS	PLT-5 2.1 GALLON THERMAL EXPANSION TANK	41

ET-2			
Type	Manufacturer	Model Number & Description	Pg.
	WATTS	PLT-12 4.5 GALLON THERMAL EXPANSION TANK	44

SP-1			
Type	Manufacturer	Model Number & Description	Pg.
	LIBERTY	ELV290 3/4HP SUBMERSIBLE ELEVATOR SUMP PUMP 115V WITH OILTECTOR CONTROL ALARM AND 25FT CORD	47
	LIBERTY	BCV200 2" PVC BALL/CHECK VALVE	51
		*** BASIN AND GRATE BY OTHERS***	

EWH-1			
Type	Manufacturer	Model Number & Description	Pg.
	LOCHINVAR	LDS-30 200 TM LT DUTY,ELE,208V,5000W,33 GAL SHORT DUAL	53
	HOLDRITE	50-SWHP-W QUICK WALL MOUNTED WATER HEATER PLATFORM / DRAIN PAN (26 1/2" DIAMETER)	55

EWH-2			
Type	Manufacturer	Model Number & Description	Pg.
	LOCHINVAR	LDT-80 110 XR LT DUTY,ELE,480V,12200W,80GAL TALL	57
	HOLDRITE	40-S-30-U 30" X 30" QUICKSTAND WATER HEATER FLOOR STAND. SAFELY ELEVATE WATER HEATERS IGNITION SOURCE ABOVE THE FLOOR. 1,200LB LOAD RATING UP TO 100 GALLON TANK CAPACITY	59
	OATEY	34085 30" WATER HEATER PAN ALUMINUM	60

EWH-3			
Type	Manufacturer	Model Number & Description	Pg.
	LOCHINVAR	LDT-80 110 XR LT DUTY,ELE,480V,12200W,80GAL TALL	63
	HOLDRITE	40-S-30-U 30" X 30" QUICKSTAND WATER HEATER FLOOR STAND. SAFELY ELEVATE WATER HEATERS IGNITION SOURCE ABOVE THE FLOOR. 1,200LB LOAD RATING UP TO 100 GALLON TANK CAPACITY	65
	OATEY	34085 30" WATER HEATER PAN ALUMINUM	66

EWH-4			
Type	Manufacturer	Model Number & Description	Pg.
	LOCHINVAR	LDT-40 130 TM LT DUTY,ELE,208V,5000W,46 GAL	69
	HOLDRITE	60-SWHP QUICK STAND SUSPENDED WATER HEATER PLATFORM / DRAIN PAN (28 1/2" DIAMETER)	71

EWH-5			
Type	Manufacturer	Model Number & Description	Pg.
	LOCHINVAR	LDT-80 110 XR LT DUTY,ELE,480V,12200W,80GAL TALL	73
	HOLDRITE	40-S-30-U 30" X 30" QUICKSTAND WATER HEATER FLOOR STAND. SAFELY ELEVATE WATER HEATERS IGNITION SOURCE ABOVE THE FLOOR. 1,200LB LOAD RATING UP TO 100 GALLON TANK CAPACITY	75
	OATEY	34085 30" WATER HEATER PAN ALUMINUM	76

EWH-6			
Type	Manufacturer	Model Number & Description	Pg.
	LOCHINVAR	LDS-40 120 TM LT DUTY,ELE,208V,5000W,35 GAL SHORT DUAL	79
	HOLDRITE	60-SWHP QUICK STAND SUSPENDED WATER HEATER PLATFORM / DRAIN PAN (28 1/2" DIAMETER)	81

EWH-7			
Type	Manufacturer	Model Number & Description	Pg.
	LOCHINVAR	LDT-65 110 XR LT DUTY,ELE,480V,12200W,65GAL TALL	83

EWH-7 (continued)			
Type	Manufacturer	Model Number & Description	Pg.
	HOLDRITE	40-S-30-U 30" X 30" QUICKSTAND WATER HEATER FLOOR STAND. SAFELY ELEVATE WATER HEATERS IGNITION SOURCE ABOVE THE FLOOR. 1,200LB LOAD RATING UP TO 100 GALLON TANK CAPACITY	85
	OATEY	34085 30" WATER HEATER PAN ALUMINUM	86

EWH-8			
Type	Manufacturer	Model Number & Description	Pg.
	LOCHINVAR	LDS-30 200 TM LT DUTY,ELE,208V,5000W,33 GAL SHORT DUAL	89
	HOLDRITE	50-SWHP-W QUICK WALL MOUNTED WATER HEATER PLATFORM / DRAIN PAN (26 1/2" DIAMETER)	91

EWH-9			
Type	Manufacturer	Model Number & Description	Pg.
	LOCHINVAR	LDS-30 200 TM LT DUTY,ELE,208V,5000W,33 GAL SHORT DUAL	93
	HOLDRITE	50-SWHP-W QUICK WALL MOUNTED WATER HEATER PLATFORM / DRAIN PAN (26 1/2" DIAMETER)	95

EWH-10			
Type	Manufacturer	Model Number & Description	Pg.
	LOCHINVAR	LDS-30 200 TM LT DUTY,ELE,208V,5000W,33 GAL SHORT DUAL	97
	HOLDRITE	50-SWHP-W QUICK WALL MOUNTED WATER HEATER PLATFORM / DRAIN PAN (26 1/2" DIAMETER)	99

2.16 HIGHLANDS BUILDING ROGERS

Notes Summary

Revised EWH-1, EWH-8, EWH-9, EWH-10 with Larger Wall Mount Platform/Pan

Revised EWH-2, EWH-3, EWH-5, EWH-7 with 30" Stand and 30" Drain Pan



2.16 HIGHLANDS BUILDING ROGERS

Datasheets

CP-1

ARMSTRONG

ASTRO 2 | THREE SPEED CIRCULATORS | SUBMITTAL

File No: 10.584
Date: MARCH 03, 2017
Supersedes: 10.584
Date: APRIL 03, 2014

Job: _____ Representative: _____

_____ Ordered by: _____ Date: _____

Engineer: _____ Submitted by: _____ Date: _____

Contractor: _____ Approved by: _____ Date: _____

TECHNICAL DATA

Certification: ETL listed for US and Canada (conforms to UL STD.778 certified to CSA STD. C22.2 NO.108-01)
NSF 372 (for lead free bronze and stainless steel models)

Flow range: 0 – 64 USgpm / 0 – 4.04 l/s

Head range: 0 – 42.0 feet / 0 – 12.8 meters

Maximum fluid temperature: 185°F / 85°C (Astro 286 up to 1.35A)
150°F / 65°C (Astro 286 over 1.35A)
230°F / 110°C† (all others)

Maximum working pressure: 150 psi / 1034 kPa

MATERIALS OF CONSTRUCTION

Pump body: Cast iron (closed systems)
Lead free bronze* (open systems)
Stainless steel* (open systems)

Impeller: Noryl
Shaft: Ceramic
Bearings: Ceramic
Gasket material: EPDM

A/E please review. Brass impeller not shown as an option.

DIMENSIONS AND WEIGHTS

LEAD FREE BRONZE*	A	B	C	D	E	F	CONNECTION TYPE & SIZE	WEIGHT
Astro 225BS ½" SWT	5.00 (127)	5.00 (127)	4.13 (105)	—	3.10 (79)	—	Sweat – ½"	6.0 (2.7)
Astro 225BS ¾" SWT	5.00 (127)	5.00 (127)	4.13 (105)	—	3.10 (79)	—	Sweat – ¾"	6.0 (2.7)
STAINLESS STEEL*	**A**	**B**	**C**	**D**	**E**	**F**	**CONNECTION TYPE & SIZE**	**WEIGHT**
Astro 220SSU**	6.00 (152)	5.00 (127)	4.00 (102)	—	3.10 (79)	—	Union – 1¼" NPSM	6.5 (2.9)
Astro 225SSU**	6.00 (152)	5.00 (127)	4.00 (102)	—	3.10 (79)	—	Union – 1¼" NPSM	6.5 (2.9)
Astro 230SS**	6.38 (162)	6.00 (150)	4.00 (102)	4.00 (102)	3.10 (79)	3.25 (80)	Flange – (2) ½" dia. bolt holes	8.0 (3.6)
Astro 250SS**	6.38 (162)	6.00 (150)	4.00 (102)	4.00 (102)	3.10 (79)	3.25 (80)	Flange – (2) ½" dia. bolt holes	8.0 (3.6)
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CAST IRON	**A**	**B**	**C**	**D**	**E**	**F**	**CONNECTION TYPE & SIZE**	**WEIGHT**
Astro 230CI**	6.38 (162)	6.00 (150)	4.00 (102)	4.00 (102)	3.10 (79)	3.25 (80)	Flange – (2) ½" dia. bolt holes	8.0 (3.6)
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NOTE: All dimensions are in inches (mm) and weights in lbs (kg).
* Certified <0.25 weighted average percent lead and complies with California Health and Safety Code Section 116875 (commonly known as AB 1953).
** Removable check valve installed at pump outlet.
† For open systems, it is recommended that the fluid temperature be less than 150°F (66°C) to avoid precipitation of calcium.

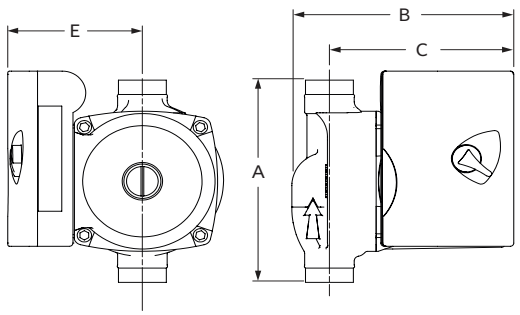
SUBMITTAL Astro 2
3-speed circulator models

2

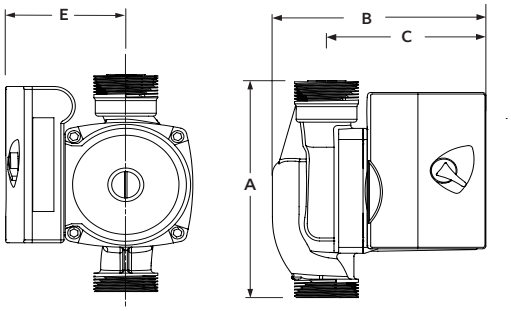
MOTOR DATA

MODEL	ELECTRICAL INPUT	SPEED	FULL LOAD AMP DRAW (A)	NOMINAL POWER (W)
ASTRO 210CI/SS		3	1.06	200
		2	1.50	
		1	1.72	
ASTRO 220SSU	115V, 60HZ Single phase	3	0.29	33
		2	0.27	
		1	0.20	
ASTRO 225BS		3	0.64	75
		2	0.49	
		1	0.38	
ASTRO 225SSU		3	0.69	83
		2	0.55	
		1	0.43	
ASTRO 230SS/CI/CI-R		3	0.81	97
		2	0.58	
		1	0.45	
ASTRO 250SS/CI/CI-R		3	0.98	117
		2	0.79	
		1	0.65	
ASTRO 280CI/SS		3	1.90	218
		2	1.80	
		1	1.50	
ASTRO 290CI/SS		3	1.90	218
		2	1.60	
		1	1.40	
ASTRO 280CI/SS 230V	230V, 60HZ Single phase	3	0.90	210
		2	0.86	
		1	0.80	
ASTRO 286CI/SS		1	1.60	370

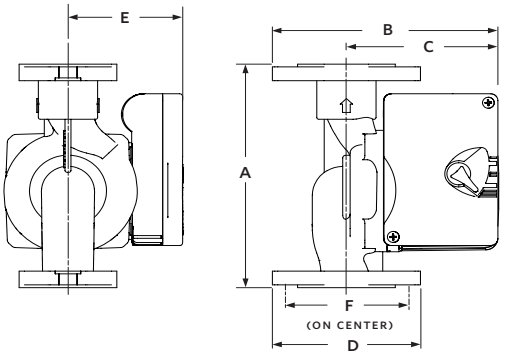
ASTRO 225BS



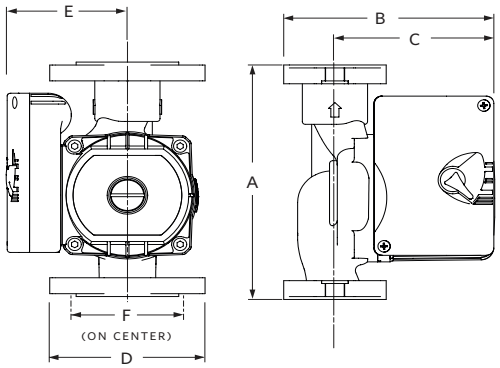
ASTRO 220SSU & 225SSU



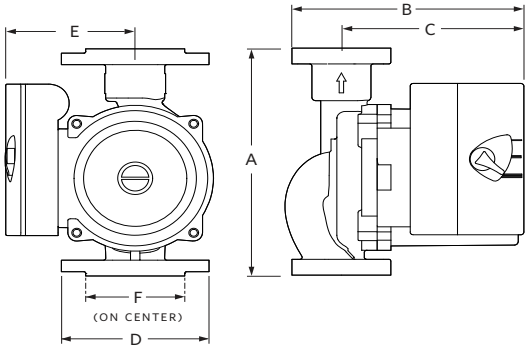
ASTRO 230SS/CI & 250SS/CI



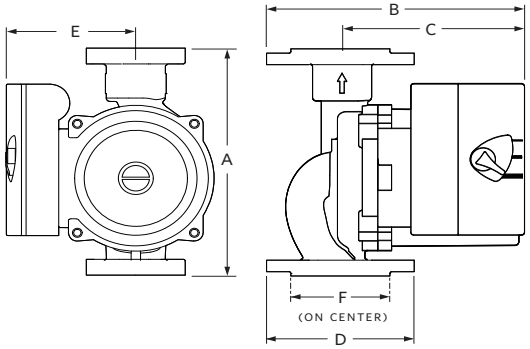
ASTRO 230CI-R & 250CI-R



ASTRO 280CI, 290CI/SS & 286CI/SS



ASTRO 210CI/SS &280SS



HARDWARE KIT

Companion flange kit (contains two (2) flanges, hardware and gaskets)

Cast iron: 0.75", 1", 1.25", 1.5"

Bronze: 0.75", 1", 1.25", 1.5"

Union fitting (contains two (2) half unions and gaskets)

1.25" NPSM to:

Brass/Lead free bronze: 0.5" sweat, 0.75" sweat, 0.75" FNPT

CHECK VALVE SIZE

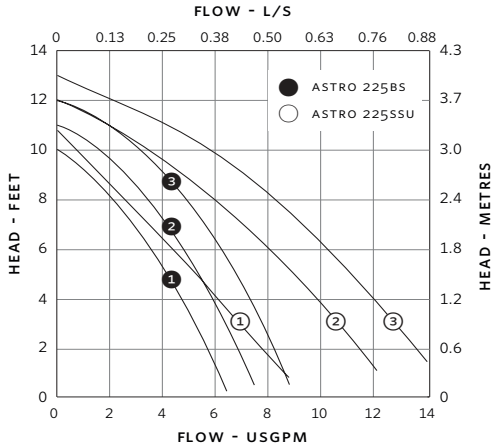
CHECK VALVE SIZE	MODEL
1" Diameter	ASTRO 220SSU, ASTRO 225SSU
1¼" Diameter	ASTRO 210, ASTRO 230, ASTRO 250, ASTRO 280, ASTRO 286
1½" Diameter	ASTRO 290

SUBMITTAL Astro 2
3-speed circulator models

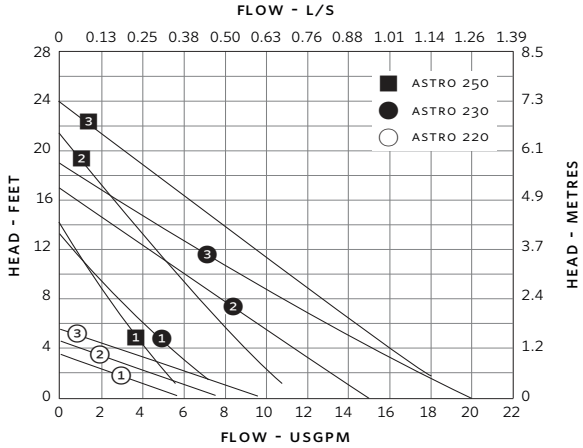
4

PERFORMANCE CURVES

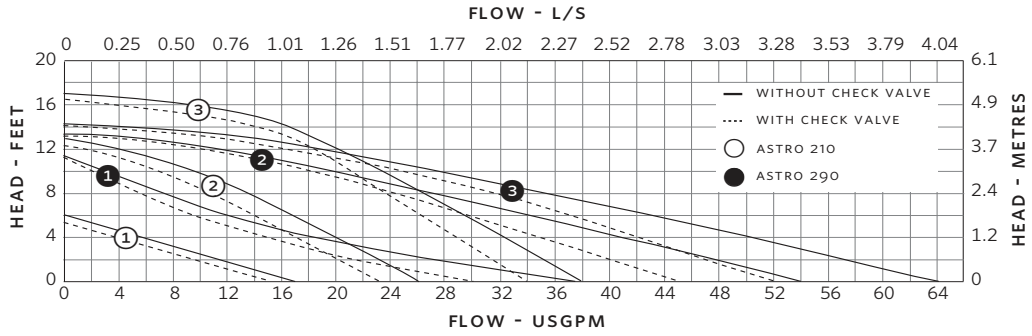
ASTRO 225BS, 225SSU



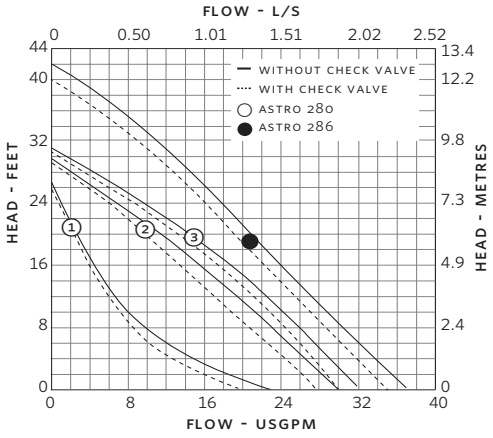
ASTRO 220, 230, 250



ASTRO 210, 290



ASTRO 280, 286



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ARMSTRONG FLUID TECHNOLOGY
ESTABLISHED 1934

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24-HOUR TIMER AND AQUASTAT CONTROL ACCESSORY FOR ASTRO 2 | INSTALLATION AND OPERATING INSTRUCTIONS

File No: 11.871
Date: FEBRUARY 24, 2017
Supersedes: 11.871
Date: JULY 16, 2015

1.0 Timer application 1
2.0 Installation 1
3.0 Timer and aquastat application 1
4.0 24-Hour timer 2
5.0 Timer installation 2
6.0 Aquastat control accessory 2
7.0 Aquastat installation 3
8.0 Timer and aquastat installation 3
9.0 Timer programming with manual override switch 3

1.0 TIMER APPLICATION



The Armstrong 24-hour timers provide On/Off pump control according to preset operating times in order to increase comfort and improve the overall efficiency of domestic hot water re-circulation systems. The 24-hour timers are designed for use with Armstrong circulators installed in indoor hot water re-circulation applications.

Typical timer applications will cycle the pump at preset times, allowing the user to select operation of the circulating pump during high peak usage periods in order to decrease the delivery time to outlet fixtures and reduce wasted water.

The timer control is programmable to ¼ hour intervals within a 24-hour time frame utilizing a user friendly analog clock timer with hour and minute hands, two directional arrows, and AM/PM time setting.

2.0 AQUASTAT APPLICATION



An optional aquastat is available for constant circulation applications to maintain temperature between 85°F and 105°F (29°C and 41°C). The Armstrong aquastat control accessory is designed for use with Astro Series wet rotor circulators in potable hot water re-circulation installations.

The aquastat control automatically turns the circulator on when the temperature in the hot water line falls below approximately 85°F (ON condition - for example when there is low demand on the hot water supply). The control turns it off again when the temperature exceeds 105°F (OFF condition - as in the case of periods with high demand).

3.0 TIMER AND AQUASTAT APPLICATION

The 24-hour timer and aquastat can also be used together giving a comprehensive time and temperature actuated pump control in a domestic hot water re-circulation system. Typical application of the timer and aquastat combination will circulate water only when both time and temperature ON conditions are initiated.

TIMER FEATURES

- Easy to install and program
- Time actuated 24-hour on/off pump control
- Hour and minute time setting with AM/PM function
- Manual override switch modes
- Rugged construction - steel enclosure
- Clear plastic cover for dust and moisture protection of the clock face
- Designed specifically for hot water re-circulation applications
- UL Listed

TIMER FEATURES

- Easy to install
- Temperature actuated pump control
- Environmentally sealed enclosure
- Surface sensing through snap acting bimetalic disc
- UL Listed

4.0 24-HOUR TIMER

TECHNICAL DATA	
Description	24-Hour Timer
Application	Time actuated On/Off pump control
Shortest Switching Interval	¼ hour (15 minutes)
Manual Switch Modes	"Timer", "ON" Override, "OFF" Override

INSTALLATION & OPERATING INSTRUCTIONS — 24-hour Timer and Aquastat control accessory for Astro 2

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TECHNICAL DATA	
Ambient Temperature Range	-40°F to 180°F (-40°C to 82°C)
Power Consumption	120 V, 0.5 W
Supply Voltage	110-120 VAC, 60 Hz
Terminals	¼" spade terminals
Weight	Approximately 3 oz.

5.0 TIMER INSTALLATION

WARNING

Electrical shock hazard - Verify that the electrical rating of the device matches the values shown on the nameplate of the circulator. All electrical work should be performed by a qualified electrician in accordance with the latest edition of the National Electric Code, local codes and regulations. Failure to follow these instructions could result in serious injury, death and/or property damage.

WARNING

Risk of electric shock – This pump is supplied with a grounding conductor and grounding-type attachment plug. To reduce the risk of electric shock, be certain that it is connected only to a properly grounded, grounding-type receptacle.

Note: Steps 1 & 3 apply to retrofit installations.

1. Disconnect the electrical supply to the circulator
   Note: Numerical component designations included in Steps 2 through 8 refer to circulator and timer components shown in **FIG. 1**.
2. Unfasten the mounting 2 screws (4) and remove the terminal box cover (3).
3. Disconnect wire leads from the power supply.
4. Connect power supply wires (black, white and green) to the timer unit and to the circulator terminals (as shown in **FIG.2**).
   Note: Lead Wiring Specification - Minimum, 6" (152 mm) long, 14 AWG, rated minimum 140°F (60°C). Provided with R/C crimp connectors for attachment to the ground.
5. Place the timer box cover (5) using the 2 mounting screws (4). Insure that all lead wires are inside the timer assembly.
6. Program the timer according to instructions provided on page 6.
7. Connect the unit to electrical supply.
8. Start the circulator.

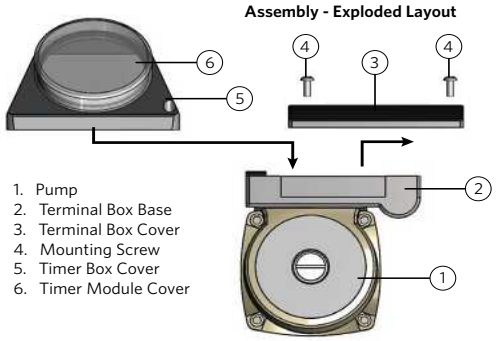


FIG. 1 Astro 2 Series circulator and 24-Hour Timer assembly drawing

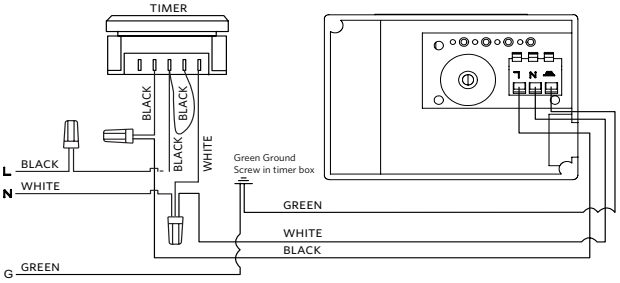


FIG. 2 Astro 2 Series circulator and 24-Hour Timer wiring diagram

6.0 AQUASTAT CONTROL ACCESSORY

TECHNICAL DATA	
Description	Aquastat (thermostatic) switch
Type	Surface sensing, snap acting bimetallic disc
Enclosure	Environmentally sealed
Switch modes*	105 ± 5°F (40 ± 2°C) pump switches OFF 85 ± 6°F (29 ± 3°C) pump switches ON
Contact position	Normally open
Mounting	**½":** Clip-on type for ⅝" O.D. system piping size (i.e., ½" I.D. copper tubing or ⅜" steel pipe) **¾":** Clip-on type for ⅞" O.D. system piping size (i.e., ¾" I.D. copper tubing or ½" steel pipe) May be mounted on either the inlet or outlet piping of the circulator.
Lead length	14" (356 mm)

*Temperatures indicated are at pipe surface

7.0 AQUASTAT INSTALLATION

1. Follow Steps 1, 2 and 3 in the Timer Installation section
2. The aquastat control is a surface temperature sensing device that must be in contact with the system piping to operate properly. Separate models include clip-on mounts for ¾" (⅞" O.D.) and ½" (⅝" O.D.) copper tubing. (See **FIG. 3**)
3. Connect the black, green and white lead wires according to the wiring diagram (**FIG. 4**)
   Note: Lead Wiring Specification - Minimum, 6" (152 mm) long, 14 AWG, rated minimum 140°F (60°C). Provided with R/C crimp connectors for attachment to the ground.
4. Close the terminal box cover and fasten the screw

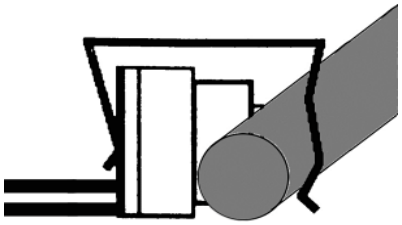


FIG. 3

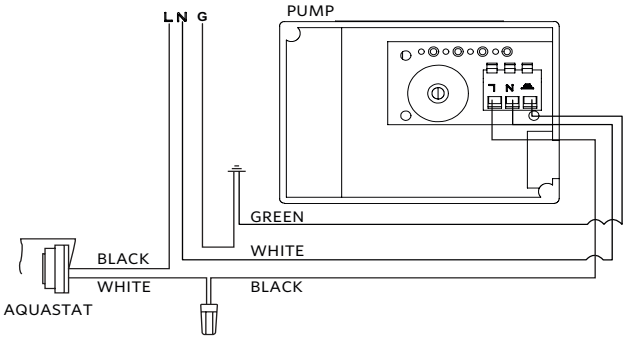


FIG. 4 Astro 2 Series circulator with Aquastat Control wiring diagram

8.0 TIMER AND AQUASTAT INSTALLATION

Follow the installation steps in both the Timer and Aquastat installation instructions and refer to Fig. 5 for the wiring connections.

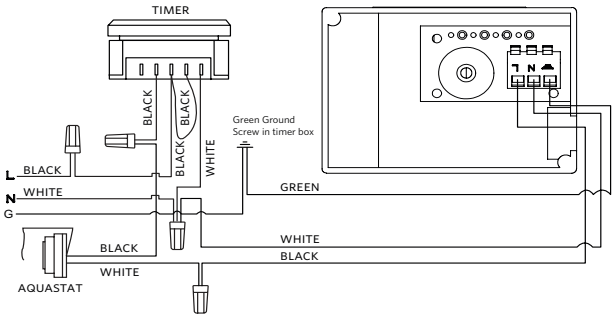


FIG. 5 Astro 2 Series circulator with 24-Hour Timer and Aquastat Control wiring diagram

9.0 TIMER PROGRAMMING WITH MANUAL OVERRIDE SWITCH

Automatic Mode

In order to operate the time switch in the automatic mode, the manual switch must be in the center position. (See **FIG. 6**)

Manual Mode

With the manual switch selector lever the selected programs can be overridden. In the lower position, marked "**O**", terminals 3 and 5 are permanently closed. In the upper position, marked "**I**", terminals 3 and 4 are permanently closed. (See **FIG. 6**)

OVERRIDE MODE

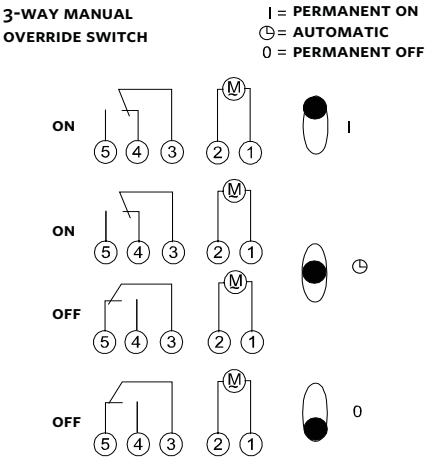


FIG. 6

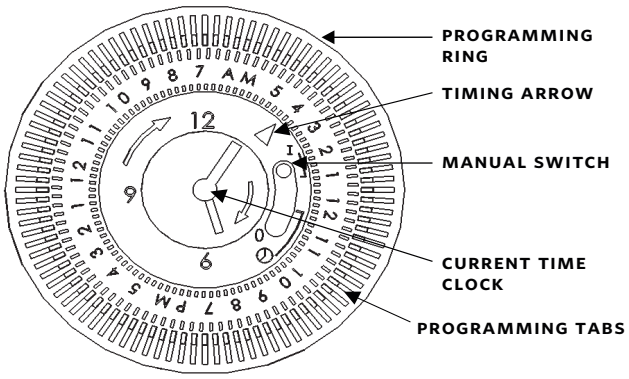
INSTALLATION & OPERATING INSTRUCTIONS

24-hour Timer and Aquastat control accessory for Astro 2

4

TIMER PROGRAMMING

1. Set the current time by turning the programming ring clockwise until the timing arrow points to the current time of day.
2. Restore power to the circulator and set the manual switch on the timer dial to the "**ON**" position ("**I**").
3. Set the required "**ON/OFF**" times by pushing the programming tabs to the outer position for "**ON**" time intervals. For "**OFF**" ("**O**") operation keep the programming tabs in the inner position.
4. Set the manual switch to the center position, between the "**I**" and "**O**" on the timer dial in order to cycle the pump according to the programming tab settings. The pump will run continuously when the switch is set to "**I**" (**ON**) position. The "**O**" (**OFF**) position of the switch will shut the circulator off at all times.
5. In the event of power outage, the timer must be adjusted for the correct time of day after power is restored.
   Note: The 24-hour timer requires manual resetting for daylight savings time.



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2.16 HIGHLANDS BUILDING ROGERS

Datasheets

CP-2

ARMSTRONG

ASTRO 2 | THREE SPEED CIRCULATORS | SUBMITTAL

File No: 10.584
Date: MARCH 03, 2017
Supersedes: 10.584
Date: APRIL 03, 2014

Job: _____ Representative: _____

_____ Ordered by: _____ Date: _____

Engineer: _____ Submitted by: _____ Date: _____

Contractor: _____ Approved by: _____ Date: _____

TECHNICAL DATA

Certification: ETL listed for US and Canada (conforms to UL STD.778 certified to CSA STD. C22.2 NO.108-01)
NSF 372 (for lead free bronze and stainless steel models)

Flow range: 0 – 64 USgpm / 0 – 4.04 l/s

Head range: 0 – 42.0 feet / 0 – 12.8 meters

Maximum fluid temperature: 185°F / 85°C (Astro 286 up to 1.35A)
150°F / 65°C (Astro 286 over 1.35A)
230°F / 110°C† (all others)

Maximum working pressure: 150 psi / 1034 kPa

MATERIALS OF CONSTRUCTION

Pump body: Cast iron (closed systems)
Lead free bronze* (open systems)
Stainless steel* (open systems)

Impeller: Noryl
Shaft: Ceramic
Bearings: Ceramic
Gasket material: EPDM

A/E please review. Brass impeller not shown as an option.

DIMENSIONS AND WEIGHTS

LEAD FREE BRONZE*	A	B	C	D	E	F	CONNECTION TYPE & SIZE	WEIGHT
Astro 225BS ½" SWT	5.00 (127)	5.00 (127)	4.13 (105)	—	3.10 (79)	—	Sweat – ½"	6.0 (2.7)
Astro 225BS ¾" SWT	5.00 (127)	5.00 (127)	4.13 (105)	—	3.10 (79)	—	Sweat – ¾"	6.0 (2.7)
STAINLESS STEEL*	**A**	**B**	**C**	**D**	**E**	**F**	**CONNECTION TYPE & SIZE**	**WEIGHT**
Astro 220SSU**	6.00 (152)	5.00 (127)	4.00 (102)	—	3.10 (79)	—	Union – 1¼" NPSM	6.5 (2.9)
Astro 225SSU**	6.00 (152)	5.00 (127)	4.00 (102)	—	3.10 (79)	—	Union – 1¼" NPSM	6.5 (2.9)
Astro 230SS**	6.38 (162)	6.00 (150)	4.00 (102)	4.00 (102)	3.10 (79)	3.25 (80)	Flange – (2) ½" dia. bolt holes	8.0 (3.6)
Astro 250SS**	6.38 (162)	6.00 (150)	4.00 (102)	4.00 (102)	3.10 (79)	3.25 (80)	Flange – (2) ½" dia. bolt holes	8.0 (3.6)
Astro 210SS**	6.50 (165)	7.25 (184)	4.87 (124)	4.00 (102)	3.60 (91)	3.13 (80)	Flange – (2) ½" dia. bolt holes	10.1 (4.6)
Astro 280SS (230V)**	6.50 (165)	6.75 (171)	4.87 (124)	4.00 (102)	3.60 (91)	3.13 (80)	Flange – (2) ½" dia. bolt holes	10.1 (4.6)
Astro 286SS**	6.50 (165)	6.38 (162)	4.87 (124)	4.00 (102)	3.60 (91)	3.13 (80)	Flange – (2) ½" dia. bolt holes	10.1 (4.6)
Astro 290SS**	8.50 (216)	6.65 (169)	5.20 (132)	4.00 (102)	3.60 (91)	3.45 (88)	Flange – (2) ½" dia. bolt holes	13.2 (6.0)
CAST IRON	**A**	**B**	**C**	**D**	**E**	**F**	**CONNECTION TYPE & SIZE**	**WEIGHT**
Astro 230CI**	6.38 (162)	6.00 (150)	4.00 (102)	4.00 (102)	3.10 (79)	3.25 (80)	Flange – (2) ½" dia. bolt holes	8.0 (3.6)
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Astro 210CI**	6.50 (165)	7.25 (184)	4.87 (124)	4.00 (102)	3.60 (91)	3.13 (80)	Flange – (2) ½" dia. bolt holes	10.1 (4.6)
Astro 280CI (230V)**	6.50 (165)	6.38 (162)	4.87 (124)	4.00 (102)	3.60 (91)	3.13 (80)	Flange – (2) ½" dia. bolt holes	10.1 (4.6)
Astro 286CI**	6.50 (165)	6.38 (162)	4.87 (124)	4.00 (102)	3.60 (91)	3.13 (80)	Flange – (2) ½" dia. bolt holes	10.1 (4.6)
Astro 290CI**	8.50 (216)	6.65 (169)	5.20 (132)	4.00 (102)	3.60 (91)	3.45 (88)	Flange – (2) ½" dia. bolt holes	13.2 (6.0)

NOTE: All dimensions are in inches (mm) and weights in lbs (kg).
* Certified <0.25 weighted average percent lead and complies with California Health and Safety Code Section 116875 (commonly known as AB 1953).
** Removable check valve installed at pump outlet.
† For open systems, it is recommended that the fluid temperature be less than 150°F (66°C) to avoid precipitation of calcium.

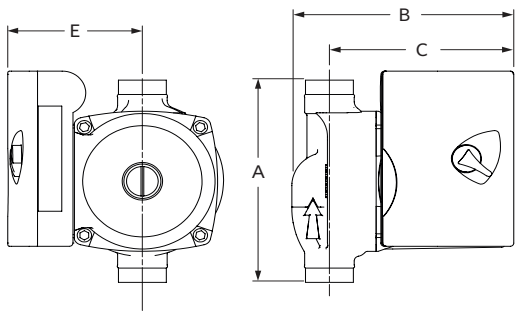
SUBMITTAL Astro 2
3-speed circulator models

2

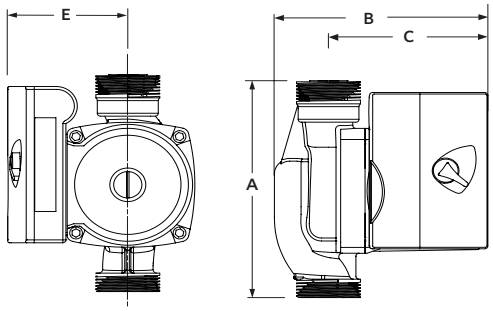
MOTOR DATA

MODEL	ELECTRICAL INPUT	SPEED	FULL LOAD AMP DRAW (A)	NOMINAL POWER (W)
ASTRO 210CI/SS		3	1.06	200
		2	1.50	
		1	1.72	
ASTRO 220SSU	115V, 60HZ Single phase	3	0.29	33
		2	0.27	
		1	0.20	
ASTRO 225BS		3	0.64	75
		2	0.49	
		1	0.38	
ASTRO 225SSU		3	0.69	83
		2	0.55	
		1	0.43	
ASTRO 230SS/CI/CI-R		3	0.81	97
		2	0.58	
		1	0.45	
ASTRO 250SS/CI/CI-R		3	0.98	117
		2	0.79	
		1	0.65	
ASTRO 280CI/SS		3	1.90	218
		2	1.80	
		1	1.50	
ASTRO 290CI/SS		3	1.90	218
		2	1.60	
		1	1.40	
ASTRO 280CI/SS 230V	230V, 60HZ Single phase	3	0.90	210
		2	0.86	
		1	0.80	
ASTRO 286CI/SS		1	1.60	370

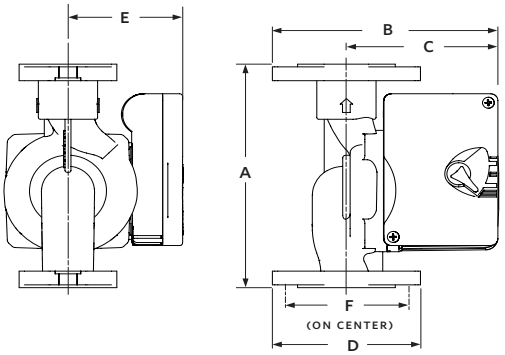
ASTRO 225BS



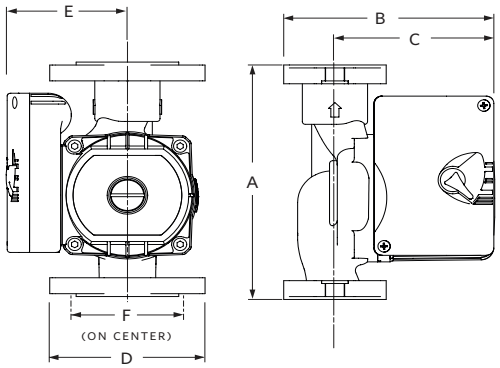
ASTRO 220SSU & 225SSU



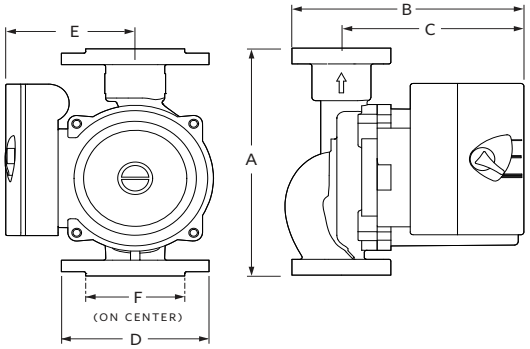
ASTRO 230SS/CI & 250SS/CI



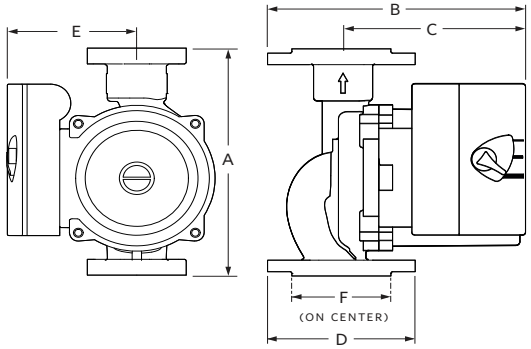
ASTRO 230CI-R & 250CI-R



ASTRO 280CI, 290CI/SS & 286CI/SS



ASTRO 210CI/SS &280SS



HARDWARE KIT

Companion flange kit (contains two (2) flanges, hardware and gaskets)

Cast iron: 0.75", 1", 1.25", 1.5"

Bronze: 0.75", 1", 1.25", 1.5"

Union fitting (contains two (2) half unions and gaskets)

1.25" NPSM to:

Brass/Lead free bronze: 0.5" sweat, 0.75" sweat, 0.75" FNPT

CHECK VALVE SIZE

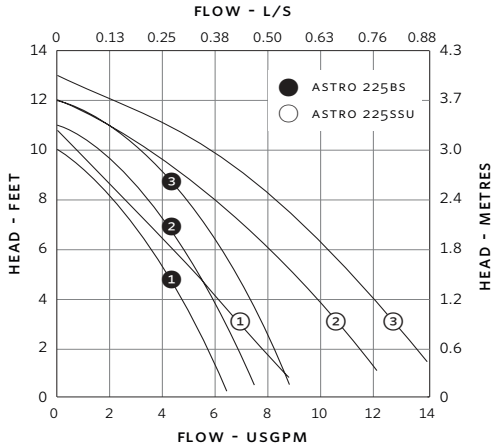
CHECK VALVE SIZE	MODEL
1" Diameter	ASTRO 220SSU, ASTRO 225SSU
1¼" Diameter	ASTRO 210, ASTRO 230, ASTRO 250, ASTRO 280, ASTRO 286
1½" Diameter	ASTRO 290

SUBMITTAL Astro 2
3-speed circulator models

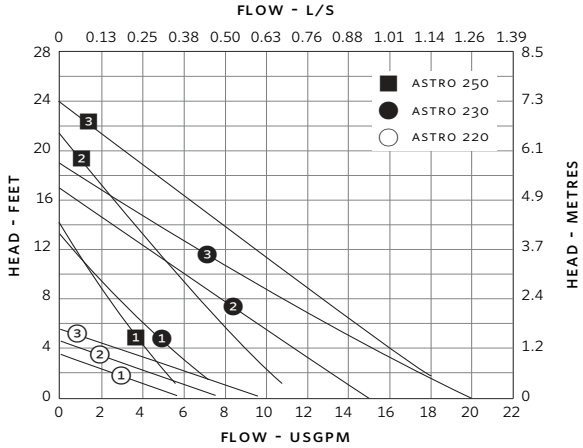
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PERFORMANCE CURVES

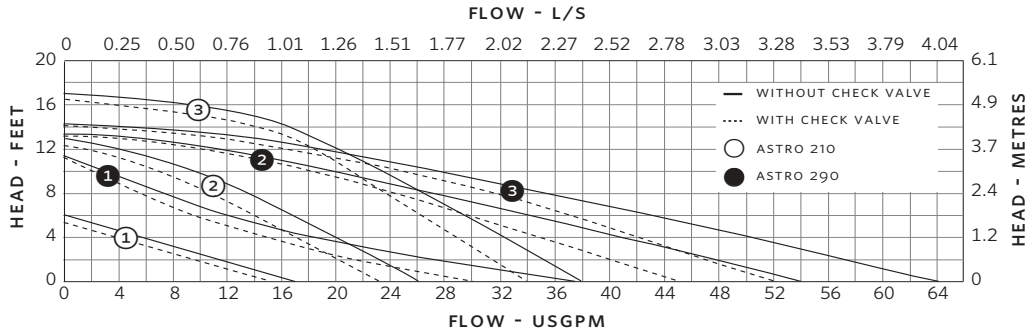
ASTRO 225BS, 225SSU



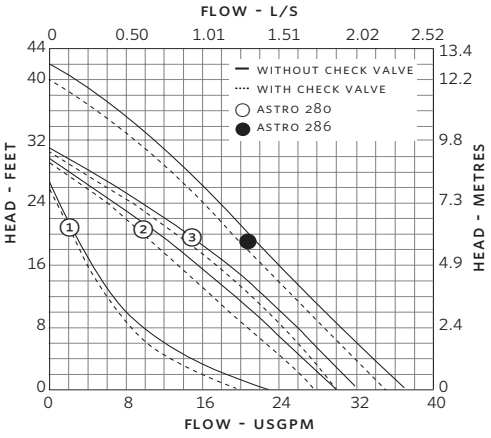
ASTRO 220, 230, 250



ASTRO 210, 290



ASTRO 280, 286



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ARMSTRONG

24-HOUR TIMER AND AQUASTAT CONTROL ACCESSORY FOR ASTRO 2 | INSTALLATION AND OPERATING INSTRUCTIONS

File No: 11.871
Date: FEBRUARY 24, 2017
Supersedes: 11.871
Date: JULY 16, 2015

1.0 Timer application 1
2.0 Installation 1
3.0 Timer and aquastat application 1
4.0 24-Hour timer 2
5.0 Timer installation 2
6.0 Aquastat control accessory 2
7.0 Aquastat installation 3
8.0 Timer and aquastat installation 3
9.0 Timer programming with manual override switch 3

1.0 TIMER APPLICATION



The Armstrong 24-hour timers provide On/Off pump control according to preset operating times in order to increase comfort and improve the overall efficiency of domestic hot water re-circulation systems. The 24-hour timers are designed for use with Armstrong circulators installed in indoor hot water re-circulation applications.

Typical timer applications will cycle the pump at preset times, allowing the user to select operation of the circulating pump during high peak usage periods in order to decrease the delivery time to outlet fixtures and reduce wasted water.

The timer control is programmable to ¼ hour intervals within a 24-hour time frame utilizing a user friendly analog clock timer with hour and minute hands, two directional arrows, and AM/PM time setting.

2.0 AQUASTAT APPLICATION



An optional aquastat is available for constant circulation applications to maintain temperature between 85°F and 105°F (29°C and 41°C). The Armstrong aquastat control accessory is designed for use with Astro Series wet rotor circulators in potable hot water re-circulation installations.

The aquastat control automatically turns the circulator on when the temperature in the hot water line falls below approximately 85°F (ON condition - for example when there is low demand on the hot water supply). The control turns it off again when the temperature exceeds 105°F (OFF condition - as in the case of periods with high demand).

3.0 TIMER AND AQUASTAT APPLICATION

The 24-hour timer and aquastat can also be used together giving a comprehensive time and temperature actuated pump control in a domestic hot water re-circulation system. Typical application of the timer and aquastat combination will circulate water only when both time and temperature ON conditions are initiated.

TIMER FEATURES

- Easy to install and program
- Time actuated 24-hour on/off pump control
- Hour and minute time setting with AM/PM function
- Manual override switch modes
- Rugged construction - steel enclosure
- Clear plastic cover for dust and moisture protection of the clock face
- Designed specifically for hot water re-circulation applications
- UL Listed

TIMER FEATURES

- Easy to install
- Temperature actuated pump control
- Environmentally sealed enclosure
- Surface sensing through snap acting bimetalic disc
- UL Listed

4.0 24-HOUR TIMER

TECHNICAL DATA	
Description	24-Hour Timer
Application	Time actuated On/Off pump control
Shortest Switching Interval	¼ hour (15 minutes)
Manual Switch Modes	"Timer", "ON" Override, "OFF" Override

INSTALLATION & OPERATING INSTRUCTIONS

24-hour Timer and Aquastat control accessory for Astro 2

2

TECHNICAL DATA	
Ambient Temperature Range	-40°F to 180°F (-40°C to 82°C)
Power Consumption	120 V, 0.5 W
Supply Voltage	110-120 VAC, 60 Hz
Terminals	¼" spade terminals
Weight	Approximately 3 oz.

5.0 TIMER INSTALLATION

WARNING

Electrical shock hazard - Verify that the electrical rating of the device matches the values shown on the nameplate of the circulator. All electrical work should be performed by a qualified electrician in accordance with the latest edition of the National Electric Code, local codes and regulations. Failure to follow these instructions could result in serious injury, death and/or property damage.

WARNING

Risk of electric shock – This pump is supplied with a grounding conductor and grounding-type attachment plug. To reduce the risk of electric shock, be certain that it is connected only to a properly grounded, grounding-type receptacle.

Note: Steps 1 & 3 apply to retrofit installations.

1. Disconnect the electrical supply to the circulator
   Note: Numerical component designations included in Steps 2 through 8 refer to circulator and timer components shown in **FIG. 1**.
2. Unfasten the mounting 2 screws (4) and remove the terminal box cover (3).
3. Disconnect wire leads from the power supply.
4. Connect power supply wires (black, white and green) to the timer unit and to the circulator terminals (as shown in **FIG.2**).
   Note: Lead Wiring Specification - Minimum, 6" (152 mm) long, 14 AWG, rated minimum 140°F (60°C). Provided with R/C crimp connectors for attachment to the ground.
5. Place the timer box cover (5) using the 2 mounting screws (4). Insure that all lead wires are inside the timer assembly.
6. Program the timer according to instructions provided on page 6.
7. Connect the unit to electrical supply.
8. Start the circulator.

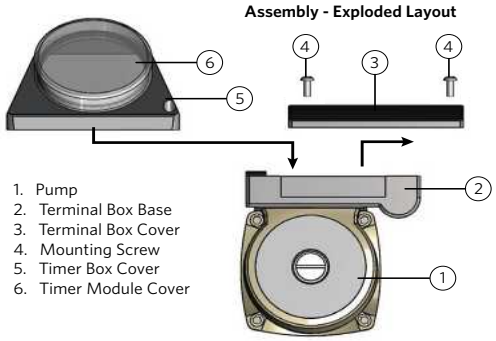


FIG. 1 Astro 2 Series circulator and 24-Hour Timer assembly drawing

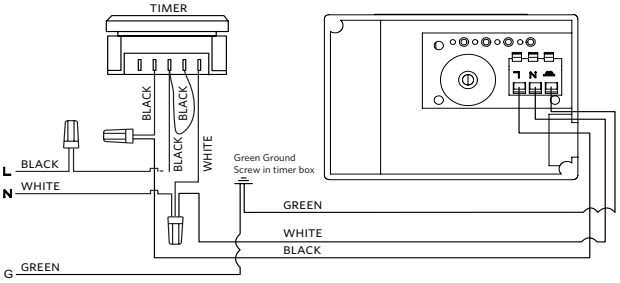


FIG. 2 Astro 2 Series circulator and 24-Hour Timer wiring diagram

6.0 AQUASTAT CONTROL ACCESSORY

TECHNICAL DATA	
Description	Aquastat (thermostatic) switch
Type	Surface sensing, snap acting bimetallic disc
Enclosure	Environmentally sealed
Switch modes*	105 ± 5°F (40 ± 2°C) pump switches OFF 85 ± 6°F (29 ± 3°C) pump switches ON
Contact position	Normally open
Mounting	**½":** Clip-on type for ⅝" O.D. system piping size (i.e., ½" I.D. copper tubing or ⅜" steel pipe) **¾":** Clip-on type for ⅞" O.D. system piping size (i.e., ¾" I.D. copper tubing or ½" steel pipe) May be mounted on either the inlet or outlet piping of the circulator.
Lead length	14" (356 mm)

*Temperatures indicated are at pipe surface

7.0 AQUASTAT INSTALLATION

1. Follow Steps 1, 2 and 3 in the Timer Installation section
2. The aquastat control is a surface temperature sensing device that must be in contact with the system piping to operate properly. Separate models include clip-on mounts for ¾" (⅞" O.D.) and ½" (⅝" O.D.) copper tubing. (See **FIG. 3**)
3. Connect the black, green and white lead wires according to the wiring diagram (**FIG. 4**)
   Note: Lead Wiring Specification - Minimum, 6" (152 mm) long, 14 AWG, rated minimum 140°F (60°C). Provided with R/C crimp connectors for attachment to the ground.
4. Close the terminal box cover and fasten the screw

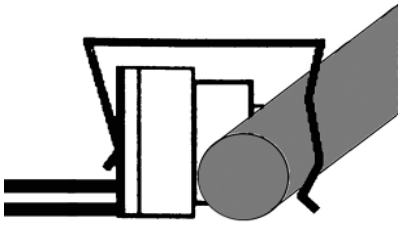


FIG. 3

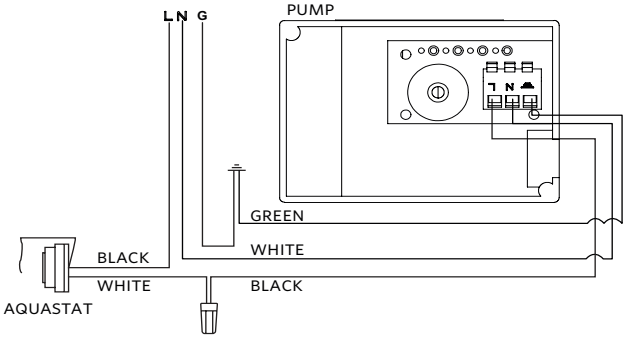


FIG. 4 Astro 2 Series circulator with Aquastat Control wiring diagram

8.0 TIMER AND AQUASTAT INSTALLATION

Follow the installation steps in both the Timer and Aquastat installation instructions and refer to Fig. 5 for the wiring connections.

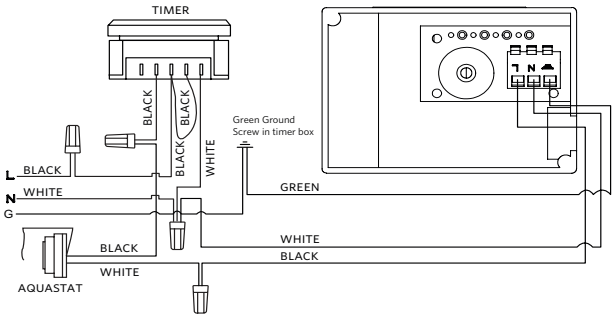


FIG. 5 Astro 2 Series circulator with 24-Hour Timer and Aquastat Control wiring diagram

9.0 TIMER PROGRAMMING WITH MANUAL OVERRIDE SWITCH

Automatic Mode

In order to operate the time switch in the automatic mode, the manual switch must be in the center position. (See **FIG. 6**)

Manual Mode

With the manual switch selector lever the selected programs can be overridden. In the lower position, marked "**O**", terminals 3 and 5 are permanently closed. In the upper position, marked "**I**", terminals 3 and 4 are permanently closed. (See **FIG. 6**)

OVERRIDE MODE

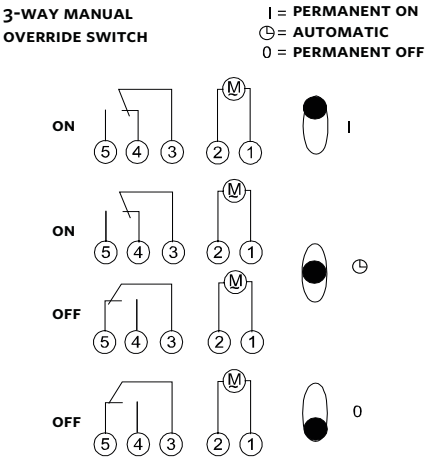
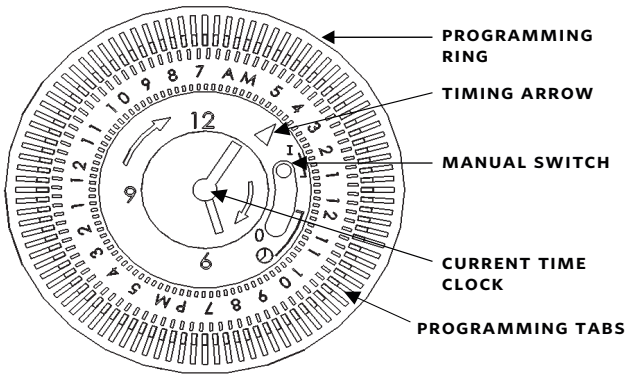


FIG. 6

TIMER PROGRAMMING

1. Set the current time by turning the programming ring clockwise until the timing arrow points to the current time of day.
2. Restore power to the circulator and set the manual switch on the timer dial to the "**ON**" position ("**I**").
3. Set the required "**ON/OFF**" times by pushing the programming tabs to the outer position for "**ON**" time intervals. For "**OFF**" ("**O**") operation keep the programming tabs in the inner position.
4. Set the manual switch to the center position, between the "**I**" and "**O**" on the timer dial in order to cycle the pump according to the programming tab settings. The pump will run continuously when the switch is set to "**I**" (**ON**) position. The "**O**" (**OFF**) position of the switch will shut the circulator off at all times.
5. In the event of power outage, the timer must be adjusted for the correct time of day after power is restored.
   Note: The 24-hour timer requires manual resetting for daylight savings time.



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2.16 HIGHLANDS BUILDING ROGERS

Datasheets

CP-3

ARMSTRONG

ASTRO 2 | THREE SPEED CIRCULATORS | SUBMITTAL

File No: 10.584
Date: MARCH 03, 2017
Supersedes: 10.584
Date: APRIL 03, 2014

Job: _____ Representative: _____

_____ Ordered by: _____ Date: _____

Engineer: _____ Submitted by: _____ Date: _____

Contractor: _____ Approved by: _____ Date: _____

TECHNICAL DATA

Certification: ETL listed for US and Canada (conforms to UL STD.778 certified to CSA STD. C22.2 NO.108-01)
NSF 372 (for lead free bronze and stainless steel models)

Flow range: 0 – 64 USgpm / 0 – 4.04 l/s

Head range: 0 – 42.0 feet / 0 – 12.8 meters

Maximum fluid temperature: 185°F / 85°C (Astro 286 up to 1.35A)
150°F / 65°C (Astro 286 over 1.35A)
230°F / 110°C† (all others)

Maximum working pressure: 150 psi / 1034 kPa

MATERIALS OF CONSTRUCTION

Pump body: Cast iron (closed systems)
Lead free bronze* (open systems)
Stainless steel* (open systems)

Impeller: Noryl
Shaft: Ceramic
Bearings: Ceramic
Gasket material: EPDM

A/E please review. Brass impeller not shown as an option.

DIMENSIONS AND WEIGHTS

LEAD FREE BRONZE*	A	B	C	D	E	F	CONNECTION TYPE & SIZE	WEIGHT
Astro 225BS ½" SWT	5.00 (127)	5.00 (127)	4.13 (105)	—	3.10 (79)	—	Sweat – ½"	6.0 (2.7)
Astro 225BS ¾" SWT	5.00 (127)	5.00 (127)	4.13 (105)	—	3.10 (79)	—	Sweat – ¾"	6.0 (2.7)
STAINLESS STEEL*	**A**	**B**	**C**	**D**	**E**	**F**	**CONNECTION TYPE & SIZE**	**WEIGHT**
Astro 220SSU**	6.00 (152)	5.00 (127)	4.00 (102)	—	3.10 (79)	—	Union – 1¼" NPSM	6.5 (2.9)
Astro 225SSU**	6.00 (152)	5.00 (127)	4.00 (102)	—	3.10 (79)	—	Union – 1¼" NPSM	6.5 (2.9)
Astro 230SS**	6.38 (162)	6.00 (150)	4.00 (102)	4.00 (102)	3.10 (79)	3.25 (80)	Flange – (2) ½" dia. bolt holes	8.0 (3.6)
Astro 250SS**	6.38 (162)	6.00 (150)	4.00 (102)	4.00 (102)	3.10 (79)	3.25 (80)	Flange – (2) ½" dia. bolt holes	8.0 (3.6)
Astro 210SS**	6.50 (165)	7.25 (184)	4.87 (124)	4.00 (102)	3.60 (91)	3.13 (80)	Flange – (2) ½" dia. bolt holes	10.1 (4.6)
Astro 280SS (230V)**	6.50 (165)	6.75 (171)	4.87 (124)	4.00 (102)	3.60 (91)	3.13 (80)	Flange – (2) ½" dia. bolt holes	10.1 (4.6)
Astro 286SS**	6.50 (165)	6.38 (162)	4.87 (124)	4.00 (102)	3.60 (91)	3.13 (80)	Flange – (2) ½" dia. bolt holes	10.1 (4.6)
Astro 290SS**	8.50 (216)	6.65 (169)	5.20 (132)	4.00 (102)	3.60 (91)	3.45 (88)	Flange – (2) ½" dia. bolt holes	13.2 (6.0)
CAST IRON	**A**	**B**	**C**	**D**	**E**	**F**	**CONNECTION TYPE & SIZE**	**WEIGHT**
Astro 230CI**	6.38 (162)	6.00 (150)	4.00 (102)	4.00 (102)	3.10 (79)	3.25 (80)	Flange – (2) ½" dia. bolt holes	8.0 (3.6)
Astro 230CI-R**	6.38 (162)	5.63 (137)	4.00 (102)	4.00 (102)	3.10 (79)	3.25 (80)	Flange – (2) ½" dia. bolt holes	8.0 (3.6)
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NOTE: All dimensions are in inches (mm) and weights in lbs (kg).
* Certified <0.25 weighted average percent lead and complies with California Health and Safety Code Section 116875 (commonly known as AB 1953).
** Removable check valve installed at pump outlet.
† For open systems, it is recommended that the fluid temperature be less than 150°F (66°C) to avoid precipitation of calcium.

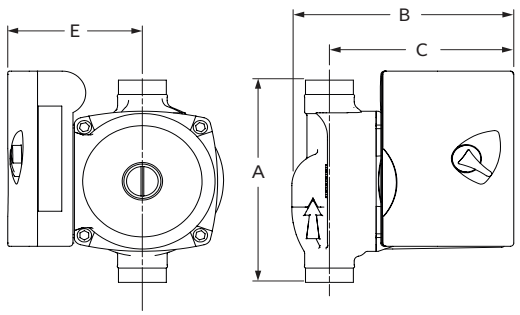
SUBMITTAL Astro 2
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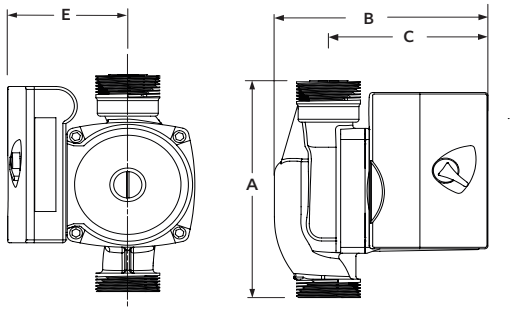
MOTOR DATA

MODEL	ELECTRICAL INPUT	SPEED	FULL LOAD AMP DRAW (A)	NOMINAL POWER (W)
ASTRO 210CI/SS		3	1.06	200
		2	1.50	
		1	1.72	
ASTRO 220SSU	115V, 60HZ Single phase	3	0.29	33
		2	0.27	
		1	0.20	
ASTRO 225BS		3	0.64	75
		2	0.49	
		1	0.38	
ASTRO 225SSU		3	0.69	83
		2	0.55	
		1	0.43	
ASTRO 230SS/CI/CI-R		3	0.81	97
		2	0.58	
		1	0.45	
ASTRO 250SS/CI/CI-R		3	0.98	117
		2	0.79	
		1	0.65	
ASTRO 280CI/SS		3	1.90	218
		2	1.80	
		1	1.50	
ASTRO 290CI/SS		3	1.90	218
		2	1.60	
		1	1.40	
ASTRO 280CI/SS 230V	230V, 60HZ Single phase	3	0.90	210
		2	0.86	
		1	0.80	
ASTRO 286CI/SS		1	1.60	370

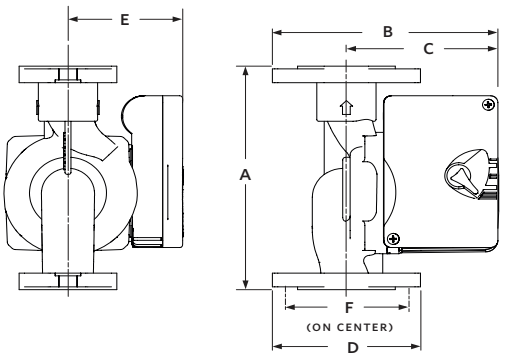
ASTRO 225BS



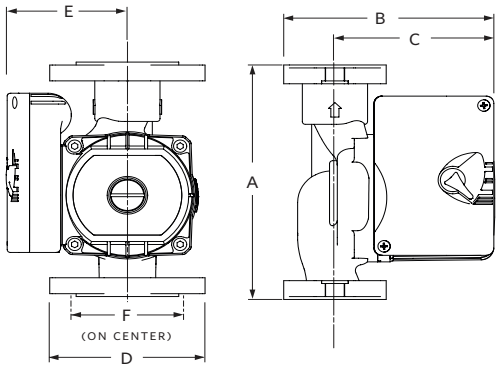
ASTRO 220SSU & 225SSU



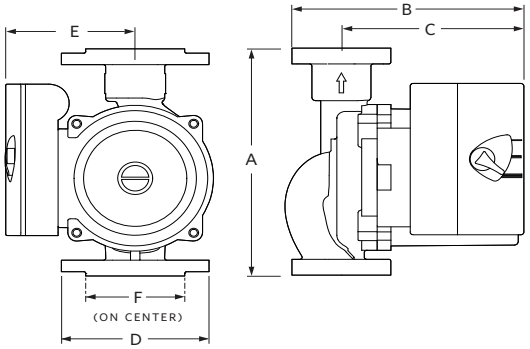
ASTRO 230SS/CI & 250SS/CI



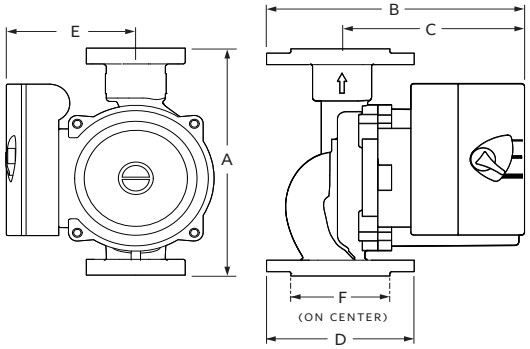
ASTRO 230CI-R & 250CI-R



ASTRO 280CI, 290CI/SS & 286CI/SS



ASTRO 210CI/SS &280SS



HARDWARE KIT

Companion flange kit (contains two (2) flanges, hardware and gaskets)

Cast iron: 0.75", 1", 1.25", 1.5"

Bronze: 0.75", 1", 1.25", 1.5"

Union fitting (contains two (2) half unions and gaskets)

1.25" NPSM to:

Brass/Lead free bronze: 0.5" sweat, 0.75" sweat, 0.75" FNPT

CHECK VALVE SIZE

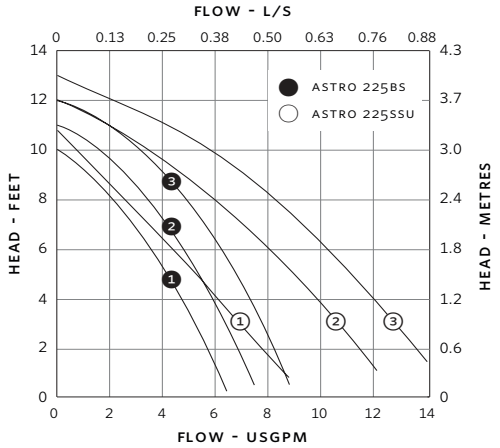
CHECK VALVE SIZE	MODEL
1" Diameter	ASTRO 220SSU, ASTRO 225SSU
1¼" Diameter	ASTRO 210, ASTRO 230, ASTRO 250, ASTRO 280, ASTRO 286
1½" Diameter	ASTRO 290

SUBMITTAL Astro 2
3-speed circulator models

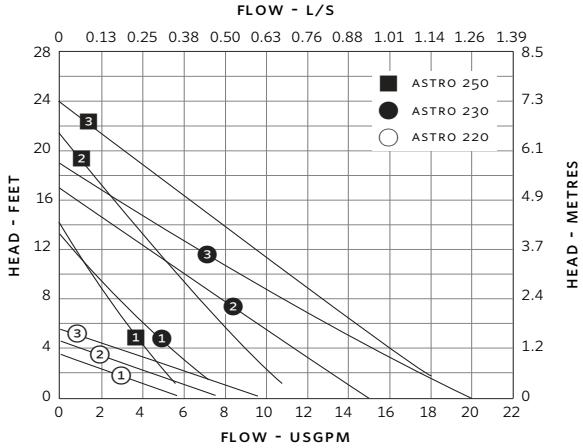
4

PERFORMANCE CURVES

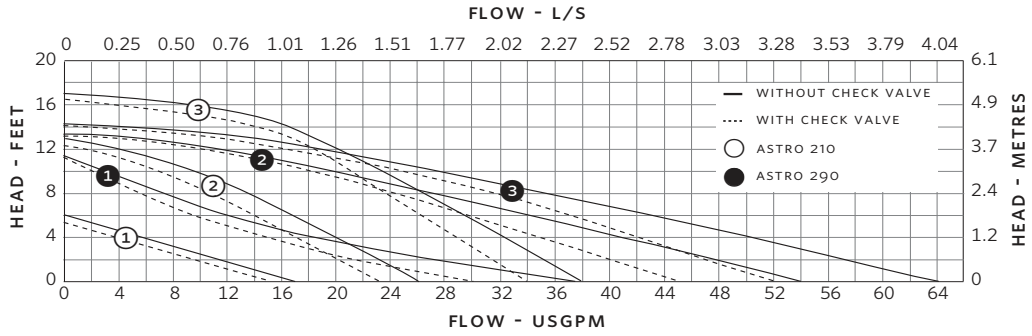
ASTRO 225BS, 225SSU



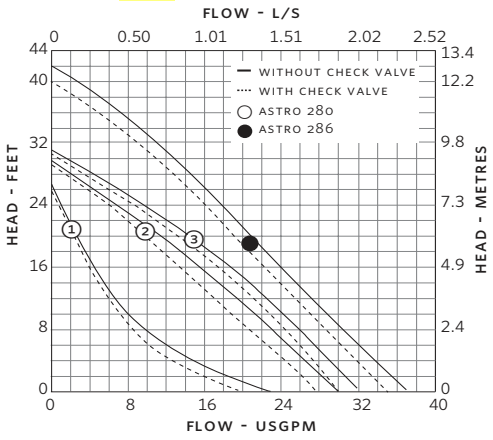
ASTRO 220, 230, 250



ASTRO 210, 290



ASTRO 280, 286



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ARMSTRONG

24-HOUR TIMER AND AQUASTAT CONTROL ACCESSORY FOR ASTRO 2 | INSTALLATION AND OPERATING INSTRUCTIONS

File No: 11.871
Date: FEBRUARY 24, 2017
Supersedes: 11.871
Date: JULY 16, 2015

1.0 Timer application 1
2.0 Installation 1
3.0 Timer and aquastat application 1
4.0 24-Hour timer 2
5.0 Timer installation 2
6.0 Aquastat control accessory 2
7.0 Aquastat installation 3
8.0 Timer and aquastat installation 3
9.0 Timer programming with manual override switch 3

1.0 TIMER APPLICATION



The Armstrong 24-hour timers provide On/Off pump control according to preset operating times in order to increase comfort and improve the overall efficiency of domestic hot water re-circulation systems. The 24-hour timers are designed for use with Armstrong circulators installed in indoor hot water re-circulation applications.

Typical timer applications will cycle the pump at preset times, allowing the user to select operation of the circulating pump during high peak usage periods in order to decrease the delivery time to outlet fixtures and reduce wasted water.

The timer control is programmable to ¼ hour intervals within a 24-hour time frame utilizing a user friendly analog clock timer with hour and minute hands, two directional arrows, and AM/PM time setting.

2.0 AQUASTAT APPLICATION



An optional aquastat is available for constant circulation applications to maintain temperature between 85°F and 105°F (29°C and 41°C). The Armstrong aquastat control accessory is designed for use with Astro Series wet rotor circulators in potable hot water re-circulation installations.

The aquastat control automatically turns the circulator on when the temperature in the hot water line falls below approximately 85°F (ON condition - for example when there is low demand on the hot water supply). The control turns it off again when the temperature exceeds 105°F (OFF condition - as in the case of periods with high demand).

3.0 TIMER AND AQUASTAT APPLICATION

The 24-hour timer and aquastat can also be used together giving a comprehensive time and temperature actuated pump control in a domestic hot water re-circulation system. Typical application of the timer and aquastat combination will circulate water only when both time and temperature ON conditions are initiated.

TIMER FEATURES

- Easy to install and program
- Time actuated 24-hour on/off pump control
- Hour and minute time setting with AM/PM function
- Manual override switch modes
- Rugged construction - steel enclosure
- Clear plastic cover for dust and moisture protection of the clock face
- Designed specifically for hot water re-circulation applications
- UL Listed

TIMER FEATURES

- Easy to install
- Temperature actuated pump control
- Environmentally sealed enclosure
- Surface sensing through snap acting bimetalic disc
- UL Listed

4.0 24-HOUR TIMER

TECHNICAL DATA	
Description	24-Hour Timer
Application	Time actuated On/Off pump control
Shortest Switching Interval	¼ hour (15 minutes)
Manual Switch Modes	"Timer", "ON" Override, "OFF" Override

INSTALLATION & OPERATING INSTRUCTIONS

24-hour Timer and Aquastat control accessory for Astro 2

2

TECHNICAL DATA	
Ambient Temperature Range	-40°F to 180°F (-40°C to 82°C)
Power Consumption	120 V, 0.5 W
Supply Voltage	110-120 VAC, 60 Hz
Terminals	¼" spade terminals
Weight	Approximately 3 oz.

5.0 TIMER INSTALLATION

WARNING

Electrical shock hazard - Verify that the electrical rating of the device matches the values shown on the nameplate of the circulator. All electrical work should be performed by a qualified electrician in accordance with the latest edition of the National Electric Code, local codes and regulations. Failure to follow these instructions could result in serious injury, death and/or property damage.

WARNING

Risk of electric shock – This pump is supplied with a grounding conductor and grounding-type attachment plug. To reduce the risk of electric shock, be certain that it is connected only to a properly grounded, grounding-type receptacle.

Note: Steps 1 & 3 apply to retrofit installations.

1. Disconnect the electrical supply to the circulator
   Note: Numerical component designations included in Steps 2 through 8 refer to circulator and timer components shown in **FIG. 1**.
2. Unfasten the mounting 2 screws (4) and remove the terminal box cover (3).
3. Disconnect wire leads from the power supply.
4. Connect power supply wires (black, white and green) to the timer unit and to the circulator terminals (as shown in **FIG.2**).
   Note: Lead Wiring Specification - Minimum, 6" (152 mm) long, 14 AWG, rated minimum 140°F (60°C). Provided with R/C crimp connectors for attachment to the ground.
5. Place the timer box cover (5) using the 2 mounting screws (4). Insure that all lead wires are inside the timer assembly.
6. Program the timer according to instructions provided on page 6.
7. Connect the unit to electrical supply.
8. Start the circulator.

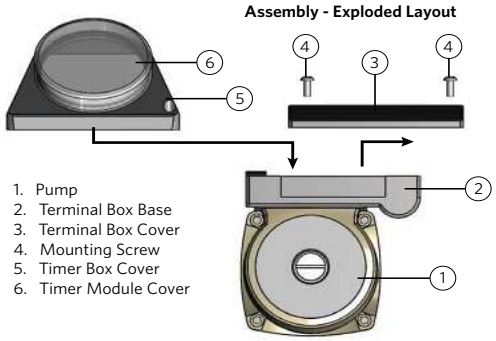


FIG. 1 Astro 2 Series circulator and 24-Hour Timer assembly drawing

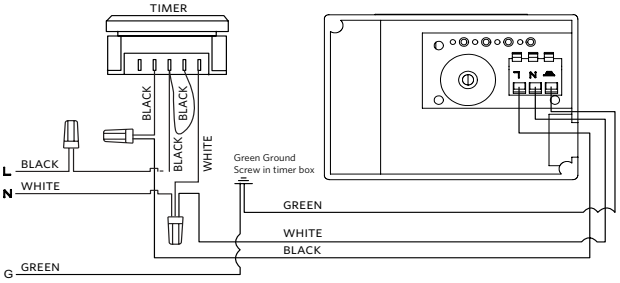


FIG. 2 Astro 2 Series circulator and 24-Hour Timer wiring diagram

6.0 AQUASTAT CONTROL ACCESSORY

TECHNICAL DATA	
Description	Aquastat (thermostatic) switch
Type	Surface sensing, snap acting bimetallic disc
Enclosure	Environmentally sealed
Switch modes*	105 ± 5°F (40 ± 2°C) pump switches OFF 85 ± 6°F (29 ± 3°C) pump switches ON
Contact position	Normally open
Mounting	**½":** Clip-on type for ⅝" O.D. system piping size (i.e., ½" I.D. copper tubing or ⅜" steel pipe) **¾":** Clip-on type for ⅞" O.D. system piping size (i.e., ¾" I.D. copper tubing or ½" steel pipe) May be mounted on either the inlet or outlet piping of the circulator.
Lead length	14" (356 mm)

*Temperatures indicated are at pipe surface

7.0 AQUASTAT INSTALLATION

1. Follow Steps 1, 2 and 3 in the Timer Installation section
2. The aquastat control is a surface temperature sensing device that must be in contact with the system piping to operate properly. Separate models include clip-on mounts for ¾" (⅞" O.D.) and ½" (⅝" O.D.) copper tubing. (See **FIG. 3**)
3. Connect the black, green and white lead wires according to the wiring diagram (**FIG. 4**)
   Note: Lead Wiring Specification - Minimum, 6" (152 mm) long, 14 AWG, rated minimum 140°F (60°C). Provided with R/C crimp connectors for attachment to the ground.
4. Close the terminal box cover and fasten the screw

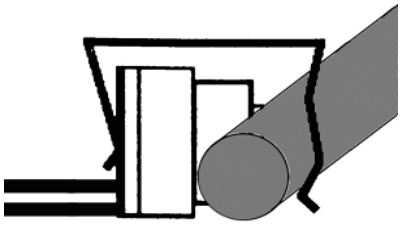


FIG. 3

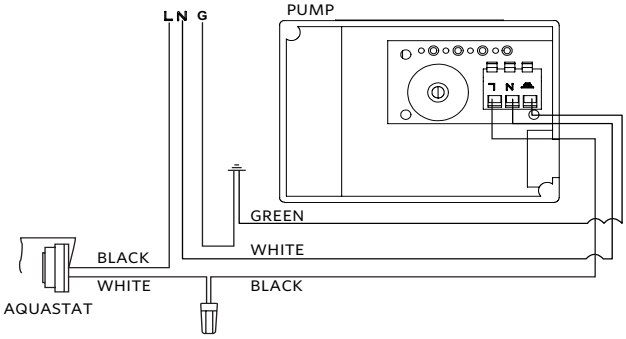


FIG. 4 Astro 2 Series circulator with Aquastat Control wiring diagram

8.0 TIMER AND AQUASTAT INSTALLATION

Follow the installation steps in both the Timer and Aquastat installation instructions and refer to Fig. 5 for the wiring connections.

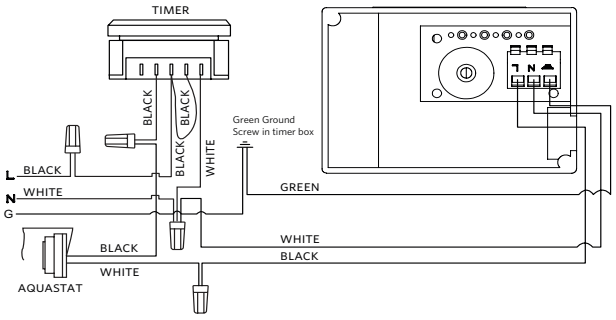


FIG. 5 Astro 2 Series circulator with 24-Hour Timer and Aquastat Control wiring diagram

9.0 TIMER PROGRAMMING WITH MANUAL OVERRIDE SWITCH

Automatic Mode

In order to operate the time switch in the automatic mode, the manual switch must be in the center position. (See **FIG. 6**)

Manual Mode

With the manual switch selector lever the selected programs can be overridden. In the lower position, marked "**O**", terminals 3 and 5 are permanently closed. In the upper position, marked "**I**", terminals 3 and 4 are permanently closed. (See **FIG. 6**)

OVERRIDE MODE

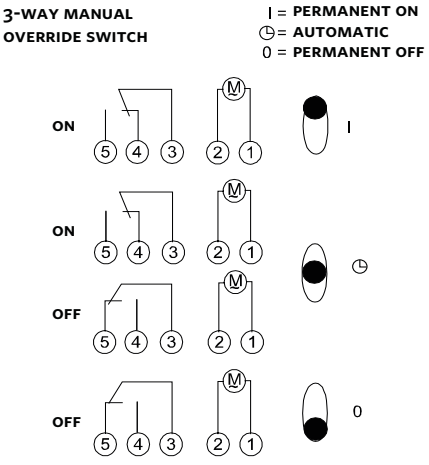
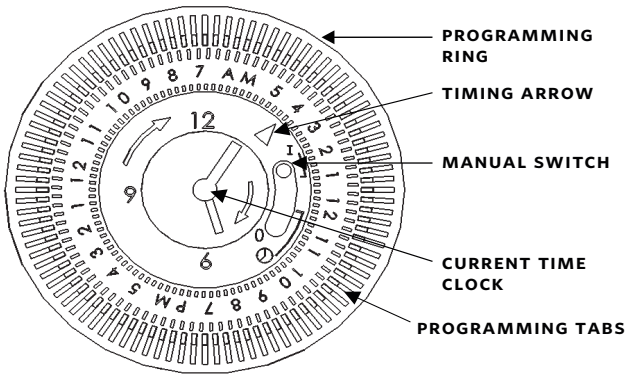


FIG. 6

4

TIMER PROGRAMMING

1. Set the current time by turning the programming ring clockwise until the timing arrow points to the current time of day.
2. Restore power to the circulator and set the manual switch on the timer dial to the "**ON**" position ("**I**").
3. Set the required "**ON/OFF**" times by pushing the programming tabs to the outer position for "**ON**" time intervals. For "**OFF**" ("**O**") operation keep the programming tabs in the inner position.
4. Set the manual switch to the center position, between the "**I**" and "**O**" on the timer dial in order to cycle the pump according to the programming tab settings. The pump will run continuously when the switch is set to "**I**" (**ON**) position. The "**O**" (**OFF**) position of the switch will shut the circulator off at all times.
5. In the event of power outage, the timer must be adjusted for the correct time of day after power is restored.
   Note: The 24-hour timer requires manual resetting for daylight savings time.



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2.16 HIGHLANDS BUILDING ROGERS

Datasheets

ET-1

ES-PLT

Engineering Specification

Job Name _____ Contractor _____

Job Location _____ Approval _____

Engineer _____ Contractor's P.O. No. _____

Approval _____ Representative _____

LEAD FREE*

Series PLT

Potable Water Expansion Tanks

Series PLT Potable Water Expansion Tanks are designed to absorb the increased volume of water created by thermal expansion and to maintain balanced pressure throughout the potable water supply system.

Heated water expands, and in a domestic hot water system, the system may be closed when the potable water system is isolated from the public water supply by a one-way valve such as pressure reducing valve, backflow preventer or check valve. Provisions must be made for this expansion.

Series PLT expansion tanks absorb the increased volume of water created when the hot water storage tank is heated and keeps the system pressure below the relief setting of the T&P relief valve.

It is a pre-pressurized steel tank with an expansion membrane that prevents contact of the water with the air in the tank. This prevents loss of air to the water and insures long and trouble-free life for the system. These tanks may be used with all types of Direct Fired Hot Water Heaters (gas, oil or electric) and hot water storage tanks.

Features

- Rugged flexible butyl diaphragm
- Field adjustable pre-charge
- In-line and free standing models
- Can be used with most standard hot water heaters and storage tanks

Models

PLT-5-M1	¾" male connection, tank volume 2.1 gal.
PLT-12-M1	¾" male connection, tank volume 4.5 gal.
PLT-20-M1	¾" male connection, tank volume 8.5 gal.
PLT-35-M1	1" female connection, tank volume 14.00 gal.

Specifications

The potable water expansion tank shall be of drawn steel construction. It shall have a Butyl diaphragm separating the air chamber from the water containing chamber. Inlet connector shall be Stainless Steel. Materials of manufacture for the diaphragm shall be FDA approved.

The potable water expansion tank shall be a Watts Model PLT.



Standards

Models PLT-5, PLT-12 and PLT-20
are Listed by IAPMO.
Certified to ANSI/NSF 61
Model PLT-35
Certified to ANSI/NSF 61

(73°F/23°C)

Note: The potable water expansion tank shall be installed in the cold water service pipe line on the supply side of the water heater (or water storage tank). A pressure relief valve sized and installed in accordance with local codes must be incorporated in the system.
In those systems requiring a combined temperature and pressure safety relief valve, the temperature and pressure relief valve should be sized and installed in accordance with local codes. Adequate drainage provisions should be provided where water flow will cause damage.

See chart on back

NOTICE

The information contained herein is not intended to replace the full product installation and safety information available or the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation of this product.

NOTICE

Inquire with governing authorities for local installation requirements

***The wetted surface of this product contacted by consumable water contains less than 0.25% of lead by weight.**

Watts product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Watts Technical Service. Watts reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on Watts products previously or subsequently sold.

Selection

This Quick Reference Selection Guide may be used as an alternative to using a formula to determine the correct expansion tank for the system. This table is based upon a relief valve setting of 150psi (10.3 bar), and a maximum of 50°F temperature rise.

To select the correct model PLT series tank, simply go the supply pressure equal to the system supply pressure (for pressures between those shown use next highest supply pressure shown), read across the chart to the correct tank as indicated by the water heater capacity (for capacities between those shown, use next highest capacity).

To accommodate the thermal expansion required for higher temperature and/or higher pressure systems, multiple tanks may be used. Please contact the factory for sizing information.

Materials

Diaphragm: Butyl rubber
Inlet Connection: Stainless Steel

Technical Information

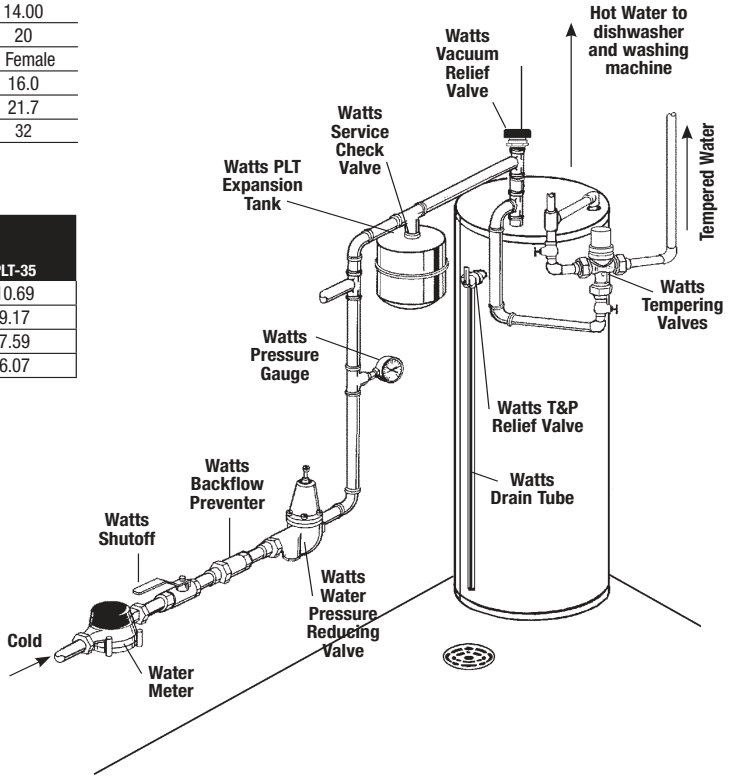
DESCRIPTION	PLT-5	PLT-12	PLT-20	PLT-35
Max. Pressure - PSI	150	150	150	150
Max. Temp. - °F	200	200	200	200
Tank Volume - Gal.	2.1	4.5	8.5	14.00
Air Pre-charge - PSI	20	20	20	20
Connections Size - Inches	¾ Male	¾ Male	¾ Male	1 Female
Diameter - Inches	8	10.5	12.5	16.0
Length - Inches	11	13.5	19.2	21.7
Weight - Lbs.	5.5	10	15	32

Acceptance Volume

AIR SIDE PRE-PRESSURE (PSI)	WATER SIDE VOLUME AT 150PSI (GALLONS) PLT-5	PLT-12	PLT-20	PLT-35
20	1.48	3.42	7.102	10.69
40	1.26	2.88	5.882	9.17
60	1.0	2.49	4.705	7.59
80	.8	1.85	4.009	6.07

SUPPLY PRESSURE (PSIG)	WATER HEATER (GALLONS) 20	30	40	50	80	100	120
40							
50							
55							
60							
70							
80							
90							
100							
110							
120							

PLT-5 PLT-20
PLT-12 PLT-35
Multiple tanks required - consult factory



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Canada: T: (888) 208-8927 • F: (905) 332-7068 • Watts.ca
Latin America: T: (52) 55-4122-0138 • Watts.com

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2.16 HIGHLANDS BUILDING ROGERS

Datasheets

ET-2

ES-PLT

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(73°F/23°C)

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Technical Information

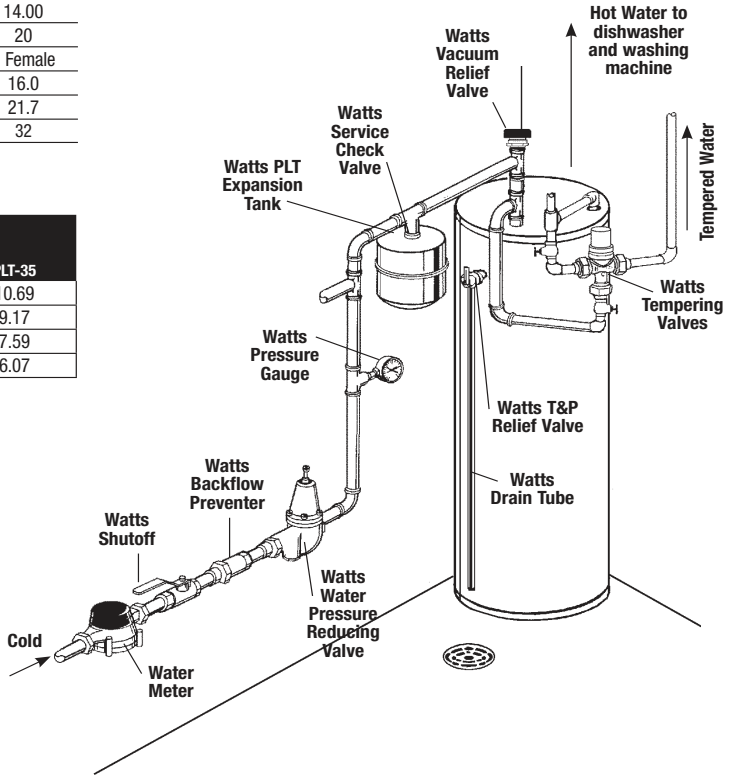
DESCRIPTION	PLT-5	PLT-12	PLT-20	PLT-35
Max. Pressure - PSI	150	150	150	150
Max. Temp. - °F	200	200	200	200
Tank Volume - Gal.	2.1	4.5	8.5	14.00
Air Pre-charge - PSI	20	20	20	20
Connections Size - Inches	¾ Male	¾ Male	¾ Male	1 Female
Diameter - Inches	8	10.5	12.5	16.0
Length - Inches	11	13.5	19.2	21.7
Weight - Lbs.	5.5	10	15	32

Acceptance Volume

AIR SIDE PRE-PRESSURE (PSI)	WATER SIDE VOLUME AT 150PSI (GALLONS) PLT-5	PLT-12	PLT-20	PLT-35
20	1.48	3.42	7.102	10.69
40	1.26	2.88	5.882	9.17
60	1.0	2.49	4.705	7.59
80	.8	1.85	4.009	6.07

SUPPLY PRESSURE (PSIG)	WATER HEATER (GALLONS) 20	30	40	50	80	100	120
40							
50							
55							
60							
70							
80							
90							
100							
110							
120							

PLT-5 PLT-20
PLT-12 PLT-35
Multiple tanks required - consult factory



USA: T: (978) 689-6066 • F: (978) 975-8350 • Watts.com
Canada: T: (888) 208-8927 • F: (905) 332-7068 • Watts.ca
Latin America: T: (52) 55-4122-0138 • Watts.com

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2.16 HIGHLANDS BUILDING ROGERS

Datasheets

SP-1

ELV-SERIES

Elevator Sump Pump Systems with OilTector® Control

Liberty Pumps®
A Family and Employee Owned Company

Ideal for elevators, garages and areas where the discharge of oil/ hydrocarbons into the environment is prohibited. Compliant with ASME A17.1.

Features

- Complete packaged system
- 1/3, 1/2 or 3/4 hp Sump pump
- 1-1/2" Discharge
- OilTector® control
- Remote alarm
- 115 or 230V Pump models
- Easy clamp-mount installation, with plug-in ready wiring



Control Panel



Remote Alarm



Sensor Module



Level Sensor

3 Year Warranty

POWDER COATED TOUGH

The OilTector® control system is designed and approved for safe operation of pumping, alarming and monitoring of elevator sump pits, transformer vaults and other applications where oil and water must be detected. The OilTector® system will activate the pump to remove water from elevator pits in accordance with ASME A17.1, and will provide pumping of only water - even if an oil condition is detected. The OilTector® cycles the pump only in the water range. Oil and other harmful substances are not discharged into the environment. An alarm is activated in the event of a high water condition or high oil condition.

SSPMA CERTIFIED Pumps

c UL us LISTED CONTROLS

c SP us Pumps

innovate. evolve.

ELV-Series System with OilTector® Control

Advanced Control Panel



Control Panel Features

- Oil resistant SJEOOW cord, 25' standard length (6' and 50' lengths available)
- Easy clamp mounted pre-set level sensor holder
- No field adjustments required. OilTector® will turn pumps ON and OFF, sound the high water alarm, and high oil alarm with one easy installation
- See-through door, separate pump and control circuits - NEMA 4X enclosure.
- Height 10.0" x width 7.5" x depth 5.5"
- Plug-in ready pump cord and control panel cord for quick and easy installation
- Remote alarm with auxiliary contacts for connection to building automation or SCADA system, 24-Volt AC/DC, 500 mA max switching
- Power ON, Pump Run, High water and High oil lights
- ASME A17.1 compliant

A Power Indicator Light
When lit, indicates there is power

B High Water Alarm
When lit, indicates that there is a potential pump problem

C High Oil Alarm
When lit, indicates that there is a large amount of oil in the system and needs to be investigated

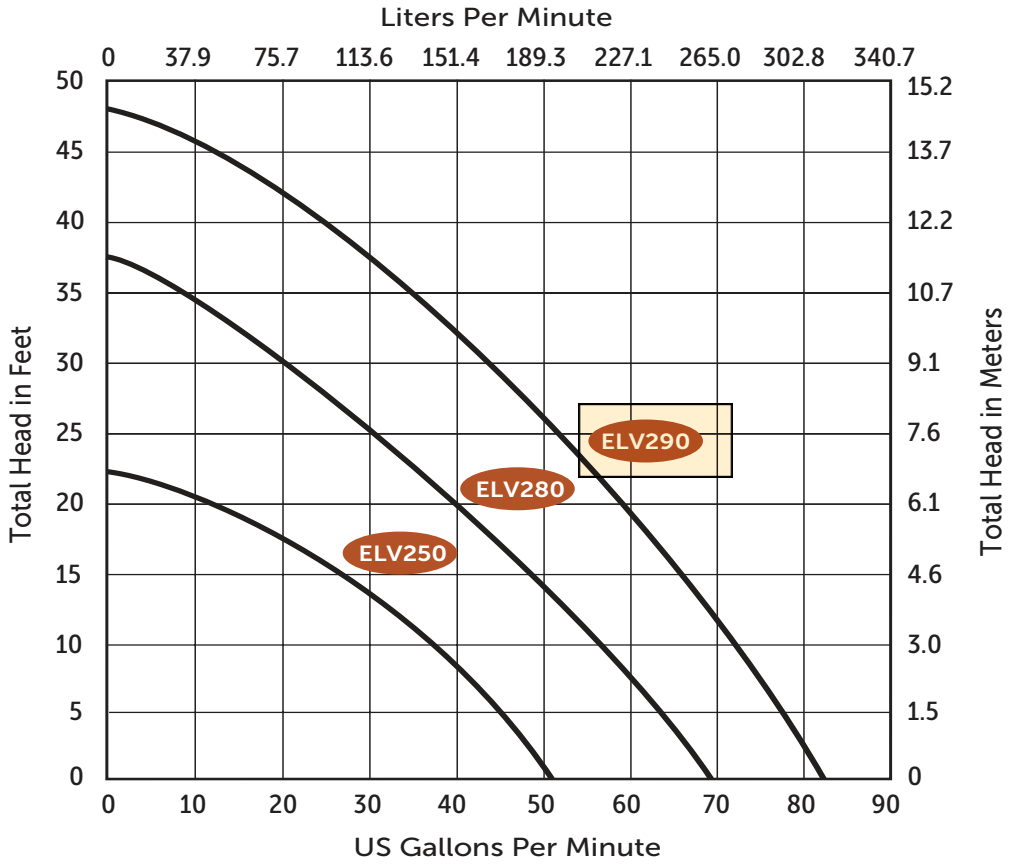
D Pump Run Light
When lit, indicates pump is running

Operation

On water rise, the pump will activate when the water level reaches the "pump on" probe. Pump will remain on until the water level is below the "pump off" probe. When the "pump off" probe no longer senses water it turns the pump off, air and/or oil are ignored and an oil layer (if present) will not be pumped out of the sump. If the liquid level reaches the "alarm" probe and mechanical float, the system will differentiate between water and oil and activate the appropriate alarm.

Performance Curve

60 Hz, 3450 RPM



Pump Options



250-Series
60 Hz



280-Series
60 Hz



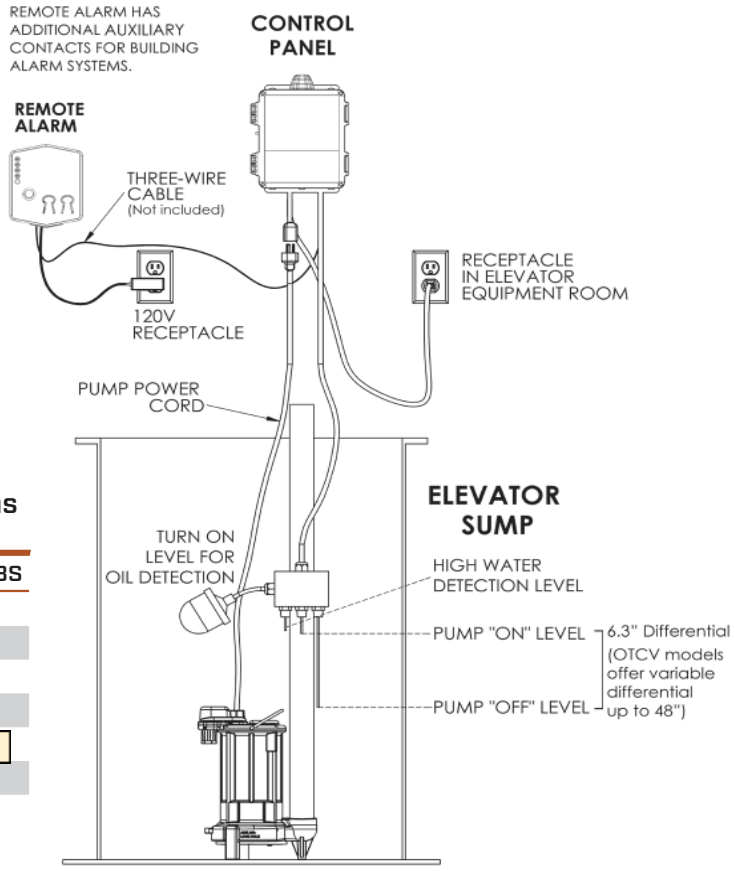
290-Series
60 Hz

ELV-Series System with OilTector® Control

Pump Only Models

MODEL	HP	VOLTS	WEIGHT IN LBS
EV250	1/3	115	24
EV250HV	1/3	230	24
EV280	1/2	115	30
EV280HV	1/2	230	30
EV290	3/4	115	32
EV290HV	3/4	230	32

Above models supplied with standard 25' pump power cord.
For 6' or 50' pump power cords add -06 or -5 respectively.
Example: ELV290-06 for 6' pump power cord.



ELV-Series Complete Sump Pump Systems
(Pump, OilTector® Control, Alarm)

MODEL	HP	VOLTS	WEIGHT IN LBS
ELV250	1/3	115	34
ELV250HV	1/3	230	34
ELV280	1/2	115	40
ELV280HV	1/2	230	40
ELV290	3/4	115	42
ELV290HV	3/4	230	42

OilTector® Control & Alarm Only

MODEL	MAX HP	VOLTS	MAX AMP	CORD LENGTH	WEIGHT IN LBS	DIFFERENTIAL
OTC-115	1	115	15	25'	11	6.3"
OTC-230	2	230	15	25'	11	6.3"
OTC-115-5	1	115	15	50'	12	6.3"
OTC-230-5	2	230	15	50'	12	6.3"
OTCV-115	1	115	15	50'	13	Up to 48"
OTCV-230	2	230	15	50'	13	Up to 48"

Optional 3-Phase OilTector® Controls

MODEL	VOLTS	MAX AMP	CORD LENGTH	WEIGHT IN LBS	DIFFERENTIAL
OTC-34-141	208/230/460	2.5-4	25'	13	6.3"
OTC-34-171	208/230/460	4-6	25'	13	6.3"
OTC-34-191	208/230/460	6-10	25'	13	6.3"
OTC-34-511	208/230/460	9-14	25'	13	6.3"

Consult factory for available 3-phase options.

Specifications subject to change without notice.
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Liberty Pumps - 7000 Apple Tree Avenue - Bergen, New York 14416
Phone 800-543-2550 - Fax 585-494-1839 - LibertyPumps.com

STANDARD CHECK VALVES

Liberty Pumps®
A Family and Employee Owned Company

Economy Check Valves



CV2N1 1-1/4" and 1-1/2" combo

CV150 1-1/2"

CV200 2"

- ABS valve body
- Rubber slip connect with hose clamps
- Vertical or horizontal installation
- 15 PSI rated at 104°F for CV2N1 and CV150
- 25 PSI rated at 140°F for CV200

Thread X Barb Fit



CV150-125T 1-1/2" MPT x 1-1/4" Barb

CV150-150T 1-1/2" MPT x 1-1/2" Barb

- PVC construction
- Thread directly into 1-1/2" sump pump discharge
- 30 PSI rated at 104°F

Cast Iron High-temperature 200°F



HCV150/200



HCV300

HCV150 1-1/2"

HCV200 2"

HCV300 3"

- Heavy-duty cast iron body
- Full flow
- High-temperature rubber flapper - 200°F
- 125 PSI rated
- Vertical or horizontal installation
- Female NPT connections

Ball/Check/Union Combination



BCV150 1-1/2"

BCV200 2"

- Ball/check combo provides compact design
- Heavy-duty PVC
- 150 PSI rated at 72°F
- 30 PSI rated at 140°F
- Vertical or horizontal installation
- Features union for easy disassembly
- Socket weld connections

Heavy-Duty Compression Fit





CV2N1C 1-1/4" and 1-1/2" combo

CV200C 2"

CV300C 3"

- Heavy-duty PVC
- Vertical or horizontal installation
- 150 PSI rated at 72°F for CV2N1C and CV200C
- 30 PSI rated at 140°F for CV2N1C and CV200C
- 125 PSI rated at 72°F for CV300C
- 25 PSI rated at 140°F for CV300C

Specifications subject to change without notice.

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Phone 800-543-2550 - Fax 585-494-1839 - www.LibertyPumps.com



2.16 HIGHLANDS BUILDING ROGERS

Datasheets

EWH-1

COMMERCIAL WATER HEATERS

Available in point-of-use, tall and short models, Lochinvar's commercial electric water heaters offer a wide range of capacities and a choice of voltages. This flexibility—combined with their Energy Saver design and durable construction—makes them ideal for many low-draw commercial and industrial applications.

LIGHT DUTY
ELECTRIC MODELS

STANDARD FEATURES

NON-SIMULTANEOUS OR SIMULTANEOUS WIRING - 30, 40 and 50 gallon models are factory wired for non-simultaneous operation, standard. 65, 80 and 120 gallon models are factory wired for simultaneous operation, standard. All Non-SIM and SIM models can be field converted.

GLASS–LINED STEEL TANK - The durable glass lining is fused to the tank at 1,600°F to assure lasting protection against rust and corrosion while providing clean, clear hot water. 300 psi test pressure; 150 psi working pressure.

NON-CFC FOAM INSULATION - A uniform coverage of thick closed-cell foam insulation minimizes standby losses and maximizes heat retention.

ADJUSTABLE THERMOSTATS - This accurate control provides an easy way to reset water temperature for best economy.

AUTOMATIC OVERHEAT PROTECTION - Provides automatic overheat safety control with manual reset high limit feature.

TANK SAVER ANODE - A large diameter, high capacity anode inhibits corrosion of the tank interior for long, trouble-free service.

SINGLE OR THREE PHASE WIRING - Wired for 3-phase operation standard. Field adjustable to 1-phase.

ASME TEMPERATURE & PRESSURE RELIEF VALVE - Factory installed for safety.

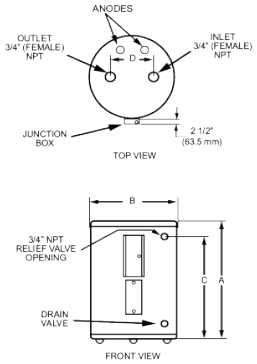
3-YEAR LIMITED TANK WARRANTY, 1-YEAR LIMITED PARTS WARRANTY – See warranty for details.



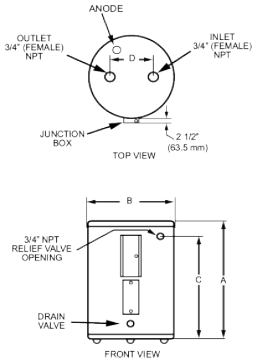
Lochinvar®
HIGH EFFICIENCY BOILERS & WATER HEATERS

DIMENSIONS & SPECIFICATIONS

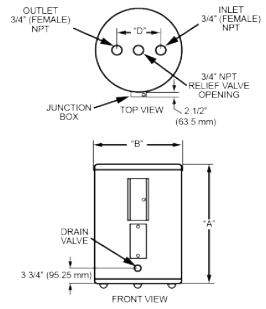
LDS-30 XK - LDS-50 XK



LDT-30 XK - LDT-50 XK



LDT-65 XR - LDT-120 XR

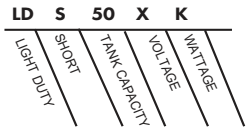


LDS & LDT Models		
T	208V	1 or 3 PH
P	240V	1 or 3 PH
W	277V	1 PH
X	480V	3 PH

Wattage Limits w/ Simultaneous Operation
208V - 10,000W (5,000W/5,000W)
240V - 10,000W (5,000W/5,000W)
277V - 12,200W (6,100W/6,100W)
480V - 12,200W (6,100W/6,100W)

Wattage Limits applicable to 30, 40 & 50 gal Short and 30, 40 & 50 gal Tall.

FOR EASE IN ORDERING BY MODEL NUMBER



This is a Short Commercial Electric 480 volt model with a tank capacity of 50 gallons. The upper and lower elements are 4500 watts.

LIGHT DUTY COMMERCIAL MODELS

Model Number	Nominal Cap.	Rated Cap.	UEF	A	B	C	D	Ship Wt.
Short Models / Dual Elements, Multiple Element Wattages, Non-Simultaneous								
LDS-30 XK	36	33	0.92	32"	24"	24"	8"	118
LDS-40 XK	38	35	0.92	32"	23"	24"	8"	118
LDS-50 XK	51	48	0.92	36"	26-1/2"	25"	8"	172
Tall Models / Dual Elements, Multiple Element Wattages, Non-Simultaneous								
LDT-30 XK	40	37	0.92	49-3/4"	20-1/2"	53-1/4"	8"	118
LDT-40 XK	50	46	0.92	59"	20-1/2"	51-1/4"	8"	125
LDT-50 XK	55	55	0.92	56-1/2"	24"	48-1/2"	8"	145
Tall Models / Dual Elements, 6100 Watt Elements Only, Simultaneous								
LDT-65 XR	66	60	N/A	60-3/4"	21-3/4"	-	8"	176
LDT-80 XR	80	76	N/A	59-3/8	24"	-	8"	211
LDT-120 XR	120	108	N/A	62-7/16"	29-3/8"	-	8"	326

***Notes**:Water connections 3/4" NPT on all models. Short and Tall models are factory wired for three phase service and are field converted to single phase.*

Models		T - 208V/ 1 or 3PH	P - 240V/ 1 or 3PH	W - 277V/ 1PH	X - 480V/ 3PH
LDS-30	Min Wattage	4500	4500	4500	4500
	Max Wattage	6000*	6000*	6000	6000
LDS-40	Min Wattage	4500	4500	4500	4500
	Max Wattage	6000*	6000*	6000	6000
LDS-50	Min Wattage	4000	4000	4000	4000
	Max Wattage	6000*	6000*	6000	6000
LDT-30	Min Wattage	4500	4500	4500	4500
	Max Wattage	6000*	6000*	6000	6000
LDT-40	Min Wattage	3000	3000	3000	3000
	Max Wattage	6000*	6000*	6000	6000
LDT-50	Min Wattage	2500	2500	2500	2500
	Max Wattage	6000*	6000*	6000	6000
LDT-65 to LDT-120	Single Wattage/ Simultaneous	N/A	6100	6100	6100

See "Element Availability Schedule" for letter codes and available voltage/wattage combinations. ** Simultaneous operation is not available for 6000 watt models.*

Element Availability Schedule Wattage	120V**	208V**	240V	277V	480V
Non-Simultaneous					
F-2500	Yes	Yes	Yes	Yes	Yes
G-3000	Yes	Yes	Yes	Yes	Yes
H-3500	N/A	Yes	Yes	N/A	N/A
J-4000	N/A	Yes	Yes	Yes	Yes
K-4500	N/A	Yes	Yes	Yes	Yes
M-5000	N/A	Yes	Yes	Yes	Yes
N-5500	N/A	Yes*	Yes*	N/A	N/A
P-6000	N/A	Yes*	Yes*	Yes	Yes
Simultaneous					
R-6100	N/A	N/A	Yes	Yes	Yes

* Simultaneous operation is not available for 5500 & 6000 watt models.

***Notes**:Max Wattage for EJ-006 is 3000W*
** Indicates Not Available for EJ-010 and EJ-015*
***LDT-65, 80 &120 not available in 120 & 208V*

Recovery Rate (GPH @ °F) Element	Wattage	40°F	60°F	80°F	100°F	120°F
Non-Simultaneous						
F	2500	26	17	13	10	8
G	3000	30	20	15	12	10
H	3500	36	34	18	14	12
J	4000	41	27	20	16	14
K	4500	46	30	23	18	15
M	5000	51	34	25	20	17
N	5500	56	38	28	22	19
P	6000	61	41	30	24	20
Simultaneous						
R-6100	12200	124	82	62	49	41

For technical information call 800-722-2101. Lochinvar, LLC reserves the right to make product changes or improvements without prior notice.

Lochinvar®
Lochinvar, LLC
300 Maddox Simpson Parkway
Lebanon, Tennessee 37090
P: 615.889.8900 / F: 615.547.1000
Lochinvar.com

CLD-09 (Replaces CLD-08 8/22)
(Website Update 7/24) 9/22 - Printed in USA

Date/Rev: 10-03-23 / Rev H / Sht 1 of 1

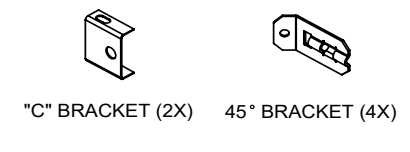
Product Submittal	
Name	
Date	
Architect/Owner	
Contractor	
Tag	
Notes	

HoldRite QUICK STAND™ #50-SWHP-W Wall Mounted Equipment Platform Product Specification Drawing

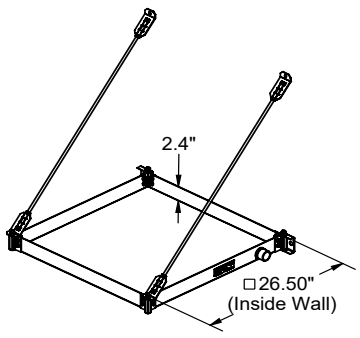
The #50-SWHP-W Wall Mounted Equipment Platform is engineered to support water heaters up to 50 U.S. gallons (or other equipment up to 600 pounds total weight) mounted to a wall. This item also serves as a drain pan. See Installation Instructions for detail. See Installation Instructions for detail.

Product Information:

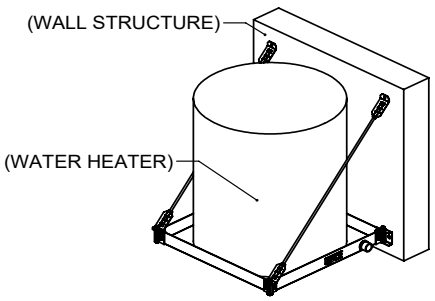
- Material:
  Pan: 12 gage CRS, galvanized
  Corner Brackets (4): 14 gage CRS, galvanized
  C-Brackets (2): 16 gage CRS, galvanized
  45˚ Brackets (4): 12 gage, CRS, galvanized
  Threaded Rod (2): Low carbon steel, zinc plated, 3/8" x 37.10" long
- Wide platform allows water heaters up to 26-1/2" diameter
- Watertight corners and drain fittings eliminate need for additional drain pan
- Static load rating 600 pounds with 2X safety factor (depending on structural anchorage)
- Professional Engineer reviewed documentation available
- Includes PVC drain body 1" MIPT x 1" FS
- Galvanized steel construction
- Suspends with user supplied 3/8" hardware to mount to wall, 4 places
- Installation instructions for mounting to concrete or framed wall structure available



DRAIN BODY ASSEMBLY



PAN ASSEMBLY



FULLY ASSEMBLED

US Contact: 1.877.700.4242 • sales@holdrite.com • holdrite.com
Canadian Contact 1.888.820.0120 • canadasales@rwc.com • holdrite.com

AN RWC BRAND



2.16 HIGHLANDS BUILDING ROGERS

Datasheets

EWH-2

COMMERCIAL WATER HEATERS

Available in point-of-use, tall and short models, Lochinvar's commercial electric water heaters offer a wide range of capacities and a choice of voltages. This flexibility—combined with their Energy Saver design and durable construction—makes them ideal for many low-draw commercial and industrial applications.

LIGHT DUTY
ELECTRIC MODELS

STANDARD FEATURES

NON-SIMULTANEOUS OR SIMULTANEOUS WIRING - 30, 40 and 50 gallon models are factory wired for non-simultaneous operation, standard. 65, 80 and 120 gallon models are factory wired for simultaneous operation, standard. All Non-SIM and SIM models can be field converted.

GLASS–LINED STEEL TANK - The durable glass lining is fused to the tank at 1,600°F to assure lasting protection against rust and corrosion while providing clean, clear hot water. 300 psi test pressure; 150 psi working pressure.

NON-CFC FOAM INSULATION - A uniform coverage of thick closed-cell foam insulation minimizes standby losses and maximizes heat retention.

ADJUSTABLE THERMOSTATS - This accurate control provides an easy way to reset water temperature for best economy.

AUTOMATIC OVERHEAT PROTECTION - Provides automatic overheat safety control with manual reset high limit feature.

TANK SAVER ANODE - A large diameter, high capacity anode inhibits corrosion of the tank interior for long, trouble-free service.

SINGLE OR THREE PHASE WIRING - Wired for 3-phase operation standard. Field adjustable to 1-phase.

ASME TEMPERATURE & PRESSURE RELIEF VALVE - Factory installed for safety.

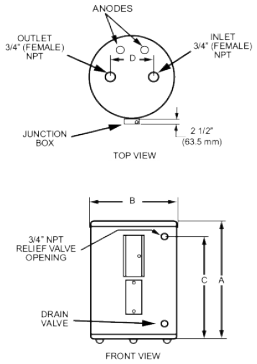
3-YEAR LIMITED TANK WARRANTY, 1-YEAR LIMITED PARTS WARRANTY – See warranty for details.



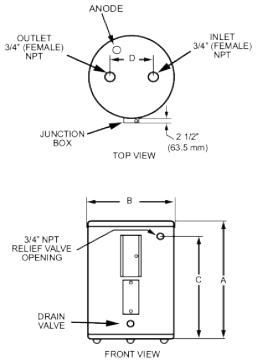
Lochinvar®
HIGH EFFICIENCY BOILERS & WATER HEATERS

DIMENSIONS & SPECIFICATIONS

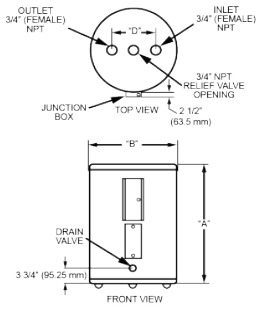
LDS-30 XK - LDS-50 XK



LDT-30 XK - LDT-50 XK



LDT-65 XR - LDT-120 XR

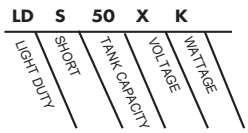


LDS & LDT Models		
T	208V	1 or 3 PH
P	240V	1 or 3 PH
W	277V	1 PH
X	480V	3 PH

Wattage Limits w/ Simultaneous Operation
208V - 10,000W (5,000W/5,000W)
240V - 10,000W (5,000W/5,000W)
277V - 12,200W (6,100W/6,100W)
480V - 12,200W (6,100W/6,100W)

Wattage Limits applicable to 30, 40 & 50 gal Short and 30, 40 & 50 gal Tall.

FOR EASE IN ORDERING BY MODEL NUMBER



This is a Short Commercial Electric 480 volt model with a tank capacity of 50 gallons. The upper and lower elements are 4500 watts.

LIGHT DUTY COMMERCIAL MODELS

Model Number	Nominal Cap.	Rated Cap.	UEF	A	B	C	D	Ship Wt.
Short Models / Dual Elements, Multiple Element Wattages, Non-Simultaneous								
LDS-30 XK	36	33	0.92	32"	24"	24"	8"	118
LDS-40 XK	38	35	0.92	32"	23"	24"	8"	118
LDS-50 XK	51	48	0.92	36"	26-1/2"	25"	8"	172
Tall Models / Dual Elements, Multiple Element Wattages, Non-Simultaneous								
LDT-30 XK	40	37	0.92	49-3/4"	20-1/2"	53-1/4"	8"	118
LDT-40 XK	50	46	0.92	59"	20-1/2"	51-1/4"	8"	125
LDT-50 XK	55	55	0.92	56-1/2"	24"	48-1/2"	8"	145
Tall Models / Dual Elements, 6100 Watt Elements Only, Simultaneous								
LDT-65 XR	66	60	N/A	60-3/4"	21-3/4"	-	8"	176
LDT-80 XR	80	76	N/A	59-3/8	24"	-	8"	211
LDT-120 XR	120	108	N/A	62-7/16"	29-3/8"	-	8"	326

***Notes**:Water connections 3/4" NPT on all models. Short and Tall models are factory wired for three phase service and are field converted to single phase.*

Models		T - 208V/ 1 or 3PH	P - 240V/ 1 or 3PH	W - 277V/ 1PH	X - 480V/ 3PH
LDS-30	Min Wattage	4500	4500	4500	4500
	Max Wattage	6000*	6000*	6000	6000
LDS-40	Min Wattage	4500	4500	4500	4500
	Max Wattage	6000*	6000*	6000	6000
LDS-50	Min Wattage	4000	4000	4000	4000
	Max Wattage	6000*	6000*	6000	6000
LDT-30	Min Wattage	4500	4500	4500	4500
	Max Wattage	6000*	6000*	6000	6000
LDT-40	Min Wattage	3000	3000	3000	3000
	Max Wattage	6000*	6000*	6000	6000
LDT-50	Min Wattage	2500	2500	2500	2500
	Max Wattage	6000*	6000*	6000	6000
LDT-65 to LDT-120	Single Wattage/ Simultaneous	N/A	6100	6100	6100

See "Element Availability Schedule" for letter codes and available voltage/wattage combinations. ** Simultaneous operation is not available for 6000 watt models.*

Element Availability Schedule Wattage	120V**	208V**	240V	277V	480V
Non-Simultaneous					
F-2500	Yes	Yes	Yes	Yes	Yes
G-3000	Yes	Yes	Yes	Yes	Yes
H-3500	N/A	Yes	Yes	N/A	N/A
J-4000	N/A	Yes	Yes	Yes	Yes
K-4500	N/A	Yes	Yes	Yes	Yes
M-5000	N/A	Yes	Yes	Yes	Yes
N-5500	N/A	Yes*	Yes*	N/A	N/A
P-6000	N/A	Yes*	Yes*	Yes	Yes
Simultaneous					
R-6100	N/A	N/A	Yes	Yes	Yes

* Simultaneous operation is not available for 5500 & 6000 watt models.

***Notes**:Max Wattage for EJ-006 is 3000W*
** Indicates Not Available for EJ-010 and EJ-015*
***LDT-65, 80 &120 not available in 120 & 208V*

Recovery Rate (GPH @ °F) Element	Wattage	40°F	60°F	80°F	100°F	120°F
Non-Simultaneous						
F	2500	26	17	13	10	8
G	3000	30	20	15	12	10
H	3500	36	34	18	14	12
J	4000	41	27	20	16	14
K	4500	46	30	23	18	15
M	5000	51	34	25	20	17
N	5500	56	38	28	22	19
P	6000	61	41	30	24	20
Simultaneous						
R-6100	12200	124	82	62	49	41

For technical information call 800-722-2101. Lochinvar, LLC reserves the right to make product changes or improvements without prior notice.

Lochinvar®
Lochinvar, LLC
300 Maddox Simpson Parkway
Lebanon, Tennessee 37090
P: 615.889.8900 / F: 615.547.1000
Lochinvar.com

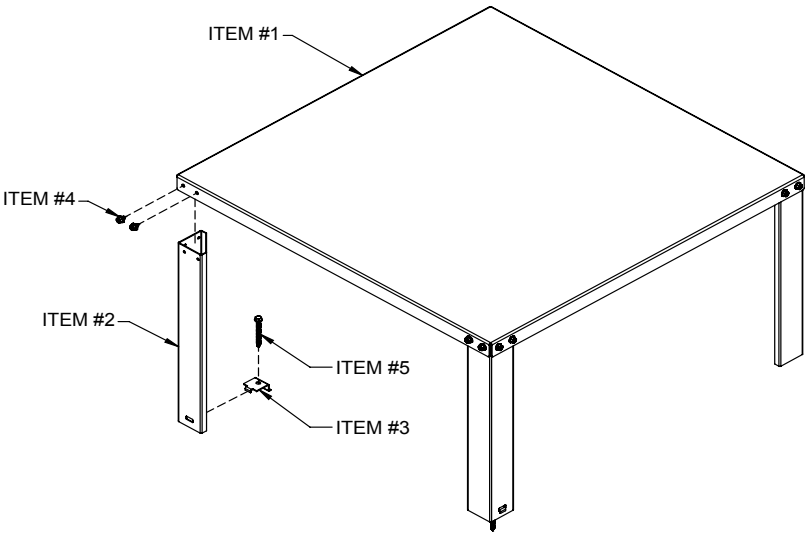
CLD-09 (Replaces CLD-08 8/22)

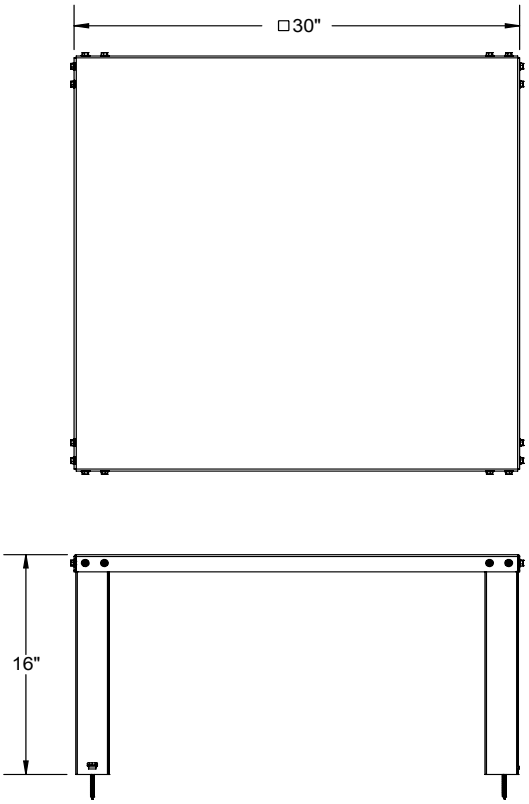
(Website Update 7/24) 9/22 - Printed in USA

Job Name :	2.16 HIGHLANDS BUILDING ROGERS
Manufacturer :	HOLDRITE
Model Number :	40-S-30-U

Type :

PRODUCT SPECIFICATION DRAWING
QUICKSTAND™ 30" X 30" (Water Heater & Equipment Support)
#40-S-30-A (assembled) and #40-S-30-U (unassembled)





ALL DIMENSIONS IN INCHES

The QUICKSTAND™ #40-S-30- (A or U) stand safely elevates water heaters and other equipment above the floor (1,350 lbs rating).

Product Information:

- Material:
  Item #1: Top, 12 gage CRS, galvanized
  Item #2: Leg, 16 gage CRS, galvanized, 4 places
  Item #3: Safety Clip, 14 gage CRS, galvanized, 2 places
  Item #4: SMS, Phillips Hex Head Washer, w/Serrated Under Head, #1/4-14 X 1/2"L, 16 places
  Item #5: Lag Bolt, #1/4-10 X 2-1/2"L, self-drilling, 2 places
  (items #3 and #5 included with product)
- Engineered and lab tested to meet Uniform Plumbing Code (UPC) and International Plumbing Code (IPC) requirements, including elevation of water heater's ignition source 18" above the floor
- Holds up to 1,350 pounds (typical 100 to 120 U.S. gallons)
- QUICKSTAND™ weight 36 pounds without packaging
- Available in assembled and unassembled configurations

Product Submittal	
Job Name:	
Date:	
Part Number:	Qty:
Architect / Owner:	
Contractor:	
Notes:	

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spec_40-S-30_RevE

ALUMINUM WATER HEATER PANS TECHNICAL SPECIFICATION

Job Name _____ Item # _____
Location _____
Engineer _____ Contractor _____
PO # _____ Tag _____
Representative _____

SPECIFICATIONS

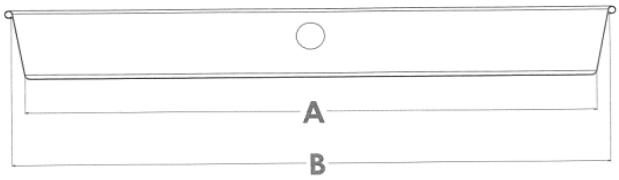
Oatey Aluminum Water Heater Pans can be installed under gas or electric water heaters to protect from water damage. Available with 1" CPVC, 1" PVC, 1.5" PVC (over 1" or inside 1.5" Schedule 40 PVC pipe), 1.5" PVC (over 1" or over 1.5" Schedule 40 PVC pipe) and without fitting or without fitting hole.



DESCRIPTION

All dimensions in inches

- Manufactured from 22 gauge Aluminum.
- Pre-cut side opening accommodates drain fitting.
- Meets requirements of Southern Building Code.
- Pan depth is minimum 2-1/2".



PRODUCT SELECTOR

WATER HEATER PANS WITH 1" CPVC FITTING (FITS OVER 1" CPVC PIPE)

✓	Product Number	Description	Qty	Inside Diameter (A)	Outside Diameter (B)
	34170	18" Aluminum Water Heater Pan – Bulk	6	18	19
	34171	20" Aluminum Water Heater Pan – Bulk	6	20	21
	34172	22" Aluminum Water Heater Pan – Bulk	6	22	23
	34173	24" Aluminum Water Heater Pan – Bulk	6	24	25
	34174	26" Aluminum Water Heater Pan – Bulk	6	26	27
	34176	28" Aluminum Water Heater Pan – Bulk	6	28	29
	34175	30" Aluminum Water Heater Pan – Bulk	6	30	31
	34193	32" Aluminum Water Heater Pan	6	32	33

Data is subject to manufacturing tolerances.

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LCS1303 10/20

ALUMINUM WATER HEATER PANS TECHNICAL SPECIFICATION

PRODUCT SELECTOR

✓	Product Number	Description	Qty	Inside Diameter (A)	Outside Diameter (B)
WATER HEATER PANS WITH 1" PVC FITTING (FITS OVER 1" AND INSIDE 1.5" SCHEDULE 40 PIPE)					
	34079	18" Aluminum Water Heater Pan – Bulk	6	18	19
	34151	20" Aluminum Water Heater Pan – Bulk	6	20	21
	34152	22" Aluminum Water Heater Pan – Bulk	6	22	23
	34153	24" Aluminum Water Heater Pan – Bulk	6	24	25
	34154	26" Aluminum Water Heater Pan – Bulk	6	26	27
	34156	28" Aluminum Water Heater Pan – Bulk	6	28	29
	34085	30" Aluminum Water Heater Pan – Bulk	6	30	31
	34191	32" Aluminum Water Heater Pan	6	32	33
WATER HEATER PANS WITH 1.5" PVC FITTING (FITS OVER 1" AND OVER 1.5" SCHEDULE 40 PIPE)					
	34081	20" Aluminum Water Heater Pan – Bulk	6	20	21
	34082	22" Aluminum Water Heater Pan – Bulk	6	22	23
	34083	24" Aluminum Water Heater Pan – Bulk	6	24	25
	34084	26" Aluminum Water Heater Pan – Bulk	6	26	27
	34103	28" Aluminum Water Heater Pan – Bulk	6	28	29
	34107	30" Aluminum Water Heater Pan	6	29	30
WATER HEATER PANS WITHOUT FITTING & WITHOUT HOLE					
	34090	18" Aluminum Water Heater Pan – Bulk	6	18	19
	34091	20" Aluminum Water Heater Pan – Bulk	6	20	21
	34092	22" Aluminum Water Heater Pan – Bulk	6	22	23
	34093	24" Aluminum Water Heater Pan – Bulk	6	24	25
	34094	26" Aluminum Water Heater Pan – Bulk	6	26	27
	34095	30" Aluminum Water Heater Pan – Bulk	6	30	31
WATER HEATER PAN ADAPTERS					
	34086	1" & 1-1/2" PVC Adapter (Fits over 1" and over 1.5" Schedule 40 pipe)	12		
	34088	1" & 1-1/2" PVC Adapter (Fits over 1" and inside 1.5" Schedule 40 pipe)	12		
	34089	1" CPVC Adapter (Fits over 1" CPVC pipe)	12		

Data is subject to manufacturing tolerances.

Access BIM/Revit content through www.oatey.com



2.16 HIGHLANDS BUILDING ROGERS

Datasheets

EWH-3

COMMERCIAL WATER HEATERS

Available in point-of-use, tall and short models, Lochinvar's commercial electric water heaters offer a wide range of capacities and a choice of voltages. This flexibility—combined with their Energy Saver design and durable construction—makes them ideal for many low-draw commercial and industrial applications.

LIGHT DUTY
ELECTRIC MODELS

STANDARD FEATURES

NON-SIMULTANEOUS OR SIMULTANEOUS WIRING - 30, 40 and 50 gallon models are factory wired for non-simultaneous operation, standard. 65, 80 and 120 gallon models are factory wired for simultaneous operation, standard. All Non-SIM and SIM models can be field converted.

GLASS–LINED STEEL TANK - The durable glass lining is fused to the tank at 1,600°F to assure lasting protection against rust and corrosion while providing clean, clear hot water. 300 psi test pressure; 150 psi working pressure.

NON-CFC FOAM INSULATION - A uniform coverage of thick closed-cell foam insulation minimizes standby losses and maximizes heat retention.

ADJUSTABLE THERMOSTATS - This accurate control provides an easy way to reset water temperature for best economy.

AUTOMATIC OVERHEAT PROTECTION - Provides automatic overheat safety control with manual reset high limit feature.

TANK SAVER ANODE - A large diameter, high capacity anode inhibits corrosion of the tank interior for long, trouble-free service.

SINGLE OR THREE PHASE WIRING - Wired for 3-phase operation standard. Field adjustable to 1-phase.

ASME TEMPERATURE & PRESSURE RELIEF VALVE - Factory installed for safety.

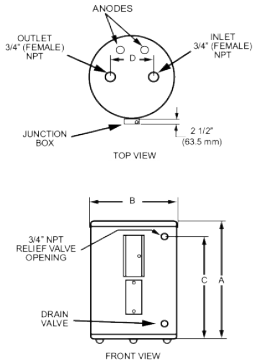
3-YEAR LIMITED TANK WARRANTY, 1-YEAR LIMITED PARTS WARRANTY – See warranty for details.



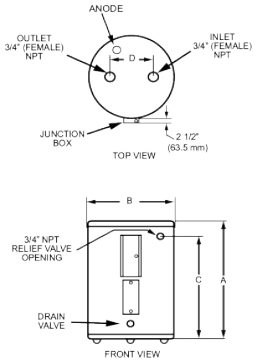
Lochinvar®
HIGH EFFICIENCY BOILERS & WATER HEATERS

DIMENSIONS & SPECIFICATIONS

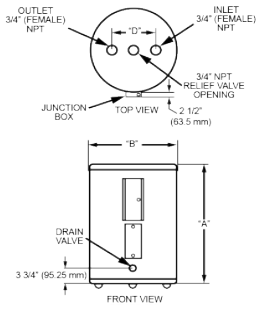
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LDT-30 XK - LDT-50 XK



LDT-65 XR - LDT-120 XR

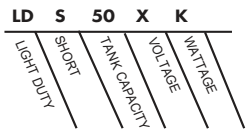


LDS & LDT Models		
T	208V	1 or 3 PH
P	240V	1 or 3 PH
W	277V	1 PH
X	480V	3 PH

Wattage Limits w/ Simultaneous Operation
208V - 10,000W (5,000W/5,000W)
240V - 10,000W (5,000W/5,000W)
277V - 12,200W (6,100W/6,100W)
480V - 12,200W (6,100W/6,100W)

Wattage Limits applicable to 30, 40 & 50 gal Short and 30, 40 & 50 gal Tall.

FOR EASE IN ORDERING BY MODEL NUMBER



This is a Short Commercial Electric 480 volt model with a tank capacity of 50 gallons. The upper and lower elements are 4500 watts.

LIGHT DUTY COMMERCIAL MODELS

Model Number	Nominal Cap.	Rated Cap.	UEF	A	B	C	D	Ship Wt.
Short Models / Dual Elements, Multiple Element Wattages, Non-Simultaneous								
LDS-30 XK	36	33	0.92	32"	24"	24"	8"	118
LDS-40 XK	38	35	0.92	32"	23"	24"	8"	118
LDS-50 XK	51	48	0.92	36"	26-1/2"	25"	8"	172
Tall Models / Dual Elements, Multiple Element Wattages, Non-Simultaneous								
LDT-30 XK	40	37	0.92	49-3/4"	20-1/2"	53-1/4"	8"	118
LDT-40 XK	50	46	0.92	59"	20-1/2"	51-1/4"	8"	125
LDT-50 XK	55	55	0.92	56-1/2"	24"	48-1/2"	8"	145
Tall Models / Dual Elements, 6100 Watt Elements Only, Simultaneous								
LDT-65 XR	66	60	N/A	60-3/4"	21-3/4"	-	8"	176
LDT-80 XR	80	76	N/A	59-3/8	24"	-	8"	211
LDT-120 XR	120	108	N/A	62-7/16"	29-3/8"	-	8"	326

***Notes**:Water connections 3/4" NPT on all models. Short and Tall models are factory wired for three phase service and are field converted to single phase.*

Models		T - 208V/ 1 or 3PH	P - 240V/ 1 or 3PH	W - 277V/ 1PH	X - 480V/ 3PH
LDS-30	Min Wattage	4500	4500	4500	4500
	Max Wattage	6000*	6000*	6000	6000
LDS-40	Min Wattage	4500	4500	4500	4500
	Max Wattage	6000*	6000*	6000	6000
LDS-50	Min Wattage	4000	4000	4000	4000
	Max Wattage	6000*	6000*	6000	6000
LDT-30	Min Wattage	4500	4500	4500	4500
	Max Wattage	6000*	6000*	6000	6000
LDT-40	Min Wattage	3000	3000	3000	3000
	Max Wattage	6000*	6000*	6000	6000
LDT-50	Min Wattage	2500	2500	2500	2500
	Max Wattage	6000*	6000*	6000	6000
LDT-65 to LDT-120	Single Wattage/ Simultaneous	N/A	6100	6100	6100

See "Element Availability Schedule" for letter codes and available voltage/wattage combinations. ** Simultaneous operation is not available for 6000 watt models.*

Element Availability Schedule Wattage	120V**	208V**	240V	277V	480V
Non-Simultaneous					
F-2500	Yes	Yes	Yes	Yes	Yes
G-3000	Yes	Yes	Yes	Yes	Yes
H-3500	N/A	Yes	Yes	N/A	N/A
J-4000	N/A	Yes	Yes	Yes	Yes
K-4500	N/A	Yes	Yes	Yes	Yes
M-5000	N/A	Yes	Yes	Yes	Yes
N-5500	N/A	Yes*	Yes*	N/A	N/A
P-6000	N/A	Yes*	Yes*	Yes	Yes
Simultaneous					
R-6100	N/A	N/A	Yes	Yes	Yes

* Simultaneous operation is not available for 5500 & 6000 watt models.

***Notes**:Max Wattage for EJ-006 is 3000W*
** Indicates Not Available for EJ-010 and EJ-015*
***LDT-65, 80 &120 not available in 120 & 208V*

Recovery Rate (GPH @ °F) Element	Wattage	40°F	60°F	80°F	100°F	120°F
Non-Simultaneous						
F	2500	26	17	13	10	8
G	3000	30	20	15	12	10
H	3500	36	34	18	14	12
J	4000	41	27	20	16	14
K	4500	46	30	23	18	15
M	5000	51	34	25	20	17
N	5500	56	38	28	22	19
P	6000	61	41	30	24	20
Simultaneous						
R-6100	12200	124	82	62	49	41

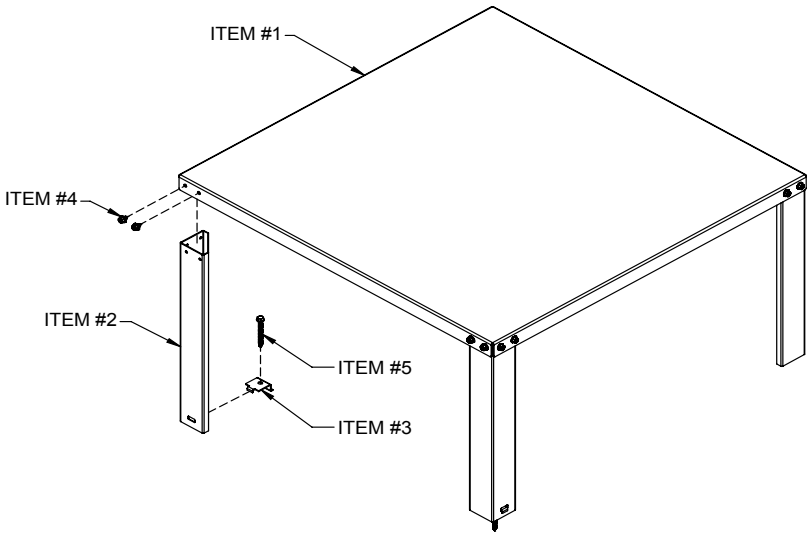
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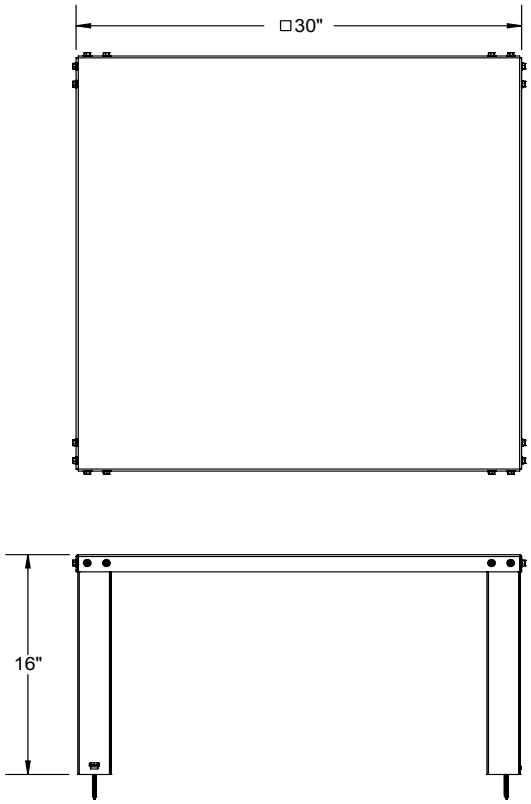
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Lochinvar, LLC
300 Maddox Simpson Parkway
Lebanon, Tennessee 37090
P: 615.889.8900 / F: 615.547.1000
Lochinvar.com

CLD-09 (Replaces CLD-08 8/22)

(Website Update 7/24) 9/22 - Printed in USA

PRODUCT SPECIFICATION DRAWING
QUICKSTAND™ 30" X 30" (Water Heater & Equipment Support)
#40-S-30-A (assembled) and #40-S-30-U (unassembled)





The QUICKSTAND™ #40-S-30- (A or U) stand safely elevates water heaters and other equipment above the floor (1,350 lbs rating).

ALL DIMENSIONS IN INCHES

Product Information:

- Material:
  Item #1: Top, 12 gage CRS, galvanized
  Item #2: Leg, 16 gage CRS, galvanized, 4 places
  Item #3: Safety Clip, 14 gage CRS, galvanized, 2 places
  Item #4: SMS, Phillips Hex Head Washer, w/Serrated Under Head, #1/4-14 X 1/2"L, 16 places
  Item #5: Lag Bolt, #1/4-10 X 2-1/2"L, self-drilling, 2 places
  (items #3 and #5 included with product)
- Engineered and lab tested to meet Uniform Plumbing Code (UPC) and International Plumbing Code (IPC) requirements, including elevation of water heater's ignition source 18" above the floor
- Holds up to 1,350 pounds (typical 100 to 120 U.S. gallons)
- QUICKSTAND™ weight 36 pounds without packaging
- Available in assembled and unassembled configurations

Product Submittal	
Job Name:	
Date:	
Part Number:	Qty:
Architect / Owner:	
Contractor:	
Notes:	

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spec_40-S-30_RevE

ALUMINUM WATER HEATER PANS TECHNICAL SPECIFICATION

Job Name _____ Item # _____
Location _____
Engineer _____ Contractor _____
PO # _____ Tag _____
Representative _____

SPECIFICATIONS

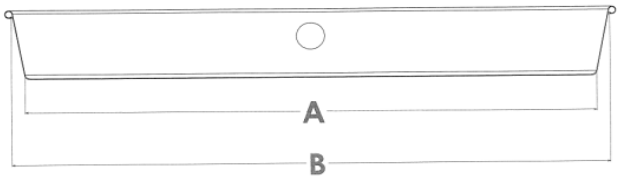
Oatey Aluminum Water Heater Pans can be installed under gas or electric water heaters to protect from water damage. Available with 1" CPVC, 1" PVC, 1.5" PVC (over 1" or inside 1.5" Schedule 40 PVC pipe), 1.5" PVC (over 1" or over 1.5" Schedule 40 PVC pipe) and without fitting or without fitting hole.

DESCRIPTION

All dimensions in inches

- Manufactured from 22 gauge Aluminum.
- Pre-cut side opening accommodates drain fitting.
- Meets requirements of Southern Building Code.
- Pan depth is minimum 2-1/2".





PRODUCT SELECTOR

WATER HEATER PANS WITH 1" CPVC FITTING (FITS OVER 1" CPVC PIPE)

✓	Product Number	Description	Qty	Inside Diameter (A)	Outside Diameter (B)
	34170	18" Aluminum Water Heater Pan – Bulk	6	18	19
	34171	20" Aluminum Water Heater Pan – Bulk	6	20	21
	34172	22" Aluminum Water Heater Pan – Bulk	6	22	23
	34173	24" Aluminum Water Heater Pan – Bulk	6	24	25
	34174	26" Aluminum Water Heater Pan – Bulk	6	26	27
	34176	28" Aluminum Water Heater Pan – Bulk	6	28	29
	34175	30" Aluminum Water Heater Pan – Bulk	6	30	31
	34193	32" Aluminum Water Heater Pan	6	32	33

Data is subject to manufacturing tolerances.

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LCS1303 10/20

ALUMINUM WATER HEATER PANS TECHNICAL SPECIFICATION

PRODUCT SELECTOR

✓	Product Number	Description	Qty	Inside Diameter (A)	Outside Diameter (B)
WATER HEATER PANS WITH 1" PVC FITTING (FITS OVER 1" AND INSIDE 1.5" SCHEDULE 40 PIPE)					
	34079	18" Aluminum Water Heater Pan – Bulk	6	18	19
	34151	20" Aluminum Water Heater Pan – Bulk	6	20	21
	34152	22" Aluminum Water Heater Pan – Bulk	6	22	23
	34153	24" Aluminum Water Heater Pan – Bulk	6	24	25
	34154	26" Aluminum Water Heater Pan – Bulk	6	26	27
	34156	28" Aluminum Water Heater Pan – Bulk	6	28	29
	34085	30" Aluminum Water Heater Pan – Bulk	6	30	31
	34191	32" Aluminum Water Heater Pan	6	32	33
WATER HEATER PANS WITH 1.5" PVC FITTING (FITS OVER 1" AND OVER 1.5" SCHEDULE 40 PIPE)					
	34081	20" Aluminum Water Heater Pan – Bulk	6	20	21
	34082	22" Aluminum Water Heater Pan – Bulk	6	22	23
	34083	24" Aluminum Water Heater Pan – Bulk	6	24	25
	34084	26" Aluminum Water Heater Pan – Bulk	6	26	27
	34103	28" Aluminum Water Heater Pan – Bulk	6	28	29
	34107	30" Aluminum Water Heater Pan	6	29	30
WATER HEATER PANS WITHOUT FITTING & WITHOUT HOLE					
	34090	18" Aluminum Water Heater Pan – Bulk	6	18	19
	34091	20" Aluminum Water Heater Pan – Bulk	6	20	21
	34092	22" Aluminum Water Heater Pan – Bulk	6	22	23
	34093	24" Aluminum Water Heater Pan – Bulk	6	24	25
	34094	26" Aluminum Water Heater Pan – Bulk	6	26	27
	34095	30" Aluminum Water Heater Pan – Bulk	6	30	31
WATER HEATER PAN ADAPTERS					
	34086	1" & 1-1/2" PVC Adapter (Fits over 1" and over 1.5" Schedule 40 pipe)	12		
	34088	1" & 1-1/2" PVC Adapter (Fits over 1" and inside 1.5" Schedule 40 pipe)	12		
	34089	1" CPVC Adapter (Fits over 1" CPVC pipe)	12		

Data is subject to manufacturing tolerances.

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2.16 HIGHLANDS BUILDING ROGERS

Datasheets

EWH-4

COMMERCIAL WATER HEATERS

Available in point-of-use, tall and short models, Lochinvar's commercial electric water heaters offer a wide range of capacities and a choice of voltages. This flexibility—combined with their Energy Saver design and durable construction—makes them ideal for many low-draw commercial and industrial applications.

LIGHT DUTY
ELECTRIC MODELS

STANDARD FEATURES

NON-SIMULTANEOUS OR SIMULTANEOUS WIRING - 30, 40 and 50 gallon models are factory wired for non-simultaneous operation, standard. 65, 80 and 120 gallon models are factory wired for simultaneous operation, standard. All Non-SIM and SIM models can be field converted.

GLASS–LINED STEEL TANK - The durable glass lining is fused to the tank at 1,600°F to assure lasting protection against rust and corrosion while providing clean, clear hot water. 300 psi test pressure; 150 psi working pressure.

NON-CFC FOAM INSULATION - A uniform coverage of thick closed-cell foam insulation minimizes standby losses and maximizes heat retention.

ADJUSTABLE THERMOSTATS - This accurate control provides an easy way to reset water temperature for best economy.

AUTOMATIC OVERHEAT PROTECTION - Provides automatic overheat safety control with manual reset high limit feature.

TANK SAVER ANODE - A large diameter, high capacity anode inhibits corrosion of the tank interior for long, trouble-free service.

SINGLE OR THREE PHASE WIRING - Wired for 3-phase operation standard. Field adjustable to 1-phase.

ASME TEMPERATURE & PRESSURE RELIEF VALVE - Factory installed for safety.

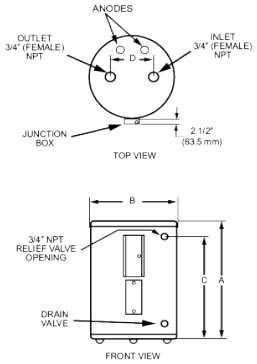
3-YEAR LIMITED TANK WARRANTY, 1-YEAR LIMITED PARTS WARRANTY – See warranty for details.



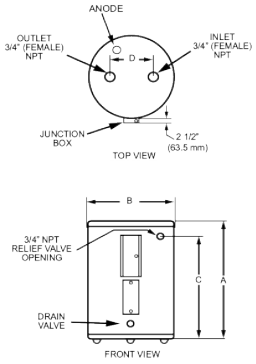
Lochinvar®
HIGH EFFICIENCY BOILERS & WATER HEATERS

DIMENSIONS & SPECIFICATIONS

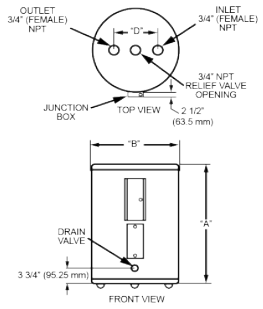
LDS-30 XK - LDS-50 XK



LDT-30 XK - LDT-50 XK



LDT-65 XR - LDT-120 XR

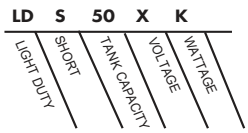


LDS & LDT Models		
T	208V	1 or 3 PH
P	240V	1 or 3 PH
W	277V	1 PH
X	480V	3 PH

Wattage Limits w/ Simultaneous Operation
208V - 10,000W (5,000W/5,000W)
240V - 10,000W (5,000W/5,000W)
277V - 12,200W (6,100W/6,100W)
480V - 12,200W (6,100W/6,100W)

Wattage Limits applicable to 30, 40 & 50 gal Short and 30, 40 & 50 gal Tall.

FOR EASE IN ORDERING BY MODEL NUMBER



This is a Short Commercial Electric 480 volt model with a tank capacity of 50 gallons. The upper and lower elements are 4500 watts.

LIGHT DUTY COMMERCIAL MODELS

Model Number	Nominal Cap.	Rated Cap.	UEF	A	B	C	D	Ship Wt.
Short Models / Dual Elements, Multiple Element Wattages, Non-Simultaneous								
LDS-30 XK	36	33	0.92	32"	24"	24"	8"	118
LDS-40 XK	38	35	0.92	32"	23"	24"	8"	118
LDS-50 XK	51	48	0.92	36"	26-1/2"	25"	8"	172
Tall Models / Dual Elements, Multiple Element Wattages, Non-Simultaneous								
LDT-30 XK	40	37	0.92	49-3/4"	20-1/2"	53-1/4"	8"	118
LDT-40 XK	50	46	0.92	59"	20-1/2"	51-1/4"	8"	125
LDT-50 XK	55	55	0.92	56-1/2"	24"	48-1/2"	8"	145
Tall Models / Dual Elements, 6100 Watt Elements Only, Simultaneous								
LDT-65 XR	66	60	N/A	60-3/4"	21-3/4"	-	8"	176
LDT-80 XR	80	76	N/A	59-3/8	24"	-	8"	211
LDT-120 XR	120	108	N/A	62-7/16"	29-3/8"	-	8"	326

***Notes**:Water connections 3/4" NPT on all models. Short and Tall models are factory wired for three phase service and are field converted to single phase.*

Models		T - 208V/ 1 or 3PH	P - 240V/ 1 or 3PH	W - 277V/ 1PH	X - 480V/ 3PH
LDS-30	Min Wattage	4500	4500	4500	4500
	Max Wattage	6000*	6000*	6000	6000
LDS-40	Min Wattage	4500	4500	4500	4500
	Max Wattage	6000*	6000*	6000	6000
LDS-50	Min Wattage	4000	4000	4000	4000
	Max Wattage	6000*	6000*	6000	6000
LDT-30	Min Wattage	4500	4500	4500	4500
	Max Wattage	6000*	6000*	6000	6000
LDT-40	Min Wattage	3000	3000	3000	3000
	Max Wattage	6000*	6000*	6000	6000
LDT-50	Min Wattage	2500	2500	2500	2500
	Max Wattage	6000*	6000*	6000	6000
LDT-65 to LDT-120	Single Wattage/ Simultaneous	N/A	6100	6100	6100

See "Element Availability Schedule" for letter codes and available voltage/wattage combinations. ** Simultaneous operation is not available for 6000 watt models.*

Element Availability Schedule					
Wattage	120V**	208V**	240V	277V	480V
Non-Simultaneous					
F-2500	Yes	Yes	Yes	Yes	Yes
G-3000	Yes	Yes	Yes	Yes	Yes
H-3500	N/A	Yes	Yes	N/A	N/A
J-4000	N/A	Yes	Yes	Yes	Yes
K-4500	N/A	Yes	Yes	Yes	Yes
M-5000	N/A	Yes	Yes	Yes	Yes
N-5500	N/A	Yes*	Yes*	N/A	N/A
P-6000	N/A	Yes*	Yes*	Yes	Yes
Simultaneous					
R-6100	N/A	N/A	Yes	Yes	Yes

* Simultaneous operation is not available for 5500 & 6000 watt models.

***Notes**:Max Wattage for EJ-006 is 3000W*
** Indicates Not Available for EJ-010 and EJ-015*
***LDT-65, 80 &120 not available in 120 & 208V*

Recovery Rate (GPH @ °F)						
Element	Wattage	40°F	60°F	80°F	100°F	120°F
Non-Simultaneous						
F	2500	26	17	13	10	8
G	3000	30	20	15	12	10
H	3500	36	34	18	14	12
J	4000	41	27	20	16	14
K	4500	46	30	23	18	15
M	5000	51	34	25	20	17
N	5500	56	38	28	22	19
P	6000	61	41	30	24	20
Simultaneous						
R-6100	12200	124	82	62	49	41

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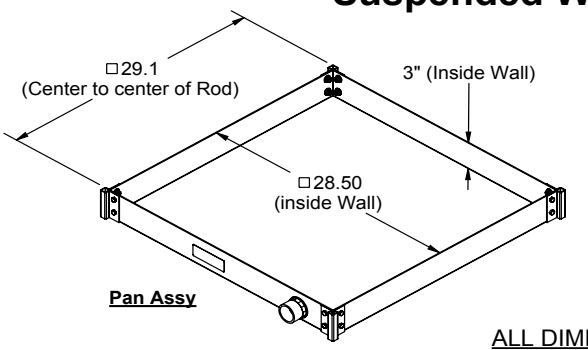
Lochinvar®
Lochinvar, LLC
300 Maddox Simpson Parkway
Lebanon, Tennessee 37090
P: 615.889.8900 / F: 615.547.1000
Lochinvar.com

CLD-09 (Replaces CLD-08 8/22)
(Website Update 7/24) 9/22 - Printed in USA

Job Name : 2.16 HIGHLANDS BUILDING ROGERS
Manufacturer : HOLDRITE
Model Number : 60-SWHP

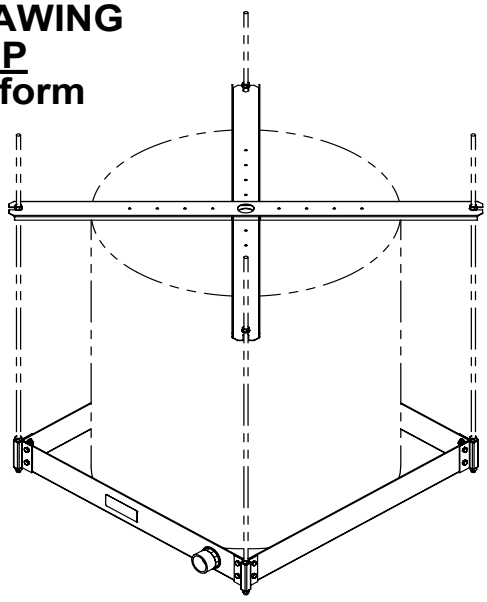
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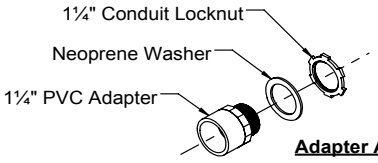
PRODUCT SPECIFICATION DRAWING
QUICK STAND™ #60-SWHP
Suspended Water Heater Platform



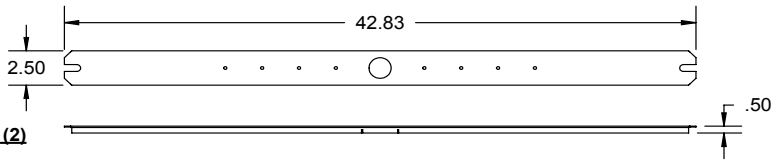
Pan Assy

ALL DIMENSIONS IN INCHES





Adapter Assy



Diagonal Braces (2)

The #60-SWHP Suspended Water Heater Platform is engineered to support water heaters up to 50 U.S. gallons, or other equipment, up to 750 pounds total weight. This time and labor savings tool is designed for the Professional Contractor. Design features requested by plumbers are incorporated into a professional platform and drain pan combination that can be suspended with 3/8" or 1/2" all thread rods. See Installation Instructions for detail.

Product Information:

- Material:
  Pan: 12 gage CRS, galvanized
  Corner Brackets: 14 gage CRS, galvanized
  Diagonal Braces: 16 gage CRS, galvanized
- Wide platform allows water heaters up to 28-1/2" diameter
- Watertight corners and sealed 1¼" PVC drain fittings eliminate need for additional drain pan
- Cross-braces two (2) included to capture water heater within the platform
- Static load rating 750 pounds with 2X safety factor (depending on structural anchorage)
- Includes PVC drain body 1¼" MIPT x 1¼" FS
- Galvanized steel construction
- Suspends with user supplied 3/8" or 1/2" threaded rod and hardware
- Four corner attachment points allows for seismic/sway bracing connection
- Patent pending

Product Submittal	
Job Name:	
Date:	
Part Number:	Qty:
Architect / Owner:	
Contractor:	
Notes:	

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CONVERTING MAKESHIFT METHODS INTO ENGINEERED SOLUTIONS℠

800-321-0316 OR 760-744-6944 / FAX: 760-744-0507 / WWW.HOLDRITE.COM
spec_60-SWHP_RevC



2.16 HIGHLANDS BUILDING ROGERS

Datasheets

EWH-5

COMMERCIAL WATER HEATERS

Available in point-of-use, tall and short models, Lochinvar's commercial electric water heaters offer a wide range of capacities and a choice of voltages. This flexibility—combined with their Energy Saver design and durable construction—makes them ideal for many low-draw commercial and industrial applications.

LIGHT DUTY
ELECTRIC MODELS

STANDARD FEATURES

NON-SIMULTANEOUS OR SIMULTANEOUS WIRING - 30, 40 and 50 gallon models are factory wired for non-simultaneous operation, standard. 65, 80 and 120 gallon models are factory wired for simultaneous operation, standard. All Non-SIM and SIM models can be field converted.

GLASS–LINED STEEL TANK - The durable glass lining is fused to the tank at 1,600°F to assure lasting protection against rust and corrosion while providing clean, clear hot water. 300 psi test pressure; 150 psi working pressure.

NON-CFC FOAM INSULATION - A uniform coverage of thick closed-cell foam insulation minimizes standby losses and maximizes heat retention.

ADJUSTABLE THERMOSTATS - This accurate control provides an easy way to reset water temperature for best economy.

AUTOMATIC OVERHEAT PROTECTION - Provides automatic overheat safety control with manual reset high limit feature.

TANK SAVER ANODE - A large diameter, high capacity anode inhibits corrosion of the tank interior for long, trouble-free service.

SINGLE OR THREE PHASE WIRING - Wired for 3-phase operation standard. Field adjustable to 1-phase.

ASME TEMPERATURE & PRESSURE RELIEF VALVE - Factory installed for safety.

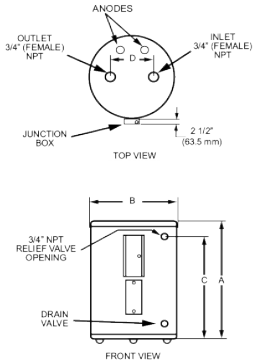
3-YEAR LIMITED TANK WARRANTY, 1-YEAR LIMITED PARTS WARRANTY – See warranty for details.



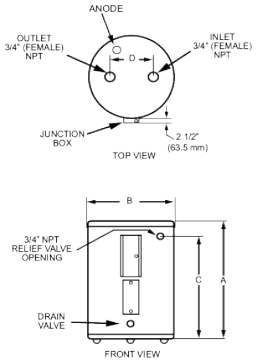
Lochinvar®
HIGH EFFICIENCY BOILERS & WATER HEATERS

DIMENSIONS & SPECIFICATIONS

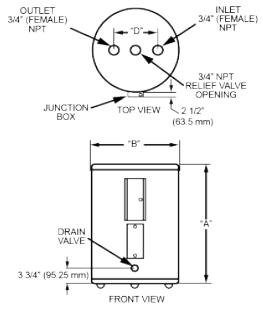
LDS-30 XK - LDS-50 XK



LDT-30 XK - LDT-50 XK



LDT-65 XR - LDT-120 XR

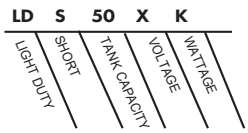


LDS & LDT Models		
T	208V	1 or 3 PH
P	240V	1 or 3 PH
W	277V	1 PH
X	480V	3 PH

Wattage Limits w/ Simultaneous Operation
208V - 10,000W (5,000W/5,000W)
240V - 10,000W (5,000W/5,000W)
277V - 12,200W (6,100W/6,100W)
480V - 12,200W (6,100W/6,100W)

Wattage Limits applicable to 30, 40 & 50 gal Short and 30, 40 & 50 gal Tall.

FOR EASE IN ORDERING BY MODEL NUMBER



This is a Short Commercial Electric 480 volt model with a tank capacity of 50 gallons. The upper and lower elements are 4500 watts.

LIGHT DUTY COMMERCIAL MODELS

Model Number	Nominal Cap.	Rated Cap.	UEF	A	B	C	D	Ship Wt.
Short Models / Dual Elements, Multiple Element Wattages, Non-Simultaneous								
LDS-30 XK	36	33	0.92	32"	24"	24"	8"	118
LDS-40 XK	38	35	0.92	32"	23"	24"	8"	118
LDS-50 XK	51	48	0.92	36"	26-1/2"	25"	8"	172
Tall Models / Dual Elements, Multiple Element Wattages, Non-Simultaneous								
LDT-30 XK	40	37	0.92	49-3/4"	20-1/2"	53-1/4"	8"	118
LDT-40 XK	50	46	0.92	59"	20-1/2"	51-1/4"	8"	125
LDT-50 XK	55	55	0.92	56-1/2"	24"	48-1/2"	8"	145
Tall Models / Dual Elements, 6100 Watt Elements Only, Simultaneous								
LDT-65 XR	66	60	N/A	60-3/4"	21-3/4"	-	8"	176
LDT-80 XR	80	76	N/A	59-3/8	24"	-	8"	211
LDT-120 XR	120	108	N/A	62-7/16"	29-3/8"	-	8"	326

***Notes**:Water connections 3/4" NPT on all models. Short and Tall models are factory wired for three phase service and are field converted to single phase.*

Models		T - 208V/ 1 or 3PH	P - 240V/ 1 or 3PH	W - 277V/ 1PH	X - 480V/ 3PH
LDS-30	Min Wattage	4500	4500	4500	4500
	Max Wattage	6000*	6000*	6000	6000
LDS-40	Min Wattage	4500	4500	4500	4500
	Max Wattage	6000*	6000*	6000	6000
LDS-50	Min Wattage	4000	4000	4000	4000
	Max Wattage	6000*	6000*	6000	6000
LDT-30	Min Wattage	4500	4500	4500	4500
	Max Wattage	6000*	6000*	6000	6000
LDT-40	Min Wattage	3000	3000	3000	3000
	Max Wattage	6000*	6000*	6000	6000
LDT-50	Min Wattage	2500	2500	2500	2500
	Max Wattage	6000*	6000*	6000	6000
LDT-65 to LDT-120	Single Wattage/ Simultaneous	N/A	6100	6100	6100

See "Element Availability Schedule" for letter codes and available voltage/wattage combinations. ** Simultaneous operation is not available for 6000 watt models.*

Element Availability Schedule Wattage	120V**	208V**	240V	277V	480V
Non-Simultaneous					
F-2500	Yes	Yes	Yes	Yes	Yes
G-3000	Yes	Yes	Yes	Yes	Yes
H-3500	N/A	Yes	Yes	N/A	N/A
J-4000	N/A	Yes	Yes	Yes	Yes
K-4500	N/A	Yes	Yes	Yes	Yes
M-5000	N/A	Yes	Yes	Yes	Yes
N-5500	N/A	Yes*	Yes*	N/A	N/A
P-6000	N/A	Yes*	Yes*	Yes	Yes
Simultaneous					
R-6100	N/A	N/A	Yes	Yes	Yes

* Simultaneous operation is not available for 5500 & 6000 watt models.

***Notes**:Max Wattage for EJ-006 is 3000W*
** Indicates Not Available for EJ-010 and EJ-015*
***LDT-65, 80 &120 not available in 120 & 208V*

Recovery Rate (GPH @ °F) Element	Wattage	40°F	60°F	80°F	100°F	120°F
Non-Simultaneous						
F	2500	26	17	13	10	8
G	3000	30	20	15	12	10
H	3500	36	34	18	14	12
J	4000	41	27	20	16	14
K	4500	46	30	23	18	15
M	5000	51	34	25	20	17
N	5500	56	38	28	22	19
P	6000	61	41	30	24	20
Simultaneous						
R-6100	12200	124	82	62	49	41

For technical information call 800-722-2101. Lochinvar, LLC reserves the right to make product changes or improvements without prior notice.

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P: 615.889.8900 / F: 615.547.1000
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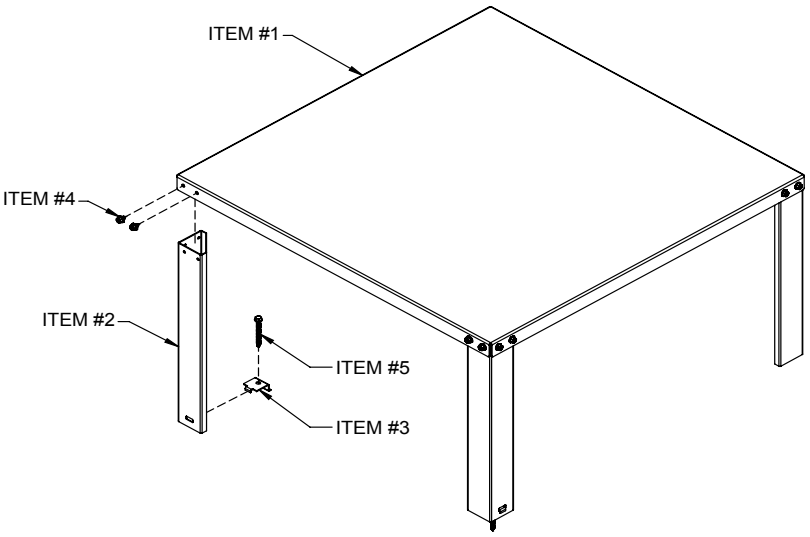
CLD-09 (Replaces CLD-08 8/22)

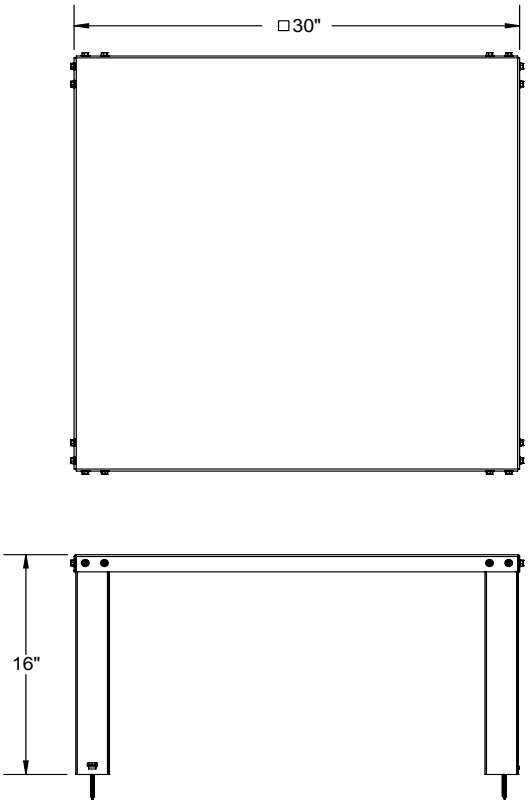
(Website Update 7/24) 9/22 - Printed in USA

Job Name :	2.16 HIGHLANDS BUILDING ROGERS
Manufacturer :	HOLDRITE
Model Number :	40-S-30-U

Type :

PRODUCT SPECIFICATION DRAWING
QUICKSTAND™ 30" X 30" (Water Heater & Equipment Support)
#40-S-30-A (assembled) and #40-S-30-U (unassembled)





ALL DIMENSIONS IN INCHES

The QUICKSTAND™ #40-S-30- (A or U) stand safely elevates water heaters and other equipment above the floor (1,350 lbs rating).

Product Information:

- Material:
  Item #1: Top, 12 gage CRS, galvanized
  Item #2: Leg, 16 gage CRS, galvanized, 4 places
  Item #3: Safety Clip, 14 gage CRS, galvanized, 2 places
  Item #4: SMS, Phillips Hex Head Washer, w/Serrated Under Head, #1/4-14 X 1/2"L, 16 places
  Item #5: Lag Bolt, #1/4-10 X 2-1/2"L, self-drilling, 2 places
  (items #3 and #5 included with product)
- Engineered and lab tested to meet Uniform Plumbing Code (UPC) and International Plumbing Code (IPC) requirements, including elevation of water heater's ignition source 18" above the floor
- Holds up to 1,350 pounds (typical 100 to 120 U.S. gallons)
- QUICKSTAND™ weight 36 pounds without packaging
- Available in assembled and unassembled configurations

Product Submittal	
Job Name:	
Date:	
Part Number:	Qty:
Architect / Owner:	
Contractor:	
Notes:	

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spec_40-S-30_RevE

ALUMINUM WATER HEATER PANS TECHNICAL SPECIFICATION

Job Name _____ Item # _____
Location _____
Engineer _____ Contractor _____
PO # _____ Tag _____
Representative _____

SPECIFICATIONS

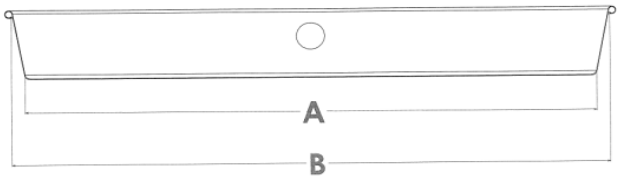
Oatey Aluminum Water Heater Pans can be installed under gas or electric water heaters to protect from water damage. Available with 1" CPVC, 1" PVC, 1.5" PVC (over 1" or inside 1.5" Schedule 40 PVC pipe), 1.5" PVC (over 1" or over 1.5" Schedule 40 PVC pipe) and without fitting or without fitting hole.

DESCRIPTION

All dimensions in inches

- Manufactured from 22 gauge Aluminum.
- Pre-cut side opening accommodates drain fitting.
- Meets requirements of Southern Building Code.
- Pan depth is minimum 2-1/2".





PRODUCT SELECTOR

WATER HEATER PANS WITH 1" CPVC FITTING (FITS OVER 1" CPVC PIPE)

✓	Product Number	Description	Qty	Inside Diameter (A)	Outside Diameter (B)
	34170	18" Aluminum Water Heater Pan – Bulk	6	18	19
	34171	20" Aluminum Water Heater Pan – Bulk	6	20	21
	34172	22" Aluminum Water Heater Pan – Bulk	6	22	23
	34173	24" Aluminum Water Heater Pan – Bulk	6	24	25
	34174	26" Aluminum Water Heater Pan – Bulk	6	26	27
	34176	28" Aluminum Water Heater Pan – Bulk	6	28	29
	34175	30" Aluminum Water Heater Pan – Bulk	6	30	31
	34193	32" Aluminum Water Heater Pan	6	32	33

Data is subject to manufacturing tolerances.

Access BIM/Revit content through www.oatey.com

Oatey Co. | 20600 Emerald Parkway, Cleveland, OH 44135 | P: 1.800.321.9532 | **Oatey.com**

LCS1303 10/20

ALUMINUM WATER HEATER PANS TECHNICAL SPECIFICATION

PRODUCT SELECTOR

✓	Product Number	Description	Qty	Inside Diameter (A)	Outside Diameter (B)
WATER HEATER PANS WITH 1" PVC FITTING (FITS OVER 1" AND INSIDE 1.5" SCHEDULE 40 PIPE)					
	34079	18" Aluminum Water Heater Pan – Bulk	6	18	19
	34151	20" Aluminum Water Heater Pan – Bulk	6	20	21
	34152	22" Aluminum Water Heater Pan – Bulk	6	22	23
	34153	24" Aluminum Water Heater Pan – Bulk	6	24	25
	34154	26" Aluminum Water Heater Pan – Bulk	6	26	27
	34156	28" Aluminum Water Heater Pan – Bulk	6	28	29
	34085	30" Aluminum Water Heater Pan – Bulk	6	30	31
	34191	32" Aluminum Water Heater Pan	6	32	33
WATER HEATER PANS WITH 1.5" PVC FITTING (FITS OVER 1" AND OVER 1.5" SCHEDULE 40 PIPE)					
	34081	20" Aluminum Water Heater Pan – Bulk	6	20	21
	34082	22" Aluminum Water Heater Pan – Bulk	6	22	23
	34083	24" Aluminum Water Heater Pan – Bulk	6	24	25
	34084	26" Aluminum Water Heater Pan – Bulk	6	26	27
	34103	28" Aluminum Water Heater Pan – Bulk	6	28	29
	34107	30" Aluminum Water Heater Pan	6	29	30
WATER HEATER PANS WITHOUT FITTING & WITHOUT HOLE					
	34090	18" Aluminum Water Heater Pan – Bulk	6	18	19
	34091	20" Aluminum Water Heater Pan – Bulk	6	20	21
	34092	22" Aluminum Water Heater Pan – Bulk	6	22	23
	34093	24" Aluminum Water Heater Pan – Bulk	6	24	25
	34094	26" Aluminum Water Heater Pan – Bulk	6	26	27
	34095	30" Aluminum Water Heater Pan – Bulk	6	30	31
WATER HEATER PAN ADAPTERS					
	34086	1" & 1-1/2" PVC Adapter (Fits over 1" and over 1.5" Schedule 40 pipe)	12		
	34088	1" & 1-1/2" PVC Adapter (Fits over 1" and inside 1.5" Schedule 40 pipe)	12		
	34089	1" CPVC Adapter (Fits over 1" CPVC pipe)	12		

Data is subject to manufacturing tolerances.

Access BIM/Revit content through www.oatey.com



2.16 HIGHLANDS BUILDING ROGERS

Datasheets

EWH-6

COMMERCIAL WATER HEATERS

Available in point-of-use, tall and short models, Lochinvar's commercial electric water heaters offer a wide range of capacities and a choice of voltages. This flexibility—combined with their Energy Saver design and durable construction—makes them ideal for many low-draw commercial and industrial applications.

LIGHT DUTY
ELECTRIC MODELS

STANDARD FEATURES

NON-SIMULTANEOUS OR SIMULTANEOUS WIRING - 30, 40 and 50 gallon models are factory wired for non-simultaneous operation, standard. 65, 80 and 120 gallon models are factory wired for simultaneous operation, standard. All Non-SIM and SIM models can be field converted.

GLASS–LINED STEEL TANK - The durable glass lining is fused to the tank at 1,600°F to assure lasting protection against rust and corrosion while providing clean, clear hot water. 300 psi test pressure; 150 psi working pressure.

NON-CFC FOAM INSULATION - A uniform coverage of thick closed-cell foam insulation minimizes standby losses and maximizes heat retention.

ADJUSTABLE THERMOSTATS - This accurate control provides an easy way to reset water temperature for best economy.

AUTOMATIC OVERHEAT PROTECTION - Provides automatic overheat safety control with manual reset high limit feature.

TANK SAVER ANODE - A large diameter, high capacity anode inhibits corrosion of the tank interior for long, trouble-free service.

SINGLE OR THREE PHASE WIRING - Wired for 3-phase operation standard. Field adjustable to 1-phase.

ASME TEMPERATURE & PRESSURE RELIEF VALVE - Factory installed for safety.

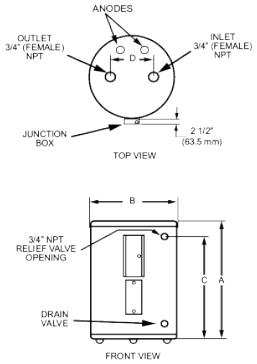
3-YEAR LIMITED TANK WARRANTY, 1-YEAR LIMITED PARTS WARRANTY – See warranty for details.



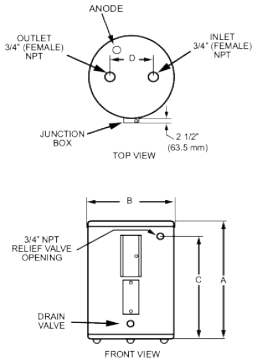
Lochinvar®
HIGH EFFICIENCY BOILERS & WATER HEATERS

DIMENSIONS & SPECIFICATIONS

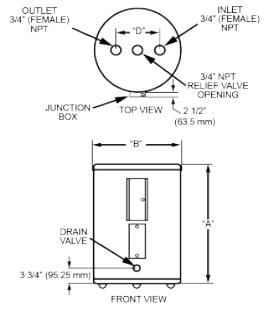
LDS-30 XK - LDS-50 XK



LDT-30 XK - LDT-50 XK



LDT-65 XR - LDT-120 XR

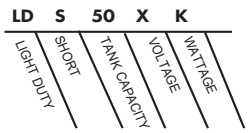


LDS & LDT Models		
T	208V	1 or 3 PH
P	240V	1 or 3 PH
W	277V	1 PH
X	480V	3 PH

Wattage Limits w/ Simultaneous Operation
208V - 10,000W (5,000W/5,000W)
240V - 10,000W (5,000W/5,000W)
277V - 12,200W (6,100W/6,100W)
480V - 12,200W (6,100W/6,100W)

Wattage Limits applicable to 30, 40 & 50 gal Short and 30, 40 & 50 gal Tall.

FOR EASE IN ORDERING BY MODEL NUMBER



This is a Short Commercial Electric 480 volt model with a tank capacity of 50 gallons. The upper and lower elements are 4500 watts.

LIGHT DUTY COMMERCIAL MODELS

Model Number	Nominal Cap.	Rated Cap.	UEF	A	B	C	D	Ship Wt.
Short Models / Dual Elements, Multiple Element Wattages, Non-Simultaneous								
LDS-30 XK	36	33	0.92	32"	24"	24"	8"	118
LDS-40 XK	38	35	0.92	32"	23"	24"	8"	118
LDS-50 XK	51	48	0.92	36"	26-1/2"	25"	8"	172
Tall Models / Dual Elements, Multiple Element Wattages, Non-Simultaneous								
LDT-30 XK	40	37	0.92	49-3/4"	20-1/2"	53-1/4"	8"	118
LDT-40 XK	50	46	0.92	59"	20-1/2"	51-1/4"	8"	125
LDT-50 XK	55	55	0.92	56-1/2"	24"	48-1/2"	8"	145
Tall Models / Dual Elements, 6100 Watt Elements Only, Simultaneous								
LDT-65 XR	66	60	N/A	60-3/4"	21-3/4"	-	8"	176
LDT-80 XR	80	76	N/A	59-3/8	24"	-	8"	211
LDT-120 XR	120	108	N/A	62-7/16"	29-3/8"	-	8"	326

***Notes**:Water connections 3/4" NPT on all models. Short and Tall models are factory wired for three phase service and are field converted to single phase.*

Models		T - 208V/ 1 or 3PH	P - 240V/ 1 or 3PH	W - 277V/ 1PH	X - 480V/ 3PH
LDS-30	Min Wattage	4500	4500	4500	4500
	Max Wattage	6000*	6000*	6000	6000
LDS-40	Min Wattage	4500	4500	4500	4500
	Max Wattage	6000*	6000*	6000	6000
LDS-50	Min Wattage	4000	4000	4000	4000
	Max Wattage	6000*	6000*	6000	6000
LDT-30	Min Wattage	4500	4500	4500	4500
	Max Wattage	6000*	6000*	6000	6000
LDT-40	Min Wattage	3000	3000	3000	3000
	Max Wattage	6000*	6000*	6000	6000
LDT-50	Min Wattage	2500	2500	2500	2500
	Max Wattage	6000*	6000*	6000	6000
LDT-65 to LDT-120	Single Wattage/ Simultaneous	N/A	6100	6100	6100

See "Element Availability Schedule" for letter codes and available voltage/wattage combinations. ** Simultaneous operation is not available for 6000 watt models.*

Element Availability Schedule Wattage	120V**	208V**	240V	277V	480V
Non-Simultaneous					
F-2500	Yes	Yes	Yes	Yes	Yes
G-3000	Yes	Yes	Yes	Yes	Yes
H-3500	N/A	Yes	Yes	N/A	N/A
J-4000	N/A	Yes	Yes	Yes	Yes
K-4500	N/A	Yes	Yes	Yes	Yes
M-5000	N/A	Yes	Yes	Yes	Yes
N-5500	N/A	Yes*	Yes*	N/A	N/A
P-6000	N/A	Yes*	Yes*	Yes	Yes
Simultaneous					
R-6100	N/A	N/A	Yes	Yes	Yes

* Simultaneous operation is not available for 5500 & 6000 watt models.

***Notes**:Max Wattage for EJ-006 is 3000W*
** Indicates Not Available for EJ-010 and EJ-015*
***LDT-65, 80 &120 not available in 120 & 208V*

Recovery Rate (GPH @ °F) Element	Wattage	40°F	60°F	80°F	100°F	120°F
Non-Simultaneous						
F	2500	26	17	13	10	8
G	3000	30	20	15	12	10
H	3500	36	34	18	14	12
J	4000	41	27	20	16	14
K	4500	46	30	23	18	15
M	5000	51	34	25	20	17
N	5500	56	38	28	22	19
P	6000	61	41	30	24	20
Simultaneous						
R-6100	12200	124	82	62	49	41

For technical information call 800-722-2101. Lochinvar, LLC reserves the right to make product changes or improvements without prior notice.

Lochinvar®
Lochinvar, LLC
300 Maddox Simpson Parkway
Lebanon, Tennessee 37090
P: 615.889.8900 / F: 615.547.1000
Lochinvar.com

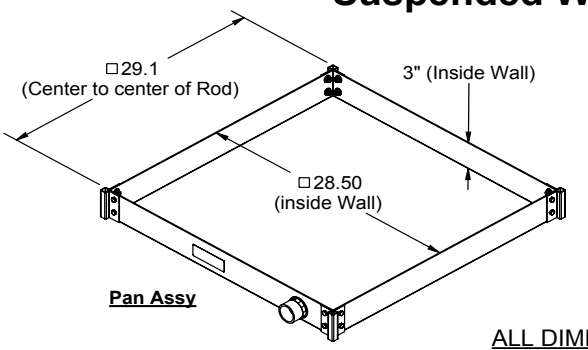
CLD-09 (Replaces CLD-08 8/22)

(Website Update 7/24) 9/22 - Printed in USA

Job Name : 2.16 HIGHLANDS BUILDING ROGERS
Manufacturer : HOLDRITE
Model Number : 60-SWHP

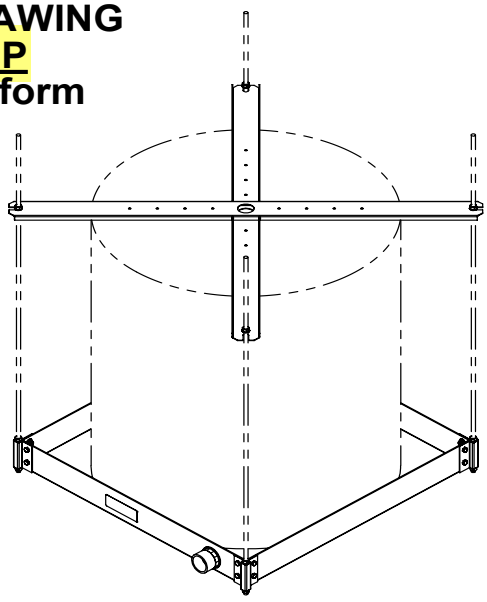
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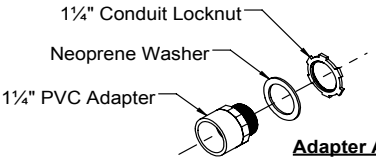
PRODUCT SPECIFICATION DRAWING
QUICK STAND™ #60-SWHP
Suspended Water Heater Platform



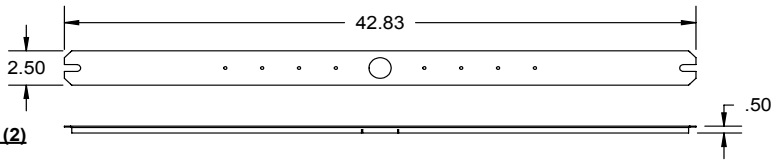
Pan Assy

ALL DIMENSIONS IN INCHES





Adapter Assy



Diagonal Braces (2)

The #60-SWHP Suspended Water Heater Platform is engineered to support water heaters up to 50 U.S. gallons, or other equipment, up to 750 pounds total weight. This time and labor savings tool is designed for the Professional Contractor. Design features requested by plumbers are incorporated into a professional platform and drain pan combination that can be suspended with 3/8" or 1/2" all thread rods. See Installation Instructions for detail.

Product Information:

- Material:
  Pan: 12 gage CRS, galvanized
  Corner Brackets: 14 gage CRS, galvanized
  Diagonal Braces: 16 gage CRS, galvanized
- Wide platform allows water heaters up to 28-1/2" diameter
- Watertight corners and sealed 1¼" PVC drain fittings eliminate need for additional drain pan
- Cross-braces two (2) included to capture water heater within the platform
- Static load rating 750 pounds with 2X safety factor (depending on structural anchorage)
- Includes PVC drain body 1¼" MIPT x 1¼" FS
- Galvanized steel construction
- Suspends with user supplied 3/8" or 1/2" threaded rod and hardware
- Four corner attachment points allows for seismic/sway bracing connection
- Patent pending

Product Submittal	
Job Name:	
Date:	
Part Number:	Qty:
Architect / Owner:	
Contractor:	
Notes:	

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spec_60-SWHP_RevC



2.16 HIGHLANDS BUILDING ROGERS

Datasheets

EWH-7

COMMERCIAL WATER HEATERS

Available in point-of-use, tall and short models, Lochinvar's commercial electric water heaters offer a wide range of capacities and a choice of voltages. This flexibility—combined with their Energy Saver design and durable construction—makes them ideal for many low-draw commercial and industrial applications.

LIGHT DUTY
ELECTRIC MODELS

STANDARD FEATURES

NON-SIMULTANEOUS OR SIMULTANEOUS WIRING - 30, 40 and 50 gallon models are factory wired for non-simultaneous operation, standard. 65, 80 and 120 gallon models are factory wired for simultaneous operation, standard. All Non-SIM and SIM models can be field converted.

GLASS–LINED STEEL TANK - The durable glass lining is fused to the tank at 1,600°F to assure lasting protection against rust and corrosion while providing clean, clear hot water. 300 psi test pressure; 150 psi working pressure.

NON-CFC FOAM INSULATION - A uniform coverage of thick closed-cell foam insulation minimizes standby losses and maximizes heat retention.

ADJUSTABLE THERMOSTATS - This accurate control provides an easy way to reset water temperature for best economy.

AUTOMATIC OVERHEAT PROTECTION - Provides automatic overheat safety control with manual reset high limit feature.

TANK SAVER ANODE - A large diameter, high capacity anode inhibits corrosion of the tank interior for long, trouble-free service.

SINGLE OR THREE PHASE WIRING - Wired for 3-phase operation standard. Field adjustable to 1-phase.

ASME TEMPERATURE & PRESSURE RELIEF VALVE - Factory installed for safety.

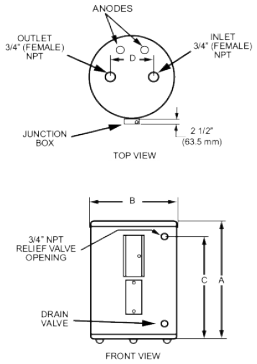
3-YEAR LIMITED TANK WARRANTY, 1-YEAR LIMITED PARTS WARRANTY – See warranty for details.



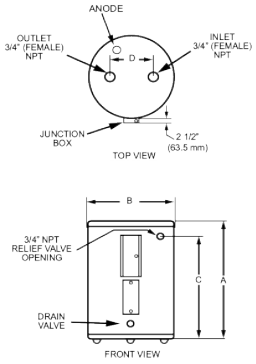
Lochinvar®
HIGH EFFICIENCY BOILERS & WATER HEATERS

DIMENSIONS & SPECIFICATIONS

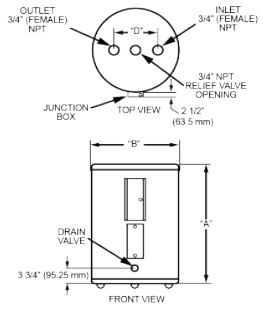
LDS-30 XK - LDS-50 XK



LDT-30 XK - LDT-50 XK



LDT-65 XR - LDT-120 XR

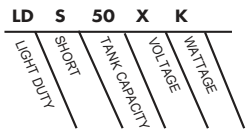


LDS & LDT Models		
T	208V	1 or 3 PH
P	240V	1 or 3 PH
W	277V	1 PH
X	480V	3 PH

Wattage Limits w/ Simultaneous Operation
208V - 10,000W (5,000W/5,000W)
240V - 10,000W (5,000W/5,000W)
277V - 12,200W (6,100W/6,100W)
480V - 12,200W (6,100W/6,100W)

Wattage Limits applicable to 30, 40 & 50 gal Short and 30, 40 & 50 gal Tall.

FOR EASE IN ORDERING BY MODEL NUMBER



This is a Short Commercial Electric 480 volt model with a tank capacity of 50 gallons. The upper and lower elements are 4500 watts.

LIGHT DUTY COMMERCIAL MODELS

Model Number	Nominal Cap.	Rated Cap.	UEF	A	B	C	D	Ship Wt.
Short Models / Dual Elements, Multiple Element Wattages, Non-Simultaneous								
LDS-30 XK	36	33	0.92	32"	24"	24"	8"	118
LDS-40 XK	38	35	0.92	32"	23"	24"	8"	118
LDS-50 XK	51	48	0.92	36"	26-1/2"	25"	8"	172
Tall Models / Dual Elements, Multiple Element Wattages, Non-Simultaneous								
LDT-30 XK	40	37	0.92	49-3/4"	20-1/2"	53-1/4"	8"	118
LDT-40 XK	50	46	0.92	59"	20-1/2"	51-1/4"	8"	125
LDT-50 XK	55	55	0.92	56-1/2"	24"	48-1/2"	8"	145
Tall Models / Dual Elements, 6100 Watt Elements Only, Simultaneous								
LDT-65 XR	66	60	N/A	60-3/4"	21-3/4"	-	8"	176
LDT-80 XR	80	76	N/A	59-3/8	24"	-	8"	211
LDT-120 XR	120	108	N/A	62-7/16"	29-3/8"	-	8"	326

***Notes**:Water connections 3/4" NPT on all models. Short and Tall models are factory wired for three phase service and are field converted to single phase.*

Models		T - 208V/ 1 or 3PH	P - 240V/ 1 or 3PH	W - 277V/ 1PH	X - 480V/ 3PH
LDS-30	Min Wattage	4500	4500	4500	4500
	Max Wattage	6000*	6000*	6000	6000
LDS-40	Min Wattage	4500	4500	4500	4500
	Max Wattage	6000*	6000*	6000	6000
LDS-50	Min Wattage	4000	4000	4000	4000
	Max Wattage	6000*	6000*	6000	6000
LDT-30	Min Wattage	4500	4500	4500	4500
	Max Wattage	6000*	6000*	6000	6000
LDT-40	Min Wattage	3000	3000	3000	3000
	Max Wattage	6000*	6000*	6000	6000
LDT-50	Min Wattage	2500	2500	2500	2500
	Max Wattage	6000*	6000*	6000	6000
LDT-65 to LDT-120	Single Wattage/ Simultaneous	N/A	6100	6100	6100

See "Element Availability Schedule" for letter codes and available voltage/wattage combinations. ** Simultaneous operation is not available for 6000 watt models.*

Element Availability Schedule Wattage	120V**	208V**	240V	277V	480V
Non-Simultaneous					
F-2500	Yes	Yes	Yes	Yes	Yes
G-3000	Yes	Yes	Yes	Yes	Yes
H-3500	N/A	Yes	Yes	N/A	N/A
J-4000	N/A	Yes	Yes	Yes	Yes
K-4500	N/A	Yes	Yes	Yes	Yes
M-5000	N/A	Yes	Yes	Yes	Yes
N-5500	N/A	Yes*	Yes*	N/A	N/A
P-6000	N/A	Yes*	Yes*	Yes	Yes
Simultaneous					
R-6100	N/A	N/A	Yes	Yes	Yes

* Simultaneous operation is not available for 5500 & 6000 watt models.

***Notes**:Max Wattage for EJ-006 is 3000W*
** Indicates Not Available for EJ-010 and EJ-015*
***LDT-65, 80 &120 not available in 120 & 208V*

Recovery Rate (GPH @ °F) Element	Wattage	40°F	60°F	80°F	100°F	120°F
Non-Simultaneous						
F	2500	26	17	13	10	8
G	3000	30	20	15	12	10
H	3500	36	34	18	14	12
J	4000	41	27	20	16	14
K	4500	46	30	23	18	15
M	5000	51	34	25	20	17
N	5500	56	38	28	22	19
P	6000	61	41	30	24	20
Simultaneous						
R-6100	12200	124	82	62	49	41

For technical information call 800-722-2101. Lochinvar, LLC reserves the right to make product changes or improvements without prior notice.

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P: 615.889.8900 / F: 615.547.1000
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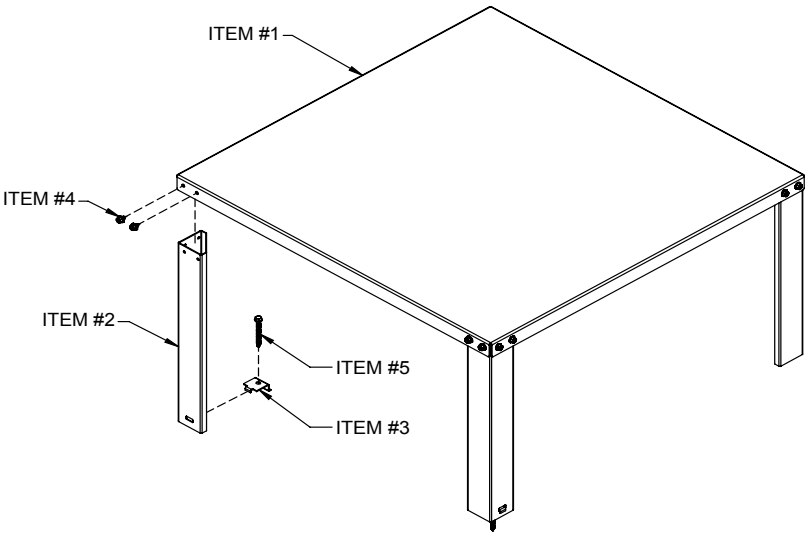
CLD-09 (Replaces CLD-08 8/22)

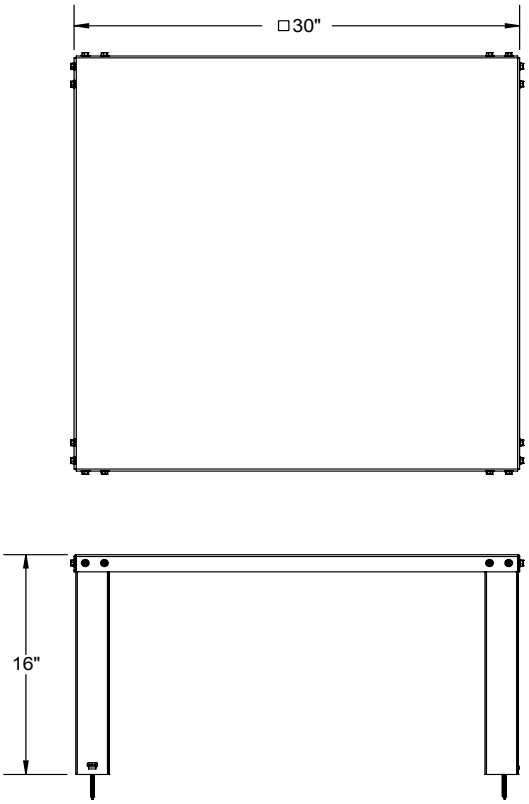
(Website Update 7/24) 9/22 - Printed in USA

Job Name : 2.16 HIGHLANDS BUILDING ROGERS
Manufacturer : HOLDRITE
Model Number : 40-S-30-U

Type :

PRODUCT SPECIFICATION DRAWING
QUICKSTAND™ 30" X 30" (Water Heater & Equipment Support)
#40-S-30-A (assembled) and #40-S-30-U (unassembled)





ALL DIMENSIONS IN INCHES

The QUICKSTAND™ #40-S-30- (A or U) stand safely elevates water heaters and other equipment above the floor (1,350 lbs rating).

Product Information:

- Material:
  Item #1: Top, 12 gage CRS, galvanized
  Item #2: Leg, 16 gage CRS, galvanized, 4 places
  Item #3: Safety Clip, 14 gage CRS, galvanized, 2 places
  Item #4: SMS, Phillips Hex Head Washer, w/Serrated Under Head, #1/4-14 X 1/2"L, 16 places
  Item #5: Lag Bolt, #1/4-10 X 2-1/2"L, self-drilling, 2 places
  (items #3 and #5 included with product)
- Engineered and lab tested to meet Uniform Plumbing Code (UPC) and International Plumbing Code (IPC) requirements, including elevation of water heater's ignition source 18" above the floor
- Holds up to 1,350 pounds (typical 100 to 120 U.S. gallons)
- QUICKSTAND™ weight 36 pounds without packaging
- Available in assembled and unassembled configurations

Product Submittal	
Job Name:	
Date:	
Part Number:	Qty:
Architect / Owner:	
Contractor:	
Notes:	

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spec_40-S-30_RevE

ALUMINUM WATER HEATER PANS TECHNICAL SPECIFICATION

Job Name _____ Item # _____
Location _____
Engineer _____ Contractor _____
PO # _____ Tag _____
Representative _____

SPECIFICATIONS

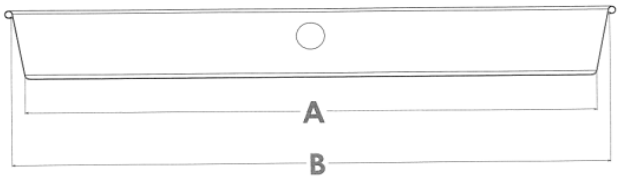
Oatey Aluminum Water Heater Pans can be installed under gas or electric water heaters to protect from water damage. Available with 1" CPVC, 1" PVC, 1.5" PVC (over 1" or inside 1.5" Schedule 40 PVC pipe), 1.5" PVC (over 1" or over 1.5" Schedule 40 PVC pipe) and without fitting or without fitting hole.



DESCRIPTION

All dimensions in inches

- Manufactured from 22 gauge Aluminum.
- Pre-cut side opening accommodates drain fitting.
- Meets requirements of Southern Building Code.
- Pan depth is minimum 2-1/2".



PRODUCT SELECTOR

WATER HEATER PANS WITH 1" CPVC FITTING (FITS OVER 1" CPVC PIPE)

✓	Product Number	Description	Qty	Inside Diameter (A)	Outside Diameter (B)
	34170	18" Aluminum Water Heater Pan – Bulk	6	18	19
	34171	20" Aluminum Water Heater Pan – Bulk	6	20	21
	34172	22" Aluminum Water Heater Pan – Bulk	6	22	23
	34173	24" Aluminum Water Heater Pan – Bulk	6	24	25
	34174	26" Aluminum Water Heater Pan – Bulk	6	26	27
	34176	28" Aluminum Water Heater Pan – Bulk	6	28	29
	34175	30" Aluminum Water Heater Pan – Bulk	6	30	31
	34193	32" Aluminum Water Heater Pan	6	32	33

Data is subject to manufacturing tolerances.

Access BIM/Revit content through www.oatey.com

Oatey Co. | 20600 Emerald Parkway, Cleveland, OH 44135 | P: 1.800.321.9532 | **Oatey.com**

LCS1303 10/20

ALUMINUM WATER HEATER PANS TECHNICAL SPECIFICATION

PRODUCT SELECTOR

✓	Product Number	Description	Qty	Inside Diameter (A)	Outside Diameter (B)
WATER HEATER PANS WITH 1" PVC FITTING (FITS OVER 1" AND INSIDE 1.5" SCHEDULE 40 PIPE)					
	34079	18" Aluminum Water Heater Pan – Bulk	6	18	19
	34151	20" Aluminum Water Heater Pan – Bulk	6	20	21
	34152	22" Aluminum Water Heater Pan – Bulk	6	22	23
	34153	24" Aluminum Water Heater Pan – Bulk	6	24	25
	34154	26" Aluminum Water Heater Pan – Bulk	6	26	27
	34156	28" Aluminum Water Heater Pan – Bulk	6	28	29
	34085	30" Aluminum Water Heater Pan – Bulk	6	30	31
	34191	32" Aluminum Water Heater Pan	6	32	33
WATER HEATER PANS WITH 1.5" PVC FITTING (FITS OVER 1" AND OVER 1.5" SCHEDULE 40 PIPE)					
	34081	20" Aluminum Water Heater Pan – Bulk	6	20	21
	34082	22" Aluminum Water Heater Pan – Bulk	6	22	23
	34083	24" Aluminum Water Heater Pan – Bulk	6	24	25
	34084	26" Aluminum Water Heater Pan – Bulk	6	26	27
	34103	28" Aluminum Water Heater Pan – Bulk	6	28	29
	34107	30" Aluminum Water Heater Pan	6	29	30
WATER HEATER PANS WITHOUT FITTING & WITHOUT HOLE					
	34090	18" Aluminum Water Heater Pan – Bulk	6	18	19
	34091	20" Aluminum Water Heater Pan – Bulk	6	20	21
	34092	22" Aluminum Water Heater Pan – Bulk	6	22	23
	34093	24" Aluminum Water Heater Pan – Bulk	6	24	25
	34094	26" Aluminum Water Heater Pan – Bulk	6	26	27
	34095	30" Aluminum Water Heater Pan – Bulk	6	30	31
WATER HEATER PAN ADAPTERS					
	34086	1" & 1-1/2" PVC Adapter (Fits over 1" and over 1.5" Schedule 40 pipe)	12		
	34088	1" & 1-1/2" PVC Adapter (Fits over 1" and inside 1.5" Schedule 40 pipe)	12		
	34089	1" CPVC Adapter (Fits over 1" CPVC pipe)	12		

Data is subject to manufacturing tolerances.

Access BIM/Revit content through www.oatey.com



2.16 HIGHLANDS BUILDING ROGERS

Datasheets

EWH-8

COMMERCIAL WATER HEATERS

Available in point-of-use, tall and short models, Lochinvar's commercial electric water heaters offer a wide range of capacities and a choice of voltages. This flexibility—combined with their Energy Saver design and durable construction—makes them ideal for many low-draw commercial and industrial applications.

LIGHT DUTY
ELECTRIC MODELS

STANDARD FEATURES

NON-SIMULTANEOUS OR SIMULTANEOUS WIRING - 30, 40 and 50 gallon models are factory wired for non-simultaneous operation, standard. 65, 80 and 120 gallon models are factory wired for simultaneous operation, standard. All Non-SIM and SIM models can be field converted.

GLASS–LINED STEEL TANK - The durable glass lining is fused to the tank at 1,600°F to assure lasting protection against rust and corrosion while providing clean, clear hot water. 300 psi test pressure; 150 psi working pressure.

NON-CFC FOAM INSULATION - A uniform coverage of thick closed-cell foam insulation minimizes standby losses and maximizes heat retention.

ADJUSTABLE THERMOSTATS - This accurate control provides an easy way to reset water temperature for best economy.

AUTOMATIC OVERHEAT PROTECTION - Provides automatic overheat safety control with manual reset high limit feature.

TANK SAVER ANODE - A large diameter, high capacity anode inhibits corrosion of the tank interior for long, trouble-free service.

SINGLE OR THREE PHASE WIRING - Wired for 3-phase operation standard. Field adjustable to 1-phase.

ASME TEMPERATURE & PRESSURE RELIEF VALVE - Factory installed for safety.

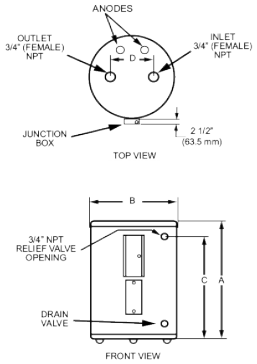
3-YEAR LIMITED TANK WARRANTY, 1-YEAR LIMITED PARTS WARRANTY – See warranty for details.



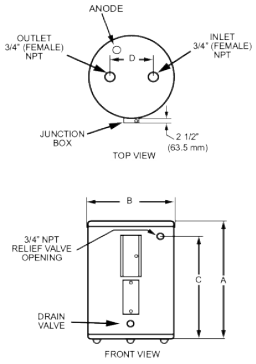
Lochinvar®
HIGH EFFICIENCY BOILERS & WATER HEATERS

DIMENSIONS & SPECIFICATIONS

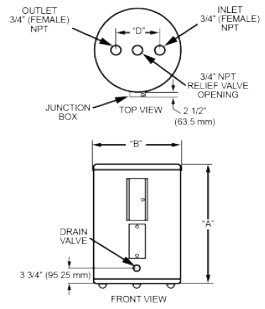
LDS-30 XK - LDS-50 XK



LDT-30 XK - LDT-50 XK



LDT-65 XR - LDT-120 XR

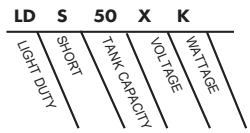


LDS & LDT Models		
T	208V	1 or 3 PH
P	240V	1 or 3 PH
W	277V	1 PH
X	480V	3 PH

Wattage Limits w/ Simultaneous Operation
208V - 10,000W (5,000W/5,000W)
240V - 10,000W (5,000W/5,000W)
277V - 12,200W (6,100W/6,100W)
480V - 12,200W (6,100W/6,100W)

Wattage Limits applicable to 30, 40 & 50 gal Short and 30, 40 & 50 gal Tall.

FOR EASE IN ORDERING BY MODEL NUMBER



This is a Short Commercial Electric 480 volt model with a tank capacity of 50 gallons. The upper and lower elements are 4500 watts.

LIGHT DUTY COMMERCIAL MODELS

Model Number	Nominal Cap.	Rated Cap.	UEF	A	B	C	D	Ship Wt.
Short Models / Dual Elements, Multiple Element Wattages, Non-Simultaneous								
LDS-30 XK	36	33	0.92	32"	24"	24"	8"	118
LDS-40 XK	38	35	0.92	32"	23"	24"	8"	118
LDS-50 XK	51	48	0.92	36"	26-1/2"	25"	8"	172
Tall Models / Dual Elements, Multiple Element Wattages, Non-Simultaneous								
LDT-30 XK	40	37	0.92	49-3/4"	20-1/2"	53-1/4"	8"	118
LDT-40 XK	50	46	0.92	59"	20-1/2"	51-1/4"	8"	125
LDT-50 XK	55	55	0.92	56-1/2"	24"	48-1/2"	8"	145
Tall Models / Dual Elements, 6100 Watt Elements Only, Simultaneous								
LDT-65 XR	66	60	N/A	60-3/4"	21-3/4"	-	8"	176
LDT-80 XR	80	76	N/A	59-3/8	24"	-	8"	211
LDT-120 XR	120	108	N/A	62-7/16"	29-3/8"	-	8"	326

***Notes**:Water connections 3/4" NPT on all models. Short and Tall models are factory wired for three phase service and are field converted to single phase.*

Models		T - 208V/ 1 or 3PH	P - 240V/ 1 or 3PH	W - 277V/ 1PH	X - 480V/ 3PH
LDS-30	Min Wattage	4500	4500	4500	4500
	Max Wattage	6000*	6000*	6000	6000
LDS-40	Min Wattage	4500	4500	4500	4500
	Max Wattage	6000*	6000*	6000	6000
LDS-50	Min Wattage	4000	4000	4000	4000
	Max Wattage	6000*	6000*	6000	6000
LDT-30	Min Wattage	4500	4500	4500	4500
	Max Wattage	6000*	6000*	6000	6000
LDT-40	Min Wattage	3000	3000	3000	3000
	Max Wattage	6000*	6000*	6000	6000
LDT-50	Min Wattage	2500	2500	2500	2500
	Max Wattage	6000*	6000*	6000	6000
LDT-65 to LDT-120	Single Wattage/ Simultaneous	N/A	6100	6100	6100

See "Element Availability Schedule" for letter codes and available voltage/wattage combinations. ** Simultaneous operation is not available for 6000 watt models.*

Element Availability Schedule Wattage	120V**	208V**	240V	277V	480V
Non-Simultaneous					
F-2500	Yes	Yes	Yes	Yes	Yes
G-3000	Yes	Yes	Yes	Yes	Yes
H-3500	N/A	Yes	Yes	N/A	N/A
J-4000	N/A	Yes	Yes	Yes	Yes
K-4500	N/A	Yes	Yes	Yes	Yes
M-5000	N/A	Yes	Yes	Yes	Yes
N-5500	N/A	Yes*	Yes*	N/A	N/A
P-6000	N/A	Yes*	Yes*	Yes	Yes
Simultaneous					
R-6100	N/A	N/A	Yes	Yes	Yes

* Simultaneous operation is not available for 5500 & 6000 watt models.

***Notes**:Max Wattage for EJ-006 is 3000W*
** Indicates Not Available for EJ-010 and EJ-015*
***LDT-65, 80 &120 not available in 120 & 208V*

Recovery Rate (GPH @ °F) Element	Wattage	40°F	60°F	80°F	100°F	120°F
Non-Simultaneous						
F	2500	26	17	13	10	8
G	3000	30	20	15	12	10
H	3500	36	34	18	14	12
J	4000	41	27	20	16	14
K	4500	46	30	23	18	15
M	5000	51	34	25	20	17
N	5500	56	38	28	22	19
P	6000	61	41	30	24	20
Simultaneous						
R-6100	12200	124	82	62	49	41

For technical information call 800-722-2101. Lochinvar, LLC reserves the right to make product changes or improvements without prior notice.

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Lochinvar, LLC
300 Maddox Simpson Parkway
Lebanon, Tennessee 37090
P: 615.889.8900 / F: 615.547.1000
Lochinvar.com

CLD-09 (Replaces CLD-08 8/22)

(Website Update 7/24) 9/22 - Printed in USA

Date/Rev: 10-03-23 / Rev H / Sht 1 of 1

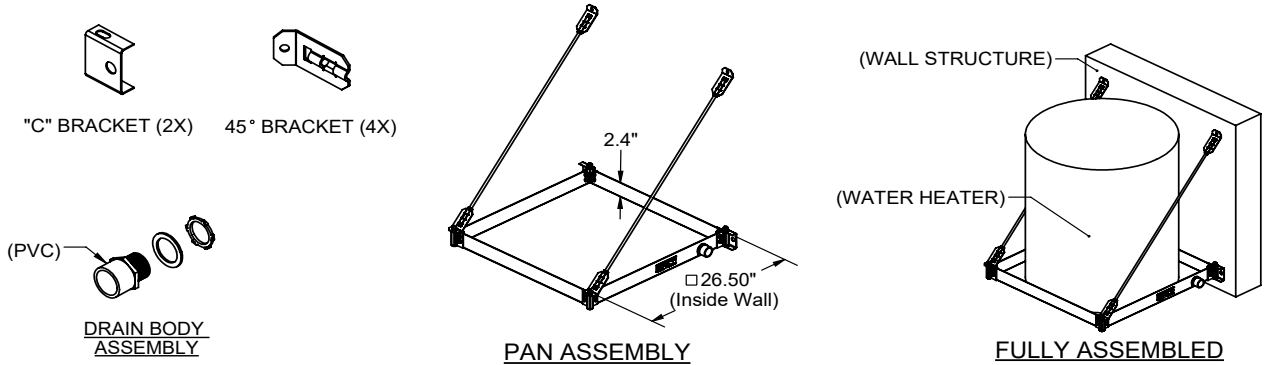
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HoldRite QUICK STAND™ #50-SWHP-W Wall Mounted Equipment Platform Product Specification Drawing

The #50-SWHP-W Wall Mounted Equipment Platform is engineered to support water heaters up to 50 U.S. gallons (or other equipment up to 600 pounds total weight) mounted to a wall. This item also serves as a drain pan. See Installation Instructions for detail. See Installation Instructions for detail.

Product Information:

- Material:
  Pan: 12 gage CRS, galvanized
  Corner Brackets (4): 14 gage CRS, galvanized
  C-Brackets (2): 16 gage CRS, galvanized
  45˚ Brackets (4): 12 gage, CRS, galvanized
  Threaded Rod (2): Low carbon steel, zinc plated, 3/8" x 37.10" long
- Wide platform allows water heaters up to 26-1/2" diameter
- Watertight corners and drain fittings eliminate need for additional drain pan
- Static load rating 600 pounds with 2X safety factor (depending on structural anchorage)
- Professional Engineer reviewed documentation available
- Includes PVC drain body 1" MIPT x 1" FS
- Galvanized steel construction
- Suspends with user supplied 3/8" hardware to mount to wall, 4 places
- Installation instructions for mounting to concrete or framed wall structure available



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Canadian Contact 1.888.820.0120 • canadasales@rwc.com • holdrite.com

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2.16 HIGHLANDS BUILDING ROGERS

Datasheets

EWH-9

COMMERCIAL WATER HEATERS

Available in point-of-use, tall and short models, Lochinvar's commercial electric water heaters offer a wide range of capacities and a choice of voltages. This flexibility—combined with their Energy Saver design and durable construction—makes them ideal for many low-draw commercial and industrial applications.

LIGHT DUTY
ELECTRIC MODELS

STANDARD FEATURES

NON-SIMULTANEOUS OR SIMULTANEOUS WIRING - 30, 40 and 50 gallon models are factory wired for non-simultaneous operation, standard. 65, 80 and 120 gallon models are factory wired for simultaneous operation, standard. All Non-SIM and SIM models can be field converted.

GLASS–LINED STEEL TANK - The durable glass lining is fused to the tank at 1,600°F to assure lasting protection against rust and corrosion while providing clean, clear hot water. 300 psi test pressure; 150 psi working pressure.

NON-CFC FOAM INSULATION - A uniform coverage of thick closed-cell foam insulation minimizes standby losses and maximizes heat retention.

ADJUSTABLE THERMOSTATS - This accurate control provides an easy way to reset water temperature for best economy.

AUTOMATIC OVERHEAT PROTECTION - Provides automatic overheat safety control with manual reset high limit feature.

TANK SAVER ANODE - A large diameter, high capacity anode inhibits corrosion of the tank interior for long, trouble-free service.

SINGLE OR THREE PHASE WIRING - Wired for 3-phase operation standard. Field adjustable to 1-phase.

ASME TEMPERATURE & PRESSURE RELIEF VALVE - Factory installed for safety.

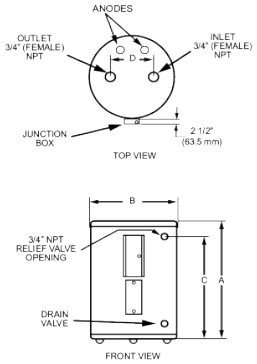
3-YEAR LIMITED TANK WARRANTY, 1-YEAR LIMITED PARTS WARRANTY – See warranty for details.



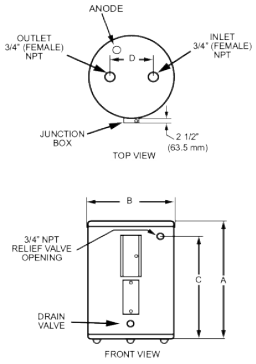
Lochinvar®
HIGH EFFICIENCY BOILERS & WATER HEATERS

DIMENSIONS & SPECIFICATIONS

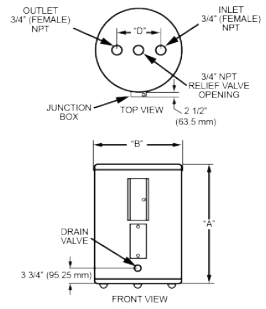
LDS-30 XK - LDS-50 XK



LDT-30 XK - LDT-50 XK



LDT-65 XR - LDT-120 XR

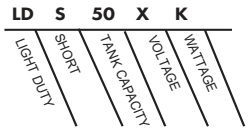


LDS & LDT Models		
T	208V	1 or 3 PH
P	240V	1 or 3 PH
W	277V	1 PH
X	480V	3 PH

Wattage Limits w/ Simultaneous Operation
208V - 10,000W (5,000W/5,000W)
240V - 10,000W (5,000W/5,000W)
277V - 12,200W (6,100W/6,100W)
480V - 12,200W (6,100W/6,100W)

Wattage Limits applicable to 30, 40 & 50 gal Short and 30, 40 & 50 gal Tall.

FOR EASE IN ORDERING BY MODEL NUMBER



This is a Short Commercial Electric 480 volt model with a tank capacity of 50 gallons. The upper and lower elements are 4500 watts.

LIGHT DUTY COMMERCIAL MODELS

Model Number	Nominal Cap.	Rated Cap.	UEF	A	B	C	D	Ship Wt.
Short Models / Dual Elements, Multiple Element Wattages, Non-Simultaneous								
LDS-30 XK	36	33	0.92	32"	24"	24"	8"	118
LDS-40 XK	38	35	0.92	32"	23"	24"	8"	118
LDS-50 XK	51	48	0.92	36"	26-1/2"	25"	8"	172
Tall Models / Dual Elements, Multiple Element Wattages, Non-Simultaneous								
LDT-30 XK	40	37	0.92	49-3/4"	20-1/2"	53-1/4"	8"	118
LDT-40 XK	50	46	0.92	59"	20-1/2"	51-1/4"	8"	125
LDT-50 XK	55	55	0.92	56-1/2"	24"	48-1/2"	8"	145
Tall Models / Dual Elements, 6100 Watt Elements Only, Simultaneous								
LDT-65 XR	66	60	N/A	60-3/4"	21-3/4"	-	8"	176
LDT-80 XR	80	76	N/A	59-3/8	24"	-	8"	211
LDT-120 XR	120	108	N/A	62-7/16"	29-3/8"	-	8"	326

***Notes**:Water connections 3/4" NPT on all models. Short and Tall models are factory wired for three phase service and are field converted to single phase.*

Models		T - 208V/ 1 or 3PH	P - 240V/ 1 or 3PH	W - 277V/ 1PH	X - 480V/ 3PH
LDS-30	Min Wattage	4500	4500	4500	4500
	Max Wattage	6000*	6000*	6000	6000
LDS-40	Min Wattage	4500	4500	4500	4500
	Max Wattage	6000*	6000*	6000	6000
LDS-50	Min Wattage	4000	4000	4000	4000
	Max Wattage	6000*	6000*	6000	6000
LDT-30	Min Wattage	4500	4500	4500	4500
	Max Wattage	6000*	6000*	6000	6000
LDT-40	Min Wattage	3000	3000	3000	3000
	Max Wattage	6000*	6000*	6000	6000
LDT-50	Min Wattage	2500	2500	2500	2500
	Max Wattage	6000*	6000*	6000	6000
LDT-65 to LDT-120	Single Wattage/ Simultaneous	N/A	6100	6100	6100

See "Element Availability Schedule" for letter codes and available voltage/wattage combinations. ** Simultaneous operation is not available for 6000 watt models.*

Element Availability Schedule Wattage	120V**	208V**	240V	277V	480V
Non-Simultaneous					
F-2500	Yes	Yes	Yes	Yes	Yes
G-3000	Yes	Yes	Yes	Yes	Yes
H-3500	N/A	Yes	Yes	N/A	N/A
J-4000	N/A	Yes	Yes	Yes	Yes
K-4500	N/A	Yes	Yes	Yes	Yes
M-5000	N/A	Yes	Yes	Yes	Yes
N-5500	N/A	Yes*	Yes*	N/A	N/A
P-6000	N/A	Yes*	Yes*	Yes	Yes
Simultaneous					
R-6100	N/A	N/A	Yes	Yes	Yes

* Simultaneous operation is not available for 5500 & 6000 watt models.

***Notes**:Max Wattage for EJ-006 is 3000W*
** Indicates Not Available for EJ-010 and EJ-015*
***LDT-65, 80 &120 not available in 120 & 208V*

Recovery Rate (GPH @ °F) Element	Wattage	40°F	60°F	80°F	100°F	120°F
Non-Simultaneous						
F	2500	26	17	13	10	8
G	3000	30	20	15	12	10
H	3500	36	34	18	14	12
J	4000	41	27	20	16	14
K	4500	46	30	23	18	15
M	5000	51	34	25	20	17
N	5500	56	38	28	22	19
P	6000	61	41	30	24	20
Simultaneous						
R-6100	12200	124	82	62	49	41

For technical information call 800-722-2101. Lochinvar, LLC reserves the right to make product changes or improvements without prior notice.

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Lochinvar.com

CLD-09 (Replaces CLD-08 8/22)
(Website Update 7/24) 9/22 - Printed in USA

Date/Rev: 10-03-23 / Rev H / Sht 1 of 1

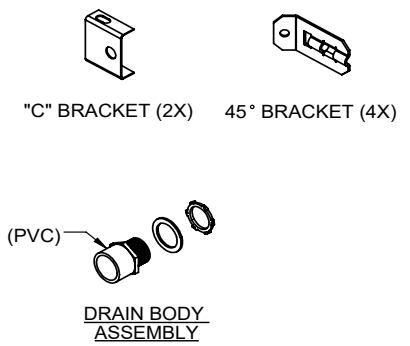
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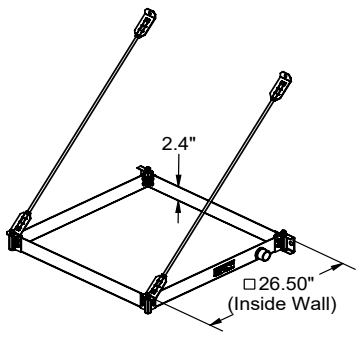
HoldRite QUICK STAND™ #50-SWHP-W Wall Mounted Equipment Platform Product Specification Drawing

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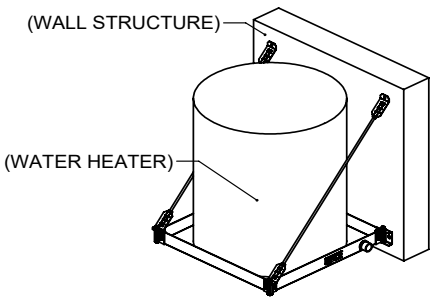
Product Information:

- Material:
  Pan: 12 gage CRS, galvanized
  Corner Brackets (4): 14 gage CRS, galvanized
  C-Brackets (2): 16 gage CRS, galvanized
  45˚ Brackets (4): 12 gage, CRS, galvanized
  Threaded Rod (2): Low carbon steel, zinc plated, 3/8" x 37.10" long
- Wide platform allows water heaters up to 26-1/2" diameter
- Watertight corners and drain fittings eliminate need for additional drain pan
- Static load rating 600 pounds with 2X safety factor (depending on structural anchorage)
- Professional Engineer reviewed documentation available
- Includes PVC drain body 1" MIPT x 1" FS
- Galvanized steel construction
- Suspends with user supplied 3/8" hardware to mount to wall, 4 places
- Installation instructions for mounting to concrete or framed wall structure available





PAN ASSEMBLY



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Canadian Contact 1.888.820.0120 • canadasales@rwc.com • holdrite.com

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2.16 HIGHLANDS BUILDING ROGERS

Datasheets

EWH-10

COMMERCIAL WATER HEATERS

Available in point-of-use, tall and short models, Lochinvar's commercial electric water heaters offer a wide range of capacities and a choice of voltages. This flexibility—combined with their Energy Saver design and durable construction—makes them ideal for many low-draw commercial and industrial applications.

LIGHT DUTY
ELECTRIC MODELS

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GLASS–LINED STEEL TANK - The durable glass lining is fused to the tank at 1,600°F to assure lasting protection against rust and corrosion while providing clean, clear hot water. 300 psi test pressure; 150 psi working pressure.

NON-CFC FOAM INSULATION - A uniform coverage of thick closed-cell foam insulation minimizes standby losses and maximizes heat retention.

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TANK SAVER ANODE - A large diameter, high capacity anode inhibits corrosion of the tank interior for long, trouble-free service.

SINGLE OR THREE PHASE WIRING - Wired for 3-phase operation standard. Field adjustable to 1-phase.

ASME TEMPERATURE & PRESSURE RELIEF VALVE - Factory installed for safety.

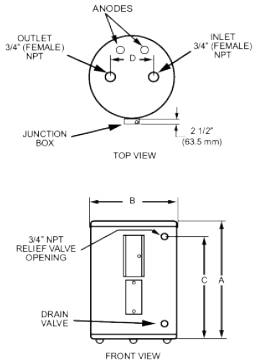
3-YEAR LIMITED TANK WARRANTY, 1-YEAR LIMITED PARTS WARRANTY – See warranty for details.



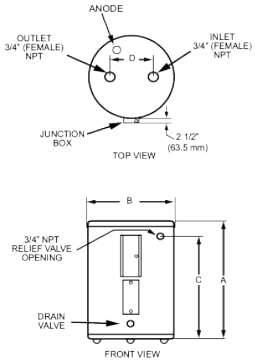
Lochinvar®
HIGH EFFICIENCY BOILERS & WATER HEATERS

DIMENSIONS & SPECIFICATIONS

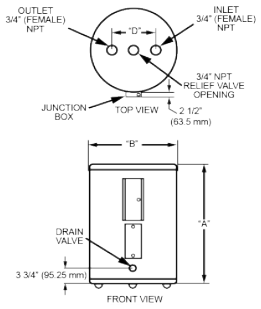
LDS-30 XK - LDS-50 XK



LDT-30 XK - LDT-50 XK



LDT-65 XR - LDT-120 XR

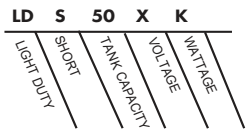


LDS & LDT Models		
T	208V	1 or 3 PH
P	240V	1 or 3 PH
W	277V	1 PH
X	480V	3 PH

Wattage Limits w/ Simultaneous Operation
208V - 10,000W (5,000W/5,000W)
240V - 10,000W (5,000W/5,000W)
277V - 12,200W (6,100W/6,100W)
480V - 12,200W (6,100W/6,100W)

Wattage Limits applicable to 30, 40 & 50 gal Short and 30, 40 & 50 gal Tall.

FOR EASE IN ORDERING BY MODEL NUMBER



This is a Short Commercial Electric 480 volt model with a tank capacity of 50 gallons. The upper and lower elements are 4500 watts.

LIGHT DUTY COMMERCIAL MODELS

Model Number	Nominal Cap.	Rated Cap.	UEF	A	B	C	D	Ship Wt.
Short Models / Dual Elements, Multiple Element Wattages, Non-Simultaneous								
LDS-30 XK	36	33	0.92	32"	24"	24"	8"	118
LDS-40 XK	38	35	0.92	32"	23"	24"	8"	118
LDS-50 XK	51	48	0.92	36"	26-1/2"	25"	8"	172
Tall Models / Dual Elements, Multiple Element Wattages, Non-Simultaneous								
LDT-30 XK	40	37	0.92	49-3/4"	20-1/2"	53-1/4"	8"	118
LDT-40 XK	50	46	0.92	59"	20-1/2"	51-1/4"	8"	125
LDT-50 XK	55	55	0.92	56-1/2"	24"	48-1/2"	8"	145
Tall Models / Dual Elements, 6100 Watt Elements Only, Simultaneous								
LDT-65 XR	66	60	N/A	60-3/4"	21-3/4"	-	8"	176
LDT-80 XR	80	76	N/A	59-3/8	24"	-	8"	211
LDT-120 XR	120	108	N/A	62-7/16"	29-3/8"	-	8"	326

***Notes**:Water connections 3/4" NPT on all models. Short and Tall models are factory wired for three phase service and are field converted to single phase.*

Models		T - 208V/ 1 or 3PH	P - 240V/ 1 or 3PH	W - 277V/ 1PH	X - 480V/ 3PH
LDS-30	Min Wattage	4500	4500	4500	4500
	Max Wattage	6000*	6000*	6000	6000
LDS-40	Min Wattage	4500	4500	4500	4500
	Max Wattage	6000*	6000*	6000	6000
LDS-50	Min Wattage	4000	4000	4000	4000
	Max Wattage	6000*	6000*	6000	6000
LDT-30	Min Wattage	4500	4500	4500	4500
	Max Wattage	6000*	6000*	6000	6000
LDT-40	Min Wattage	3000	3000	3000	3000
	Max Wattage	6000*	6000*	6000	6000
LDT-50	Min Wattage	2500	2500	2500	2500
	Max Wattage	6000*	6000*	6000	6000
LDT-65 to LDT-120	Single Wattage/ Simultaneous	N/A	6100	6100	6100

See "Element Availability Schedule" for letter codes and available voltage/wattage combinations. ** Simultaneous operation is not available for 6000 watt models.*

Element Availability Schedule Wattage	120V**	208V**	240V	277V	480V
Non-Simultaneous					
F-2500	Yes	Yes	Yes	Yes	Yes
G-3000	Yes	Yes	Yes	Yes	Yes
H-3500	N/A	Yes	Yes	N/A	N/A
J-4000	N/A	Yes	Yes	Yes	Yes
K-4500	N/A	Yes	Yes	Yes	Yes
M-5000	N/A	Yes	Yes	Yes	Yes
N-5500	N/A	Yes*	Yes*	N/A	N/A
P-6000	N/A	Yes*	Yes*	Yes	Yes
Simultaneous					
R-6100	N/A	N/A	Yes	Yes	Yes

* Simultaneous operation is not available for 5500 & 6000 watt models.

***Notes**:Max Wattage for EJ-006 is 3000W*
** Indicates Not Available for EJ-010 and EJ-015*
***LDT-65, 80 &120 not available in 120 & 208V*

Recovery Rate (GPH @ °F) Element	Wattage	40°F	60°F	80°F	100°F	120°F
Non-Simultaneous						
F	2500	26	17	13	10	8
G	3000	30	20	15	12	10
H	3500	36	34	18	14	12
J	4000	41	27	20	16	14
K	4500	46	30	23	18	15
M	5000	51	34	25	20	17
N	5500	56	38	28	22	19
P	6000	61	41	30	24	20
Simultaneous						
R-6100	12200	124	82	62	49	41

For technical information call 800-722-2101. Lochinvar, LLC reserves the right to make product changes or improvements without prior notice.

Lochinvar®
Lochinvar, LLC
300 Maddox Simpson Parkway
Lebanon, Tennessee 37090
P: 615.889.8900 / F: 615.547.1000
Lochinvar.com

CLD-09 (Replaces CLD-08 8/22)
(Website Update 7/24) 9/22 - Printed in USA

Date/Rev: 10-03-23 / Rev H / Sht 1 of 1

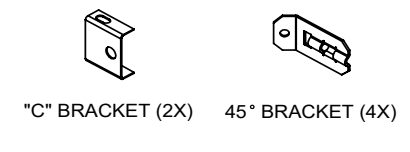
Product Submittal	
Name	
Date	
Architect/Owner	
Contractor	
Tag	
Notes	

HoldRite QUICK STAND™ #50-SWHP-W Wall Mounted Equipment Platform Product Specification Drawing

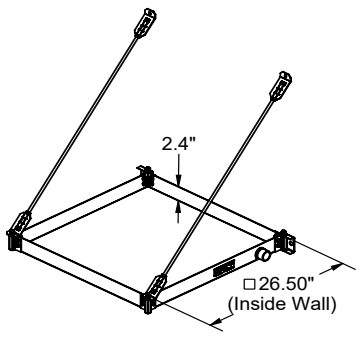
The #50-SWHP-W Wall Mounted Equipment Platform is engineered to support water heaters up to 50 U.S. gallons (or other equipment up to 600 pounds total weight) mounted to a wall. This item also serves as a drain pan. See Installation Instructions for detail.
See Installation Instructions for detail.

Product Information:

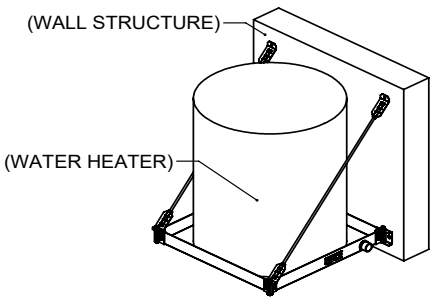
- Material:
  Pan: 12 gage CRS, galvanized
  Corner Brackets (4): 14 gage CRS, galvanized
  C-Brackets (2): 16 gage CRS, galvanized
  45˚ Brackets (4): 12 gage, CRS, galvanized
  Threaded Rod (2): Low carbon steel, zinc plated, 3/8" x 37.10" long
- Wide platform allows water heaters up to 26-1/2" diameter
- Watertight corners and drain fittings eliminate need for additional drain pan
- Static load rating 600 pounds with 2X safety factor (depending on structural anchorage)
- Professional Engineer reviewed documentation available
- Includes PVC drain body 1" MIPT x 1" FS
- Galvanized steel construction
- Suspends with user supplied 3/8" hardware to mount to wall, 4 places
- Installation instructions for mounting to concrete or framed wall structure available



DRAIN BODY ASSEMBLY



PAN ASSEMBLY



FULLY ASSEMBLED

US Contact 1.877.700.4242 • sales@holdrite.com • holdrite.com
Canadian Contact 1.888.820.0120 • canadasales@rwc.com • holdrite.com

AN RWC BRAND

SUBMITTAL COMMENT SHEET

Project: 1763 - Highlands Building at Pinnacle Hills

Submittal
Spec: 22 40 00-01
Title: Plumbing Fixtures

General Notes by Clark:

☐ APPROVED ☑ REVIEWED
☐ APPROVED AS NOTED ☐ REJECTED
☐ REVISE & RESUBMIT

THIS SUBMITTAL HAS BEEN REVIEWED FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS. APPROVAL DOES NOT RELIEVE THE SUBCONTRACTOR/SUPPLIER OF THE RESPONSIBILITY FOR CONFORMANCE TO THE QUALITY STANDARDS AS SET FORTH IN THE CONTRACT DOCUMENTS. NOR DOES IT RELIEVE THE RESPONSIBILITY FOR FIELD VERIFICATION OF ALL CONDITIONS RELATING TO THIS CONTRACT.

OK'D BY: BA DATE: 07/21/26

CLARK CONTRACTORS

COMFORT SYSTEMS USA

Quality People. Building Solutions.

Comfort Systems USA (Arkansas), Inc.
P.O. Box 16620
Little Rock, AR 72231
Phone 501-834-3320
Fax 501-834-5416

Date:	07/09/2026
Return Request:	07/30/2026
Project:	Highlands Building at Pinnacle Hills
Supplier:	Comfort Systems USA
Manufacturer:	Various
Submittal:	Plumbing Fixtures
Submittal Number:	22 40 00-01
Drawing # and Installation:	Plumbing

ARCHITECT
Crafton Tull
Fayetteville, Ar.

ENGINEER
IMEG

GENERAL CONTRACTOR
Clark Contractors
Rogers, Ar.

MECHANICAL SUBCONTRACTOR
Comfort Systems USA (Arkansas), Inc.
116 Commercial Ave.
Lowell, AR 72745
(479) 770.8992

NOTES:

CSUSA PROJECT NO.
26-5034
jzuber@comfortar.com

2.16 HIGHLANDS BUILDING ROGERS

Notes Summary



2.16 HIGHLANDS BUILDING ROGERS

Datasheets

EWC-1

Job Name : 2.16 HIGHLANDS BUILDING ROGERS

Manufacturer : ELKAY

Model Number : LZSTL8WSSP

Type :

In lieu of the dual-level drinking fountain/bottle-filling stations noted in the "FIXTURE SCHEDULE" on P-600, EWC-1, "LZSTL8WSSP", provide the attached "LZSTL8WSBPRO-2FL10", black stainless, with two (2) ultra-capacity filters and all optional accessories required for a complete installation. Note: Existing plumbing and electrical design will not require revisions to accommodate new model; however, the location of the duplex receptacle to provide power for the unit will need to be coordinated to be hidden within the housing. See attachd Cut Sheet.

ELKAY

Model LZSTL8WSSP

Enhanced Bottle Filler & Bi-Level ADA Cooler Refrigerated Stainless High Capacity Lead Reducing Drop Down Wrapper

TAG_____

PRODUCT SPECIFICATIONS

Enhanced Bottle Filler & Bi-Level ADA Cooler Refrigerated Stainless High Capacity Lead Reducing Drop Down Wrapper. Chilling Capacity of 8.0 GPH (gallons per hour) of 50° F drinking water, based on 80° F inlet water and 90° F ambient, per ASHRAE 18 testing. Features shall include Antimicrobial*, Automatic Filter Status Reset, Energy Savings, Filtered, Green Ticker™, Hands Free, Laminar Flow, Real Drain, Visual Filter Monitor, Quick Filter Change, Alcove Light. Furnished with Flexi-Guard ® Safety Bubbler. Electronic Bottle Filler Sensor with Electronic Front and Side Bubbler Pushbar activation. Product shall be Wall Mount (On Wall), for Indoor applications, serving 2 station(s). Unit shall be certified to UL 399 and CAN/CSA C22.2 No. 120.

Special Features:	Antimicrobial, Automatic Filter Status Reset, Energy Savings, Filtered, Green Ticker™, Hands Free, Laminar Flow, Real Drain, Visual Filter Monitor, Quick Filter Change, Alcove Light
Finish:	Stainless Steel (S)
Power:	5V/60Hz
Bubbler Style:	Flexi-Guard ® Safety Bubbler
Activation by:	Electronic Bottle Filler Sensor with Electronic Front and Side Bubbler Pushbar
Mounting Type:	Wall Mount (On Wall)
Chilling Capacity⁺:	8.0 GPH
Full Load Amps	5
Rated Watts:	370
Dimensions (L x W x H):	36-3/4" x 19" x 39-
Approx. Shipping Weight:	104 lbs.
Installation Location:	Indoor
No. of Stations Served:	2
⁺Based on 80° F inlet water & 90° F ambient air temp for 50° F ed drinking water.	

Special Note: Requires VERSATILEBFKIT accessory to move t bottle filler to the left side. Retrofit accessory, plumbSMART Ga and Account required for cloud connection.

COOLING SYSTEM

- Compressor: Hermetically-sealed, reciprocating type, sin phase. Sealed-in lifetime lubrication.
- Condenser: Fan cooled, copper tube with aluminu . Fan motor is permanently lubricated.
- Cooling Unit: Combination tube-tank type. Co ous copper tubing with is fully insulated with EPS foam that m UL requirements for self-extinguishing material.
- Refrigerant Control: Refrigerant R-13 controlled by accurately calibrated capillary tube
- Temperature Control: Easily ac le enclosed adjustable thermostat is factory preset. Requires n stment other than for altitude requirements.

PART:_____QTY: _____

PROJECT:_____

CONTACT:_____

DATE:_____

NOTES:_____APP

ROVAL:_____



Additional Finishes: Arcti te (A)
Mi t Black (M)

Included with Product: ttle Filler, Water Cooler, Filter

Ships in one box.

A Century of Traditi d Quality.
For more than 100 y Elkay has been making innovativ ucts and providing exceptional cu r care. We take pride in offering pl g products that make life easier re change and leave the world a r place.

PR UCT COMPLIANCE

A & ICC A117.1
ASME A112.19.3/CSA B45.4
CAN/CSA C22.2 No. 120
FCC & ISED
GreenSpec®
NSF/ANSI 42, 53, 61 (Q≤1), 372 (lead free), & 401
L 399

This Zurn product has a certified Environmental Product Declaration (EPD) that complies with independently verified life cycle assessment (LCA). Visit Product Declarations a rtifications for more information.

Compli h ADA & ICC A117.1 accessibility requirements when installed according e requirements outlined in these standards. Installation may require add l components and/or construction features to be fully compliant. Co the local Authority Having Jurisdiction if necessary.
Installation Instructio DF) - 2000001213

5 Year Limited Warranty the refrigeration system of the unit. Electrical components and r system are warranted for 12 months from date of installation. **Wa y pertains to drinking water applications only. Non-drinki ater applications are not covered under warranty.**

Warranty (PDF)

In keeping with our policy of continuing product improvement, Elkay reserves the right to change product specifications without notice. Please visit elkay.com for the most current version of Elkay product specification sheets. This specification describes an Elkay product with design, quality, and functional benefits to the user. When making a comparison of other producers' offerings, be certain these features are not overlooked.

Job Name : 2.16 HIGHLANDS BUILDING ROGERS
Manufacturer : ELKAY
Model Number : LZSTL8WSSP

Type :

In lieu of the dual-level drinking fountain/bottle-filling stations noted in the "FIXTURE SCHEDULE" on P-600, EWC-1, "LZSTL8WSSP", provide the attached "LZSTL8WSBPRO-2FL10", black stainless, with two (2) ultra-capacity filters and all optional accessories required for a complete installation. Note: Existing plumbing and electrical design will not require revisions to accommodate new model; however, the location of the duplex receptacle to provide power for the unit will need to be coordinated to be hidden within the housing. See attachd Cut Sheet.

ELKAY

~~Model LZSTL8WSSP~~

Enhanced Bottle Filler & Bi-Level ADA Cooler Refrigerated Stainless High Capacity Lead Reducing Drop Down Wrapper

TAG_____

Features			
•	Drop-down wrapper provides easy access to filter from front and side of cooler for convenient and efficient filter change in under a minute	•	The included 6,000-gallon filter is tested and certified to NSF 42, 53 and 401 for lead, microplastics, Class 1 particulate, chlorine taste and odor reduction
•	Touchless, sensor activation (bottle filler) designed for easy use; easy-to-operate push-bar activation (bubbler)	•	Hermetically sealed refrigeration system provides chilled water
•	Fill rate is 1.1 GPM. Laminar flow provides clean fill with minimal splash. Real drain system eliminates standing water	•	Visual filter monitor with LED filter status indicator for when filter change is necessary
•	System automatically recognizes new filter and updates LED lights back to blue	•	Green Ticker™ informs user of number of 20 oz. plastic water bottles saved from waste
•	Key plastic components are manufactured with silver ion antimicrobial agent helping to pr[illegible]e clean, stain- and odor-free surfaces	•	Low-energy LED light encourages use, assists with filling dark bottles and illuminates in dark hallways
•	One-box packaging s[illegible]e cooler and bottle filler ship together	•	Connected-ready; use our retrofit accessory t[illegible]t up wireless monitoring, track water usage and more. A[illegible]ssory sold separately
			*Antimicrobial claims are in reference to[illegible]ponents manufactured antimicrobial agents, helping to provi[illegible]ean, stain- and odor-free surfaces.

Optional Accessories		
51600C	WaterSentry® Le[illegible] Microplastics NSF/ANSI Certified 6000 Gal 12 M[illegible]n Filter Spec Sheet (PDF)	
LKAPREZL	Cane Apron for EZ Gray Spec Sheet (PDF)	
STLBFUP	Universal Back Panel Assembly Kit for P[illegible]l Coolers with Bottle Filler Spec Sheet (PDF)	
MLP200	In-wall Carrier for Bi-leve[illegible]-wall Bottle Fillers Coo[illegible]& Fountains Spec Sheet (PDF)	
PLZSRK-W1	Connecte[illegible]trofit Kit with Endpoint Board for Enhanced Filtra[illegible]Bottle Filling Stations Spe[illegible]et (PDF)	
VERSATILEBFKIT	Cable Extension for Versatile BF Spec Sheet (PDF)	

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Job Name : 2.16 HIGHLANDS BUILDING ROGERS
Manufacturer : ELKAY
Model Number : LZSTL8WSSP

Type :

In lieu of the dual-level drinking fountain/bottle-filling stations noted in the "FIXTURE SCHEDULE" on P-600, EWC-1, "LZSTL8WSSP", provide the attached "LZSTL8WSBPRO-2FL10", black stainless, with two (2) ultra-capacity filters and all optional accessories required for a complete installation. Note: Existing plumbing and electrical design will not require revisions to accommodate new model; however, the location of the duplex receptacle to provide power for the unit will need to be coordinated to be hidden within the housing. See attachd Cut Sheet.

ELKAY

Model ~~LZSTL8WSSP~~

Enhanced Bottle Filler & Bi-Level ADA Cooler Refrigerated
Stainless High Capacity Lead Reducing Drop Down Wrapper

TAG_____

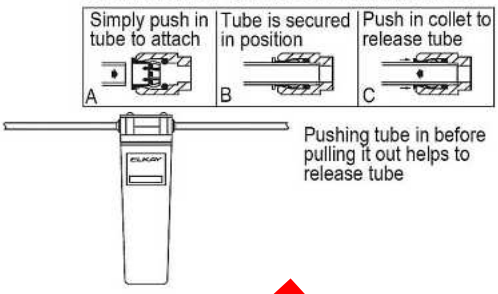
IMPORTANT!
INSTALLER PLEASE NOTE :

This water cooler has been designed and built to provide water to the user which has not been altered by materials in the cooler waterways. The grounding of electrical equipment such as telephone, computer, etc. to water lines is a common procedure. The grounding may be in the building but may also occur away from the building. This grounding can cause electrical feedback into a water cooler creating an electrolysis which creates a metallic taste or causes an increase in the metal content of the water. This condition is avoidable by installing the cooler using the proper materials as shown below.

NOTICE

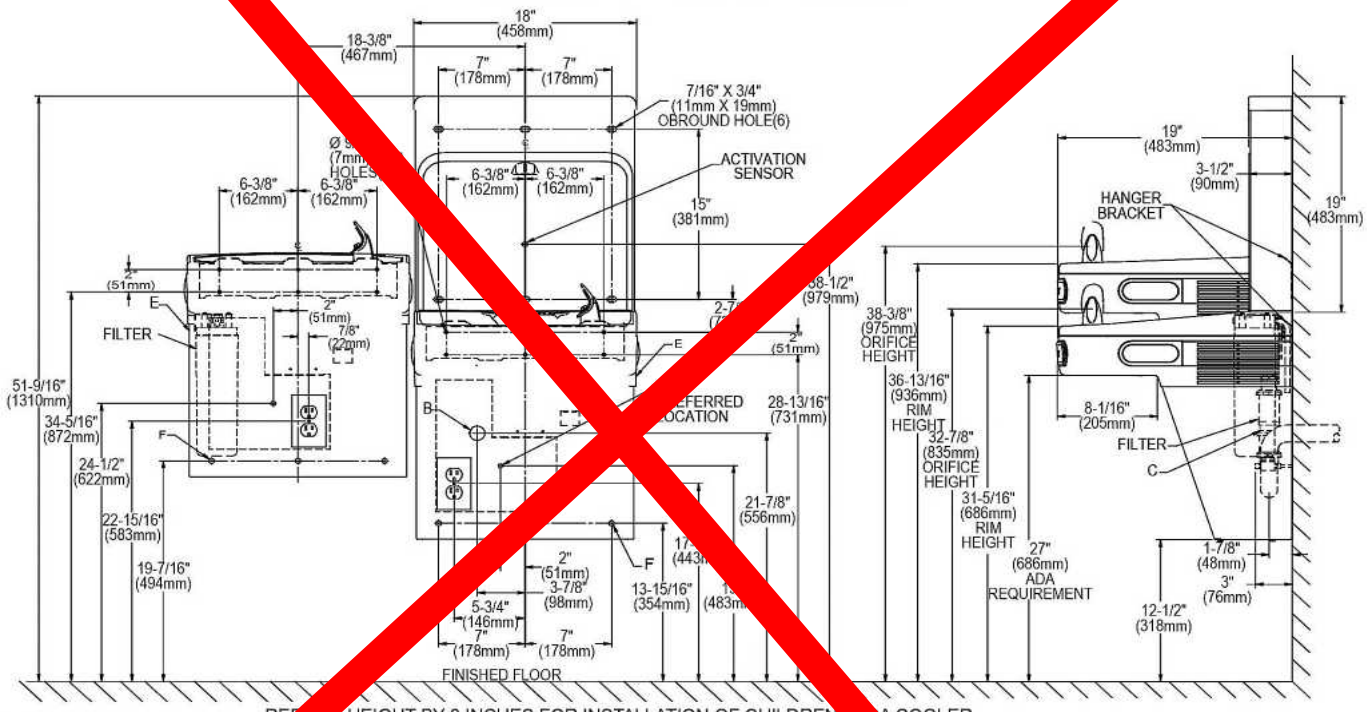
This water cooler must be connected to the water supply using a dielectric coupling. The cooler is furnished with a non-metallic strainer which meets this requirement. The drain trap which is provided by the installer should also be plastic to completely isolate the cooler from the building plumbing system.
Bottle filler unit on bracket attached to wall by 6 holes (as shown). Water and electrical will connect through punched hole in basin.

OPERATION OF QUICK CONNECT FITTINGS



WaterSentry® Plus Filter Syst

Standard Hi-Low Installation Instructions



REDUCE HEIGHT BY 3 INCHES FOR INSTALLATION OF CHILDRENS ADA COOLER

LEGEND:
A = Recommended Water Supply Location. Shut-off Valve (not furnished) to accept 3/8" O.D. unplated copper tube. Up to 3" (76mm) maximum out from wall.
B = Recommended Waste Location. To accommodate 1-1/2" nominal drain. Drain stub 2" (51mm) out from wall.
C = 1-1/2" Trap (not furnished).
D = Electrical Supply (2) Recessed Box Duplex Outlet.
E = Insure proper ventilation by maintaining 6" (152mm) minimum clearance from cabinet louvers to wall.
F = 7/16" (11mm) Holes for fastening to wall.
Note : New Installations Must Use Ground Fault Circuit Interrupter (GFCI).

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Job Name : 2.16 HIGHLANDS BUILDING ROGERS
Manufacturer : ELKAY
Model Number : LZSTL8WSSP

Type :

In lieu of the dual-level drinking fountain/bottle-filling stations noted in the "FIXTURE SCHEDULE" on P-600, EWC-1, "LZSTL8WSSP", provide the attached "LZSTL8WSBPRO-2FL10", black stainless, with two (2) ultra-capacity filters and all optional accessories required for a complete installation. Note: Existing plumbing and electrical design will not require revisions to accommodate new model; however, the location of the duplex receptacle to provide power for the unit will need to be coordinated to be hidden within the housing. See attachd Cut Sheet.

ELKAY

~~Model LZSTL8WSSP~~

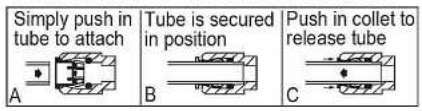
Enhanced Bottle Filler & Bi-Level ADA Cooler Refrigerated
Stainless High Capacity Lead Reducing Drop Down Wrapper

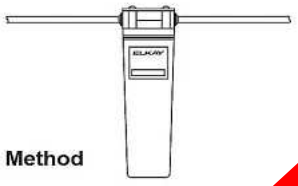
TAG_____

IMPORTANT!
INSTALLER PLEASE NOTE :
This water cooler has been designed and built to provide water to the user which has not been altered by materials in the cooler waterways. The grounding of electrical equipment such as telephone, computer, etc. to water lines is a common procedure. The grounding may be in the building but may also occur away from the building. This grounding can cause electrical feedback into a water cooler creating an electrolysis which creates a metallic taste or causes an increase in the metal content of the water. This condition is avoidable by installing the cooler using the proper materials as shown below.

NOTICE
This water cooler must be connected to the water supply using a dielectric coupling. The cooler is furnished with a non-metallic strainer which meets this requirement. The drain trap which is provided by the installer should also be plastic to completely isolate the cooler from the building plumbing system.
Bottle filler unit on bracket attached to wall by 6 holes (as shown). Water and electrical will connect through [illegible]-punched hole in basin.

OPERATION OF QUICK CONNECT FITTINGS

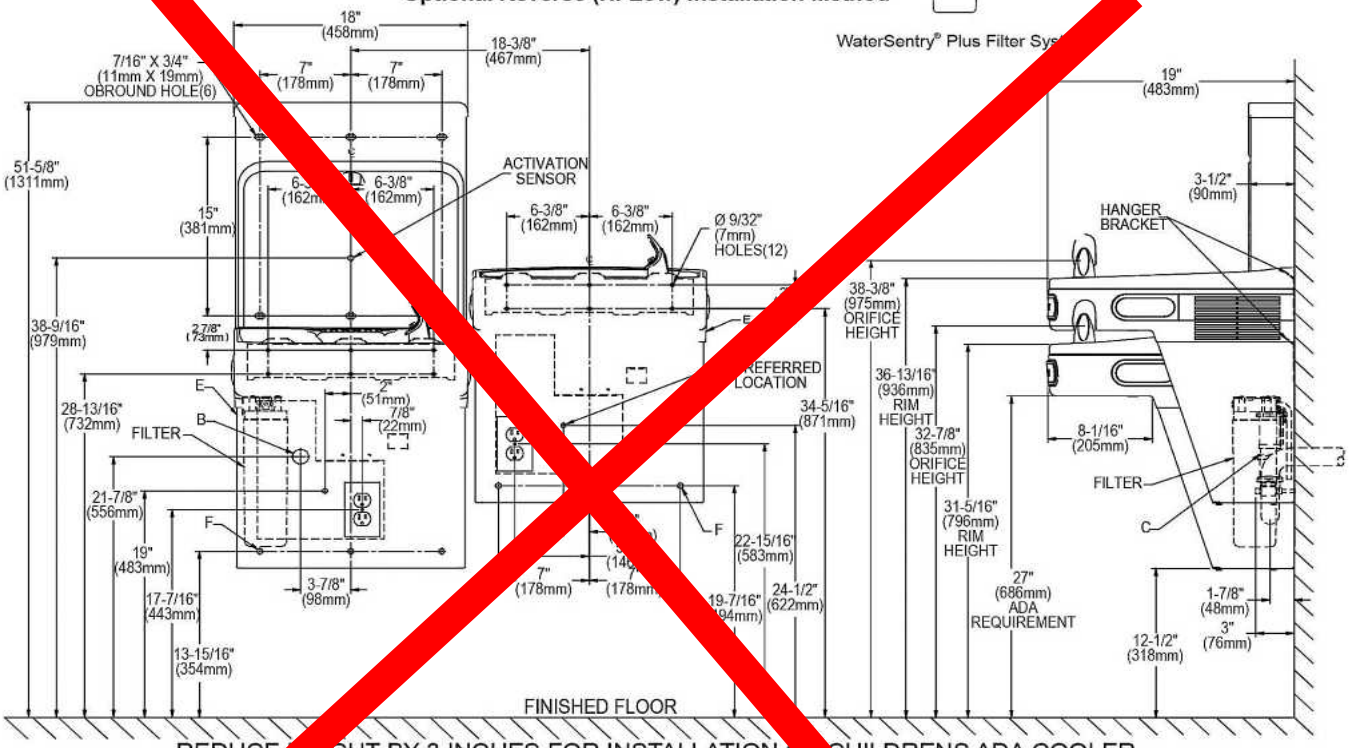




Pushing tube in before pulling it out helps to release tube

Optional Reverse (Hi-Low) Installation Method

WaterSentry® Plus Filter Sys[illegible]



REDUCE [illegible]GHT BY 3 INCHES FOR INSTALLATION O[illegible]CHILDRENS ADA COOLER

LEGEND:
A = Recommended Water [illegible]y location. Shut-off Valve (not furnished) to accept 3/8" O.D. unplated c[illegible]r tube. Up to 3" (76mm) maximum out from wall.
B = Recommended Was[illegible]utlet location. To accommodate 1-1/2" nominal drain. Drain stub 2" (51mm) o[illegible]m wall.
C = 1-1/2" Trap (not f[illegible]ed).
D = Electrical Suppl[illegible] Wire Recessed Box Duplex Outlet.
E = Insure prope[illegible]llation by maintaining 6" (152mm) minimum clearance from cabinet louvers to wall.
F = 7/16" (11[illegible]olt Holes for fastening to wall.
Note : New [illegible]llations Must Use Ground Fault Circuit Interrupter (GFCI).

In keeping with our policy of continuing product improvement, Elkay reserves the right to change product specifications without notice. Please visit elkay.com for the most current version of Elkay product specification sheets. This specification describes an Elkay product with design, quality, and functional benefits to the user. When making a comparison of other producers' offerings, be certain these features are not overlooked.

Product Submittal Form

For Residential and Commercial Applications

Job Name		Engineer / Architect	
Job Location		Wholesaler	
Submittal Date		Contractor	

PLB100/111/113X 1/4 Turn Angle Stop – Compression x Compression

Use: For use only in potable water distribution systems, hot and cold, in accessible locations only

Part Listing:

☐	PLB100X B	1/2" nom compression x 3/8" OD compression, chrome plated, bulk
☐	PLB100X P	1/2" nom compression x 3/8" OD compression, chrome plated, bagged
☐	PLB113X P	1/2" nom compression x 3/8" OD compression w/loose key, chrome plated, bagged
☐	PLB111X P	1/2" nom compression x 1/4" OD compression, chrome plated, bagged



STOP MATERIAL SPECIFICATIONS	
Body	*Brass, plated*
Stem	*Brass*
Ball	*Brass, plated*
Seats	*PTFE*
O-ring	*NBR*
Handle	*ABS, plated*
Handle Screw	*Stainless steel*
Compression Nut	*Brass, plated*
Compression Sleeve	*Brass*
Adaptor	*Brass, plated*

Operating Specifications	
Temperature	***Pressure***
Intermittent 40°- 140° F	125 PSI maximum

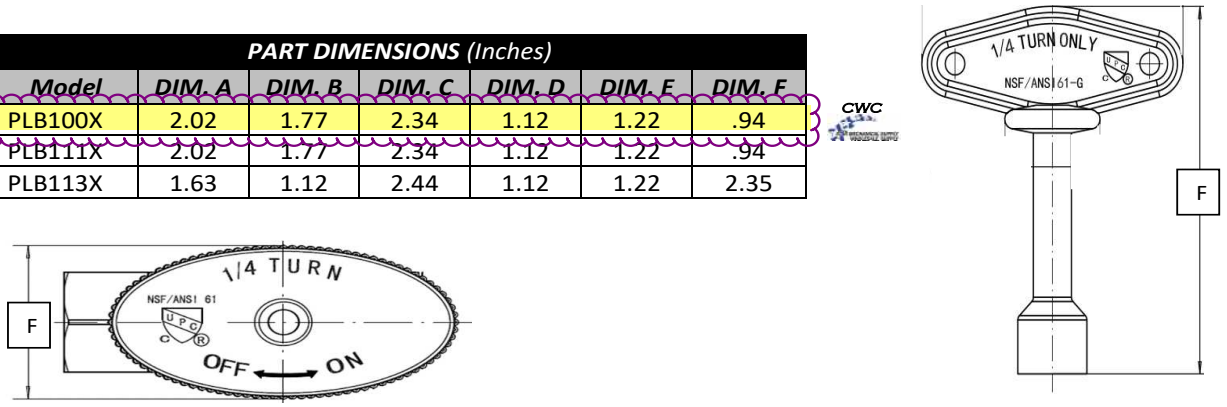
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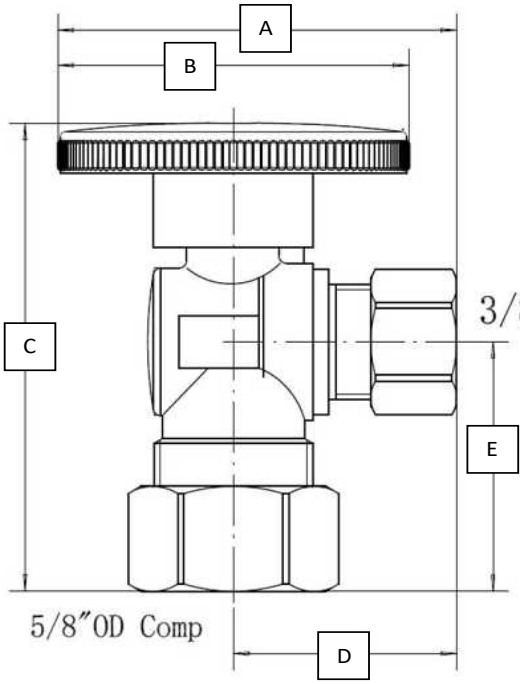
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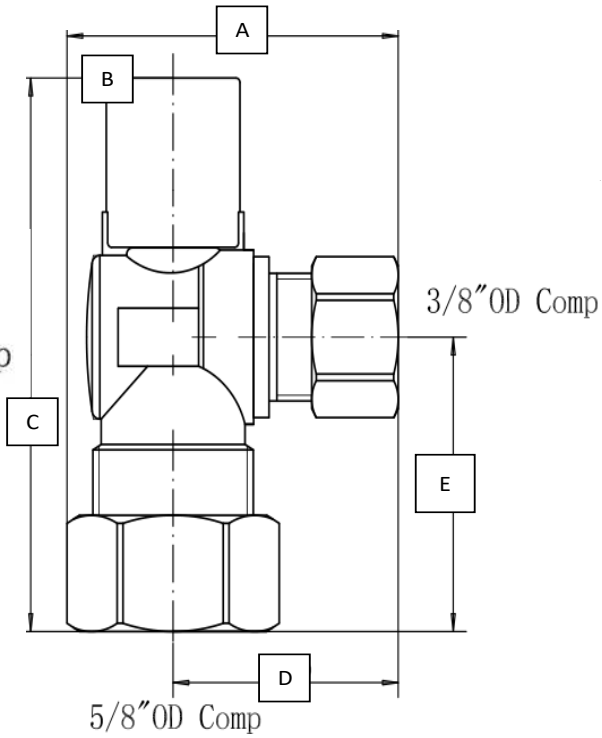
Product Submittal Form

PLB100/111/113X 1/4 Turn Angle Stop – Compression x Compression

PART DIMENSIONS (Inches)						
Model	DIM. A	DIM. B	DIM. C	DIM. D	DIM. E	DIM. F
PLB100X	2.02	1.77	2.34	1.12	1.22	.94
PLB111X	2.02	1.77	2.34	1.12	1.22	.94
PLB113X	1.63	1.12	2.44	1.12	1.22	2.35







Listings & Certifications:

- IAPMO listed to ASME A112.18.1 / CSA B125.1 (includes NSF/ANSI 372 and NSF61)

This specification and all information contained herein is the confidential and exclusive property of Brasscraft Manufacturing Company and shall not be disclosed to others without the written consent of Brasscraft Mfg. Co. This specification must be returned to Brasscraft Mfg. Co. if requested.

PLUMBSHOP®

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Dearborn® Brass
4675 W. 160th St.
Cleveland, Ohio 44135
Ph: (800) 321-9532
Fax: (800) 321-9535
www.dearbornbrass.com

SUBMITTAL SPECIFICATION

SPECIALTIES
LOW PATTERN CHROME PLATED FLANGES

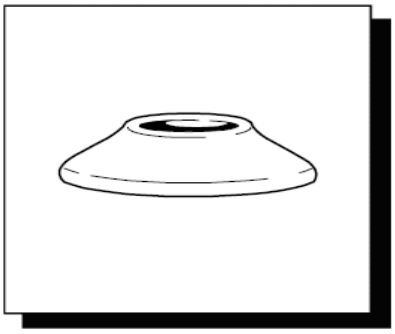
Engineering Specification: Dearborn Brass Low Pattern Chrome Plated Flanges are designed for use in tubular drain applications. Available in various sizes.

Job Reference

DESCRIPTION

- Chrome Finish
- Made of Steel





✔	Product No.	Description	Carton Quantity	Carton Weight (lbs)
	1097	3/8" O.D. for 1/4" Nominal	50	1.0
	1098	1/2" O.D. for 3/8" Nominal	50	1.0
	1099	5/8" O.D. for 1 /2" Nominal	50	1.2
	1099A	7/8" O.D. for 3/4" Nominal Copper	50	1.1
	H1099A	Flat Escutcheon 7/8" Copper – Bagged	20	1.0
	1099AB	7/8" O.D. for 3/4" Nominal – Bulk	250	5.8
	1099B	5/8" O.D. for 3/4" Nominal – Bulk	250	5.8
	1100	3/8" NPT	50	1.2
	HD1831C	3/8" IPS – Bagged	20	1.0
	1100B	3/8" NPT – Bulk	250	6.0
	1101	1/2" NPT	50	1.1
	HD75C	1/2" IPS – Bagged	20	1.0
	1101A	3/4" NPT	50	1.7
	HD76C	5/8" O.D. for 1/2" Nominal Copper – Bagged	20	1.0
	1101AA	1" NPT	50	1.6
	1101B	1/2" NPT – Bulk	250	5.5
	1102	1-1/2" O.D.	50	1.5
	HD72C	1-1/4" O.D.	20	0.7
	1104	1-1/2" O.D.	50	1.3
	HD73C	1/2" O.D. – Bagged	20	0.7
	1104A	2" O.D.	50	2.1
	1105	1-1/4" NPT	50	2.0
	1106	1-1/2" NPT	50	1.5
	1106A	2" NPT	50	2.3
	1106B	1-1/2" NPT – Bulk	250	6.5

Data is subject to manufacturing tolerances.

Visit www.dearbornbrass.com for updates 03/2009

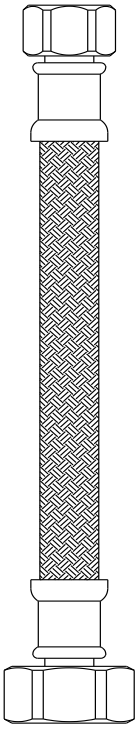
Product Submittal Form

For Residential and Commercial Applications

Job Name		Engineer / Architect	
Job Location		Wholesaler	
Submittal Date		Contractor	

B1-**A/ B2-**A/ B3-**A Speedi Plumb® PLUS Braided Faucet Connector - Compression Inlet

Use: For use in potable water distribution systems in accessible locations only.



Design Features:

- **Engineered polymer braided** fibers bend freely without kinking or crimping
- **Reinforced PVC inner hose** provides added durability
- **Rubber washers** provide a large pliable sealing surface and ensure a long lasting water-tight connection
- ☑

Operating Specifications:

Temperature: 40°- 160° F, intermittent to 180° F

Pressure: 125 PSI maximum

Tubing Diameter: 0.300" ID (0.550" OD)

CONNECTOR MATERIAL SPECIFICATIONS	
Inner Hose	*Reinforced PVC*
Braiding	*PVC coated yarn*
Barb	*Brass*
Ferrule	*Stainless steel*
Nut	*Brass, plated or polypropylene*
Washer	*Rubber*

Part Listing:

☐	B1-12A F	3/8" compression x 1/2" FIP* x 12" length
☐	B1-16A F	3/8" compression x 1/2" FIP* x 16" length
☐	B1-20A F	3/8" compression x 1/2" FIP* x 20" length
☐	B1-20A P8	3/8" compression x 1/2" FIP* x 20" length, bagged, 8-pack
☐	B1-20AU D	3/8" compression x 1/2" FIP* x 20" length connector with 1/2" OD compression & 1/2" iron pipe valve adaptors, and washers, carded
☐	B1-24A F	3/8" compression x 1/2" FIP* x 24" length
☐	B1-30A F	3/8" compression x 1/2" FIP* x 30" length
☐	B1-36A F	3/8" compression x 1/2" FIP* x 36" length
☐	B1-48A F	3/8" compression x 1/2" FIP* x 48" length
☐	B1-60A F	3/8" compression x 1/2" FIP* x 60" length

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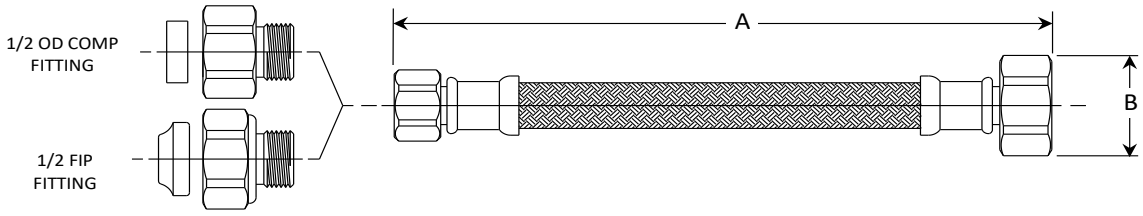
Product Submittal Form

B1-**A/ B2-**A/ B3-**A Speedi Plumb® PLUS Braided Faucet Connector - Compression Inlet

Part Listing (con't):

☐	B2-12A F	7/16" compression x 1/2" FIP* x 12" length
☐	B2-20A F	7/16" compression x 1/2" FIP* x 20" length
☐	B3-12A F	1/2" compression x 1/2" FIP* x 12" length
☐	B3-16A F	1/2" compression x 1/2" FIP* x 16" length
☐	B3-20A F	1/2" compression x 1/2" FIP* x 20" length
☐	B3-30A F	1/2" compression x 1/2" FIP* x 30" length

* 1/2" FIP also fits 7/16" rubber slip nut



***PART DIMENSIONS** (Inches)*		
Model	***DIM. A***	***DIM. B***
B1-12	12.0 / 13.0	1.02
B1-16	16.0 / 17.0	1.02
B1-20	20.0 / 21.0	1.02
B1-24	24.0 / 25.0	1.02
B1-30	30.0 / 31.0	1.02
B1-36	36.0 / 37.0	1.02
B1-48	48.0 / 49.0	1.02

***PART DIMENSIONS** (Inches)*		
Model	***DIM. A***	***DIM. B***
B1-60	60.0 / 61.0	1.02
B2-12	12.0 / 13.0	1.02
B2-20	20.0 / 21.0	1.02
B3-12	12.0 / 13.0	1.02
B3-16	16.0 / 17.0	1.02
B3-20	20.0 / 21.0	1.02
B3-30	30.0 / 31.0	1.02

Listings & Certifications:

- IAPMO listed to ASME A112.18.6 / CSA B125.6
- IAPMO listed to NSF/ANSI 372 for Low-Lead Compliance
- IAPMO listed to NSF/ANSI/CAN 61

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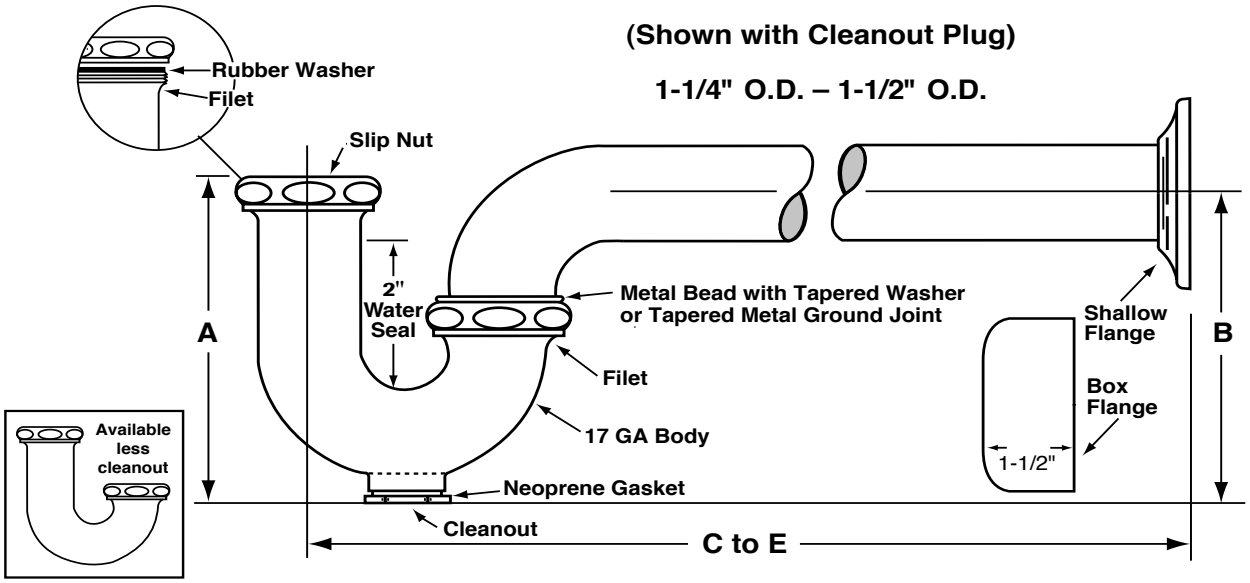
McGuire Manufacturing Co., Inc.
60 Grandview Court
P.O. Box 746♣ Cheshire, CT 06410
203-699-1801♣ Fax: 203-699-1813
www.mcguiremfg.com

PRODUCT SPECIFICATION

Part No.
MCT125 and MCT150 Series

Lite Commercial 17 GA Tubular P-Trap

Job Name: **Submittal Number:**



LITE COMMERCIAL ADJUSTABLE 17 GAUGE TUBULAR P-TRAPS

ROUGHING MEASUREMENTS

MODEL NO.	TRAP DIMENSIONS		A	B	C to E	FLANGE	SLIP NUT
	INLET	OUTLET					
MCT125085	1-1/4"	1-1/4"	5"	4-1/2"	11"	Shallow	Brass
MCT125085B	1-1/4"	1-1/4"	5"	4-1/2"	11"	Box	Brass
MCT125085NC	1-1/4"	1-1/4"	4-5/8"	4-1/8"	11"	Shallow	Brass
MCT125085NCB	1-1/4"	1-1/4"	4-5/8"	4-1/8"	11"	Box	Brass
MCT125075ZN	1-1/4"	1-1/4"	5"	4-1/2"	10"	Shallow	Zinc
MCT125075NCZN	1-1/4"	1-1/4"	4-5/8"	4-1/8"	10"	Shallow	Zinc
MCT150090B	1-1/2", 1-1/4"	1-1/2"	5"	4-1/2"	12"	Box	Brass
MCT150075ZN	1-1/2", 1-1/4"	1-1/2"	5"	4-1/2"	10-1/2"	Shallow	Zinc
MCT150075NCZN	1-1/2", 1-1/4"	1-1/2"	4-5/8"	4-1/8"	10-1/2"	Shallow	Zinc
MCT150090NCB	1-1/2", 1-1/4"	1-1/2"	4-5/8"	4-1/8"	12"	Box	Brass
MCT150090NCGJB	1-1/2", 1-1/4"	1-1/2"	4-5/8"	4-1/8"	12"	Box	Brass
MCT150090NCGJ	1-1/2", 1-1/4"	1-1/2"	4-5/8"	4-1/8"	12"	Shallow	Brass

Suffix Designations
NC = No Cleanout Plug
GJ = Ground Joint Wall Bend

See options and accessories section for details on product variations.

Specifications:

P-Trap shall be 17 gauge seamless tubular brass with wall bend and flange.

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2.16 HIGHLANDS BUILDING ROGERS

Datasheets

EWC-1 CARRIER

VERIFY COMPATABILITY WITH NEW EWC SPECIFIED IN PROPOSAL REQUEST #2. STATED REQUIREMENT FROM ELKAY IS AN ELKAY MLP200 CARRIER

Job Name : 2.16 HIGHLANDS BUILDING ROGERS
Manufacturer : ZURN
Model Number : Z1225-BL-UNIV

Type :

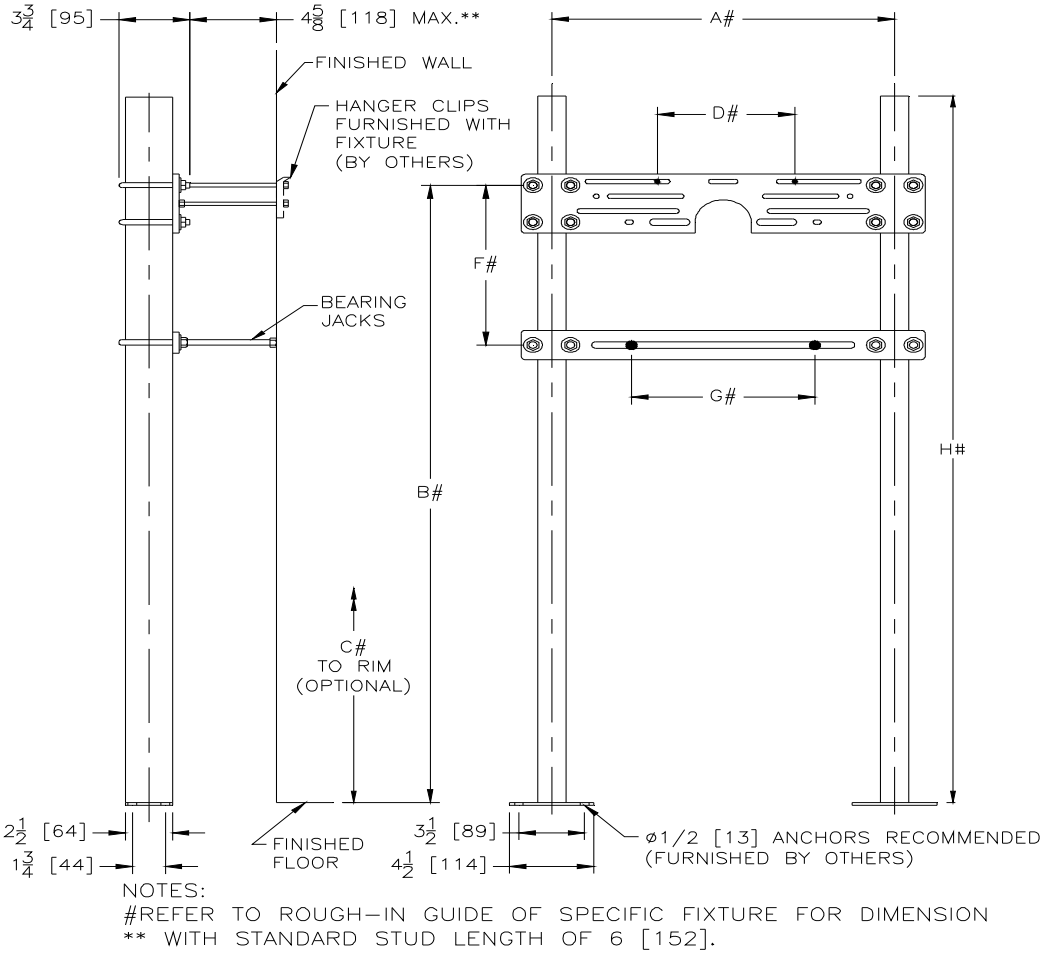
VERIFY COMPATABILITY WITH NEW EWC SPECIFIED IN PROPOSAL REQUEST #2. STATED REQUIREMENT FROM ELKAY IS AN ELKAY MLP200 CARRIER

Z1225
PLATE TYPE SYSTEM
WATER COOLERS

SPECIFICATION SHEET

TAG _____

Dimensional Data (inches and [mm]) are Subject to Manufacturing Tolerances and Change Without Notice



NOTES:
#REFER TO ROUGH–IN GUIDE OF SPECIFIC FIXTURE FOR DIMENSION
** WITH STANDARD STUD LENGTH OF 6 [152].

Product No.	Approx. Wt. Lbs. [kg]
Z1225	30 [14]

ENGINEERING SPECIFICATION: ZURN Z1225
Water cooler support system with top and bottom plates. Complete with Dura-Coated rectangular steel uprights with welded feet, adjustable support plates, and mounting fasteners.

OPTIONS (Check/specify appropriate options)

PREFIXES

____	Z	Dura-Coated System with Universal Plate*

SUFFIXES

____	-BL	Bi-Level Cooler Support
____	-CB	Carrier Bank
____	-D	Back to Back System

* Regularly furnished unless otherwise specified.

Zurn Industries, LLC | **Specification Drainage Operation**
1801 Pittsburgh Avenue, Erie, PA U.S.A. 16502 · Ph. 855-663-9876, Fax 814-454-7929
In Canada | **Zurn Industries Limited**
3544 Nashua Drive, Mississauga, Ontario L4V 1L2 · Ph. 905-405-8272, Fax 905-405-1292
www.zurn.com

Rev. F
Date: 09/27/2017
C.N. No. 137981
Prod. | Dwg. No. Z1225



2.16 HIGHLANDS BUILDING ROGERS

Datasheets

HL-1

PROVIDE AMERICAN STANDARD "EDGEMERE" UNDER COUNTER SINK

Model(s) Z5220

19"x16" Oval Undermount Lavatory

TAG_____

Architectural/Engineering Specification:

19" x 16" vitreous China undermount lavatory.

PRODUCT FEATURES:

- 19" [483 mm] x 16" [406 mm]
- Vitreous China
- Rimless design for undermount installation
- Front overflow
- Waste: 1-1/4"
- Depth: 5"
- Shipping Weight: [illegible] lbs.



RECOMMENDED TRIM:

☐	Z8743-PC	Grid Strainer
☐	Z8700 Series	P-Trap
☐	Z8800 Series	Top with Flexible Supplies
☐	Z8946-1-NT	ADA Trap, Stop and Supply Protectors

OPTIONAL TRIM:

☐	Z8746-PC	ADA Grid Strainer
☐	Z8946-3-NT	ADA Trap, Stop, and Supply Protectors for Offset Grid Strainer

Product Compliance:

ASME A112.19.2/CSA B45.1
CSA B45.1
IPC

*Complies with ADA & ICC A117.1 accessibility requirements when installed according to the requirements outlined in these standards.

**Although products with certain combinations of options and features will meet or comply with these standards and/or certifications, not every combination of options and features will result in such compliance. If you have any questions about your particular product, please contact our Customer Care Dept. at 1-855-ONE-ZURN (United States) or 1-877-892-5216 (Canada) for confirmation.*

Architectural/Engineer Approval

Design and dimensional data (inches and [mm]) are subject to manufacturing tolerances and change without notice.

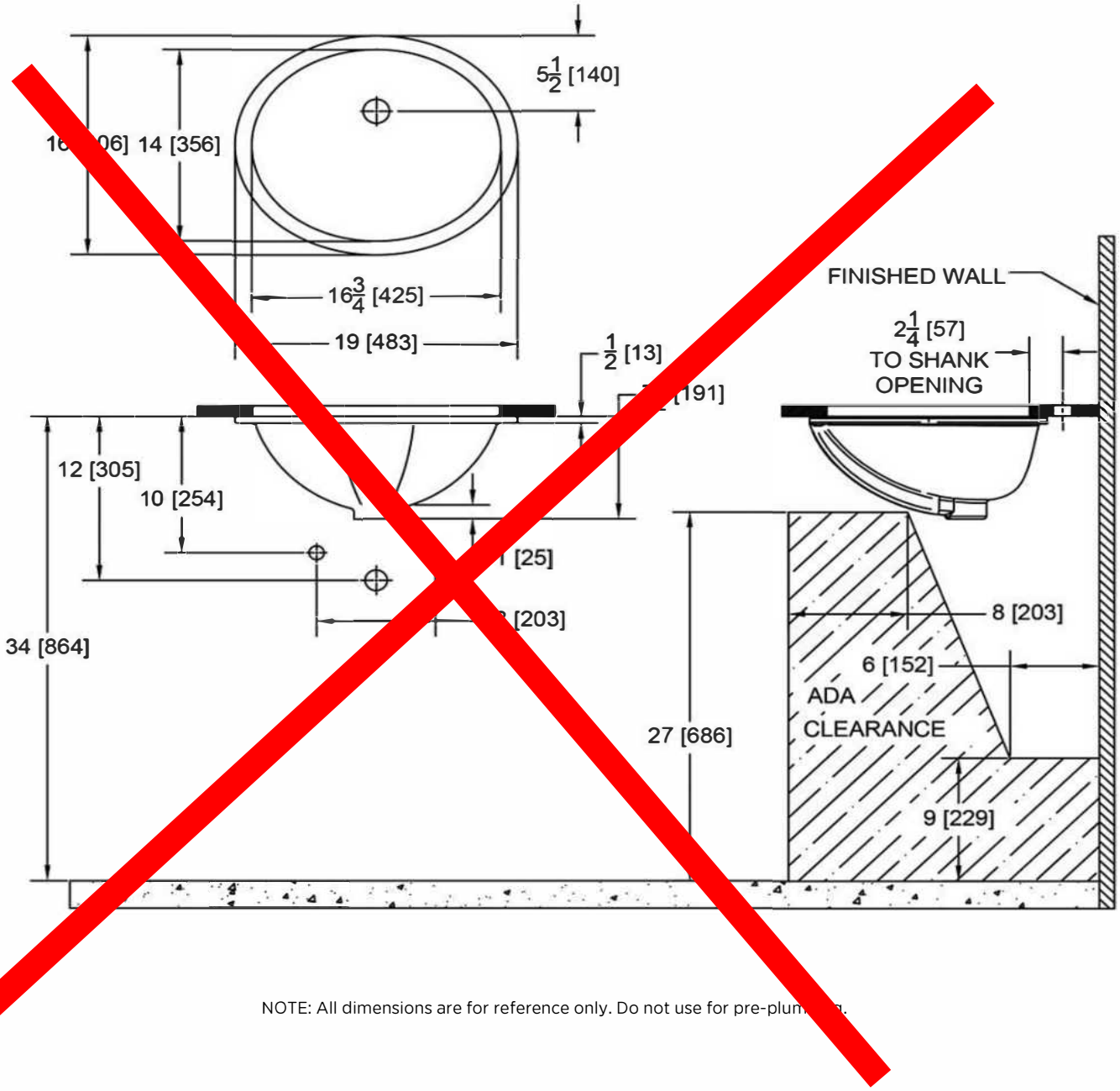
⚠WARNING: *Cancer and Reproductive Harm – www.P65warnings.ca.gov*
⚠ADVERTENCIA: *Cáncer y daño reproductivo – www.P65warnings.ca.gov*
⚠AVERTISSEMENT: Cancer *et effets néfastes sur la reproduction – www.P65warnings.ca.gov*

PROVIDE AMERICAN STANDARD "EDGEMERE" UNDER COUNTER SINK

Model(s) Z5220

19″x16″ Oval Undermount Lavatory

TAG_____



NOTE: All dimensions are for reference only. Do not use for pre-plum[illegible].

Design and dimensional data (inches and [mm]) are subject to manufacturing tolerances and change without notice.

⚠WARNING: *Cancer and Reproductive Harm – www.P65warnings.ca.gov*
⚠ADVERTENCIA: *Cáncer y daño reproductivo – www.P65warnings.ca.gov*
⚠AVERTISSEMENT: Cancer *et effets néfastes sur la reproduction – www.P65warnings.ca.gov*

American Standard

USE THIS SINK IN LIEU OF THE ZURN Z5220, IT MATCHES THE SPRINGDALE INSTALLATION

EDGEMERE® UNDER COUNTER SINK

BARRIER FREE

VITREOUS CHINA

EDGEMERE® UNDER COUNTER SINK



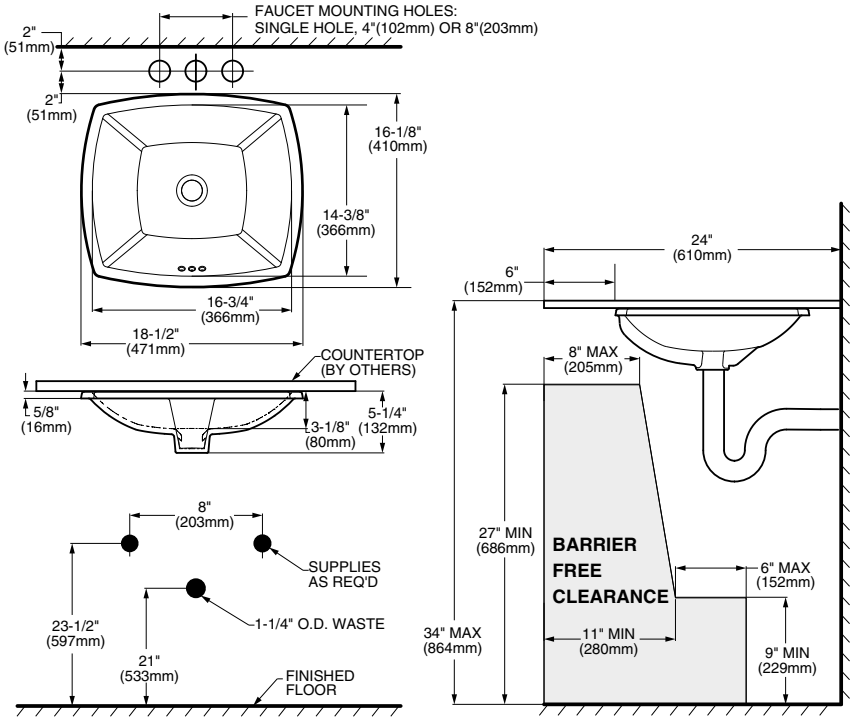
❑ **0545.000**

- Rectangular under mount sink with tapered interior bowl
- Made from vitreous china
- Unglazed rim
- Front overflow
- Supplied with mounting kit and template
- **Coordinates with Edgemere® Suite**

Nominal Dimensions:
18-1/2" x 16-1/8"
(471 x 410mm)

Bowl Size:
16-3/4" (426mm) wide
14-3/8" (365mm) front to back
3" (77mm) deep

Compliance Certifications - Meets or Exceeds the Following Specifications:
• ASME A112.19.2/CSA B45.1



ADA INSTALLATION

To Be Specified:
❑ Color: ❑ White
❑ Faucet*:
❑ Faucet Finish:
❑ Supplies:
❑ 1-1/4" Trap:

* See faucet section for additional models available

NOTES:
WE RECOMMEND USING BASIN AS A TEMPLATE TO DETERMINE PROPER CONTOUR.
CUT COUNTERTOP 38MM (1-1/2") INSIDE BASIN CONTOUR.
* DIMENSIONS SHOWN FOR LOCATION OF SUPPLIED AND "P" TRAP ARE SUGGESTED.
▼ UNDERCOUNTER MOUNTING KIT SUPPLIED WITH SINK.
FITTINGS NOT INCLUDED WITH FIXTURE AND MUST BE ORDERED SEPARATELY.
SEALING COMPOUND SUPPLIED BY OTHERS.

IMPORTANT: Dimensions of fixtures are nominal and may vary within the range of tolerances established by ANSI Standard A112.19.2.
These measurements are subject to change or cancellation. No responsibility is assumed for use of superseded or voided pages.

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American Standard

Job Name : 2.16 HIGHLANDS BUILDING ROGERS
Manufacturer : ZURN
Model Number : ZG6950-TMV-1

Type :

ENSURE COMPATIBILITY WITH AMERICAN STANDARD "EDGEMERE' UNDERMOUNT SINK

Model(s) ZG6950

Serio Series® Sensor Faucet With Gear-driven Ceramic Cartridge

TAG_____

Architectural/Engineering Specification:

Zurn Serio® Sensor Faucets create a more hygienic, sustainable, and reliable restroom experience by utilizing gear-driven ceramic cartridge operation with no solenoids to replace and renewable hydropower. The standard highefficiency, 0.5 gpm low-flow rate and adjustable timeout feature help save water to meet sustainability goals. Customize usage settings wirelessly by using Zurn Elkay's Bluetooth app, PlumbPro. Upgrade to the smart device version for fleet management, including real-time data. Zurn Lead Free products are durable, high quality brass faucets and fixtures that are designed and manufactured to comply with Section 1417 of the Safe Drinking Water Act (SDWA) which mandates the weighted average lead content of no more than 0.25% of the wetted surface.



PRODUCT FEATURES:

- Uses EZ Gear technology, a motor gear-driven ceramic cartridge that is less susceptible to debris and buildup for easy maintenance; outlasts and outperforms solenoids
- Hydro X Power ® technology delivers sustainable performance by providing renewable, uninterrupted hydropower designed to last the life of a commercial restroom.
- Intuitive and effortless, no-delay touchless sensor water activation
- Bluetooth-enabled for point-of-use wireless adjustability: Adjustable Time Out Feature (30-second default time out), Hygienic Line Flushing (on-demand or programmed), Sensing modes (on-demand or metering), Sensor Range Adjustment and Battery Status
- plumbSMART connected option available with suffix -W2 for remote monitoring and real-time usage insights to your connected plumbing ecosystem
- Shipped standard with high-efficiency water flow rates of 0.5 GPM; other flow rates available
- Quiet water flow and soft-close technology that eliminates water hammer
- Polished chrome standard finish, brushed nickel and matte black available

Product Compliance:
ADA
ASME A112.18.1/CSA B125.1
CEC
CSA B125.1
IPC
NSF 61
NSF 372
WaterSense

*Complies with ADA & ICC A117.1 accessibility requirements when installed according to the requirements outlined in these standards.

*This product should be used with a WaterSense labeled counterpart with a compatible flow volume to ensure that the entire system meets the requirements for water efficiency and performance.

**Although products with certain combinations of options and features will meet or comply with these standards and/or certifications, not every combination of options and features will result in such compliance. If you have any questions about your particular product, please contact our Customer Care Dept. at 1-855-ONE-ZURN (United States) or 1-877-892-5216 (Canada) for confirmation.*

Installation Guide - FV849

SUFFIX OPTIONS:

☐	-ADM	Above-Deck Mixer
☐	-CP4	Cover Plate 4" [102mm] Centers
☐	-CP8	Cover Plate 8" [203mm] Centers
☐	-MV	Temperature Mixing Valve
☐	-SH	Three Supply Hoses for Mixing Valve
☐	-SSH	Single Supply Hose
☐	-TMV-1	Thermostatic Mixing Valve for Single Faucets (ASSE Listed 1070)

POWER OPTIONS:

Power Supply Option		
☐	-ACA	6-VDC plug-in power converter
☐	-CWB	Connector wire for plug-in power converter

AERATOR OPTIONS:

	Suffix	Flowrate GPM [L]	Vandal-Resistant	WaterSense* Labeled	Outlet Type
☐	-Standard		x		Spray
☐	-E	1.5 GPM [5.7L]	x	x	Aerator
☐	-J	1.5 GPM [5.7L]	x	x	Laminar
☐	-K	1.0 GPM [3.8L]	x	x	Laminar
☐	-L	1.0 GPM [3.8L]	x	x	Aerator
☐	-M	0.35 GPM [1.3L]	x		Spray
☐	-N	0.5 GPM [1.9L]	x		Laminar

Architectural/Engineering Approval

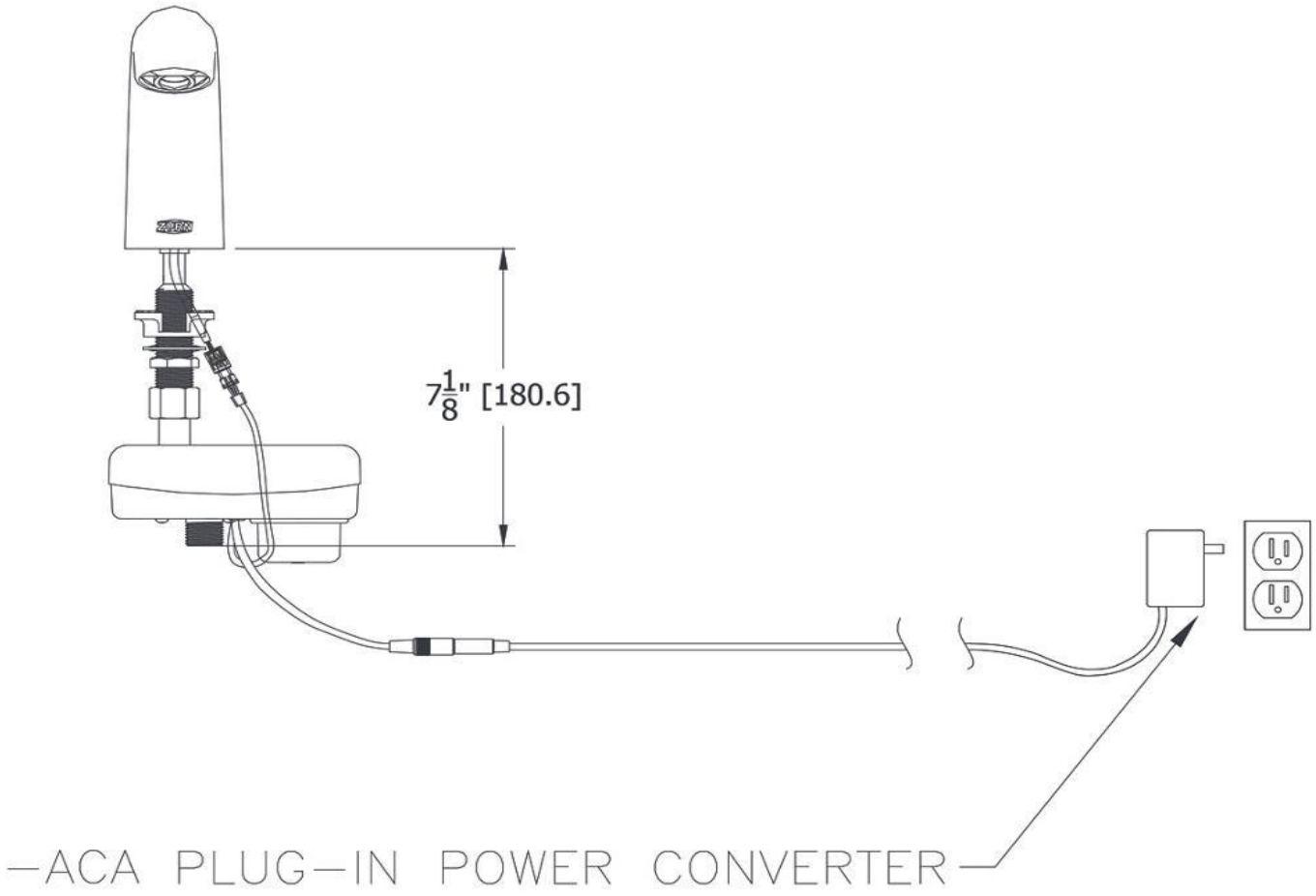
Design and dimensional data (inches and [mm]) are subject to manufacturing tolerances and change without notice.

⚠WARNING: *Cancer and Reproductive Harm* – www.P65warnings.ca.gov
⚠ADVERTENCIA: *Cáncer y daño reproductivo* – www.P65warnings.ca.gov
⚠AVERTISSEMENT: Cancer *et effets néfastes sur la reproduction* – www.P65warnings.ca.gov

Model(s) ZG6950

Serio Series® Sensor Faucet With Gear-driven Ceramic Cartridge

TAG_____



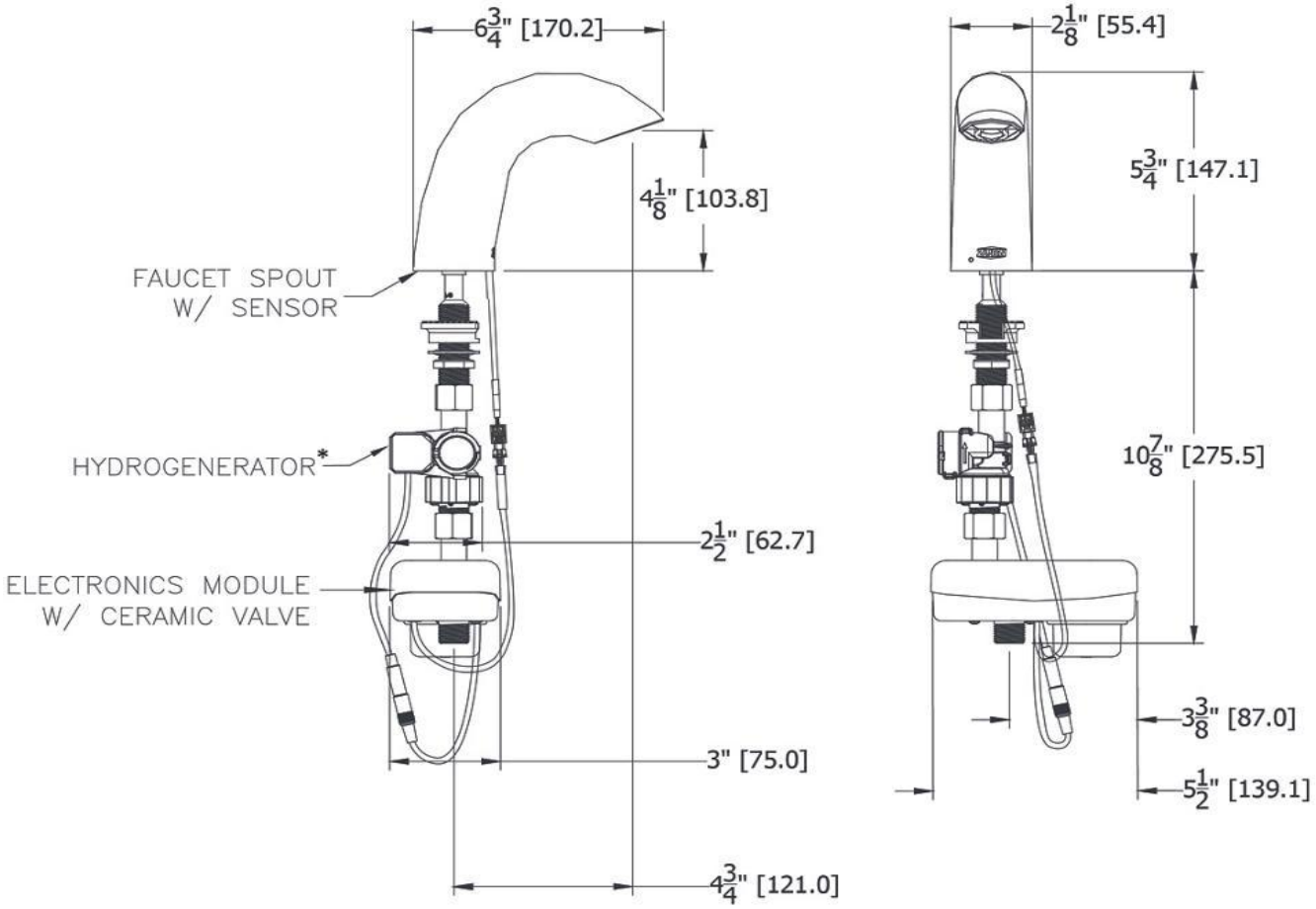
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Model(s) ZG6950

Serio Series® Sensor Faucet With Gear-driven Ceramic Cartridge

TAG_____



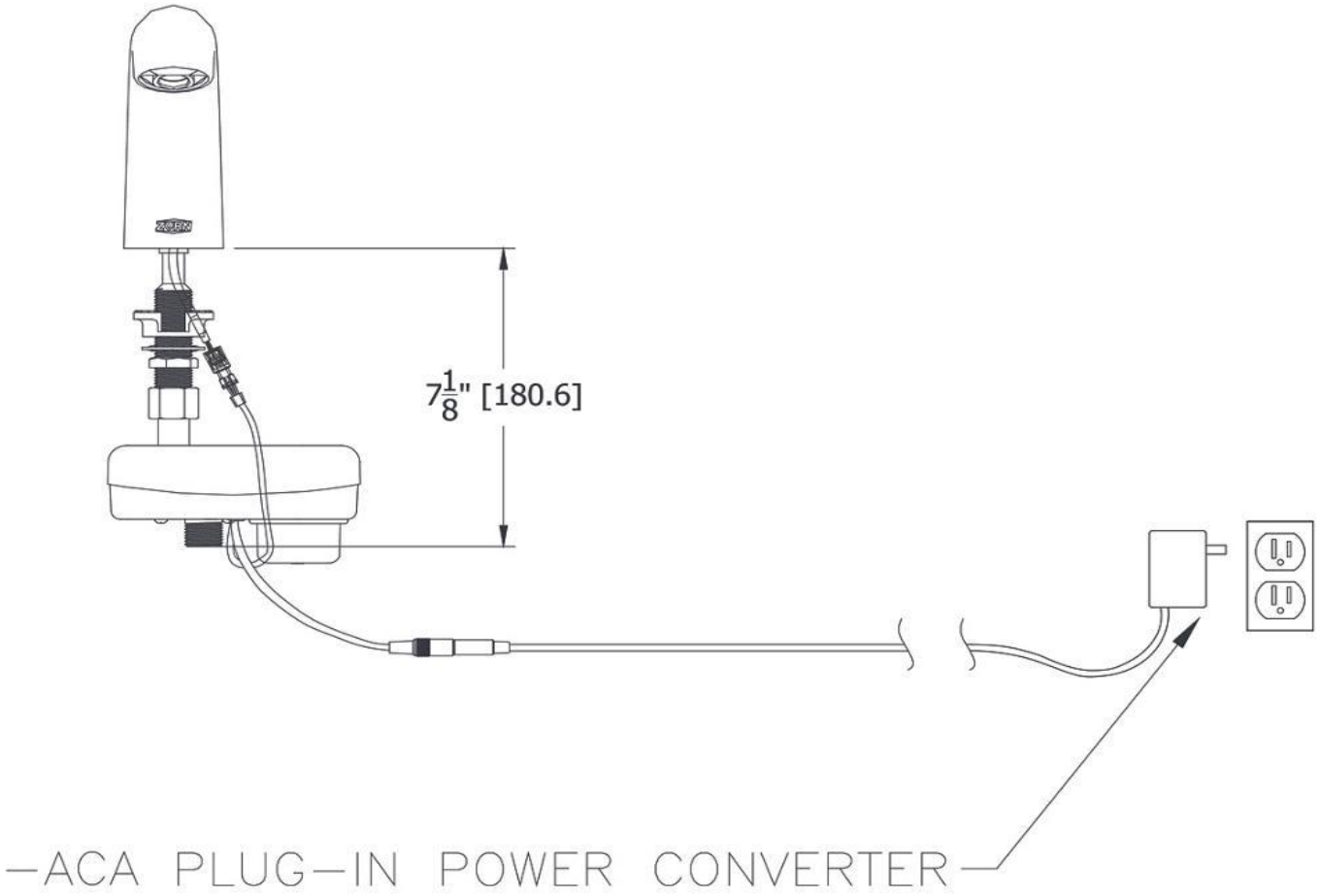
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Model(s) ZG6950

Serio Series® Sensor Faucet With Gear-driven Ceramic Cartridge

TAG_____



NOTE: All dimensions are for reference only. Do not use for pre-plumbing.

Design and dimensional data (inches and [mm]) are subject to manufacturing tolerances and change without notice.

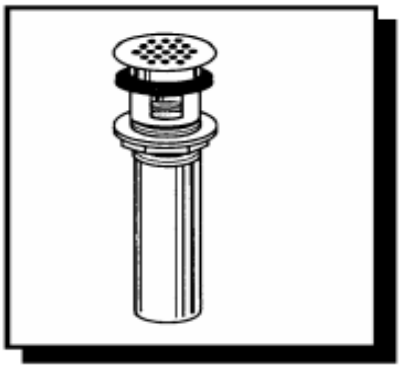
⚠WARNING: *Cancer and Reproductive Harm* – www.P65warnings.ca.gov
⚠ADVERTENCIA: *Cáncer y daño reproductivo* – www.P65warnings.ca.gov
⚠AVERTISSEMENT: Cancer *et effets néfastes sur la reproduction* – www.P65warnings.ca.gov

Dearborn® Brass
4675 W. 160th St.
Cleveland, Ohio 44135
Ph: (800) 321-9532
Fax: (800) 321-9535
www.dearbornbrass.com
SUBMITTAL SPECIFICATION

CAST GRID
PATENT OUTLET PLUG

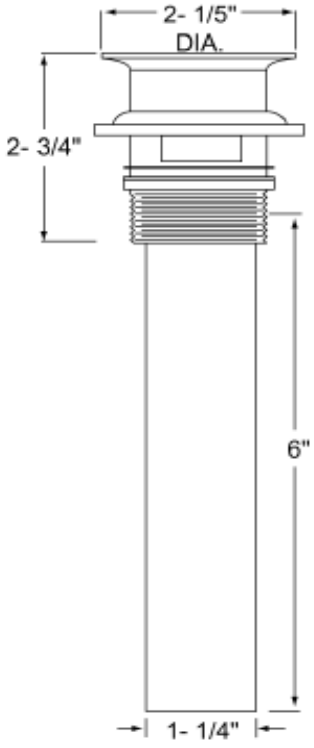
Engineering Specification: Dearborn Brass Semi-Cast Grid Patent Overflow Plug with 1-¼" x 6" – 17 gauge tailpiece.

Job Reference



DESCRIPTION

- Chrome Finished
- Includes: Cast Grid, P.O. Plug with nuts and washers and 17 gauge tailpiece
- Designed for installation in most commercial applications
- cUPC Listed



✓	Product No.	Description	Carton Quantity	Carton Weight (lbs)
	760-1	Semi-Cast Grid Patent Overflow Plug with 1-¼" x 6" – 17 gauge Tailpiece	25	18

Data is subject to manufacturing tolerances.

Visit www.dearbornbrass.com for updates 03/2009

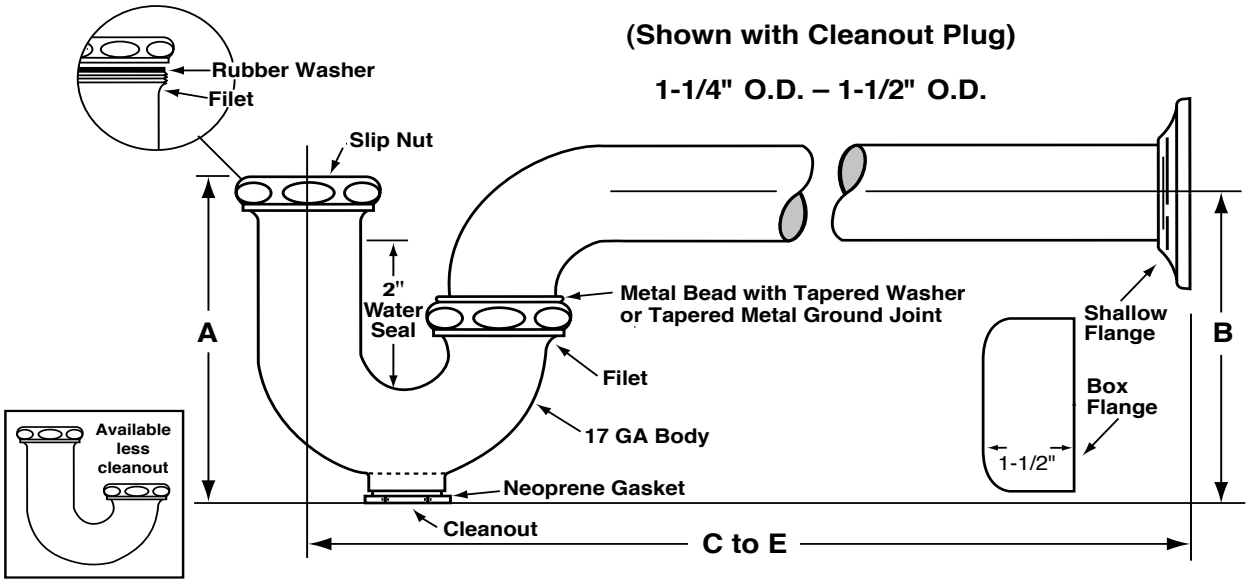
McGuire Manufacturing Co., Inc.
60 Grandview Court
P.O. Box 746 ♣ Cheshire, CT 06410
203-699-1801 ♣ Fax: 203-699-1813
www.mcguiremfg.com

PRODUCT SPECIFICATION

Part No.
MCT125 and MCT150 Series

Lite Commercial 17 GA Tubular P-Trap

Job Name: **Submittal Number:**



LITE COMMERCIAL ADJUSTABLE 17 GAUGE TUBULAR P-TRAPS

ROUGHING MEASUREMENTS							
MODEL NO.	TRAP DIMENSIONS		A	B	C to E	FLANGE	SLIP NUT
	INLET	OUTLET					
MCT125085	1-1/4"	1-1/4"	5"	4-1/2"	11"	Shallow	Brass
MCT125085B	1-1/4"	1-1/4"	5"	4-1/2"	11"	Box	Brass
MCT125085NC	1-1/4"	1-1/4"	4-5/8"	4-1/8"	11"	Shallow	Brass
MCT125085NCB	1-1/4"	1-1/4"	4-5/8"	4-1/8"	11"	Box	Brass
MCT125075ZN	1-1/4"	1-1/4"	5"	4-1/2"	10"	Shallow	Zinc
MCT125075NCZN	1-1/4"	1-1/4"	4-5/8"	4-1/8"	10"	Shallow	Zinc
MCT150090B	1-1/2", 1-1/4"	1-1/2"	5"	4-1/2"	12"	Box	Brass
MCT150075ZN	1-1/2", 1-1/4"	1-1/2"	5"	4-1/2"	10-1/2"	Shallow	Zinc
MCT150075NCZN	1-1/2", 1-1/4"	1-1/2"	4-5/8"	4-1/8"	10-1/2"	Shallow	Zinc
MCT150090NCB	1-1/2", 1-1/4"	1-1/2"	4-5/8"	4-1/8"	12"	Box	Brass
MCT150090NCGJB	1-1/2", 1-1/4"	1-1/2"	4-5/8"	4-1/8"	12"	Box	Brass
MCT150090NCGJ	1-1/2", 1-1/4"	1-1/2"	4-5/8"	4-1/8"	12"	Shallow	Brass

Suffix Designations
NC = No Cleanout Plug
GJ = Ground Joint Wall Bend

See options and accessories section for details on product variations.

Specifications:

P-Trap shall be 17 gauge seamless tubular brass with wall bend and flange.

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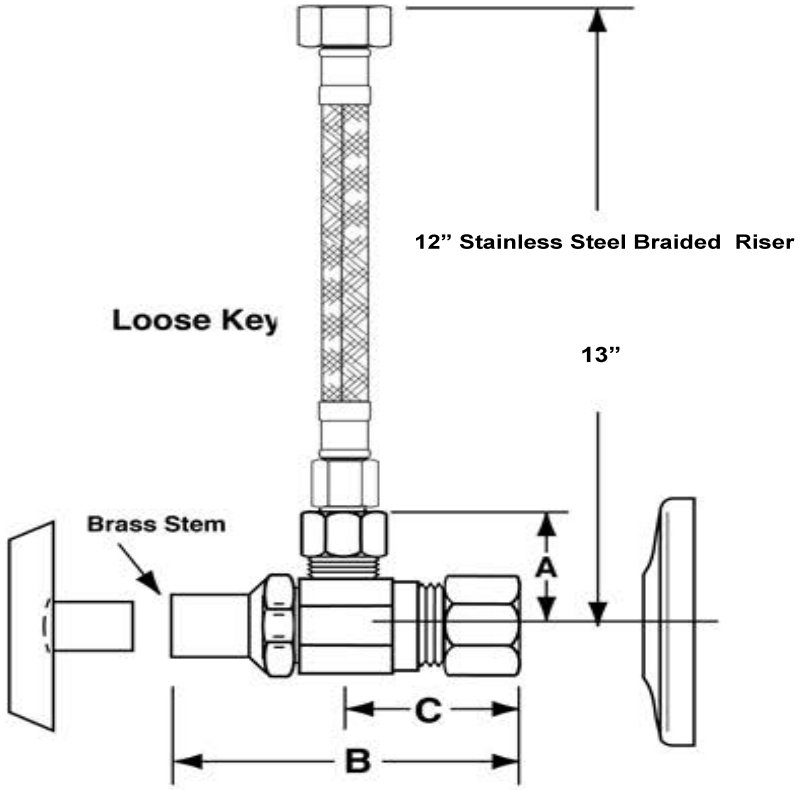
McGuire Manufacturing Co., Inc.
60 Grandview Court
Cheshire, Connecticut 06410
(203) 699-1801 Fax (203) 699-1813
customerservice@mcguiremfg.com mcguiremfg.com

PRODUCT SPECIFICATION

Part No.
LF2165CCLKSS12ECO

Compression x Compression Lavatory Supply

Job Name: **Submittal Number:**



NO.	DESCRIPTION	ROUGHING MEASUREMENTS		
		A	B	C
LF2165CCLKSS12ECO	1/2" Nominal x 3/8" O.D.	1"	2-3/8"	1"

- Rated Operating Pressure: 20-125 PSI
- Rated Operating Temperature: 40-140ºF
- Note: 180°F max. during temporary high-temperature system flush

LK designates Loose Key

* See options and accessories section for details on product variations.

NSF UPC ASME A112.18.1

Specifications:

Supply kit shall include lead free chrome plated supply brass stop valves with full turn brass stem, no plastic, 12 inch stainless steel braided risers and shallow steel flange. Inlet shall be 1/2 inch compression. Outlet shall be 3/8 inch compression. Supply kit shall be certified by recognized authority and bear manufacturer and testing mark.

WARNING:
This product can expose you to chemicals including lead, which is known to the State of California to cause cancer, and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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TRUEBRO IPS CORPORATION

LAV GUARD2 FAST FIT UNDERSINK PIPING COVERS

ADA-compliant undersink protection

Submittal Sheet

General Description:

LAV GUARD® 2E-Z Series waste and supply piping covers satisfy ADA compliance requirements. Built-in E-Z Grip internal fasteners and internal, E-Z Tear-To-Fit trimming feature allow for fast installation without tools. Series #100 E-Z kits are designed to fit on all tubular and cast brass P-trap assemblies. Series #400 kits are the "original" LAV GUARD design and fit schedule 40 ABS and PVC P-trap assemblies — regardless of their geometry or rotational offset.Valve cover completely encloses angle valve and supply tube for both handled and keyed type water stops.

Material	Molded vinyl
Nominal Wall	1/8" constant
Durometer	70 - 80 - Shore A
UV Protection	Will not fade or discolor
Durability	Virtually indestructible
Trimming (E-Z Series)	Internal, *E-Z Tear-To-Fit* trim feature
Fasteners (E-Z Series)	Internal *E-Z Grip* fasteners (reusable)
Color	China white
Paintability	Apply Latex paint
Burning Characteristics ASTM D-635	Self extinguished 0 sec (ATB) 0 mm (AEB)
Bacteria/Fungus Resistance	ASTM G21 and G22/ Result: 0 growth
Maintenance	Use common detergents

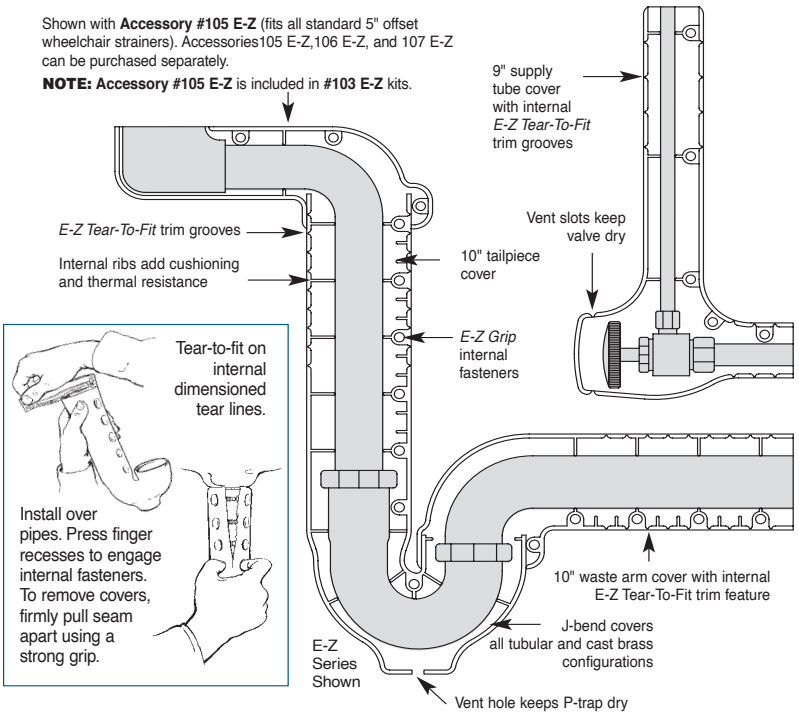
Antimicrobial Vinyl Minimizes Maintainance

Lav Guard 2 is molded from impact-resistant, stain-resistant, antimicrobial vinyl. Its smooth surface makes it exceptionally easy to clean and maintain.

Manufactured under one or more of the following U.S. or Canadian patents. Other patents pending.

5,303,730 5,360,031 5,524,669 5,564,463 5,678,598 5,699,828 5,915,412 5,915,413 5,901,739 5,960,820 2,075,324 2,119,427 2,136,027 2,158,083





#100 E-Z Series *(shown above right) for tubular and cast brass P-trap assemblies.*
#400W* Series *(original design) for schedule 40 P-trap assemblies.*

☐ **Model #99 E-Z**
One angle valve and supply cover

☐ **Model #100 E-Z**
One P-trap cover

☐ **Model #400W***
One P-trap cover

☐ **Model #101 E-Z**
One P-trap cover, one angle valve cover

☐ **Model #401W***
One P-trap cover, one angle valve cover

☐ **Model #102 E-Z**
One P-trap cover, two angle valves and covers

☐ **Model #402W***
One P-trap cover, two angle valves and covers

☐ **Model #103 E-Z**
One P-trap cover, two angle valves and supply covers, one 5" offset tailpiece wheelchair strainer cover

☐ **Accessory #105 E-Z**
One 5" offset tailpiece wheelchair strainer assembly

*All #400W series items are the "original" LAV GUARD® design and construction. Specifications may change without notice.

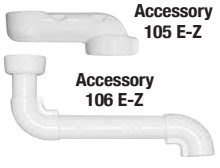
☐ **Accessory #105-K**
Kohler 6" offset

☐ **Accessory #106 E-Z**
One basket strainer cover and offset waste cover (adjustable to 18")

☐ **Accessory #107 E-Z**
Two basket strainer covers and center or end outlet waste cover (adjustable)

☐ **Accessory #Ex99 E-Z**
One 14" extension for water supply

☐ **Accessory #Ex100 E-Z**
One 14" extension for drain waste arm or tailpiece



Accessory 107 E-Z
(Configuration Options Shown)



IPS CORPORATION 500 Distribution Parkway, Collierville, TN 38017 ▪ Phone: 800-888-8312 ▪ Fax: 901-853-5008 ▪ www.ipscorp.com

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2.16 HIGHLANDS BUILDING ROGERS

Datasheets

HL-2

PREFER AMERICAN STANDARD SINK WITH SHROUD AS SHOWN ON ATTACHED PAGE.

American Standard

BARRIER FREE

MURRO™ UNIVERSAL DESIGN WALL-HUNG LAVATORY WITH EVERCLEAN®

VITREOUS CHINA/ACRYLIC

MURRO™ UNIVERSAL DESIGN WALL-HUNG LAVATORY WITH EVERCLEAN®

- Vitreous china with EverClean
- Available with rear overflow or less overflow
- Recessed self-draining deck
- For concealed arm or wall support
- Optional vitreous china shroud/knee contact guard 0059.020EC available
- Optional acrylic shroud for American Standard Selectronic Faucet 0062.000EC
- ADA and TAS compliant

❑ **0954.004EC** Faucet holes on 102mm (4") Ctrs with overflow (Illustrated)
❑ **0954.123EC** Faucet holes on 102mm (4") Ctrs with overflow
- Extra right-hand hole

❑ **0954.121EC** Faucet holes on 102mm (4") Ctrs with overflow
- Extra left-hand hole

❑ **0954.904EC** Faucet holes on 102mm (4") Ctrs less overflow
❑ **0958.008EC** Faucet holes on 203mm (8") Ctrs with overflow
❑ **0958.908EC** Faucet holes on 203mm (8") Ctrs less overflow
❑ **0955.001EC** Center hole only with overflow
❑ **0955.123EC** Center hole only with overflow
- Extra right-hand hole

❑ **0955.121EC** Center hole only with overflow
- Extra left-hand hole

❑ **0955.901EC** Center hole only less overflow

Nominal Dimensions:
520mm (20.5") deep, 540mm (21-1/4") wide

Bowl sizes:
394mm (15-1/2") wide, 343mm (13-1/2") front to back, 127mm (5") deep

❑ **0062.000EC Acrylic Shroud**
❑ **0059.020EC Shroud/Knee Contact Guard** (Vitreous China with EverClean) (Must be specified separately)



Shown with 0062.000EC shroud



Shown with 0059.020EC shroud

SEE REVERSE FOR ROUGHING-IN DIMENSIONS

To Be Specified:
❑ Color: ❑ White
❑ Optional Acrylic Shroud: 0062.000EC
❑ Optional Vitreous China Shroud/Knee Contact guard: 0059.020
❑ Faucet*:
❑ Faucet Finish:
❑ Supplies:
❑ 1-1/4" Trap:
❑ Nipple:

* See faucet section for additional models available

Compliance Certifications - Meets or Exceeds the Following Specifications:
- ASME A112.19.2 for Vitreous China Fixtures

MEETS THE AMERICANS WITH DISABILITIES ACT GUIDELINES AND ANSI A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES - CHECK LOCAL CODES.
Top of front rim mounted 864mm (34") from finished floor.

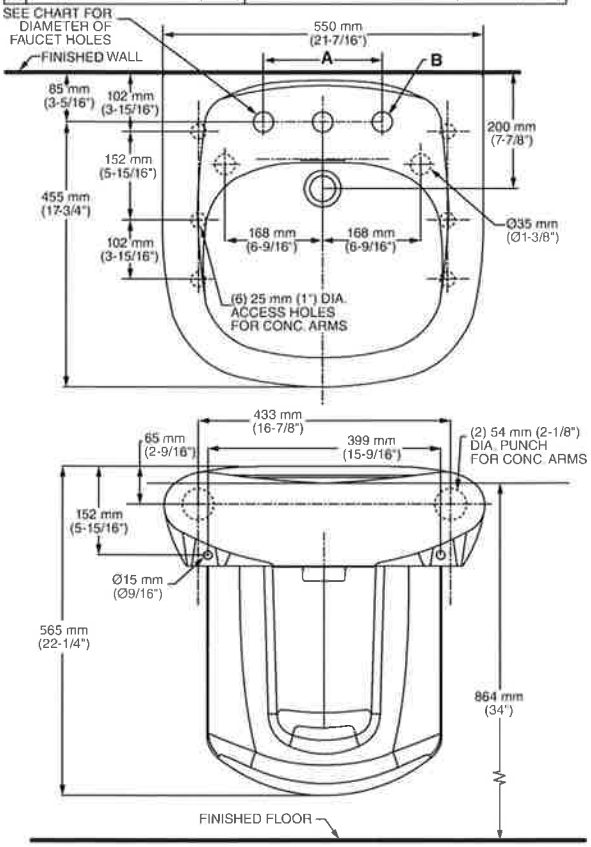
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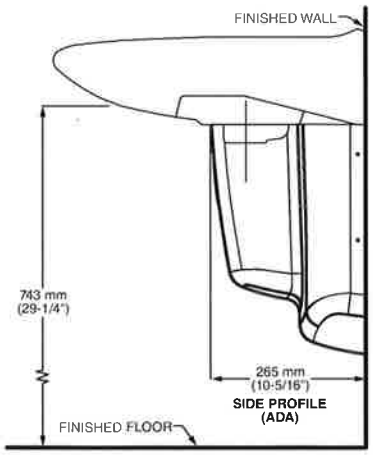
MURRO™ UNIVERSAL DESIGN WALL-HUNG LAVATORY WITH EVERCLEAN®

VITREOUS CHINA/ACRYLIC

MURRO WITH ACRYLIC SHROUD

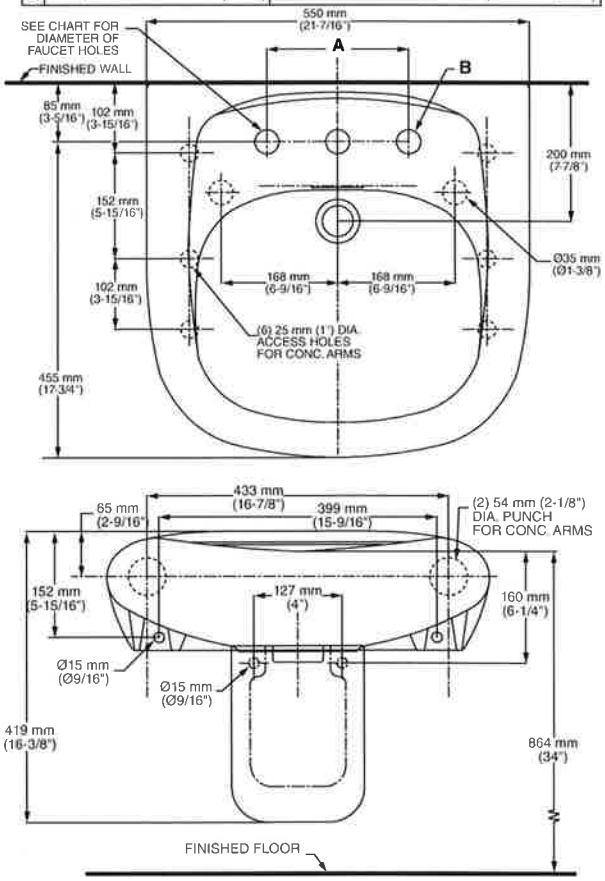
FAUCET HOLE SPREAD AND DIAMETER		
A	4" (102mm)	8" (203mm)
B	Ø 31,8mm, 1-1/4" ± 1/8" (3mm)	Ø 35mm, 1-3/8" + 1/8" - 1/16" (+3mm/-1,5mm)

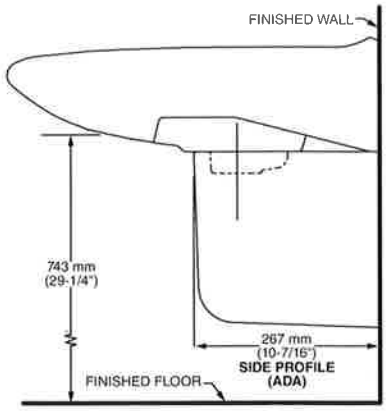




MURRO WITH VITREOUS CHINA SHROUD

FAUCET HOLE SPREAD AND DIAMETER		
A	4" (102mm)	8" (203mm)
B	Ø 31,8mm, 1-1/4" ± 1/8" (3mm)	Ø 35mm, 1-3/8" + 1/8" - 1/16" (+3mm/-1,5mm)





NOTES:

● LOOSE KEY ANGLE STOPS, LESS WALL ESCUTCHEONS. SUPPLIES REQUIRED.
* DIMENSIONS SHOWN FOR LOCATION OF SUPPLIES AND "P" TRAP ARE SUGGESTED.
SHROUD/KNEE CONTACT GUARD 0059.020 NOT INCLUDED AND MUST BE ORDERED SEPARATELY.
■ SUITABLE FOR REINFORCEMENT ONLY, ACTUAL DIMENSIONS MUST BE TAKEN FROM FIXTURE.
FITTINGS NOT INCLUDED AND MUST BE ORDERED SEPARATELY.
PROVIDE SUITABLE REINFORCEMENT FOR ALL WALL SUPPORTS.
INSTALLATION INSTRUCTIONS SUPPLIED WITH LAVATORY.
IMPORTANT: Dimensions of fixtures are nominal and may vary within the range of tolerances established by ANSI Standard A112.19.2.
These measurements are subject to change or cancellation. No responsibility is assumed for use of superseded or voided pages.

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Job Name : 2.16 HIGHLANDS BUILDING ROGERS
Manufacturer : ZURN
Model Number : Z5311

Type :

PROVIDE AMERICAN STANDARD WITH SHROUD

Model(s) Z5310
Wall Hung Lavatory Series

TAG_____

Architectural/Engineering Specification:
20" [508 mm] x 18" [457 mm] vitreous china wall hung lavatory with rear overflow. Provided with holes for concealed or exposed arm carrier systems.
*Note: -RS and -LS options only available with Z5311



PRODUCT FEATURES:
- 20" [508 mm] x 18" [457 mm]
- Vitreous china
- Faucet holes for single, 4" [102 mm] or 8" [203 mm] centers
- Available with right or left side soap hole punching (Single or 4" centers only)
- Rear overflow
- Wall hung lavatory for use with concealed or exposed arm carrier systems
- Waste: 1-1/4" [32 mm] O.D.
- Depth: 6-3/4" [171 mm]
- Shipping Weight: 35 lbs [16 kg]

Product Compliance: ASME A112.19.2/CSA B45.1
CSA B45.1

**Although products with certain combinations of options and features will meet or comply with these standards and/or certifications, not every combination of options and features will result in such compliance. If you have any questions about your particular product, please contact the Customer Care Dept. at 1-855-ONE-ZURN (United States) or 1-877-892-5216 (Canada) for confirmation.*

CONFIGURATIONS:

☐	Z5311	Sink with single faucet hole
☐	Z5314	Sink with 4" [102mm] center faucet holes
☐	Z5318	Sink with 8" [203mm] center faucet holes

Suffix Options:

☐	-LS	Left Side Soap Hole
☐	-RS	Right Side Soap Hole

RECOMMENDED TRIM:

☐	Z8743-PC	Grid Strainer
☐	Z8700 Series	P-Trap
☐	Z8800 Series	Top with Flexible Supplies
☐	Z8946-1-NT	ADA Trap, Stop, and Supply Protectors

OPTIONAL TRIM:

☐	Z8746-PC	ADA Grid Strainer
☐	Z8946-3-NT	ADA Trap, Stop and Supply Protectors for Offset Grid Strainer

Sink model was chosen based on Faucet in schedule. A/E please advise if this was the design intent.

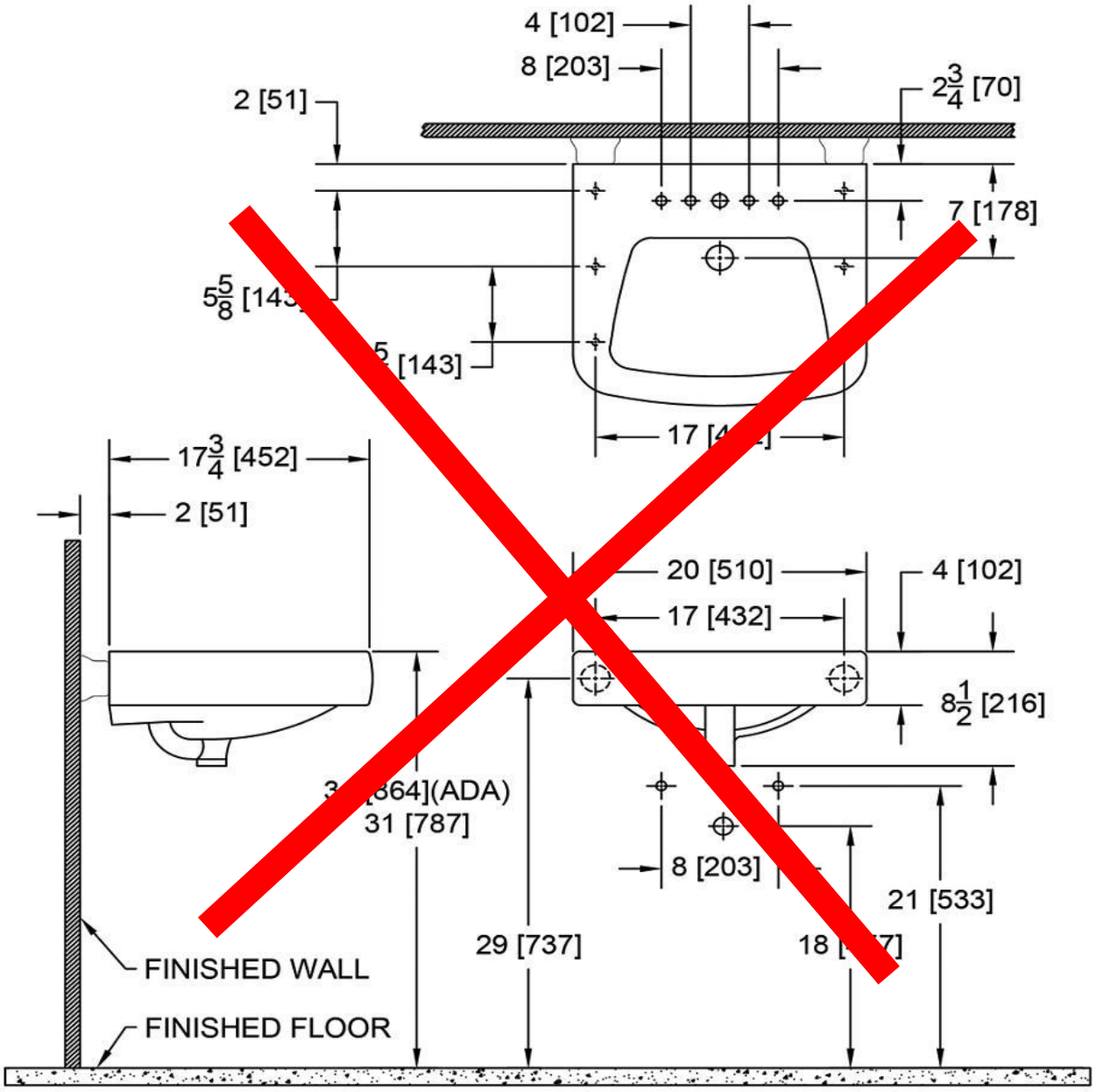
Architectural/Engineering Approval

Design and dimensional data (inches and [mm]) are subject to manufacturing tolerances and change without notice.

⚠WARNING: *Cancer and Reproductive Harm* – www.P65warnings.ca.gov
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Model(s) Z5310
Wall Hung Lavatory Series

TAG_____



NOTE: All dimensions are for reference only. Do not use for pre-plumbing.

Design and dimensional data (inches and [mm]) are subject to manufacturing tolerances and change without notice.

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⚠AVERTISSEMENT: Cancer *et effets néfastes sur la reproduction* – www.P65warnings.ca.gov

Job Name : 2.16 HIGHLANDS BUILDING ROGERS
Manufacturer : ZURN
Model Number : ZG6950-TMV-1

Type :

Model(s) ZG6950

Serio Series® Sensor Faucet With Gear-driven Ceramic Cartridge

TAG_____

Architectural/Engineering Specification:
Zurn Serio® Sensor Faucets create a more hygienic, sustainable, and reliable restroom experience by utilizing gear-driven ceramic cartridge operation with no solenoids to replace and renewable hydropower. The standard highefficiency, 0.5 gpm low-flow rate and adjustable timeout feature help save water to meet sustainability goals. Customize usage settings wirelessly by using Zurn Elkay's Bluetooth app, PlumbPro. Upgrade to the smart device version for fleet management, including real-time data. Zurn Lead Free products are durable, high quality brass faucets and fixtures that are designed and manufactured to comply with Section 1417 of the Safe Drinking Water Act (SDWA) which mandates the weighted average lead content of no more than 0.25% of the wetted surface.

PRODUCT FEATURES:

- Uses EZ Gear technology, a motor gear-driven ceramic cartridge that is less susceptible to debris and buildup for easy maintenance; outlasts and outperforms solenoids
- Hydro X Power ® technology delivers sustainable performance by providing renewable, uninterrupted hydropower designed to last the life of a commercial restroom.
- Intuitive and effortless, no-delay touchless sensor water activation
- Bluetooth-enabled for point-of-use wireless adjustability: Adjustable Time Out Feature (30-second default time out), Hygienic Line Flushing (on-demand or programmed), Sensing modes (on-demand or metering), Sensor Range Adjustment and Battery Status
- plumbSMART connected option available with suffix -W2 for remote monitoring and real-time usage insights to your connected plumbing ecosystem
- Shipped standard with high-efficiency water flow rates of 0.5 GPM; other flow rates available
- Quiet water flow and soft-close technology that eliminates water hammer
- Polished chrome standard finish, brushed nickel and matte black available

SUFFIX OPTIONS:

☐	-ADM	Above-Deck Mixer
☐	-CP4	Cover Plate 4" [102mm] Centers
☐	-CP8	Cover Plate 8" [203mm] Centers
☐	-MV	Temperature Mixing Valve
☐	-SH	Three Supply Hoses for Mixing Valve
☐	-SSH	Single Supply Hose
☐	-TMV-1	Thermostatic Mixing Valve for Single Faucets (ASSE Listed 1070)

POWER OPTIONS:

Power Supply Option		
☐	-ACA	6-VDC plug-in power converter
☐	-CWB	Connector wire for plug-in power converter

AERATOR OPTIONS:

	Suffix	Flowrate GPM [L]	Vandal-Resistant	WaterSense* Labeled	Outlet Type
☐	-Standard		x		Spray
☐	-E	1.5 GPM [5.7L]	x	x	Aerator
☐	-J	1.5 GPM [5.7L]	x	x	Laminar
☐	-K	1.0 GPM [3.8L]	x	x	Laminar
☐	-L	1.0 GPM [3.8L]	x	x	Aerator
☐	-M	0.35 GPM [1.3L]	x		Spray
☐	-N	0.5 GPM [1.9L]	x		Laminar



Product Compliance:
ADA
ASME A112.18.1/CSA B125.1
CEC
CSA B125.1
IPC
NSF 61
NSF 372
WaterSense

*Complies with ADA & ICC A117.1 accessibility requirements when installed according to the requirements outlined in these standards.

*This product should be used with a WaterSense labeled counterpart with a compatible flow volume to ensure that the entire system meets the requirements for water efficiency and performance.

Although products with certain combinations of options and features will meet or comply with these standards and/or certifications, not every combination of options and features will result in such compliance. If you have any questions about your particular product, please contact our Customer Care Dept. at 1-855-ONE-ZURN (United States) or 1-877-892-5216 (Canada) for confirmation.

Installation Guide - FV849

Architectural/Engineering Approval

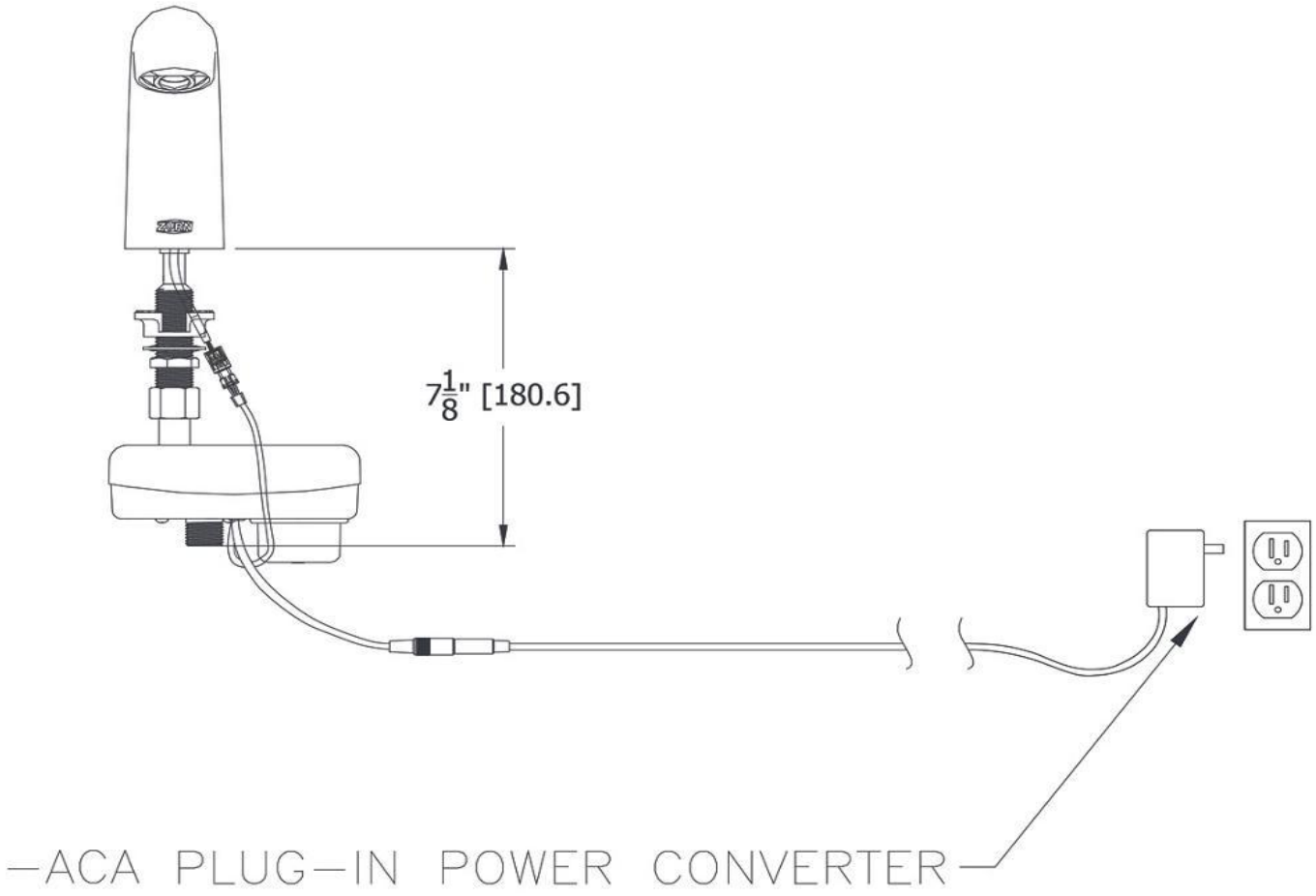
Design and dimensional data (inches and [mm]) are subject to manufacturing tolerances and change without notice.

⚠WARNING: *Cancer and Reproductive Harm* – www.P65warnings.ca.gov
⚠ADVERTENCIA: *Cáncer y daño reproductivo* – www.P65warnings.ca.gov
⚠AVERTISSEMENT: Cancer *et effets néfastes sur la reproduction* – www.P65warnings.ca.gov

Model(s) ZG6950

Serio Series® Sensor Faucet With Gear-driven Ceramic Cartridge

TAG_____



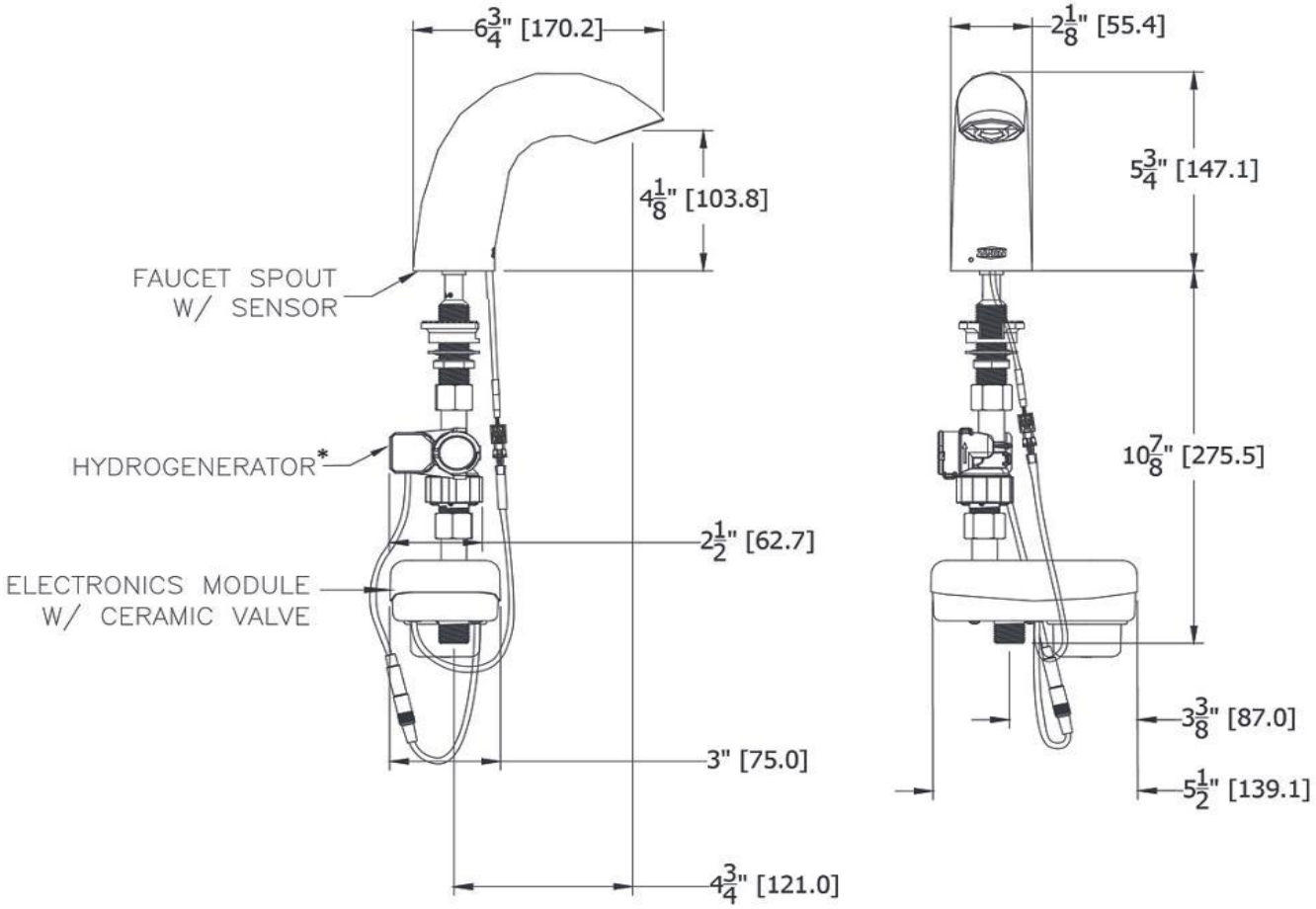
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Model(s) ZG6950

Serio Series® Sensor Faucet With Gear-driven Ceramic Cartridge

TAG_____



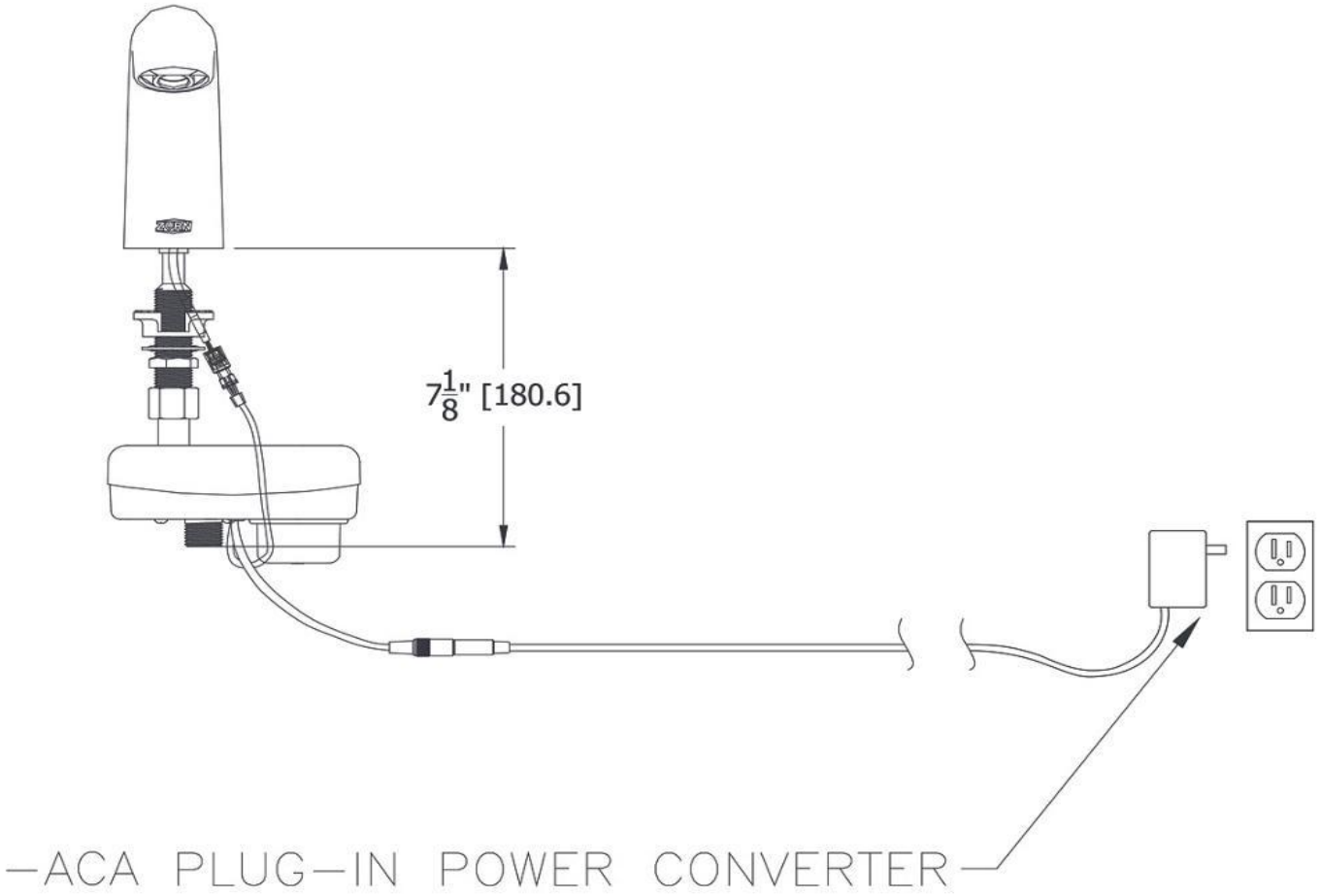
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⚠AVERTISSEMENT: Cancer *et effets néfastes sur la reproduction* – www.P65warnings.ca.gov

Model(s) ZG6950

Serio Series® Sensor Faucet With Gear-driven Ceramic Cartridge

TAG_____



NOTE: All dimensions are for reference only. Do not use for pre-plumbing.

Design and dimensional data (inches and [mm]) are subject to manufacturing tolerances and change without notice.

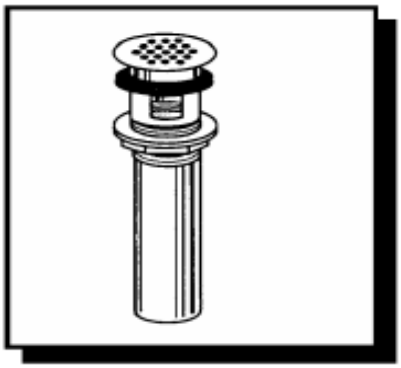
⚠WARNING: *Cancer and Reproductive Harm* – www.P65warnings.ca.gov
⚠ADVERTENCIA: *Cáncer y daño reproductivo* – www.P65warnings.ca.gov
⚠AVERTISSEMENT: Cancer *et effets néfastes sur la reproduction* – www.P65warnings.ca.gov

Dearborn® Brass
4675 W. 160th St.
Cleveland, Ohio 44135
Ph: (800) 321-9532
Fax: (800) 321-9535
www.dearbornbrass.com
SUBMITTAL SPECIFICATION

CAST GRID
PATENT OUTLET PLUG

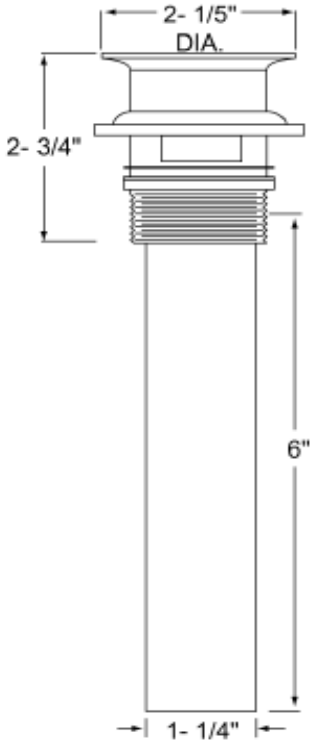
Engineering Specification: Dearborn Brass Semi-Cast Grid Patent Overflow Plug with 1-¼" x 6" – 17 gauge tailpiece.

Job Reference



DESCRIPTION

- Chrome Finished
- Includes: Cast Grid, P.O. Plug with nuts and washers and 17 gauge tailpiece
- Designed for installation in most commercial applications
- cUPC Listed



✓	Product No.	Description	Carton Quantity	Carton Weight (lbs)
	760-1	Semi-Cast Grid Patent Overflow Plug with 1-¼" x 6" – 17 gauge Tailpiece	25	18

Data is subject to manufacturing tolerances.

Visit www.dearbornbrass.com for updates 03/2009

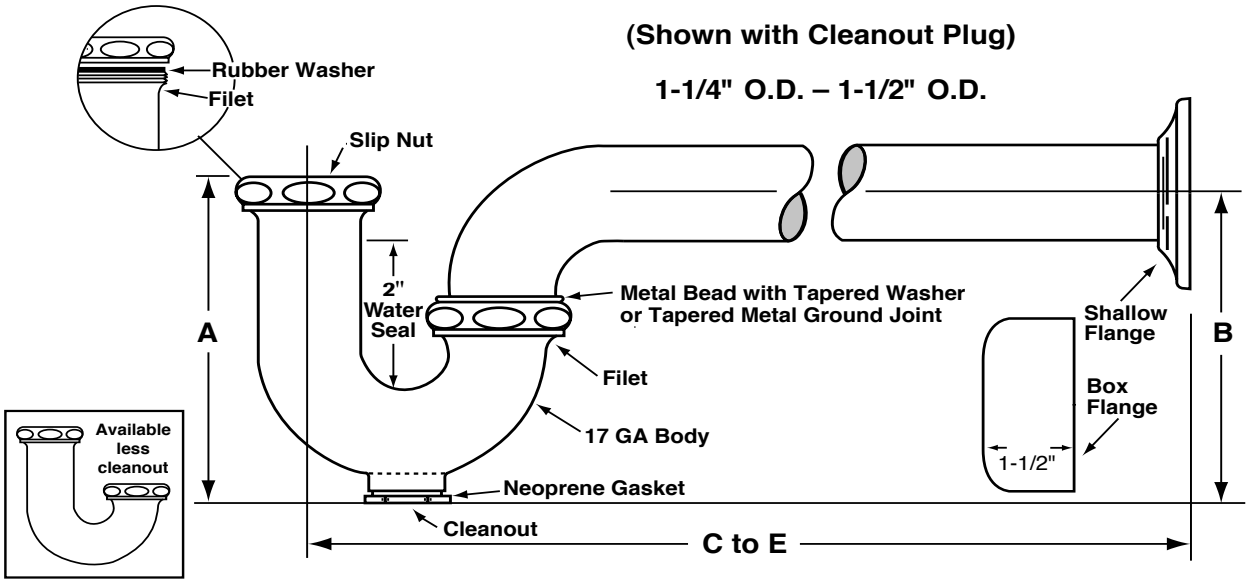
McGuire Manufacturing Co., Inc.
60 Grandview Court
P.O. Box 746♣ Cheshire, CT 06410
203-699-1801♣ Fax: 203-699-1813
www.mcguiremfg.com

PRODUCT SPECIFICATION

Part No.
MCT125 and MCT150 Series

Lite Commercial 17 GA Tubular P-Trap

Job Name: **Submittal Number:**



LITE COMMERCIAL ADJUSTABLE 17 GAUGE TUBULAR P-TRAPS

ROUGHING MEASUREMENTS							
MODEL NO.	TRAP DIMENSIONS		A	B	C to E	FLANGE	SLIP NUT
	INLET	OUTLET					
MCT125085	1-1/4"	1-1/4"	5"	4-1/2"	11"	Shallow	Brass
MCT125085B	1-1/4"	1-1/4"	5"	4-1/2"	11"	Box	Brass
MCT125085NC	1-1/4"	1-1/4"	4-5/8"	4-1/8"	11"	Shallow	Brass
MCT125085NCB	1-1/4"	1-1/4"	4-5/8"	4-1/8"	11"	Box	Brass
MCT125075ZN	1-1/4"	1-1/4"	5"	4-1/2"	10"	Shallow	Zinc
MCT125075NCZN	1-1/4"	1-1/4"	4-5/8"	4-1/8"	10"	Shallow	Zinc
MCT150090B	1-1/2", 1-1/4"	1-1/2"	5"	4-1/2"	12"	Box	Brass
MCT150075ZN	1-1/2", 1-1/4"	1-1/2"	5"	4-1/2"	10-1/2"	Shallow	Zinc
MCT150075NCZN	1-1/2", 1-1/4"	1-1/2"	4-5/8"	4-1/8"	10-1/2"	Shallow	Zinc
MCT150090NCB	1-1/2", 1-1/4"	1-1/2"	4-5/8"	4-1/8"	12"	Box	Brass
MCT150090NCGJB	1-1/2", 1-1/4"	1-1/2"	4-5/8"	4-1/8"	12"	Box	Brass
MCT150090NCGJ	1-1/2", 1-1/4"	1-1/2"	4-5/8"	4-1/8"	12"	Shallow	Brass

Suffix Designations
NC = No Cleanout Plug
GJ = Ground Joint Wall Bend

See options and accessories section for details on product variations.

Specifications:

P-Trap shall be 17 gauge seamless tubular brass with wall bend and flange.

© 2009 McGuire Manufacturing Company All rights reserved / I Traps / www.mcguiremfg.com / products

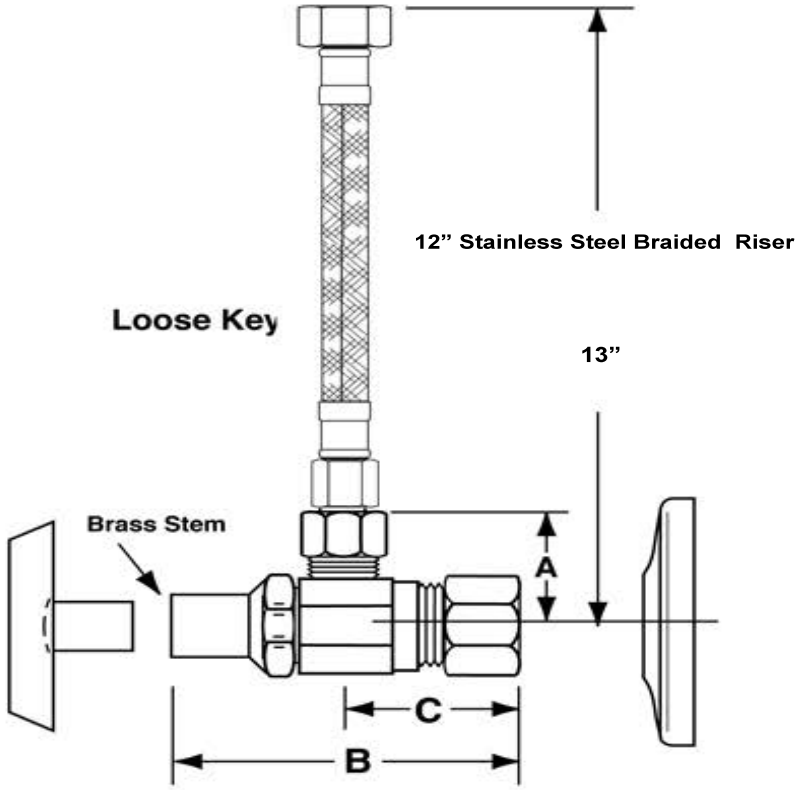
McGuire Manufacturing Co., Inc.
60 Grandview Court
Cheshire, Connecticut 06410
(203) 699-1801 Fax (203) 699-1813
customerservice@mcguiremfg.com mcguiremfg.com

PRODUCT SPECIFICATION

Part No.
LF2165CCLKSS12ECO

Compression x Compression Lavatory Supply

Job Name: **Submittal Number:**



NO.	DESCRIPTION	ROUGHING MEASUREMENTS		
		A	B	C
LF2165CCLKSS12ECO	1/2" Nominal x 3/8" O.D.	1"	2-3/8"	1"

- Rated Operating Pressure: 20-125 PSI
- Rated Operating Temperature: 40-140ºF
- Note: 180°F max. during temporary high-temperature system flush

LK designates Loose Key

* See options and accessories section for details on product variations.

NSF UPC ASME A112.18.1

Specifications:

Supply kit shall include lead free chrome plated supply brass stop valves with full turn brass stem, no plastic, 12 inch stainless steel braided risers and shallow steel flange. Inlet shall be 1/2 inch compression. Outlet shall be 3/8 inch compression. Supply kit shall be certified by recognized authority and bear manufacturer and testing mark.

WARNING:
This product can expose you to chemicals including lead, which is known to the State of California to cause cancer, and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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TRUEBRO IPS CORPORATION

LAV GUARD2 FAST FIT UNDERSINK PIPING COVERS

ADA-compliant undersink protection

Submittal Sheet

General Description:

LAV GUARD® 2E-Z Series waste and supply piping covers satisfy ADA compliance requirements. Built-in E-Z Grip internal fasteners and internal, E-Z Tear-To-Fit trimming feature allow for fast installation without tools. Series #100 E-Z kits are designed to fit on all tubular and cast brass P-trap assemblies. Series #400 kits are the "original" LAV GUARD design and fit schedule 40 ABS and PVC P-trap assemblies — regardless of their geometry or rotational offset.Valve cover completely encloses angle valve and supply tube for both handled and keyed type water stops.

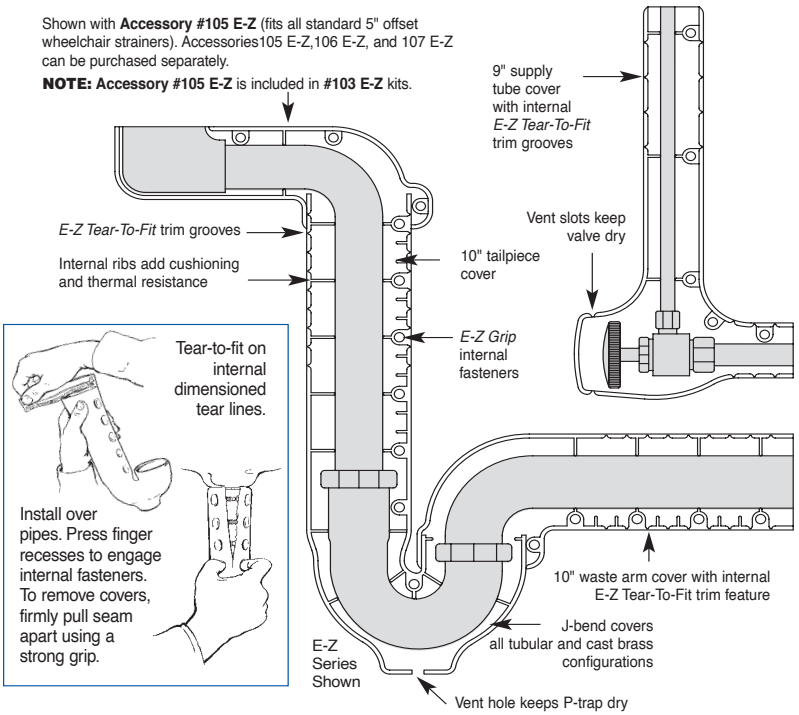
Material	Molded vinyl
Nominal Wall	1/8" constant
Durometer	70 - 80 - Shore A
UV Protection	Will not fade or discolor
Durability	Virtually indestructible
Trimming (E-Z Series)	Internal, *E-Z Tear-To-Fit* trim feature
Fasteners (E-Z Series)	Internal *E-Z Grip* fasteners (reusable)
Color	China white
Paintability	Apply Latex paint
Burning Characteristics ASTM D-635	Self extinguished 0 sec (ATB) 0 mm (AEB)
Bacteria/Fungus Resistance	ASTM G21 and G22/ Result: 0 growth
Maintenance	Use common detergents

Antimicrobial Vinyl Minimizes Maintainance

Lav Guard 2 is molded from impact-resistant, stain-resistant, antimicrobial vinyl. Its smooth surface makes it exceptionally easy to clean and maintain.

Manufactured under one or more of the following U.S. or Canadian patents. Other patents pending.

5,303,730 5,360,031 5,524,669 5,564,463 5,678,598 5,699,828 5,915,412 5,915,413 5,901,739 5,960,820 2,075,324 2,119,427 2,136,027 2,158,083



#100 E-Z Series *(shown above right) for tubular and cast brass P-trap assemblies.*
#400W* Series *(original design) for schedule 40 P-trap assemblies.*

☐ **Model #99 E-Z**
One angle valve and supply cover

☐ **Model #100 E-Z**
One P-trap cover

☐ **Model #400W***
One P-trap cover

☐ **Model #101 E-Z**
One P-trap cover, one angle valve cover

☐ **Model #401W***
One P-trap cover, one angle valve cover

☐ **Model #102 E-Z**
One P-trap cover, two angle valves and covers

☐ **Model #402W***
One P-trap cover, two angle valves and covers

☐ **Model #103 E-Z**
One P-trap cover, two angle valves and supply covers, one 5" offset tailpiece wheelchair strainer cover

☐ **Accessory #105 E-Z**
One 5" offset tailpiece wheelchair strainer assembly

*All #400W series items are the "original" LAV GUARD® design and construction. Specifications may change without notice.

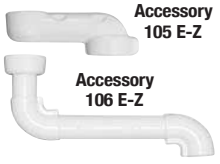
☐ **Accessory #105-K**
Kohler 6" offset

☐ **Accessory #106 E-Z**
One basket strainer cover and offset waste cover (adjustable to 18")

☐ **Accessory #107 E-Z**
Two basket strainer covers and center or end outlet waste cover (adjustable)

☐ **Accessory #Ex99 E-Z**
One 14" extension for water supply

☐ **Accessory #Ex100 E-Z**
One 14" extension for drain waste arm or tailpiece



Accessory 107 E-Z
(Configuration Options Shown)



IPS CORPORATION 500 Distribution Parkway, Collierville, TN 38017 ▪ Phone: 800-888-8312 ▪ Fax: 901-853-5008 ▪ www.ipscorp.com

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2.16 HIGHLANDS BUILDING ROGERS

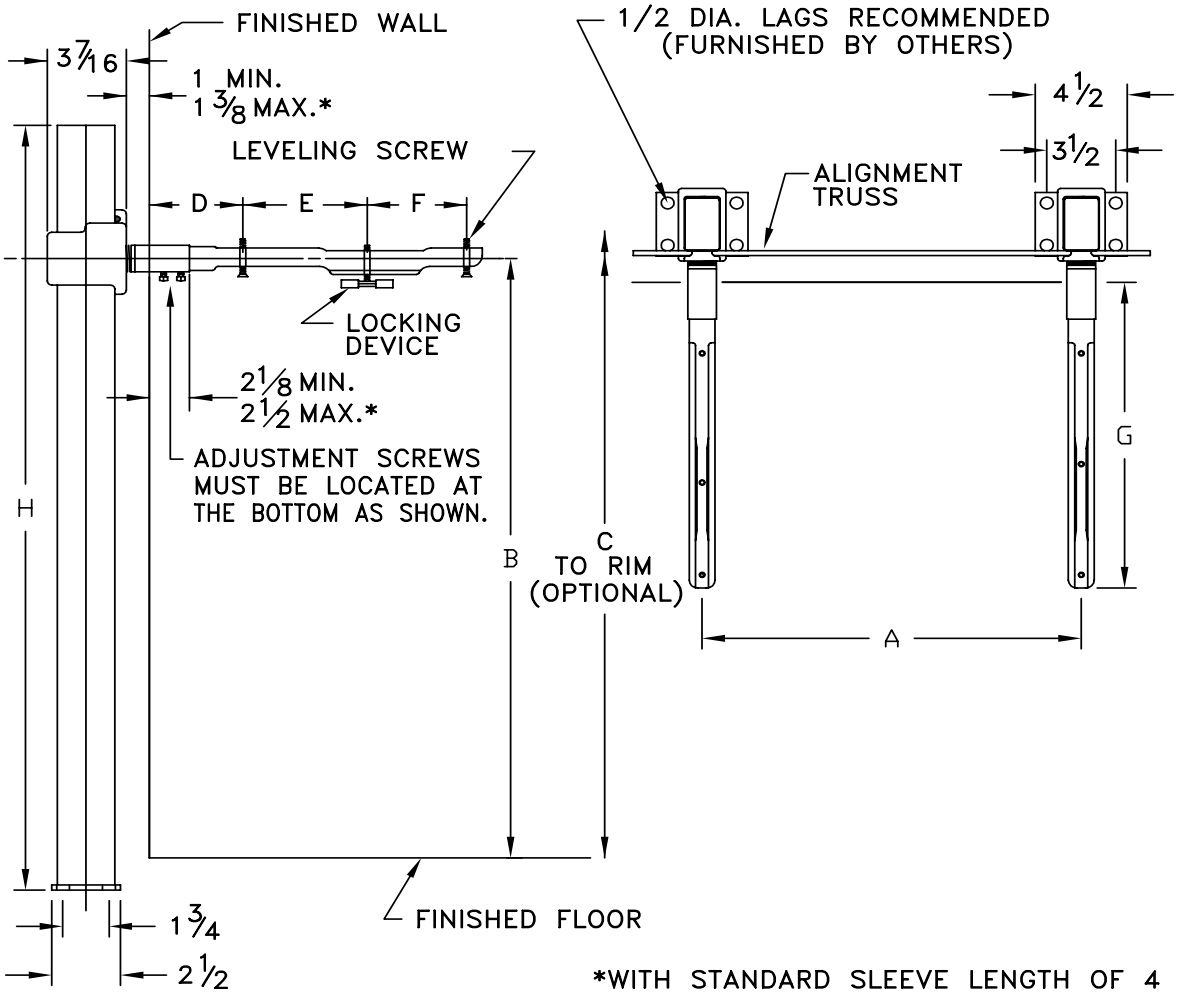
Datasheets

HL-2 CARRIER

Z1231 RIGID SYSTEM FOR AMERICAN STANDARD CO. LAVATORIES

DIMENSIONS SUBJECT TO MANUFACTURING TOLERANCES

AMERICAN STANDARD CO. REF.			ZURN REFERENCE							
NAME	CATALOG NO	SIZE	A	B	C	D	E	F	G	H
LUCERNE	0355.012, .034	20 1/2 X 18 1/4	16 3/4	29 3/4	31	4	6	6	16 1/2	36
LUCERNE	0356.015, .421, .439	20 1/2 X 18 1/4	16 3/4	29 3/4	31	4	6	6	16 1/2	36



*WITH STANDARD SLEEVE LENGTH OF 4

ENGINEERING SPECIFICATION:
AS SHOWN; "DURA-COATED" STEEL STANCHIONS WITH WELDED FEET, STEEL SLEEVES, CAST IRON HEADERS AND ARMS, ALIGNMENT TRUSS, AND MOUNTING BOLTS AND TRIM.

DATE: 2/10/05
REV. F
C.N. NO. 92944

PRODUCT NUMBER
Z1231

DRAWING NUMBER PAGE 3 OF 3
54511

ZURN INDUSTRIES, INC., SPECIFICATION DRAINAGE OPERATION, 1801 Pittsburgh Ave., Erie, PA 16514



2.16 HIGHLANDS BUILDING ROGERS

Datasheets

HS-1

INCORRECT IN SCHEDULE, THE CORRECT HS-1 SHOULD BE THE AMERICAN STANDARD AS SHOWN ON THE ATTACHED PAGE

INCORRECT IN SCHEDULE, THE CORRECT HS-1 SHOULD BE THE AMERICAN STANDARD AS SHOWN ON THE ATTACHED PAGE

ELKAY®
SPECIFICATIONS

Stainless Steel 18" x 14-1/2" x 11" 18 Gauge Hand Sink with Faucet

Model(s) EHS-18X

PRODUCT SPECIFICATIONS

Stainless Steel 18" x 14-1/2" x 11" 18 Gauge Hand Sink with Faucet. Sink is manufactured from 18 gauge 304 Stainless Steel with a #4 Finish , Center drain placement.

Material:	304 Stainless Steel
Finish:	#4 Finish
Gauge:	18
Weight Without Packaging:	12.5
Number of Bowls:	1
Sink Dimensions:	18" x 14-1/2" x 11"
Bowl 1 Dimensions:	14" x 10" x
Backsplash Height:	6
Drain Size:	1-1/2" (38mm)
Drain Location:	Center
Mounting Hardware:	Included

Special Note: Splash Mount, Goose Neck Faucet Incl d



Included with Product: **Faucet a trainer.**

A Century of Tradition and Quality.
For more than 100 years, Elkay has bee ng innovative products and providing exceptional cu r care. We take pride in offering plumbing products that ma easier, inspire change and leave the world a better place.

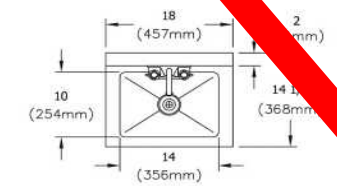
Product Compliance: ASME A112.19.3/CSA B45.4
NSF 2

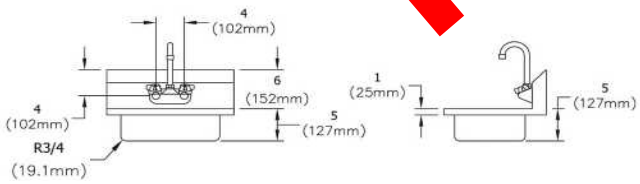
F t: ASME A112.18.1/CSA B125.1
NSF 372 (lead free)
NSF 61 (Q≤1)

Accessory: ASME A112.18.2/CSA B125.2

Sink listed by IAPMO® as meeting the applicable require ts of the Uniform Plumbing Code®, International Plumbing de®, and National Plumbing Code of Canada.

Clean and Care M al (PDF)
Installation Instructio PDF) - 2000000714
Warranty (PDF)





PART:_____QTY: _____
PROJECT:_____
CONTACT:_____
DATE:_____
NOTES:_____
APPROVAL:_____

In keeping with our policy of continuing product improvement, Elkay reserves the right to change product specifications without notice. Please visit elkay.com for the most current version of Elkay product specification sheets. This specification describes an Elkay product with design, quality, and functional benefits to the user. When making a comparison of other producers' offerings, be certain these features are not overlooked.

American Standard

BARRIER FREE

MURRO™ UNIVERSAL DESIGN WALL-HUNG LAVATORY WITH EVERCLEAN®

VITREOUS CHINA/ACRYLIC

MURRO™ UNIVERSAL DESIGN WALL-HUNG LAVATORY WITH EVERCLEAN®

- Vitreous china with EverClean
- Available with rear overflow or less overflow
- Recessed self-draining deck
- For concealed arm or wall support
- Optional vitreous china shroud/knee contact guard 0059.020EC available
- Optional acrylic shroud for American Standard Selectronic Faucet 0062.000EC
- ADA and TAS compliant

❑ **0954.004EC** Faucet holes on 102mm (4") Ctrs with overflow (Illustrated)
❑ **0954.123EC** Faucet holes on 102mm (4") Ctrs with overflow
- Extra right-hand hole

❑ **0954.121EC** Faucet holes on 102mm (4") Ctrs with overflow
- Extra left-hand hole

❑ **0954.904EC** Faucet holes on 102mm (4") Ctrs less overflow
❑ **0958.008EC** Faucet holes on 203mm (8") Ctrs with overflow
❑ **0958.908EC** Faucet holes on 203mm (8") Ctrs less overflow
❑ **0955.001EC** Center hole only with overflow
❑ **0955.123EC** Center hole only with overflow
- Extra right-hand hole

❑ **0955.121EC** Center hole only with overflow
- Extra left-hand hole

❑ **0955.901EC** Center hole only less overflow

Nominal Dimensions:
520mm (20.5") deep, 540mm (21-1/4") wide

Bowl sizes:
394mm (15-1/2") wide, 343mm (13-1/2") front to back, 127mm (5") deep

❑ **0062.000EC Acrylic Shroud**
❑ **0059.020EC Shroud/Knee Contact Guard** (Vitreous China with EverClean) (Must be specified separately)



Shown with 0062.000EC shroud



Shown with 0059.020EC shroud

SEE REVERSE FOR ROUGHING-IN DIMENSIONS

To Be Specified:
❑ Color: ❑ White
❑ Optional Acrylic Shroud: 0062.000EC
❑ Optional Vitreous China Shroud/Knee Contact guard: 0059.020
❑ Faucet*:
❑ Faucet Finish:
❑ Supplies:
❑ 1-1/4" Trap:
❑ Nipple:

* See faucet section for additional models available

Compliance Certifications - Meets or Exceeds the Following Specifications:
- ASME A112.19.2 for Vitreous China Fixtures

MEETS THE AMERICANS WITH DISABILITIES ACT GUIDELINES AND ANSI A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES - CHECK LOCAL CODES.
Top of front rim mounted 864mm (34") from finished floor.

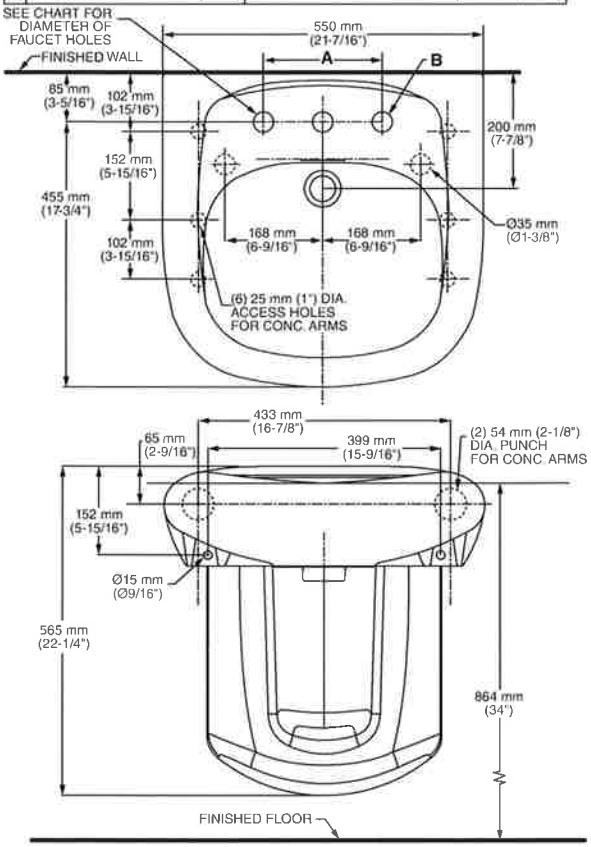
© 2015 AS America Inc.

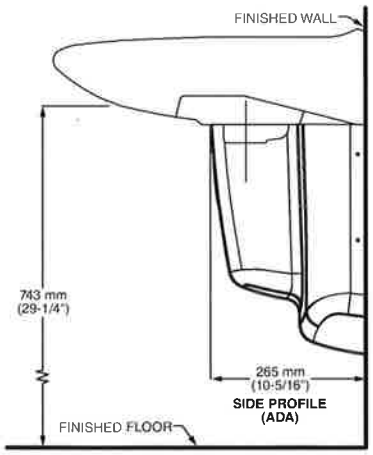
MURRO™ UNIVERSAL DESIGN WALL-HUNG LAVATORY WITH EVERCLEAN®

VITREOUS CHINA/ACRYLIC

MURRO WITH ACRYLIC SHROUD

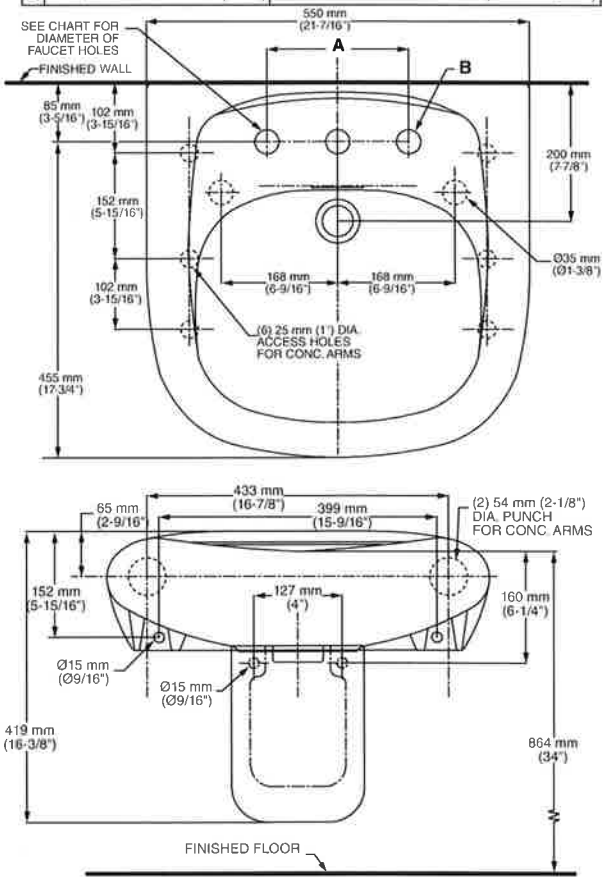
FAUCET HOLE SPREAD AND DIAMETER		
A	4" (102mm)	8" (203mm)
B	Ø 31,8mm, 1-1/4" ± 1/8" (3mm)	Ø 35mm, 1-3/8" + 1/8" - 1/16" (+3mm/-1,5mm)

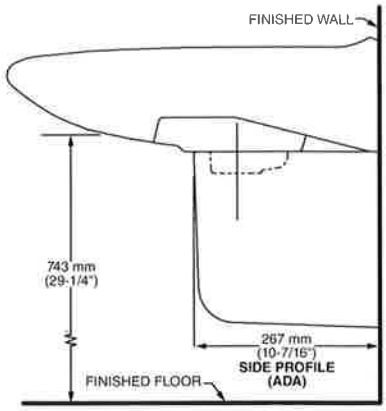




MURRO WITH VITREOUS CHINA SHROUD

FAUCET HOLE SPREAD AND DIAMETER		
A	4" (102mm)	8" (203mm)
B	Ø 31,8mm, 1-1/4" ± 1/8" (3mm)	Ø 35mm, 1-3/8" + 1/8" - 1/16" (+3mm/-1,5mm)





NOTES:

● LOOSE KEY ANGLE STOPS, LESS WALL ESCUTCHEONS. SUPPLIES REQUIRED.
* DIMENSIONS SHOWN FOR LOCATION OF SUPPLIES AND "P" TRAP ARE SUGGESTED.
SHROUD/KNEE CONTACT GUARD 0059.020 NOT INCLUDED AND MUST BE ORDERED SEPARATELY.
■ SUITABLE FOR REINFORCEMENT ONLY, ACTUAL DIMENSIONS MUST BE TAKEN FROM FIXTURE.
FITTINGS NOT INCLUDED AND MUST BE ORDERED SEPARATELY.
PROVIDE SUITABLE REINFORCEMENT FOR ALL WALL SUPPORTS.
INSTALLATION INSTRUCTIONS SUPPLIED WITH LAVATORY.
IMPORTANT: Dimensions of fixtures are nominal and may vary within the range of tolerances established by ANSI Standard A112.19.2.
These measurements are subject to change or cancellation. No responsibility is assumed for use of superseded or voided pages.

© 2015 AS America Inc.

model 7620

Faucet-Mounted Eyewash AXION® eyePOD®

FEATURES & BENEFITS

ACTIVATION

Easy one motion rotation (in either direction) to activate/deactivate the use of the unit.

THERMOSTATIC PROTECTION

Thermostatic protection that will protect the user from water over 100° F (37.8° C) by shutting off the eyewash.

INSTALLATION

Easy to install on a wide variety of sink faucets (not included) using a standard 55/64-27 thread stainless steel faucet connection, along with four additional adaptors provided (15/16-27 male, 13/16-27 male, 3/8-18 male and 13/16-24 female).

EYEWASH

AXION® eyePOD® eyewash head (patent pending) uses an inverted directional laminar flow to sweep contaminants away from the vulnerable nasal cavity.

FINISH

The stainless steel construction is rugged enough for any industrial application, and the polished surface is cosmetically suited for any professional office setting.

OPTIONS

For more information, visit www.hawsco.com or call (888) 640-42



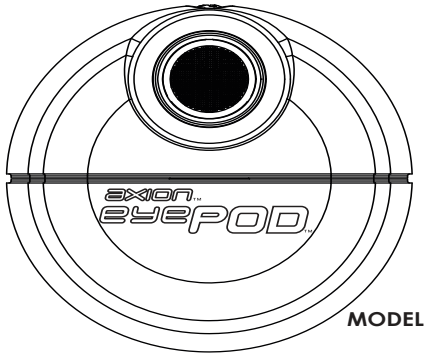
SPECIFICATIONS

Model [illegible] AXION® eyePOD® faucet mounted eyewash (patent pending) constructed of stainless steel with a polished finish, the unit shall feature inverted directional laminar flow which achieves zero velocity supplied by an integral .9 gpm (3.4 L) flow control. The faucet outlet flows at .5 gpm (1.9 L). The standard faucet connection is 55/64-27 stainless steel female thread, along with four additional adapters; 15/16-27 male, 13/16-27 male, 3/8-18 male and 13/16-24 female. An optional 1 gpm (3.8 L) laminar flow faucet outlet is also supplied. A thermostatic shutoff is used for water temperatures over 100° F (37.8° C). Operating pressure; 30-90 psi (2.1 – 6.2 bar). Dim; Diameter 3.5 in. (8.9 cm), height (from top to faucet outlet) 2 in. (5 cm)

APPLICATIONS

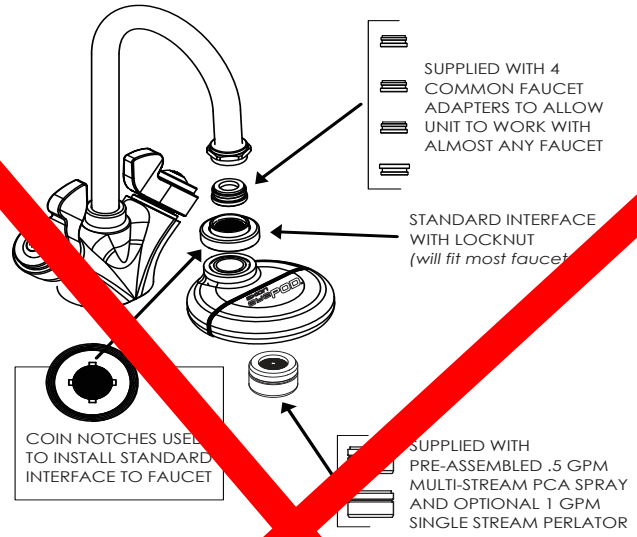
Where safety is of the utmost importance and the eyes of any person may be exposed to injurious or corrosive materials, suitable facilities for quick flushing and cleansing of the eyes be provided within the work area for immediate emergency use. Model 7620 is Certified by CSA to meet the ANSI/ISEA Z358.1 (provided input water is within tepid temperature range) and ASME A112.18.1/CSA B125.1 standards for Emergency Eyewash and Shower Equipment. Haws manufactures products to be lead-free by all known definitions including NSF/ANSI/CSA 61-Section 9, NSF/ANSI/CSA 372, California Proposition 65, and the Federal Safe Drinking Water Act. Product is compliant to California Health and Safety Code 116875 (AB 1953-2006), and NSF/ANSI/CAN 61: Q ≤ 1. along with current Federal Regulations for the disabled including those in the Americans with Disabilities Act when properly installed on an ADA compliant faucet/sink with knee clearance installation.

Haws®



MODEL 7620

HAWS CORPORATION
1455 KLEPPE LANE, SPARKS, NV 89431
775.359.4712 +1.888.640.4297
www.axion**eyepod**.com



EASY INSTALLATION

1. REMOVE AERATOR FROM YOUR FAUCET.
2. CHOOSE AND INSTALL THE APPROPRIATE ADAPTER BY THREADING IT ON TO YOUR FAUCET, IF NECESSARY. (THE STANDARD INTERFACE ON THE eyePOD™ WILL FIT MOST FAUCETS).
3. REMOV[illegible]KNUT AND STANDARD INTERFACE AND INSTALL THEM ON TO YOUR FA[illegible] TOGETHER USING COIN SLOTS. A QUARTER WORKS WELL.
4. T[illegible]O THE LOCKNUT BACK ONTO THE eyePOD™ MAKING SURE THAT THE [illegible]OD™ IS POSITIONED FACING FORWARD *(As shown in Faucet Mode)*.

[illegible]TE: FAILURE TO INSTALL PROPERLY MAY AFFECT ITS PROPER FUNCTIONING.

INSTALLATION AND USE NOTES

1. THE eyePOD™ IS DESIGNED FOR AND SHOULD ONLY BE USED WITH WATER BETWEEN 60°F (15°C) AND 100°F (37°C). IF ABOVE 100°F (37°C) THE EYEWASH STREAMS WILL BE SHUT OFF BY INTERNAL THERMO-STATIC VALVE.

NOTE: USE OF THE PRODUCT WITH WATER OUTSIDE THE STATED TEMPERATURE RANGE MAY AFFECT ITS OPERATION AND RESULT IN A RISK OF SERIOUS BURNS OR REDUCE ITS EFFICIENCY.

2. THE eyePOD™ IS SELF DRAINING WHEN PLACED IN THE FAUCET MODE. IT SHOULD ALWAYS BE RETURNED TO THE FAUCET MODE AFTER EYEWASH USE TO ALLOW FOR DRAINAGE.

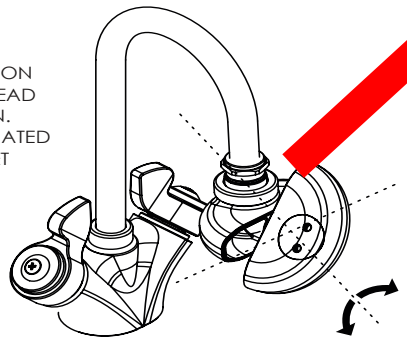
NOTE: WHEN INSTALLING THIS UNIT, LOCAL, STATE, OR FEDERAL CODES SHOULD BE ADHERED TO.

NOTE: ANSI Z358.1 COMPLIANT WHEN PROPERLY INSTALLED IN A WATER SYSTEM PROVIDING PROPER PRESSURE, VOLUME AND TEMPERATURE.

EASY TO USE ▬ TURN ON [illegible]AUCET A[illegible]D SELECT MODE OF OPERATION

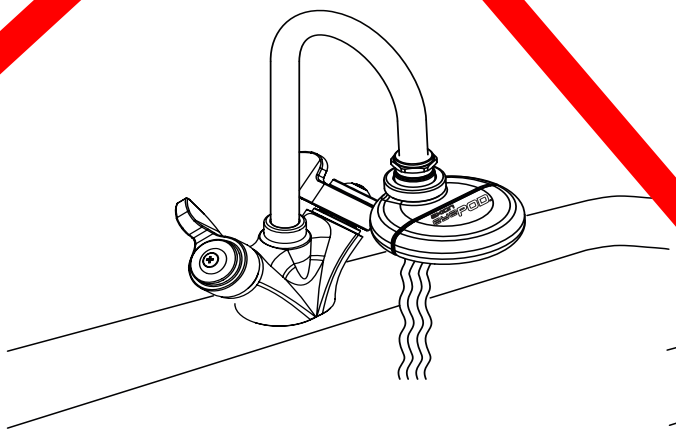
MODE SELECTION

THE eyePOD™ IS SWITCHED BETWEEN MODES OF OPERATION BY ROTATING THE HEAD IN EITHER DIRECTION. WATER IS STILL ACTUATED USING YOUR FAUCET CONTROLS.

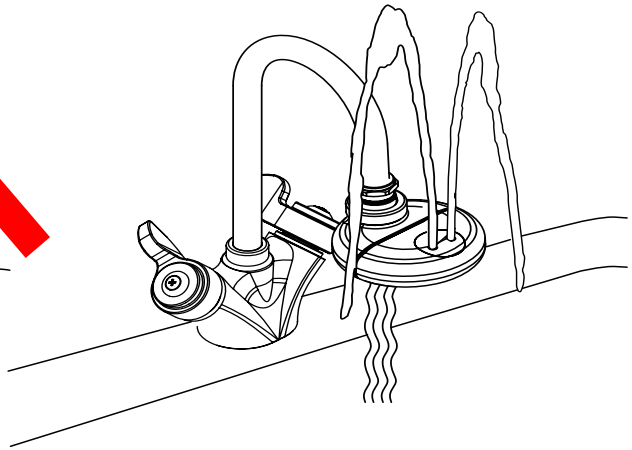


ROTATE IN EITHER DIRECTION

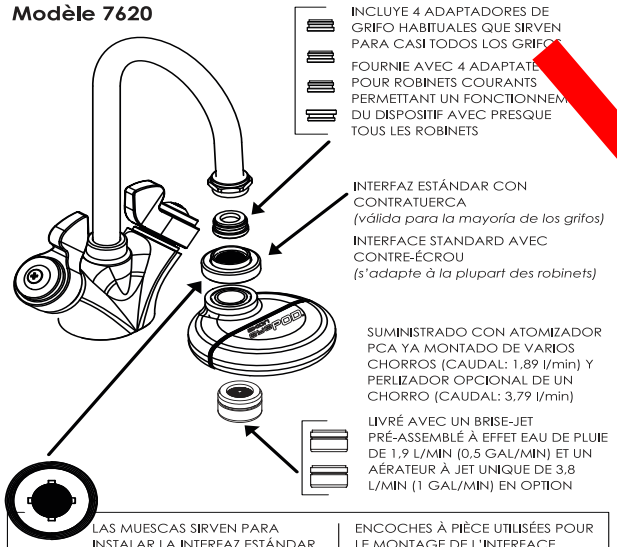
[illegible]CET MODE



EYEWASH MODE



Modelo 7620
Modèle 7620



INSTALACIÓN SENCILLA

1. EXTRAIGA EL AIREADOR DEL GRIFO.
2. ELIJA EL ADAPTADOR ADECUADO Y ENRÓSQUELO EN EL GRIFO PARA INSTALARLO, DE SER NECESARIO. (LA INTERFAZ ESTÁNDAR DEL eyePOD™ VALDRÁ PARA LA MAYORÍA DE LOS GRIFOS).
3. RETIRE LA CONTRATUERCA Y LA INTERFAZ ESTÁNDAR, E INSTÁLELAS EN EL GRIFO UTILIZANDO LAS MUESCAS. SE PUEDE UTILIZAR UNA MONEDA DEL TAMAÑO ADECUADO.
4. VUELVA A ENROSCAR LA CONTRATUERCA EN EL eyePOD™ CON CUIDADO DE QUE EL eyePOD™ ESTÉ ORIENTADO HACIA DELANTE *(como se muestra en el Modo Grifo)*

NOTA: EL MONTAJE INCORRECTO PUEDE AFECTAR AL FUNCIONAMIENTO.

NOTAS SOBRE LA INSTALACIÓN Y EL USO

1. EL eyePOD™ SE HA DISEÑADO PARA SU USO ÚNICAMENTE CON AGUA ENTRE 15 y 35°C. SI LA TEMPERATURA DEL AGUA ES MAYOR DE 35°C, UNA VÁLVULA TERMOSTÁTICA INTERNA CORTARÁ LOS CHORROS DE LAVADO.

NOTA: EL USO DE ESTE PRODUCTO CON AGUA A UNA TEMPERATURA FUERA DEL RANGO ESTABLECIDO PUEDE AFECTAR A SU FUNCIONAMIENTO, REDUCIR SU EFICIENCIA O CAUSAR QUEMADURAS GRAVES.

2. CUANDO SE ENCUENTRE EN EL MODO GRIFO, EL eyePOD™ DESAGUA AUTOMÁTICAMENTE. SE DEBE CAMBIAR SIEMPRE AL MODO GRIFO DESPUÉS DE LAVARSE LOS OJOS PARA EMITIR EL DESAGÜE.

NOTA: AL INSTALAR LA UNIDAD DEBEN CUMPLIRSE LAS NORMATIVAS LOCALES, REGIONALES O NACIONALES.

NOTA: CONFORME CON ANSI Z358.1 CUANDO SE INSTALA DE LA FORMA CORRECTA EN UN SISTEMA DE AGUA CON LA PRESIÓN, EL VOLUMEN Y LA TEMPERATURA ADECUADOS.

INSTALLATION FACILE

1. RETIREZ L'AÉRATEUR DU ROBINET.
2. CHOISISSEZ L'ADAPTATEUR ADÉQUAT ET VISSEZ-LE SUR VOTRE ROBINET, SI NÉCESSAIRE (L'INTERFACE STANDARD DE LA DOUCHE OCULAIRE eyePOD™ S'ADAPTE À LA PLUPART DES ROBINETS).
3. RETIREZ LE CONTRE-ÉCROU ET L'INTERFACE STANDARD, PUIS MONTEZ-LES ENSEMBLE SUR VOTRE ROBINET EN UTILISANT LES ENCOCHES À PIÈCE *(UTILISER UNE PIÈCE DE MONNAIE D'UNE DIMENSION APPROPRIÉE).*

VISSEZ LE CONTRE-ÉCROU SUR L'eyePOD™, EN VOUS ASSURANT QUE CELLE-CI EST ORIENTÉE VERS L'AVANT *(comme sur le schéma illustrant le Mode Robinet).*

REMARQUE: UN MONTAGE INCORRECT PEUT AFFECTER LE BON FONCTIONNEMENT DE LA DOUCHE OCULAIRE.

REMARQUES CONCERNANT L'INSTALLATION ET L'UTILISATION

1. L'eyePOD™ EST CONÇU POUR UNE CERTAINE PLAGE DE TEMPÉRATURES ET NE DOIT ÊTRE UTILISÉE QU'AVEC UNE EAU DONT LA TEMPÉRATURE EST COMPRISE ENTRE 15°C ET 35°C (60°F ET 95°F). AU-DELÀ DE 35°C, UNE VANNE THERMOSTATIQUE INTERNE ARRÊTE AUTOMATIQUEMENT LA DOUCHE OCULAIRE.

REMARQUE: L'UTILISATION DE CE DISPOSITIF AVEC DE L'EAU DONT LA TEMPÉRATURE NE SE SITUE PAS DANS LA PLAGE SPÉCIFIÉE PEUT AFFECTER SON FONCTIONNEMENT, RÉDUIRE SON EFFICACITÉ ET ENTRAÎNER DES RISQUES DE GRAVES BRÛLURES.

2. L'eyePOD™ SE VIDANGE ELLE-MÊME LORSQU'ELLE FONCTIONNE EN MODE ROBINET. POUR PERMETTRE CETTE VIDANGE, LE DISPOSITIF DOIT TOUJOURS ÊTRE REMIS EN MODE ROBINET UNE FOIS LE LAVAGE DES YEUX TERMINÉ.

REMARQUE: CE PRODUIT DOIT ÊTRE INSTALLÉ DANS LE RESPECT DES RÉGLEMENTATIONS LOCALES, NATIONALES OU FÉDÉRALES.

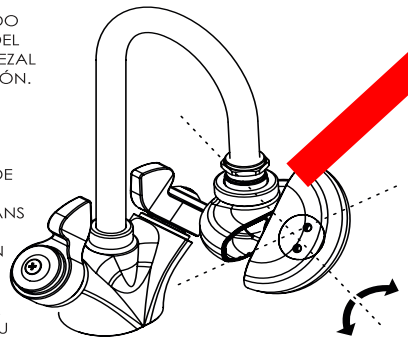
REMARQUE: CONFORMITÉ À LA NORME ANSI Z358.1 LORSQUE LE PRODUIT EST CORRECTEMENT MONTÉ SUR UN CIRCUIT DISTRIBUANT UNE EAU AUX CARACTÉRISTIQUES APPROPRIÉES (PRESSION, VOLUME ET TEMPÉRATURE).

FÁCIL DE USAR ■ ABRA EL GRIFO Y SELECCIONE EL MODO DE FUNCIONAMIENTO
FACILE À UTILISER ■ OUVRIR LE ROBINET PUIS CHOISIR LE MODE DE FONCTIONNEMENT

SELECCIÓN DEL MODO
CHOIX DU MODE

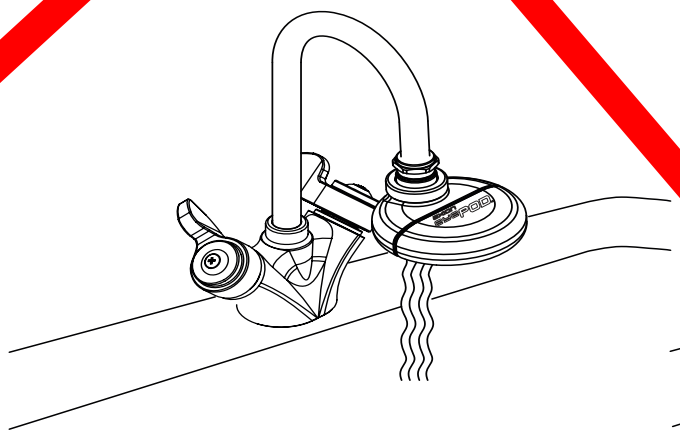
PARA CAMBIAR EL MODO DE FUNCIONAMIENTO DEL eyePOD™, GIRE EL CABEZAL EN CUALQUIER DIRECCIÓN. EL AGUA SE CONTROLA CON LOS MANDOS DEL GRIFO.

UNE SIMPLE ROTATION DE LA TÊTE DE LA DOUCHE OCULAIRE eyePOD™ DANS N'IMPORTE QUEL SENS PERMET DE PASSER D'UN MODE À L'AUTRE. LE CONTRÔLE DEL'EAU CONTINUE DE SEFAIRE À L'AIDE DES POIGNÉES DU ROBINET.

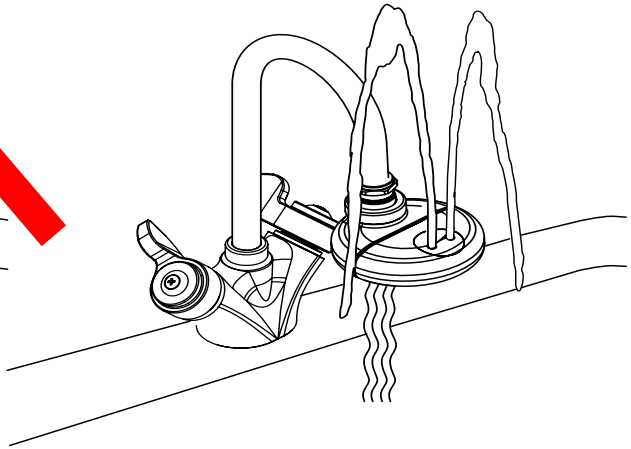


GIRE EN CUALQUIER DIRECCIÓN
TOURNER DANS UN SENS OU DANS L'AUTRE

MODO GRIFO
MODE ROBINET



MODO LAVADO DE OJOS
MODE DOUCHE OCULAIRE



0001510224.2

McGuire Manufacturing Co., Inc.
60 Grandview Court
Cheshire, Connecticut 06410
(203) 699-1801 Fax (203) 699-1813
customerservice@mcguiremfg.com mcguiremfg.com

PRODUCT SPECIFICATION

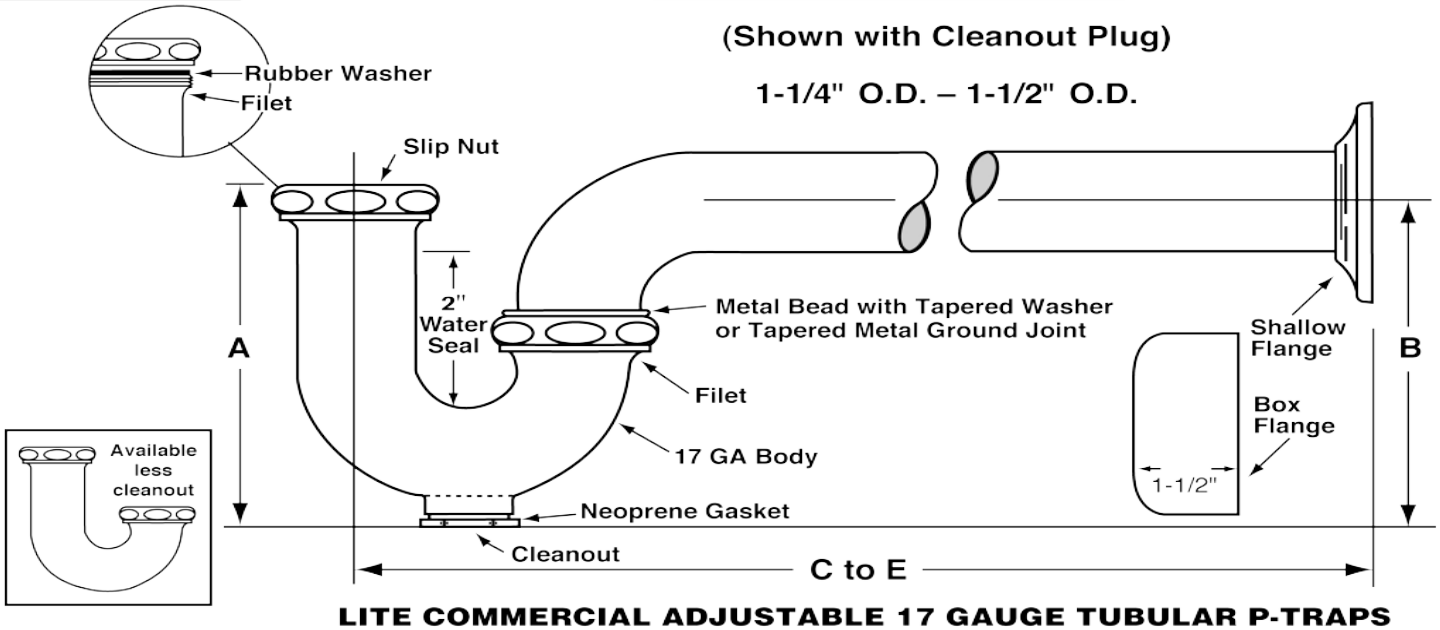
Part No.

MCT150 Series

Lite Commercial 17 GA Tubular P-Trap

Job Name:

Submittal Number:



LITE COMMERCIAL ADJUSTABLE 17 GAUGE TUBULAR P-TRAPS

Roughing Measurements

Model No.	INLET	OUTLET	A	B	C to E	Flange	Slip Nut
MCT150090B	1-1/2", 1-1/4"	1-1/2"	5-1/4"	5"	12"	Box	Brass
MCT150075ZN	1-1/2", 1-1/4"	1-1/2"	5-1/2"	5"	10-1/2"	Shallow	Zinc
MCT150075NCZN	1-1/2", 1-1/4"	1-1/2"	5"	4-3/4"	11"	Shallow	Zinc
MCT150090NCB	1-1/2", 1-1/4"	1-1/2"	5-1/4"	4-1/2"	12-1/4"	Box	Brass
MCT150090NCGJB	1-1/2", 1-1/4"	1-1/2"	5-1/4"	4-3/4"	12-1/4"	Box	Brass
MCT150090NCGJ	1-1/2", 1-1/4"	1-1/2"	5-1/4"	5"	12-1/4"	Shallow	Brass
MCT150150B	1-1/2", 1-1/4"	1-1/2"	5-1/4"	5"	18"	Box	Brass

Suffix Designations
NC = No Cleanout Plug
GJ = Ground Joint Wall Bend

AND/OR

ASME A112.18.2/CSA B125.2

Specifications:

P-Trap shall be 17 gauge seamless chrome plated tubular brass with wall bend and flange.

WARNING:
This product can expose you to chemicals including lead, which is known to the State of California to cause cancer, and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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1-1/2" FLANGED STRAINER TAILPIECES TECHNICAL SPECIFICATION

Job Name _____ Item # _____
Location _____
Engineer _____ Contractor _____
PO # _____ Tag _____
Representative _____

SPECIFICATIONS

Dearborn Brass Flanged Strainer Tailpieces are designed for use in tubular drain applications. Available in 17, 20 or Budget Gauge Brass. Options include Unfinished Brass and various tube lengths.

DESCRIPTION

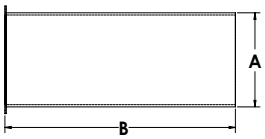
- Chrome or Unfinished Brass Finish
- Sink Strainer Tailpiece
  - (1) Flanged Strainer Tailpiece (flanged one or both ends)

APPROVALS AND LISTINGS

DIMENSIONS

[A]:	Size A	1.50"	[B]:	Length B	See Chart A.1





A.1 - LENGTHS

	Size 1-1/2" x 4"	Size 1-1/2" x 6"	Size 1-1/2" x 8"	Size 1-1/2" x 12"	Size 1-1/2" x 16"
Length C:	4"	6"	8"	12"	16"

Access BIM/Revit content through www.oatey.com

1-1/2" FLANGED STRAINER TAILPIECES TECHNICAL SPECIFICATION

PRODUCT SELECTOR

1-1/2" FLANGED STRAINER TAILPIECES

✓	Product Number	Size	Description	Carton Quantity
	799-1	1-1/2" x 4"	Flanged Strainer Tailpiece - Budget Ga.	10
	799-3	1-1/2" x 4"	Flanged Strainer Tailpiece - Budget Ga., Unfinished	10
	800-1	1-1/2" x 6"	Flanged Strainer Tailpiece - Budget Ga.	10
	801-1	1-1/2" x 8"	Flanged Strainer Tailpiece - Budget Ga.	10
	803-1	1-1/2" x 12"	Flanged Strainer Tailpiece - Budget Ga.	10
	803BD-1	1-1/2" x 12"	Double Flanged Strainer Tailpiece - Budget Ga.	10
	803ED-1	1-1/2" x 16"	Double Flanged Strainer Tailpiece - Budget Ga.	10
	800-20-1	1-1/2" x 6"	Flanged Strainer Tailpiece - 20 Ga.	10
	801-20-1	1-1/2" x 8"	Flanged Strainer Tailpiece - 20 Ga.	10
	801-20-3	1-1/2" x 8"	Flanged Strainer Tailpiece - 20 Ga., Unfinished	10
	803-20-1	1-1/2" x 12"	Flanged Strainer Tailpiece - 20 Ga.	10
	803-20-3	1-1/2" x 12"	Flanged Strainer Tailpiece - 20 Ga., Unfinished	10
	799-17-1	1-1/2" x 4"	Flanged Strainer Tailpiece -17 Ga.	10
	799-17-3	1-1/2" x 4"	Flanged Strainer Tailpiece, 17 Ga., Unfinished	10
	800-17-1	1-1/2" x 6"	Flanged Strainer Tailpiece -17 Ga.	10
	800-17-3	1-1/2" x 6"	Flanged Strainer Tailpiece -17 Ga., Unfinished	10
	801-17-1	1-1/2" x 8"	Flanged Strainer Tailpiece -17 Ga.	10
	801-17-3	1-1/2" x 8"	Flanged Strainer Tailpiece -17 Ga., Unfinished	10
	801-17-3	1-1/2" x 12"	Flanged Strainer Tailpiaece -17 Ga.	10
	803-17-3	1-1/2" x 12"	Flanged Strainer Tailpiece -17 Ga., Unfinished	10

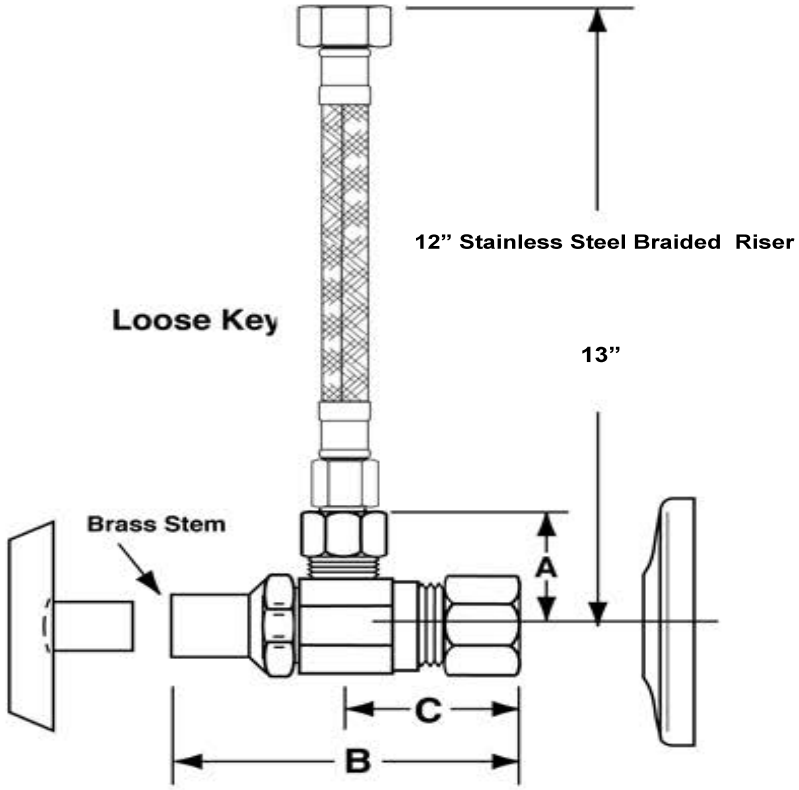
McGuire Manufacturing Co., Inc.
60 Grandview Court
Cheshire, Connecticut 06410
(203) 699-1801 Fax (203) 699-1813
customerservice@mcguiremfg.com mcguiremfg.com

PRODUCT SPECIFICATION

Part No.
LF2165CCLKSS12ECO

Compression x Compression Lavatory Supply

Job Name: **Submittal Number:**



NO.	DESCRIPTION	ROUGHING MEASUREMENTS		
		A	B	C
LF2165CCLKSS12ECO	1/2" Nominal x 3/8" O.D.	1"	2-3/8"	1"

- Rated Operating Pressure: 20-125 PSI
- Rated Operating Temperature: 40-140ºF
- Note: 180°F max. during temporary high-temperature system flush

LK designates Loose Key

* See options and accessories section for details on product variations.

NSF UPC ASME A112.18.1

Specifications:

Supply kit shall include lead free chrome plated supply brass stop valves with full turn brass stem, no plastic, 12 inch stainless steel braided risers and shallow steel flange. Inlet shall be 1/2 inch compression. Outlet shall be 3/8 inch compression. Supply kit shall be certified by recognized authority and bear manufacturer and testing mark.

WARNING:
This product can expose you to chemicals including lead, which is known to the State of California to cause cancer, and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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TRUEBRO IPS CORPORATION

LAV GUARD 2 FAST FIT UNDERSINK PIPING COVERS

ADA-compliant undersink protection

Submittal Sheet

General Description:

LAV GUARD® 2E-Z Series waste and supply piping covers satisfy ADA compliance requirements. Built-in E-Z Grip internal fasteners and internal, E-Z Tear-To-Fit trimming feature allow for fast installation without tools. Series #100 E-Z kits are designed to fit on all tubular and cast brass P-trap assemblies. Series #400 kits are the "original" LAV GUARD design and fit schedule 40 ABS and PVC P-trap assemblies — regardless of their geometry or rotational offset.Valve cover completely encloses angle valve and supply tube for both handled and keyed type water stops.

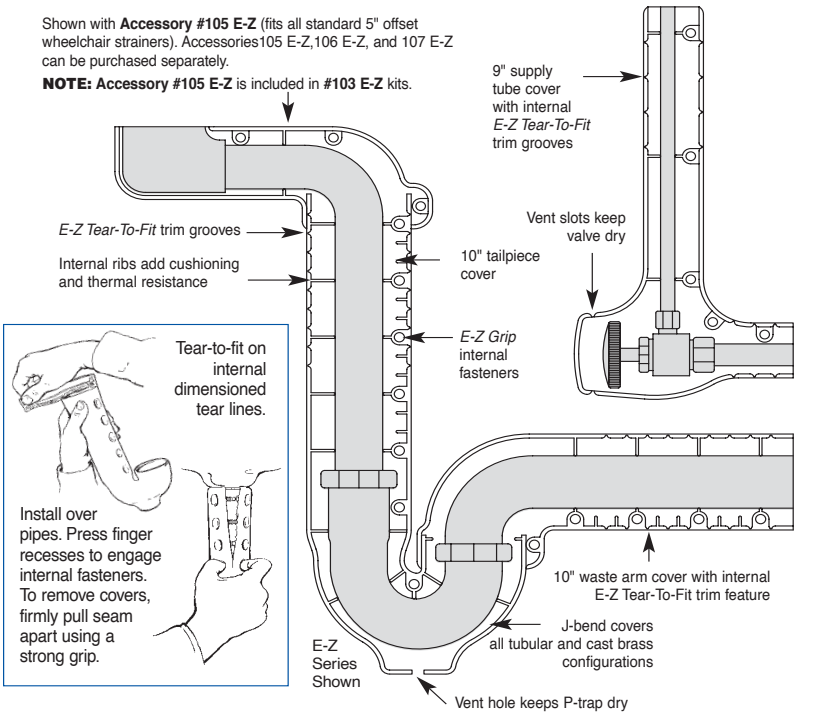
Material	Molded vinyl
Nominal Wall	1/8" constant
Durometer	70 - 80 - Shore A
UV Protection	Will not fade or discolor
Durability	Virtually indestructible
Trimming (E-Z Series)	Internal, *E-Z Tear-To-Fit* trim feature
Fasteners (E-Z Series)	Internal *E-Z Grip* fasteners (reusable)
Color	China white
Paintability	Apply Latex paint
Burning Characteristics ASTM D-635	Self extinguished 0 sec (ATB) 0 mm (AEB)
Bacteria/Fungus Resistance	ASTM G21 and G22/ Result: 0 growth
Maintenance	Use common detergents

Antimicrobial Vinyl Minimizes Maintainance

Lav Guard 2 is molded from impact-resistant, stain-resistant, antimicrobial vinyl. Its smooth surface makes it exceptionally easy to clean and maintain.

Manufactured under one or more of the following U.S. or Canadian patents. Other patents pending.

5,303,730 5,360,031 5,524,669 5,564,463 5,678,598 5,699,828 5,915,412 5,915,413 5,901,739 5,960,820 2,075,324 2,119,427 2,136,027 2,158,083



#100 E-Z Series *(shown above right) for tubular and cast brass P-trap assemblies.*
#400W* Series *(original design) for schedule 40 P-trap assemblies.*

☐ **Model #99 E-Z**
One angle valve and supply cover

☐ **Model #100 E-Z**
One P-trap cover

☐ **Model #400W***
One P-trap cover

☐ **Model #101 E-Z**
One P-trap cover, one angle valve cover

☐ **Model #401W***
One P-trap cover, one angle valve cover

☐ **Model #102 E-Z**
One P-trap cover, two angle valves and covers

☐ **Model #402W***
One P-trap cover, two angle valves and covers

☐ **Model #103 E-Z**
One P-trap cover, two angle valves and supply covers, one 5" offset tailpiece wheelchair strainer cover

☐ **Accessory #105 E-Z**
One 5" offset tailpiece wheelchair strainer assembly

*All #400W series items are the "original" LAV GUARD® design and construction. Specifications may change without notice.

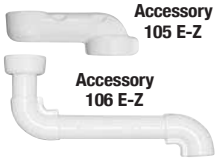
☐ **Accessory #105-K**
Kohler 6" offset

☐ **Accessory #106 E-Z**
One basket strainer cover and offset waste cover (adjustable to 18")

☐ **Accessory #107 E-Z**
Two basket strainer covers and center or end outlet waste cover (adjustable)

☐ **Accessory #Ex99 E-Z**
One 14" extension for water supply

☐ **Accessory #Ex100 E-Z**
One 14" extension for drain waste arm or tailpiece



Accessory 107 E-Z
(Configuration Options Shown)



IPS CORPORATION 500 Distribution Parkway, Collierville, TN 38017 ▪ Phone: 800-888-8312 ▪ Fax: 901-853-5008 ▪ www.ipscorp.com

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2.16 HIGHLANDS BUILDING ROGERS

Datasheets

HS-2

PROVIDE WDS-1

Model(s) Z5220

19"x16" Oval Undermount Lavatory

TAG_____

Architectural/Engineering Specification:

19" x 16" vitreous China undermount lavatory.

PRODUCT FEATURES:

- 19" [483 mm] x 16" [406 mm]
- [illegible]eous china
- R[illegible]ss oval design for undermount installation
- Fro[illegible]verflow
- Waste [illegible]/4" O.D.
- Depth: 5[illegible]
- Shipping W[illegible]ht: 22 lbs.



RECOMMENDED TRI[illegible]

☐	Z8743-PC	[illegible]id Strainer
☐	Z8700 Series	[illegible]ap
☐	Z8800 Series	To[illegible]th Flexible Supplies
☐	Z8946-1-NT	ADA [illegible], Stop, and Supply Protect[illegible]

OPTIONAL TRIM:

☐	Z8746-PC	ADA Grid Stra[illegible]
☐	Z8946-3-NT	ADA Trap, Stop, [illegible] Supply Protectors for Offset Grid Straine[illegible]

Product Compli[illegible]

ADA
ASME A112.19.2/CSA B45.1
CSA B45.1
IPC

*Con[illegible]s with ADA & ICC A117.1 accessibility requirements when in[illegible]ed according to the requirements outlined in these standards.

Although products with certain combinations of options and features will meet or comply with these standards and/or certifications, not every combination of options and features will result in such compliance. If you have any questions about your particular product, please contact our Customer Care Dept. at 1-855-ONE-ZURN (United States) or 1-877-892-5216 (Canada) for confirmation.

Architectural/[illegible]ineering Approval

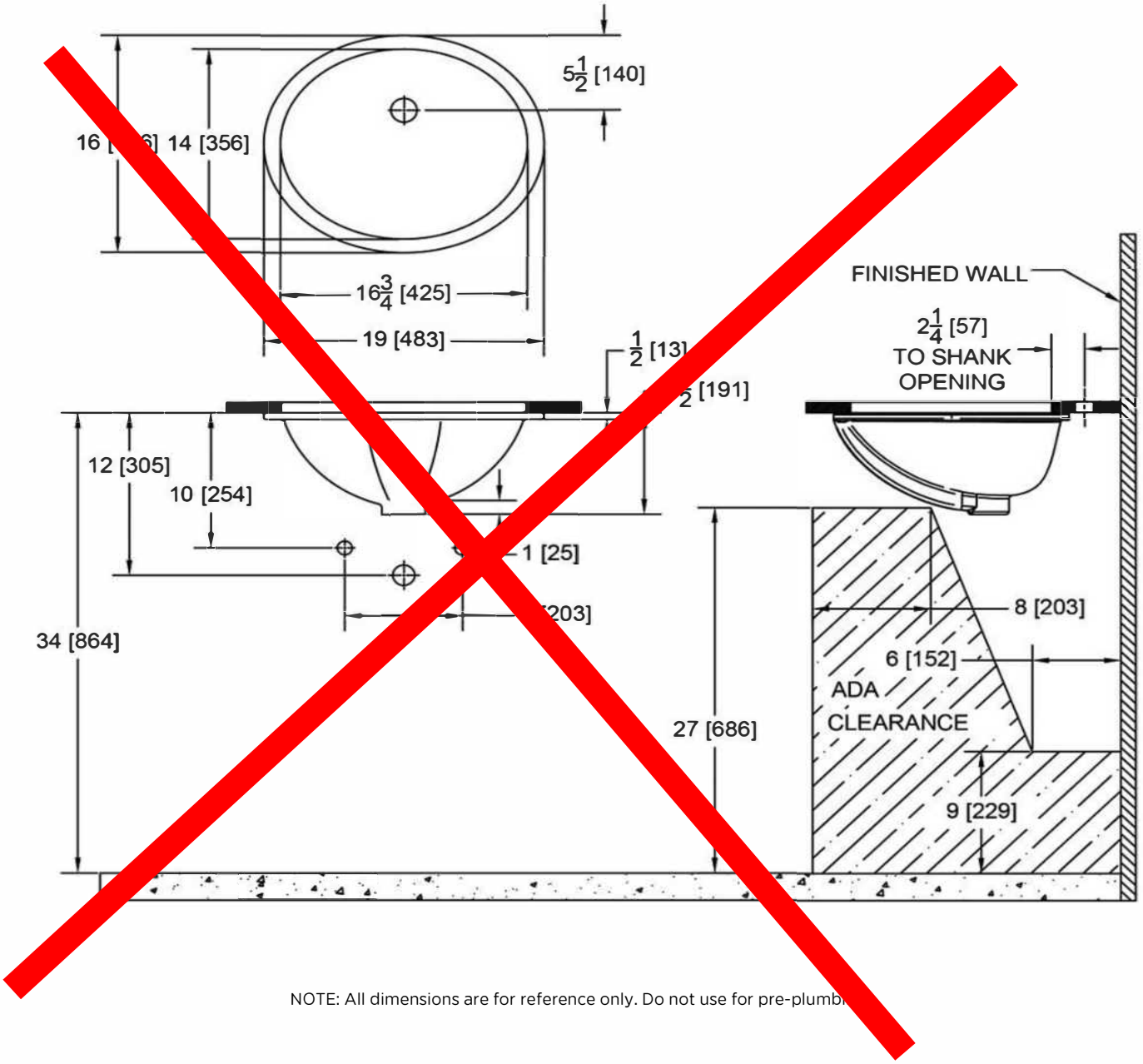
Design and dimensional data (inches and [mm]) are subject to manufacturing tolerances and change without notice.

⚠WARNING: *Cancer and Reproductive Harm – www.P65warnings.ca.gov*
⚠ADVERTENCIA: *Cáncer y daño reproductivo – www.P65warnings.ca.gov*
⚠AVERTISSEMENT: Cancer *et effets néfastes sur la reproduction – www.P65warnings.ca.gov*

Model(s) Z5220

19″x16″ Oval Undermount Lavatory

TAG_____



NOTE: All dimensions are for reference only. Do not use for pre-plumbi

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WDS-1

WATER DISPENSING STATION:

EQUIP BY T&S
5GF-8P-WS

WATER STATION W/ PEDESTAL TYPE RETRO GLASS FILLER, 18 GAUGE STAINLESS STEEEL DRIP PAN, GE GXULQK FULL FLOW WATER FILTERATION SYSTEM W/ GXULQR FILTER UNDER COUNTER, COORDINATE EXACT LOCATION WITH ARCHITECT'S MILLWORK PLANS

THIS ITEM HAS BEEN INCORRECTLY NOTED IN THE PLUMBING SCHEDULE AS HS-2, AND IS LOCATED IN THE SNACK BAR 349A ADJACENT TO THE MAIN SINK AS SHOWN ON THE ATTACHED PLAN

Glass Fillers

5GF-8P-WS

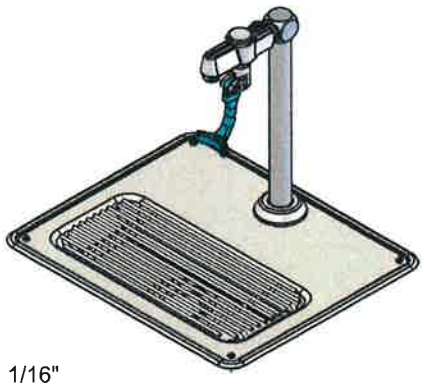
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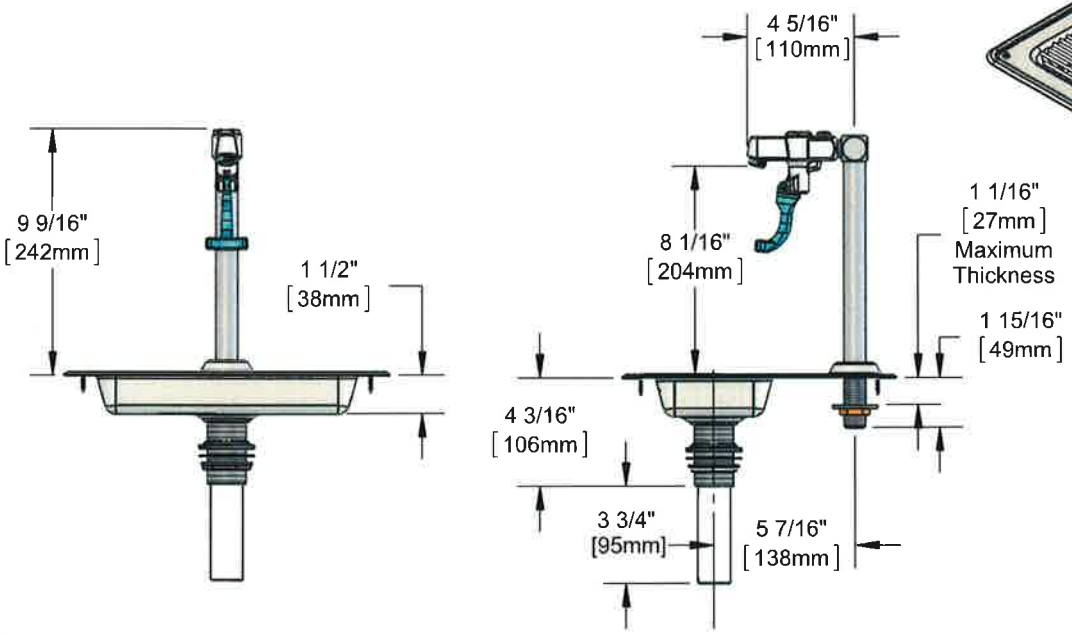
Water Station

Architect/Engineering Specifications:

Deck mount water station with polished chrome plated brass body pedestal type glass filler, adjustable flow outlet, push back actuation arm, pedestal with adjustable deck flange, 18 gauge stainless steel drip pan with drip in grid and 1 1/4" drain. Certiified to ASME A112.18.1\CSA B125.1, NSF 61-Section 9 and NSF 372. Meets ADA ANSI\ICC A117.1 requirments.

Job Name_____
Model Specified_____Quantity_____
Variations Specified_____
Date_____





Features & Benefits:

- Deck mount water station
- 8" deck mount glass filler w/ polished chrome plated brass body
- Screw driver adjustable flow outlet
- Instantaneous shut-off
- 1/2" NPT male inlet
- Pedestal w/ adjustable ∅2" flange
- 1 1/4" Drain
- Material: Polished chrome plated brass body & pedestal, chrome plated metal flange, 18 gauge stainless steel drip pan and stainless steel grid

Product Compliance:

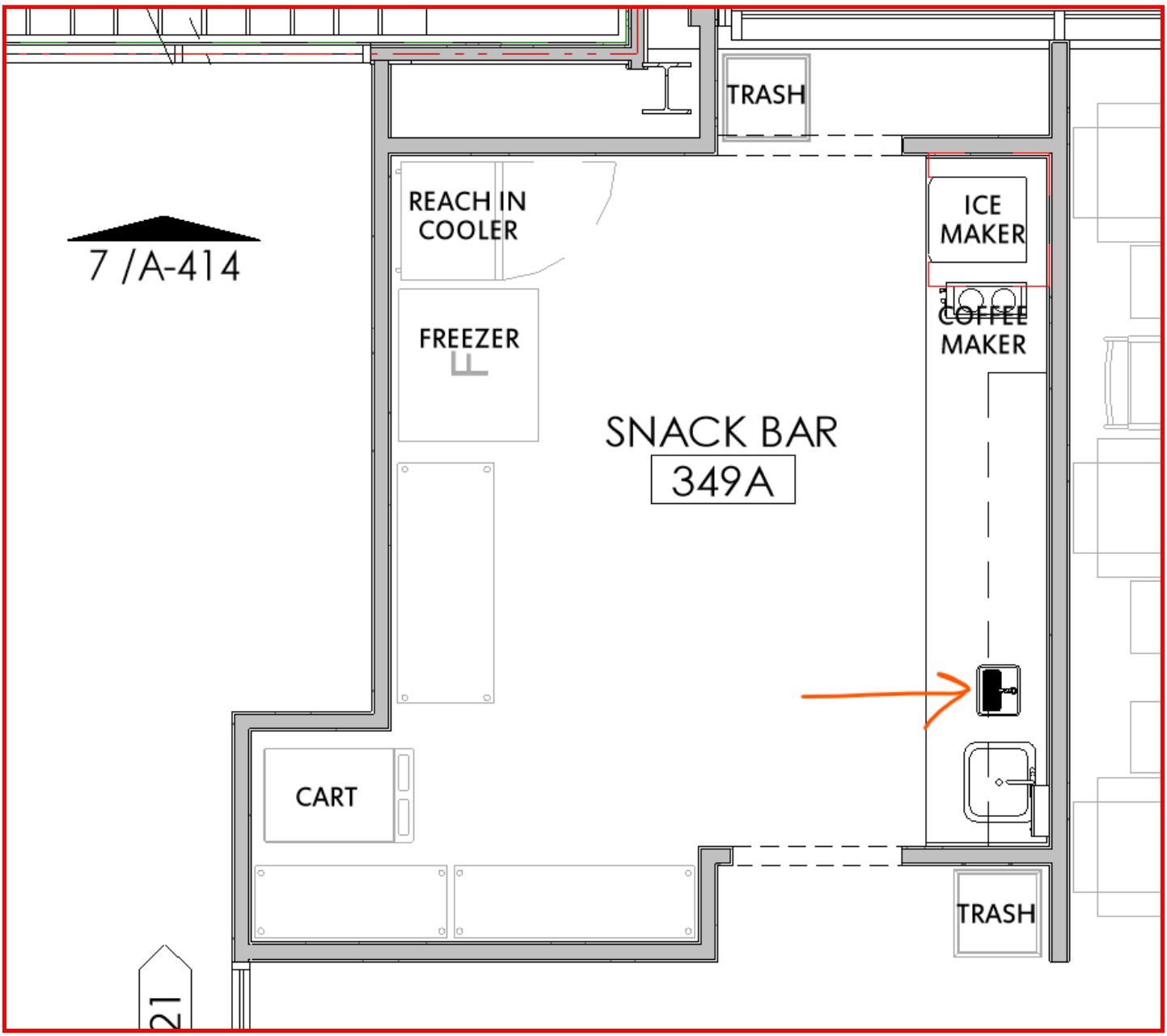
- ASME A112.18.1 / CSA B125.1
- NSF 61 - Section 9
- NSF 372 (Low Lead Content)
- ANSI A117.1 (ADA)

Warranty: One Year (Limited)

Performance Data:

- Pressure: 20 - 125 psi
- Temperature: 40°F - 140°F
- Flow Rate: 0.25 GPM min @ 60 psi
  2.50 GPM max @ 60 psi
- Discharge Rate: 18.00 GPM

ADA Compliant


TRASH
REACH IN COOLER
ICE MAKER
COFFEE MAKER
7 /A-414
FREEZER
SNACK BAR
349A
CART
TRASH
21

Job Name : 2.16 HIGHLANDS BUILDING ROGERS
Manufacturer : ZURN
Model Number : ZG6950-TMV-1

PROVIDE WDS-1

Type :

Model(s) ZG6950

Serio Series® Sensor Faucet With Gear-driven Ceramic Cartridge

TAG_____

Architectural/Engineering Specification:

Zurn Serio® Sensor Faucets create a more hygienic, sustainable, and reliable restroom experience by utilizing gear-driven ceramic cartridge operation with no solenoids to replace and renewable hydropower. The standard highefficiency, 0.5 gpm low-flow rate and adjustable timeout feature help save water to meet sustainabi[illegible]oals. Customize usage settings wirelessly by using Zurn Elkay's Bluetooth a[illegible]lumbPro. Upgrade to the smart device version for fleet management, [illegible]ding real-time data. Zurn Lead Free products are durable, high quality bras[illegible]cets and fixtures that are designed and manufactured to comply with Sectio[illegible]7 of the Safe Drinking Water Act (SDWA) which mandates the weight[illegible]verage lead content of no more than 0.25% of the wetted surface.



PRODUCT FEATURES:

- Uses EZ Gear technolo[illegible] motor gear-driven ceramic cartridge that is less susceptible to debris[illegible] buildup for easy maintenance; outlasts and outperforms solenoids
- Hydro X Power ® technology [illegible]ers sustainable performance by providing renewable, uninterrup[illegible] hydropower designed to last the life of a commercial restroom.
- Intuitive and effortless, no-delay tou[illegible]s sensor water activation
- Bluetooth-enabled for point-of-use wi[illegible]s adjustability: Adjustable Time Out Feature (30-second default ti[illegible]t), Hygienic Line Flushing (on-demand or programmed), Sensing mo[illegible](on-demand or metering), Sensor Range Adjustment and Battery Statu[illegible]
- plumbSMART connected option available with [illegible]-W2 for remote monitoring and real-time usage insights to your c[illegible]cted plumbing ecosystem
- Shipped standard with high-efficiency water flow rate[illegible]0.5 GPM; other flow rates available
- Quiet water flow and soft-close technology that eliminates[illegible]er ham[illegible]
- Polished chrome standard finish, brushed nickel and matte b[illegible]a[illegible]e

Product Compliance:

ADA
ASME A112.18.1/CSA B125.1
CEC
CSA B125.1
IPC
NSF 61
NSF 372
WaterSense

[illegible]plies with ADA & ICC A117.1 accessibility requirements when installed [illegible]cording to the requirements outlined in these standards.

*This product should be used with a WaterSense labeled counterpart with a compatible flow volume to ensure that the entire system meets the requirements for water efficiency and performance.

**Although products with certain combinations of options and features will meet or comply with these standards and/or certifications, not every combination of options and features will result in such compliance. If you have any questions about your particular product, please contact our Customer Care Dept. at 1-855-ONE-ZURN (United States) or 1-877-892-5216 (Canada) for confirmation.*

[illegible]allation Guide - FV849

SUFFIX OPTIONS:

☐	-ADM	Above-Deck Mixer
☐	-CP4	Cover Plate 4" [102mm] Centers
☐	-CP8	Cover Plate 8" [203mm] Centers
☐	-MV	Temperature Mixing Valve
☐	-SH	Three Supply Hoses for Mixing Valv[illegible]
☐	-SSH	Single Supply Hose
☐	-TMV-1	Thermostatic Mixing Valve for [illegible]le Faucets (ASSE Listed 1070)

POWER OPTIONS:

Power Supply Option		
☐	-ACA	6-VDC plug-in [illegible]er converter
☐	-CWB	Connector [illegible]or plug-in power converter

AERATOR OPTIONS:

	[illegible]ffix	Flowrate GPM [L]	Vandal-Resistant	WaterSense* Labeled	Outlet Type
☐	-Standard		x		Spray
☐	-E	1.5 GPM [5.7L]	x	x	Aerator
☐	-J	1.5 GPM [5.7L]	x	x	Laminar
☐	-K	1.0 GPM [3.8L]	x	x	Laminar
☐	-L	1.0 GPM [3.8L]	x	x	Aerator
☐	-M	0.35 GPM [1.3L]	x		Spray
☐	-N	0.5 GPM [1.9L]	x		Laminar

Architectural/E[illegible]neering Approval

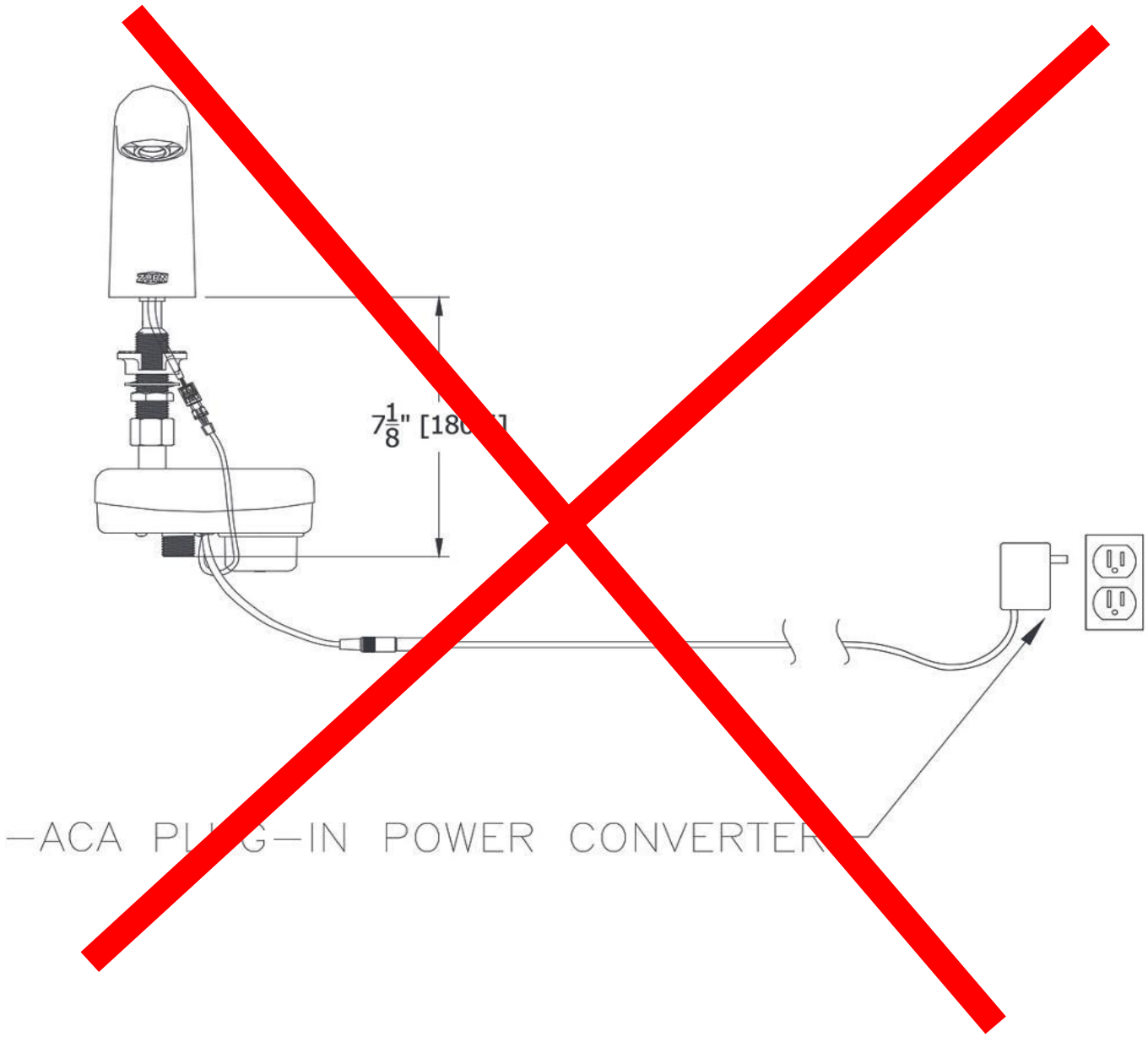
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Model(s) ZG6950

Serio Series® Sensor Faucet With Gear-driven Ceramic Cartridge

TAG_____



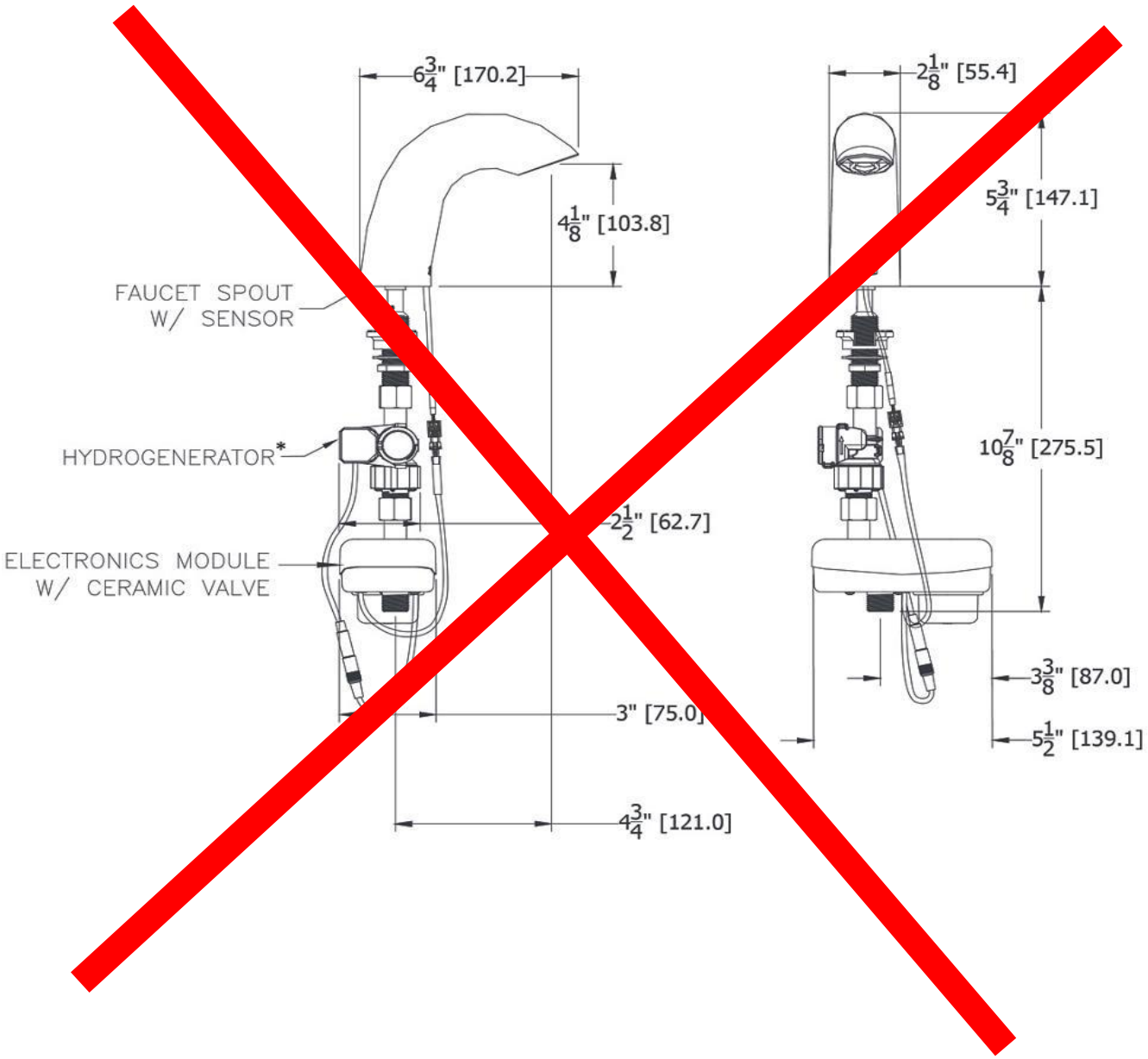
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Model(s) ZG6950

Serio Series® Sensor Faucet With Gear-driven Ceramic Cartridge

TAG_____



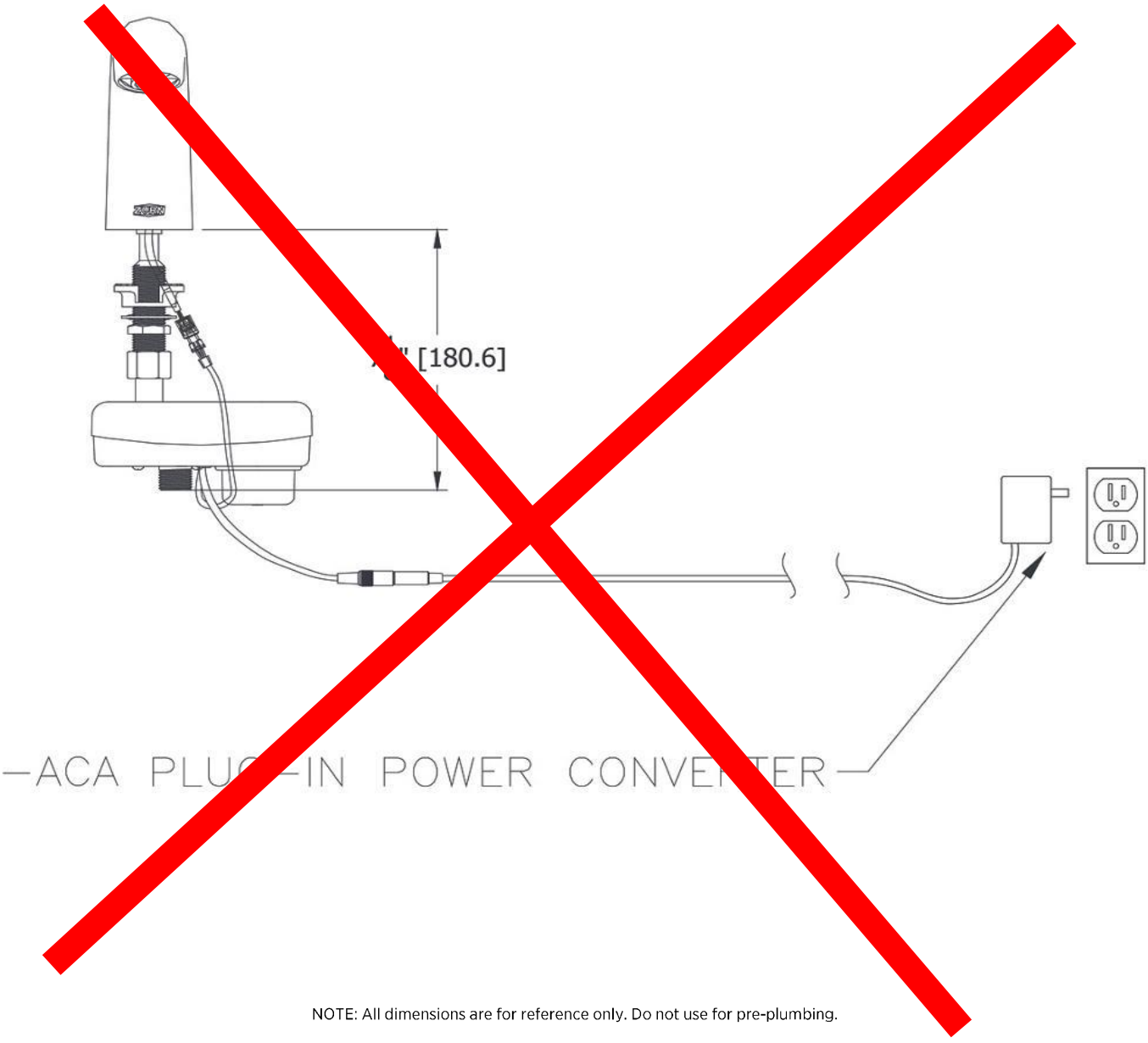
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Model(s) ZG6950

Serio Series® Sensor Faucet With Gear-driven Ceramic Cartridge

TAG_____



NOTE: All dimensions are for reference only. Do not use for pre-plumbing.

Design and dimensional data (inches and [mm]) are subject to manufacturing tolerances and change without notice.

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Dearborn® Brass
4675 W. 160th St.
Cleveland, Ohio 44135
Ph: (800) 321-9532
Fax: (800) 321-9535
www.dearbornbrass.com
SUBMITTAL SPECIFICATION

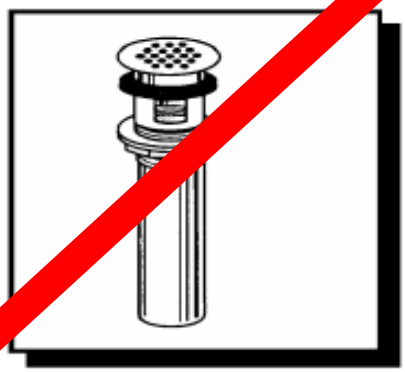
CAST GRID
PATENT OUTLET PLUG

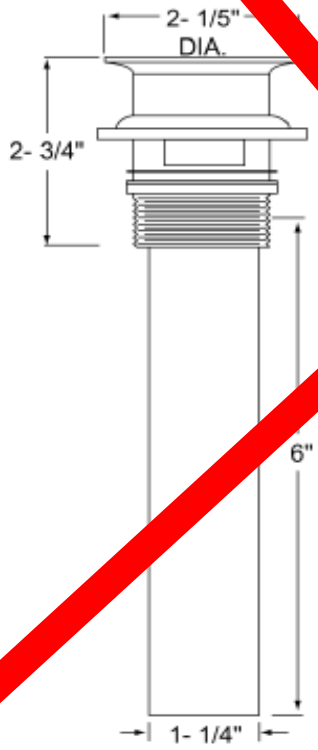
Engineering Specification: Dearborn Brass Semi-Cast Grid Patent Overflow Plug with 1-¼" x 6" – 17 gauge tailpiece.

Job Reference

DESCRIPTION

- Chrome finished
- Includes: Cast Grid, P.O. Plug with nuts and washers and 17 gauge tailpiece
- Designed for installation in most commercial applications
- cUPC Listed





✓	Product No.	Description	Carton Quantity	Carton Weight (lbs)
	760-1	Semi-Cast Grid Patent Overflow Plug with 1-¼" x 6" – 17 gauge Tailpiece	25	18

Data is subject to manufacturing tolerances.

Visit www.dearbornbrass.com for updates 03/2009

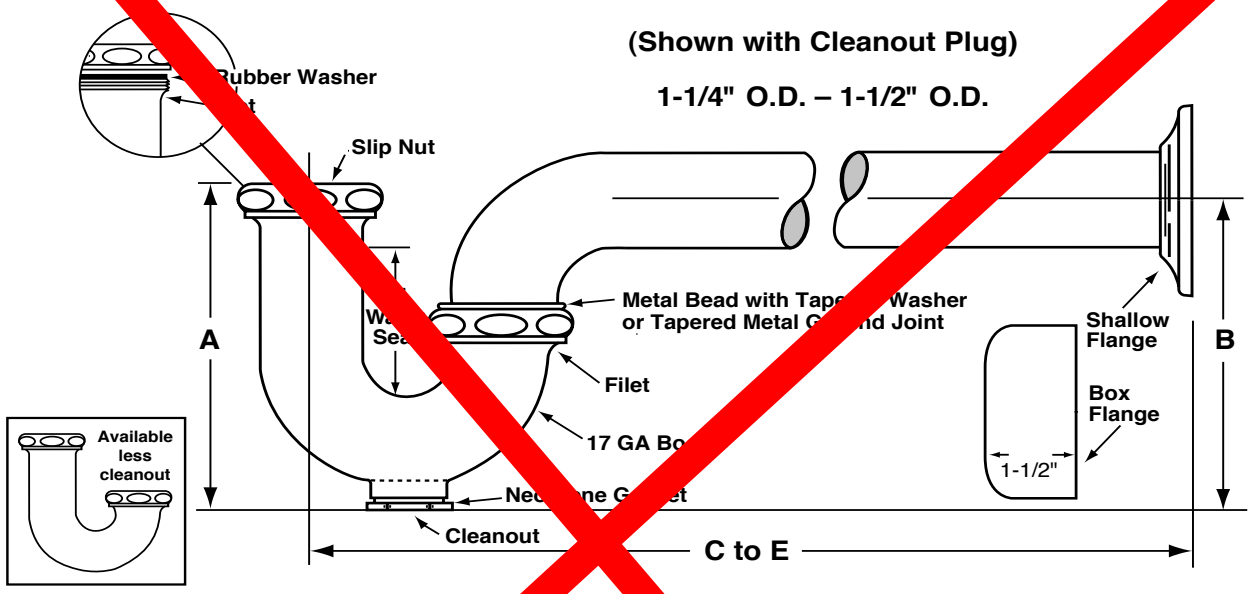
McGuire Manufacturing Co., Inc.
60 Grandview Court
P.O. Box 746♣ Cheshire, CT 06410
203-699-1801♣ Fax: 203-699-1813
www.mcguiremfg.com

PRODUCT SPECIFICATION

Part No.
MCT125 and MCT150 Series

Lite Commercial 17 GA Tubular P-Trap

Job Name: **Submittal Number:**



LITE COMMERCIAL ADJUSTABLE 17 GAUGE TUBULAR P-TRAPS

MODEL NO.	TRAP DIMENSIONS		A	B	C to E	FLANGE	SLIP NUT
	INLET	OUTLET					
MCT125085	1-1/4"	1-1/4"	5"	4-1/2"	11"	Shallow	Brass
MCT125085B	1-1/4"	1-1/4"	5"	4-1/2"	11"	Box	Brass
MCT125085NC	1-1/4"	1-1/4"	4-5/8"	4-1/8"	11"	Shallow	Brass
MCT125085NC[illegible]	1-1/4"	1-1/4"	4-5/8"	4-1/8"	[illegible]"	Box	Brass
MCT125075[illegible]	1-1/4"	1-1/4"	5"	4-1/2"	[illegible]	Shallow	Zinc
MCT125[illegible]CZN	1-1/4"	1-1/4"	4-5/8"	4-1/8"	10[illegible]	Shallow	Zinc
MCT15[illegible]0B	1-1/2", 1-1/4"	1-1/2"	5"	4-1/2"	12"	Box	Brass
MCT[illegible]075ZN	1-1/2", 1-1/4"	1-1/2"	5"	4-1/2"	10-1/2"	[illegible]allow	Zinc
M[illegible]50075NCZN	1-1/2", 1-1/4"	1-1/2"	4-5/8"	4-1/8"	10-1/2"	[illegible]low	Zinc
[illegible]T150090NCB	1-1/2", 1-1/4"	1-1/2"	4-5/8"	4-1/8"	12"	[illegible]	Brass
MCT150090NCGJB	1-1/2", 1-1/4"	1-1/2"	4-5/8"	4-1/8"	12"	Box	Brass
MCT150090NCGJ	1-1/2", 1-1/4"	1-1/2"	4-5/8"	4-1/8"	12"	Shallow	Brass

Suffix Designations
NC = No Cleanout Plug
GJ = Ground Joint Wall Bend

See options and accessories section for details on product variations.

Specifications:

P-Trap shall be 17 gauge seamless tubular brass with wall bend and flange.

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McGuire Manufacturing Co., Inc.
60 Grandview Court
Cheshire, Connecticut 06410
(203) 699-1801 Fax (203) 699-1813
customerservice@mcguiremfg.com mcguiremfg.com

PRODUCT SPECIFICATION

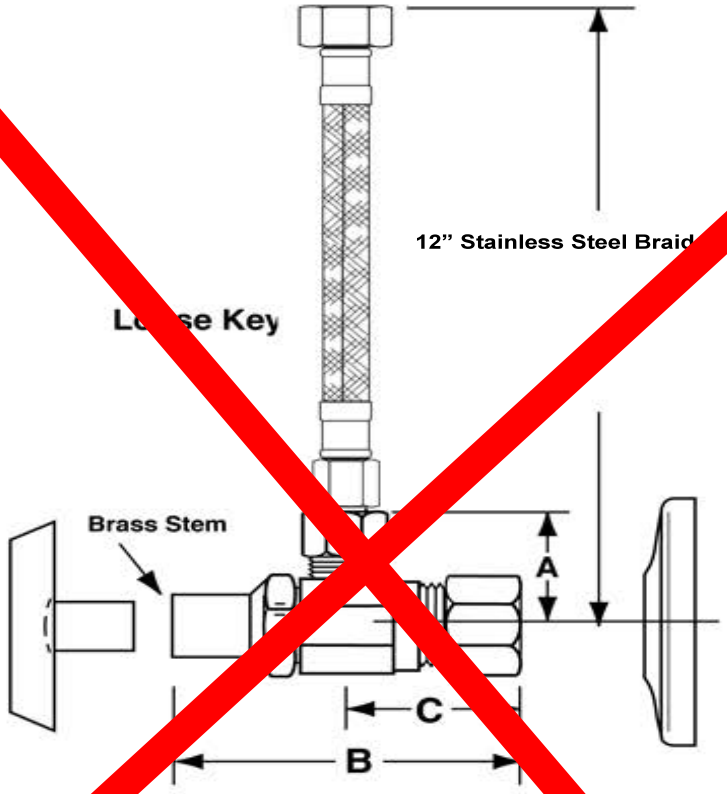
Part No.

LF2165CCLKSS12ECO

Compression x Compression Lavatory Supply

Job Name:

Submittal Number:



NO.	DESCRIPTION	ROUGH MEASUREMENTS		
		A	B	C
LF2165CCLKSS12	1/2" Nominal x 3/8" O.D.	1"	3/8"	1"

- Rated Operating Pressure: 20-125 PSI
- Rated Operating Temperature: 40-140ºF
- Note: 180°F max. during temporary high-temperature system flush

LK designates Loose Key

* See options and accessories section for details on product variations.

NSF UPC ASME A112.18.1

Specifications:

Supply kit shall include lead free chrome plated supply brass stop valves with full turn brass stem, no plastic, 12 inch stainless steel braided risers and shallow steel flange. Inlet shall be 1/2 inch compression. Outlet shall be 3/8 inch compression. Supply kit shall be certified by recognized authority and bear manufacturer and testing mark.

WARNING:

This product can expose you to chemicals including lead, which is known to the State of California to cause cancer, and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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TRUEBRO IPS CORPORATION

LAV GUARD2 FAST FIT UNDERSINK PIPING COVERS

ADA-compliant undersink protection

Submittal Sheet

General Description:

LAV GUARD® 2E-Z Series waste and supply piping covers satisfy ADA compliance requirements. Built-in E-Z Grip internal fasteners and internal, E-Z Tear-To-Fit trimming feature allow for fast installation without tools. Series #100 E-Z kits are designed to fit on all tubular and cast brass P-trap assemblies. Series #400W kits are the "original" LAV GUARD design and fit schedule 40 ABS and PVC P-trap assemblies — regardless of their geometry or rotational offset.Valve cover completely encloses angle valve and supply tube for both rolled and keyed type water stops.

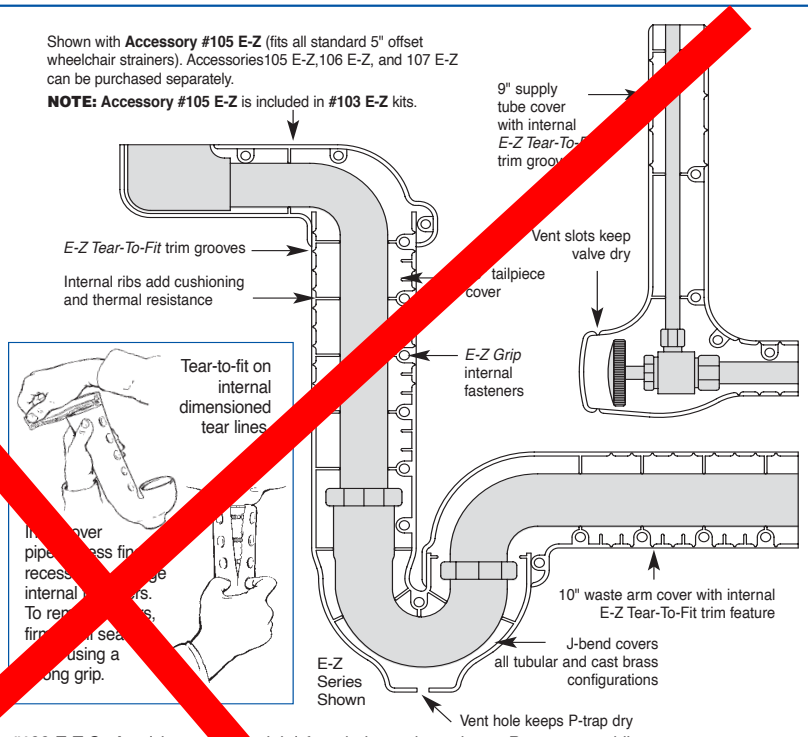
Material	Molded vinyl
Nominal Wall	1/8" constant
Durometer	70 - 80 - Shore A
UV Protection	Will not fade or discolor
Durability	Virtually indestructible
Trimming (E-Z Series)	Internal, *E-Z Tear-To-Fit* trim feature
Fasteners (E-Z Series)	Internal *E-Z Grip* fasteners (reusable)
Color	China white
Paintability	Apply Latex p
Burning Characteristics ASTM D-635	Self extinguished 0 sec (AEB) 0 mm (AEB)
Bacteria/Fungus Resistance	ASTM G21 and G22/ Result: 0 growth
Maintenance	Use common detergents

Antimicrobial Vinyl Minimizes Maintainance

Lav Guard is molded from impact-resistant, stain-resistant, antimicrobial vinyl. Its smooth surface makes it exceptionally easy to clean and maintain.

Manufactured under one or more of the following U.S. or Canadian patents. Other patents pending.

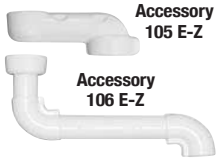
5,303,730 5,360,031 5,524,669 5,564,463 5,678,598 5,699,828 5,915,412 5,915,413 5,901,739 5,960,820 2,075,324 2,119,427 2,136,027 2,158,083



#100 E-Z Series *(shown at right) for tubular and cast brass P-trap assemblies.*
#400W* Series *(original design) for schedule 40 P-trap assemblies.*

- ☐ **Model #99 E-Z** — One angle valve and supply cover
- ☐ **Model #100 E-Z** — One P-trap cover
- ☐ **Model #400W*** — One P-trap cover
- ☐ **Model #101 E-Z** — One P-trap cover, one angle valve cover
- ☐ **Model #401W*** — One P-trap cover, one angle valve cover
- ☐ **Model #102 E-Z** — One P-trap cover, two angle valves and covers
- ☐ **Model #402W*** — One P-trap cover, two angle valves and covers
- ☐ **Model #103 E-Z** — One P-trap cover, two angle valves and supply covers, one 5" offset tailpiece wheelchair strainer
- ☐ **Accessory #105 E-Z** — One 5" offset tailpiece wheelchair strainer assembly
- ☐ **Accessory #105-K** — Kohler 6" offset
- ☐ **Accessory #106 E-Z** — One basket strainer cover and offset waste cover (adjustable to 18")
- ☐ **Accessory #107 E-Z** — Two basket strainer covers and center or end outlet waste cover (adjustable)
- ☐ **Accessory #Ex99 E-Z** — One 14" extension for water supply
- ☐ **Accessory #Ex100 E-Z** — One 14" extension for drain waste or tailpiece

*All #400W series items are the "original" LAV GUARD® design and construction. Specifications may change without notice.





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2.16 HIGHLANDS BUILDING ROGERS

Datasheets

HSH-1

TEMP-GARD III

Pressure Balancing Shower/
Tub & Shower Valve
Z7300 Series

❑Operation ❑ Installation ❑ Maintenance Instructions ❑ Replacement Kits

⚠ **WARNING**: Cancer and Reproductive Harm - www.P65Warnings.ca.gov
⚠ **ADVERTENCIA:** Cáncer y daño reproductivo - www.P65Warnings.ca.gov
⚠ **AVERTISSEMENT:** Cancer et effets néfastes sur la reproduction - www.P65Warnings.ca.gov

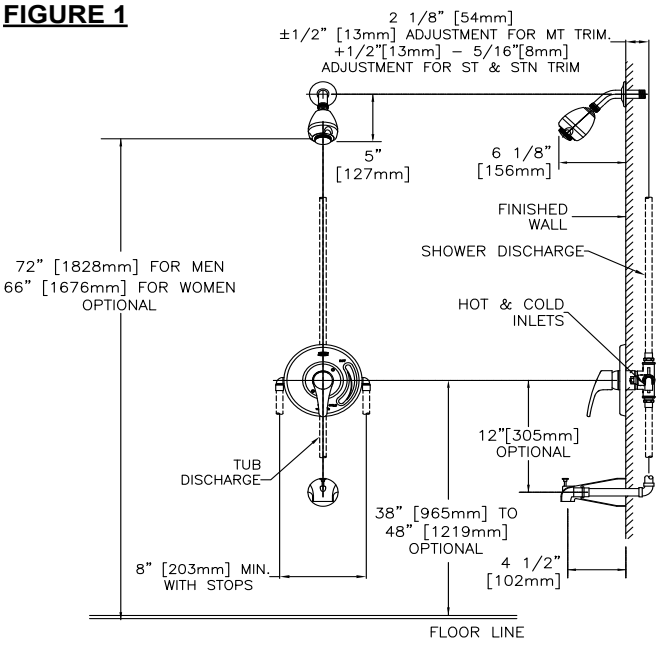
INSTALLATION OF TEMP-GARD III SHOWER VALVE (Refer to page 4 for part no.)

1. Install rough piping and valve body as shown. **Do not use PEX or CPVC CTS piping from valve to tub spout, as the reduced ID results in too much back pressure for valve to function properly**. When facing valve, HOT "H" is on left and COLD "C" is on right. Tub port "T" should face down and shower port "S" should face upward. The ears on the valve at the 5 o'clock and 11 o'clock positions may be used to attach the valve to framing of wall if necessary.

WARNING: Caution should be taken when heating valve for sweat connections to avoid damaging internal rubber and plastic components in valve.

FOR OPTIMUM VALVE PERFORMANCE, BALANCE SUPPLY PRESSURES TO LESS THAN 5 PSI PRESSURE DIFFERENTIAL BETWEEN HOT AND COLD WATER SUPPLIES.

FIGURE 1



2. Always install valve with mud guard (23) so that the indicated surface on mud guard is flush with finished wall. The hole in the wall should be 4" in diameter.
3. If valve is to be used for a shower only, wrap threads on tub plug (24) with teflon tape and install plug into tub port on shower valve.
4. When the final outer wall is finished remove mud guard and open both supply stops on valve by turning counter clockwise.
5. Loosen and remove escutcheon (19) from valve. Carefully remove cartridge (10) from valve by holding car tridge as close to the valve body (1) as possible and wiggling back and forth until cartridge comes out of the valve. Place thumb and finger on gray part of cartridge to remove it, as shown in Figure 4.
6. With the cartridges removed from all valves in the system, turn on water supply and flush the system of any debris. If the water coming out of the valve while flushing is going behind finished wall, a hose bib flushing out kit (RK7300-20HB) may be used to allow the water to be directed to a drain by attaching a garden hose to valve.
7. **If hot and cold supply inlets are reversed simply remove cartridge and reinstall with cartridge flipped 180°. The handle adaptor (12) will need to be readjusted. To adjust handle adaptor remove and turn 180°. Handle should always turn through cold, then hot. Reinstall cartridge and tighten escutcheon to 150 in lbs. The system will need to be flushed again before installing shower heads.**

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Rev. H Date: 10/29/2018 C.N. No. SAN008373 Prod. | Dwg. No. CF1024
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8. To adjust temperature limit stop (11), turn valve to desired hottest temperature, remove temperature limit stop (11) turn clockwise and reinstall so that the white protrusion on cartridge is touching the red protrusion on the temperature limit stop.
9. After all flushing is done install shower heads and check system for leaks.
10. Assemble external trim to valve.
- •Hand tighten escutcheon nut (20) on valve.
- •Remove tape from gasket (15) and adhere gasket (centered on the top half of the back of cover plate (16)) so that 1/4 of the width of the gasket is sticking out beyond the back of the cover plate, see Figure 2.
- •Place cover plate over escutcheon (19) and fasten with screws (18).
- •Install handle onto cartridge with handle pointed down. Tighten set screw.

The ZURN TEMP-GARD III Pressure Balancing Shower Valve is equipped with an adjustable temperature limit stop. The temperature limit stop device is to be used to limit the valve handle from being turned to undesired hot water discharge temperatures. To adjust the temperature limit stop, see step 8 of the installation and reference figure 3.

IMPORTANT: Failure to adjust the temperature limit stop properly increases the chances for serious injury.

WARNING: This shower system may not protect the user from scalding when there is a failure of other temperature controlling devices elsewhere in the plumbing system.

Notes:

When there is a shutoff valve installed after the control valve, there shall be stop and check valves on the inlets. This is to eliminate hot and cold cross-connection in the event the valve handle is left on. Specify suffix "-SC" for ASSE approved checks.

If valve is going to be installed in "Thin Wall Application" such as a fiberglass or panel wall, it is recommended that an optional wall flange (RK7300-WF) be used. This wall flange is used to sandwich the wall between the valve body and cover plate.

OPERATION:

Cover Gasket:
Position gasket in back side of cover with the adhesive against the cover and the open end at bottom as shown.

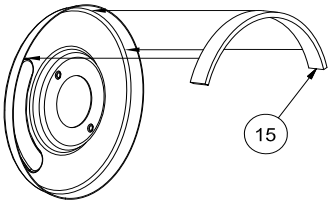


FIGURE 2

Adjusting Temperature Limit Stop:
Lift and turn temperature limit stop clockwise to reduce maximum temperature.

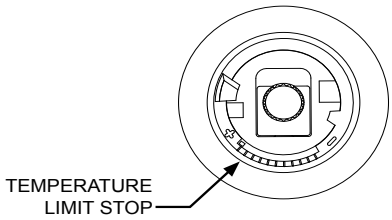


FIGURE 3

The main handle of the Temp-Gard III valve is for temperature control only. To turn valve on, the handle is turned counterclockwise through the cold position, to the warm and then to the hot position. The range of motion on the handle is 140°.

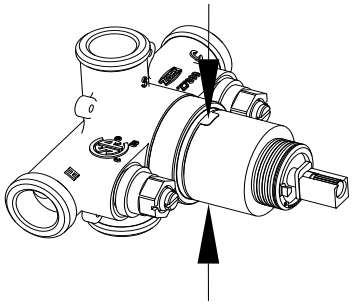
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MAINTENANCE and SERVICE:

1. Remove handle (21) and cover plate (16).
2. Using a flathead screwdriver, turn both service stops (7) clockwise until they bottom out. This allows the valve to be serviced without turning off the main water supply. If service stops need to be repaired or replaced, the main water supply must be turned off and the service stop retainer (9) must be removed by turning counterclockwise.
3. Remove escutcheon nut (20) and escutcheon (19).
4. Remove cartridge (10) by placing thumb and forefinger where shown in figure 4 and carefully wiggling cartridge. **Caution: If cartridge is not removed in manner described damage may occur to cartridge.**
5. To determine if the piston in cartridge is functioning properly, shake cartridge side to side. The piston should make a clicking sound.
6. If no sound is heard when shaking, place cartridge in vinegar for at least 8 hours to remove scale and debris. If still no sound is heard replace cartridge with RK7300-CART-3P cartridge replacement kit.



HOLD HERE TO
REMOVE CARTRIDGE
FIGURE 4

TROUBLE SHOOTING:

PROBLEM	CAUSE	SOLUTION
Valve will not flow water.	Hot and cold water not turned on. Service Stops not open.	Be sure both suplies are turned on and service stops are open. Valve will not operate unless both HOT and COLD water inlets have pressure.
Water volume from valve is inconsistent during operation.	Pressure balancing piston housed in cartridge (10) assembly is blocked from free movement by foreign matter.	Remove and service cartridge as described in steps 1 through 6 of the MAINTENANCE and SERVICE section.
Valve delivers an insufficient quantity of Hot or Cold water.		
Temperatures fluctuate without moving temperature handle.		
Valve does not deliver desired hot water temperature.	Valve designed to deliver mixed hot and cold water in all handle positions.	Increase system hot water temperature.
Temperature out of valve reduces gradually during use.	Supply system is running out of hot water.	Reduce maximum flow rate out of valve or shower head. This will allow longer period of use before reduction of hot water supply.
Valve makes loud noise.	Piston in cartridge is moving back and forth because of a large pressure differential between the HOT and COLD water lines.	Alter the water system such that the pressure differential at all shower valves is no more than 5 psi.

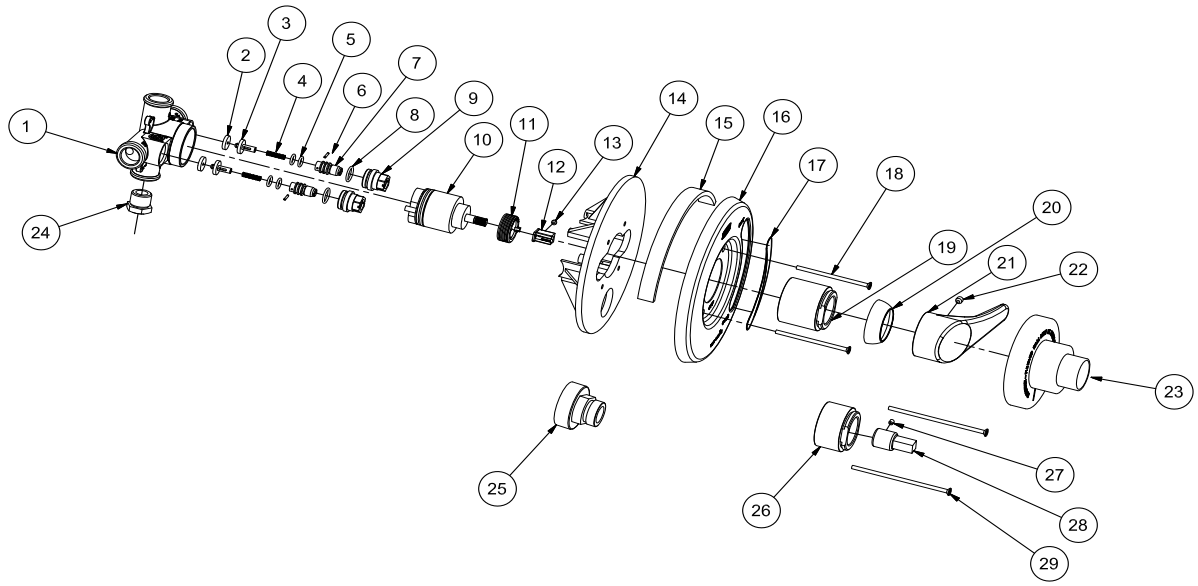
Proper performance is dependent upon licensed, qualified personnel performing regular, periodic testing according to ZURN specifications and prevailing governmental & industry standards and codes and upon following these installation instructions. Failure to do so releases ZURN of any liability that it might otherwise have with respect to that device. Such failure could also result in an improperly functioning device.

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PARTS BREAKDOWN



REPLACEMENT KITS:

RK7300-CART-3P
CARTRIDGE KIT
ITEM NO.
10. Pressure Balancing Cartridge
11. Temperature Limit Stop
12. Handle Adaptor
13 Set Screw

RK7300-50A
SERVICE/CHECK STOP KIT
(2) PER.
ITEM NO.
2. Service Stop Washer
3. Service Stop Plunger
4. Spring
5. Stem O-Ring
6. Service Stop Roll Pin
7. Service Stop Stem
8. Retainer O-Ring
9. Service Stop Retainer

RK7300-WF
WALL FLANGE KIT (OPTIONAL)
ITEM NO.
14. Wall Flange

RK7300-LH
LEVER HANDLE KIT
ITEM NO.
21. Handle
22. Set Screw

RK7300-11AE-001
COVER SCREWS KIT
(2) PER
ITEM NO.
18. Cover Plate Screw, 3”

RK7300-EXT
EXTENSION KIT (OPTIONAL)
ITEM NO.
26. Escutcheon Extension
27. Set Screw
28. Stem Extension
29. Cover Plate Screws, 4”

RK7300-20HB
FLUSHING OUT KIT (OPTIONAL)
ITEM NO.
25. Hose Bib

RK7300-8MT-002
COVER PLATE KIT
ITEM NO.
16. Cover Plate w/Etched Lettering
17. Temperature Indicator

PARTS:
1. Valve Body
2. Service Stop Washer
3. Service Stop Plunger
4. Spring
5. Stem O-Ring
6. Service Stop Roll Pin
7. Service Stop Stem
8. Retainer O-Ring
9. Service Stop Retainer
10. Pressure Balancing Cartridge
11. Temperature Limit Stop
12. Handle Adaptor
13. Set Screw
14. Wall Flange
15. Gasket (7000-90).
16. Cover Plate w/Etched Lettering
17. Temperature Indicator
18. Cover Plate Screw, 3”
19. Escutcheon (7300-81MT)
20. Escutcheon Nut (7300-9MT)
21. Handle
22. Set Screw
23. Mud Guard (7300-17)
24. Tub Plug (7300-7B)
25. Hose Bib
26. Escutcheon Extension
27. Set Screw
28. Stem Extension
29. Cover Plate Screw, 4”

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TOWNSEND® 38" x 38" ADA SHOWER BASE

BARRIER FREE SOLID SURFACE

TOWNSEND® 38" x 38" (36" x 36" Clear)
ADA SOLID SURFACE SHOWER BASE



❑ **3838AMFCOL** Barrier Free Front Center Drain with Trench Cover

Product Features:
- Durable 100% solid, non-porous material
- Smooth matte surface
- Integral 3-sided 1" tiling / water retention flange for easy installation
- Repairable and renewable surface
- Does not support bacteria and fungi growth
- Self-extinguishing
- UV resistant
- Resistant to stains and impact
- Easy maintenance and cleaning
- ADA Compliant when installed according to ADA guidelines
- Drain not included

SEE REVERSE SIDE FOR ROUGHING-IN DIMENSIONS

Nominal Dimensions:
38" x 38" x 1-3/8"
(965 x 965 x 34mm)

Shower Base Includes:
- Removable Brushed Stainless Steel trench drain cover

Compliance Certifications -
Meets or Exceeds the Following Specifications:
- CSA B45.5 / IAPMO Z124
- cUPC
- ASTM F462 (Pass w/COF=0.44)
- ASTM C1028
  - COF Dry = 0.66
  - COF Wet = 0.56

Flame & Smoke
- ASTM E84
  - Flame Spread Index = 0
  - Smoke Index = 20

- CAN/ULC S102.2
  - Flame Spread Rating = 0
  - Smoke Developed Classification = 15

MEETS THE AMERICANS WITH DISABILITIES ACT GUIDELINES AND ANSI A117.1 REQUIREMENTS FOR ACCESSIBLE AND USEABLE BUILDING FACILITIES-CHECK LOCAL CODES.

ADA COMPLIANT

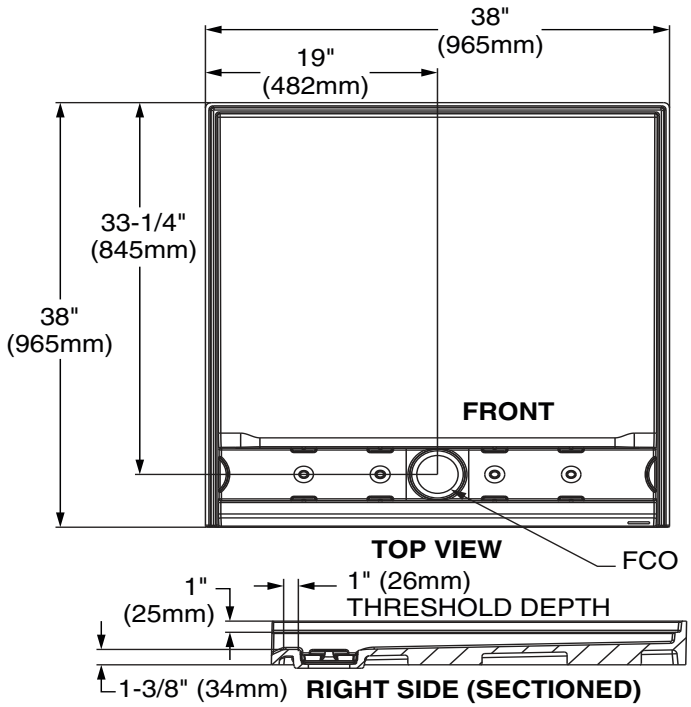
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American Standard

TOWNSEND® 38" x 38" ADA SHOWER BASE

BARRIER FREE SOLID SURFACE

3838AMFCOL
Barrier Free Front Center Drain with Trench Cover



GENERAL SPECIFICATIONS FOR 3838AM SHOWER BASE

INSTALLED SIZE	965mm x 965mm (38 x 38 In.)
WEIGHT	39.7 Kg. (87 Lbs.)
SHOWER WELL AT SUMP	901mm x 902mm (35-1/2 x 35-1/2 In.)
SHOWER WELL AT RIM	924mm x 914mm (36-3/8 x 36 In.)
FLOOR LOADING (PROJECTED AREA)	43 Kgs/Sq. m. (9 Lbs./Sq. Ft.)

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SS Z7000-H9

WATER SAVER 1.5 GPM HAND-HELD SHOWER HEAD

TAG _____

Architectural/Engineering Specification:

Plastic chrome plated, self cleaning hand-held shower head with a 72” stainless steel hose. 1.5 gpm flow rate pressure compensating flow control. 1/2” NPT female threaded inlet, outer ring spray adjustment for coarse or soft massage spray, and 1/2” NPSM threaded inlet.

Product Features:

- Three spray settings: 9-jet spray, shower and combo
- Pressure compensated technology guarantees a consistent flow rate across a wide range of pressure
- Even, oscillating motion with a large spray diameter
- Corrosion-resistant, high-impact ABS thermoplastic body with metal ball joint
- Includes 72” stainless steel hose and bracket, hose includes a backflow preventer.

Compliance and Certification:

- ASME A112.18.1/CSA B125.1Compliant
- CSA listed
- WaterSense Compliant



OPTIONAL ACCESSORIES

Suffix	Description
-NA	

Architectural/Engineering Approval

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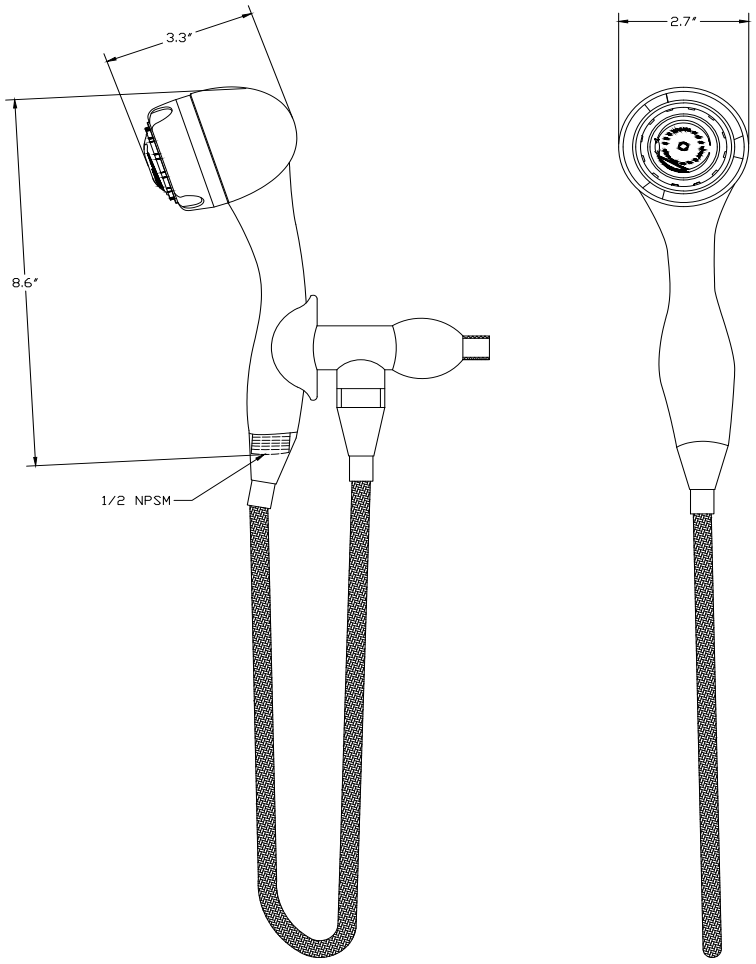
Rev. A Date: 12/08/22 C.N. No. 144857 Prod. | Dwg. No. SS Z7000-H9

SS Z7000-H9

WATER SAVER 1.5 GPM HAND-HELD SHOWER HEAD

TAG _____

Rough-in/Overview dimensions



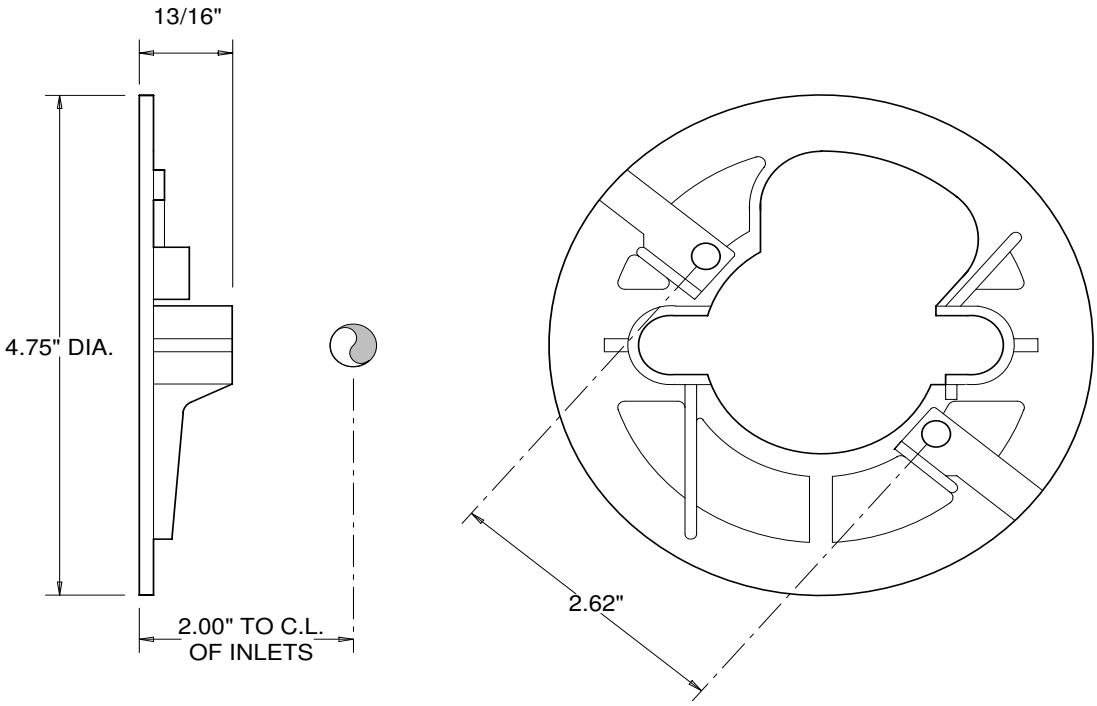
Note: All dimensions are for reference only. Do not use for pre-plumbing.

TEMP-GARD WALL FLANGE FOR FIBERGLASS INSTALLATION

Z7000-WF

TAG _____

ENGINEERING SPECIFICATIONS: Z7000-WF ABS plastic wall mount flange for fiberglass installation. 2" to centerline of valve inlets to face of the wall flange.



Note: *All dimensions are for reference only. Do not use for pre-plumbing*

OPTIONAL ACCESSORIES

Suffix Description

Use with Z7000 prefix

__ CC Conversion cover plate

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Phone: 1-716-665-1132 ♦ Fax: 1-716-665-1135 ♦ World Wide Web: www.zurn.com
In Canada: ZURN INDUSTRIES LIMITED ♦ 3544 Nashua Drive ♦ Mississauga, Ontario L4V1L2 ♦ Phone: 905/405-8272 Fax: 905/405-1292

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Rev. A Date: 2/8/07 C.N. No. 105684
Dwg. No. 66211 Product No. Z7000-WF



2.16 HIGHLANDS BUILDING ROGERS

Datasheets

HWC-1

Model(s) Z5615-BWL

Elongated Wall Hung Flush Valve Toilet

TAG_____

Architectural/Engineering Specification:

Vitreous China, 1.1 gpf [4.2 Lpf] or greater high efficiency wall hung toilet with siphon jet flushing action, elongated front rim with 1-1/2" [39mm] top spud. Universal high efficiency toilet is designed to exceed industry standards with flush volumes of 1.1 gallons per flush.

PRODUCT FEATURES:

- Zurn High Efficiency Toilets and paired performance flush valve systems are designed to exceed industry standards, while using as little as 1.1 gallons of water per flush.
- Universal high efficiency toilet can be specified with1.1 gpf [4.2Lgf], 1.28gpf [4.8Lpf], 1.6 gpf [6.0 Lpf] or dual flush valves.
- Vitreous china
- ZurnSHIELDTM ceramic glaze creates a permanent surface that protects the fixture by inhibiting the growth of stain and odor causing mold mildew and bacteria, thus reducing the amount of time, chemicals and water to clean the bowl.
- Elongated front rim
- 2-1/8" fully glazed trapway
- High efficiency siphon jet flush action
- Shipping Weight: 40 lbs.
- System MaP score of 1,000 grams at 1.28 gpf with Zurn Flush Valve
- Static weight load of 1,000 lbs*



Product Compliance: ASME A112.19.2/CSA B45.1
CEC
CSA B45.1
IPC
WaterSense

*This product should be used with a WaterSense labeled counterpart with a compatible flow volume to ensure that the entire system meets the requirements for water efficiency and performance.

**Although products with certain combinations of options and features will meet or comply with these standards and/or certifications, not every combination of options and features will result in such compliance. If you have any questions about your particular product, please contact our Customer Care Dept. at 1-855-ONE-ZURN (United States) or 1-877-892-5216 (Canada) for confirmation.*

VARIANT OPTIONS:

☐	Z5615-BWL	Top spud toilet
☐	Z5615-BWL-AM	Top spud toilet with ZurnSHIELD™ glaze

Recommended Trim:

☐	Z5610-NUT-EXT-KIT	Retrofit nut kit for extending carrier studs from existing wall
☐	Z1201 or Z1202	EZCarry™500 lbs load rated High Efficiency Carrier
☐	Z5955SS-EL	Elongated, standard white, open front toilet seat less cover with stainless steel check hinge

Installation Guide - fv868.pdf

Antimicrobial glaze required

Z5615-BWL ZURN ONE SYSTEMS

Complete fixture package with bowl, flush valve, seat and trim

	Item Number	Description	Flush Valve GPF
☐	Z.WC1.M	Manual Z6000AV-ONE system	1.1
☐	Z.WC1.S	EZ Flush ZER6000AV-ONE-SM system	1.1
☐	Z.WC1.S.TM	Top Mount Sensor ZER6000AV-ONE system	1.1
☐	Z.WC2.M	Manual Z6000AV-HET system	1.28
☐	Z.WC2.S	EZ Flush ZER6000AV-HET-SM system	1.28
☐	Z.WC2.S.TM	Top Mount Sensor ZER6000AV-HET system	1.28

Architectural/Engineering Approval

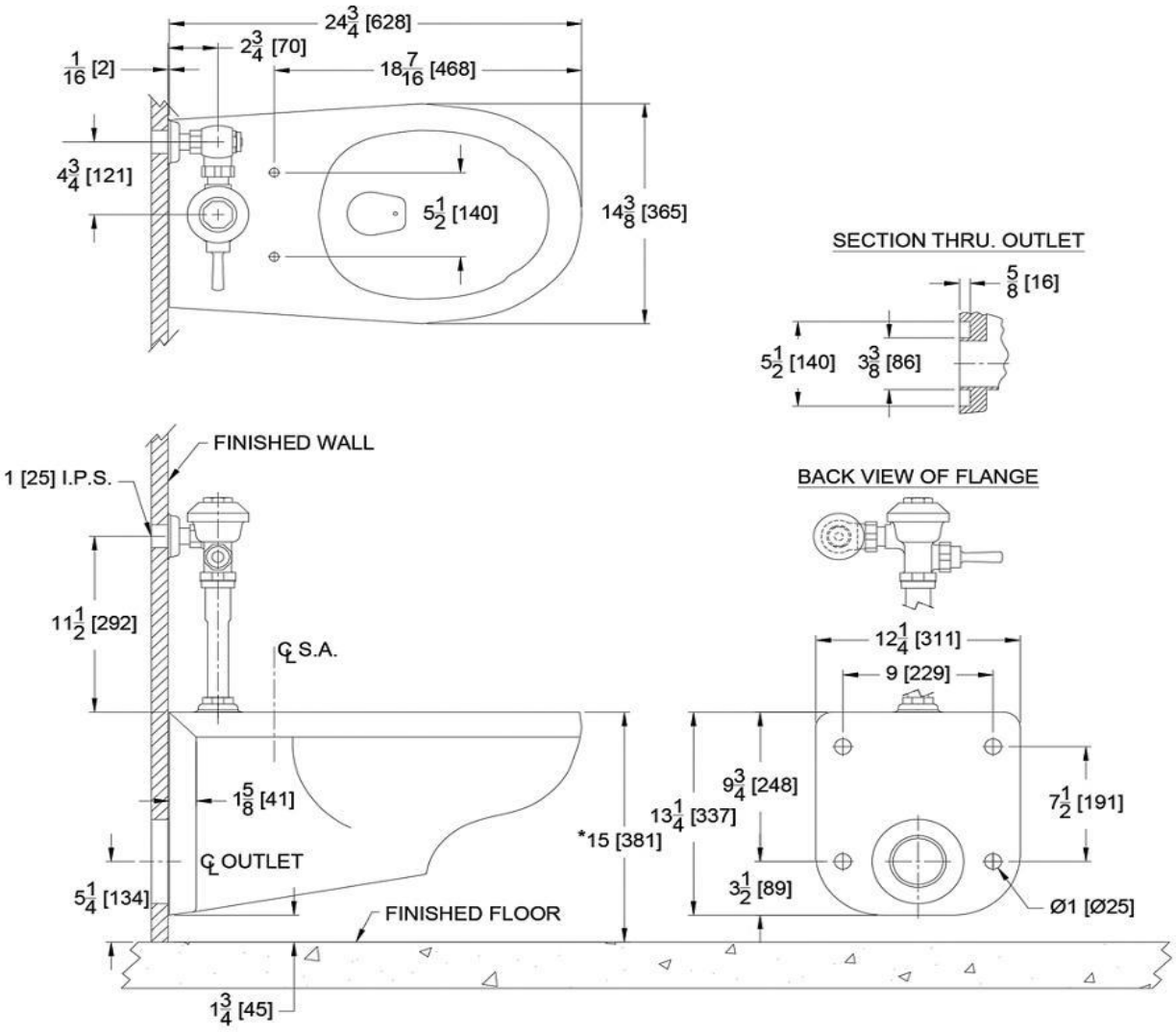
Design and dimensional data (inches and [mm]) are subject to manufacturing tolerances and change without notice.

⚠WARNING: *Cancer and Reproductive Harm* – www.P65warnings.ca.gov
⚠ADVERTENCIA: *Cáncer y daño reproductivo* – www.P65warnings.ca.gov
⚠AVERTISSEMENT: Cancer *et effets néfastes sur la reproduction* – www.P65warnings.ca.gov

Model(s) Z5615-BWL

Elongated Wall Hung Flush Valve Toilet

TAG_____



*NOTE: For ADA compliance, top of seat height should be installed at 17" [431mm] - 19" [482mm] from finished floor.

NOTE: All dimensions are for reference only. Do not use for pre-plumbing.

Design and dimensional data (inches and [mm]) are subject to manufacturing tolerances and change without notice.

⚠WARNING: *Cancer and Reproductive Harm* – www.P65warnings.ca.gov
⚠ADVERTENCIA: *Cáncer y daño reproductivo* – www.P65warnings.ca.gov
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ZTR6200

Battery Powered Exposed Sensor Flush Valve for Water Closets

TAG _____

Architectural/Engineering Specification:

Exposed, quiet piston-type, chrome plated flushometer valve with a polished exterior. Complete with chloramine resistant, filtered piston kit. The valve incorporates a battery powered solenoid actuator, automatic sensor with manual override push button, and robust vandal resistant metal cover with 10 degree angled sensor.

Product Features:

- Proprietary Dezincification resistant low lead brass alloy
- Control Stop has internal siphon-guard protection and vandal resistant stop cap, Sweat solder kit, wall flange with set screw.
- High back pressure Vacuum Breaker with one piece hex coupling nut
- Chloramine resistant Internal seals
- Adjustable tailpiece
- Spud coupling and flange for top spud connection

Compliance and Certification:

- ADA Compliant - Operational Controls

*This product should be used with a WaterSense labeled counterpart with a compatible flush volume to ensure that the entire system meets the requirements for water efficiency and performance.

WHEN INSTALLING IN A HANDICAP STALL:

Per the ADA Guidelines (section 604.9.4) it is recommended that the grab bars be split or shifted to the wide side of the stall. If grab bars must be present over the valve, use the alternate ADA installation as shown on the next page.



Flow Options:

	Flush Volume gpf [Lpf]	Dual Flush	WaterSense Labeled*
☐ **-ONE**	1.1 gpf [4.1 Lpf]		✓
☐ **-EV**	1.28 gpf [4.8 Lpf]		✓
☐ **-WS1**	1.6 gpf [6.1 Lpf]	1.6/1.1 Gpf [6.1/4.1 Lpf]	

Note: Dual Flush feature has 60 second threshold

Suffix Options:

☐ -DF	Dual Flush Option (See Chart Above)
☐ -FM12	Floor Mount 12” Rough In
☐ -LL	10 Year Long Life Battery
☐ -YJ	Split Ring Pipe Support
☐ -YK	Solid Ring Pipe Support

Valve Height Options:

	A
☐ Standard	11 1/2” [292]
☐ -1	16” [406]
☐ -2	24” [610]
☐ -3	27” [686]

Architectural/Engineering Approval

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Rev. D | Date: 11/11/22 | C.N. No. 144844 | Prod./Dwg. No. SS ZTR6200

Patent zurn.com/patents
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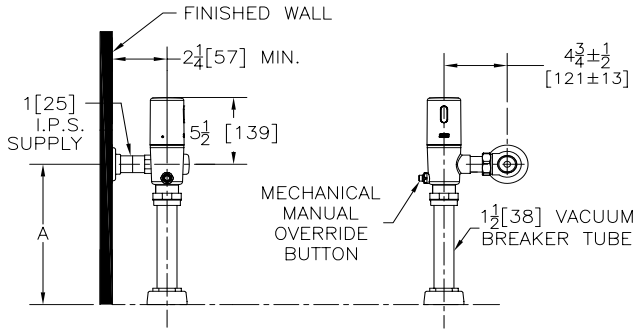
by zurn ELKAY Water Solutions

ZTR6200

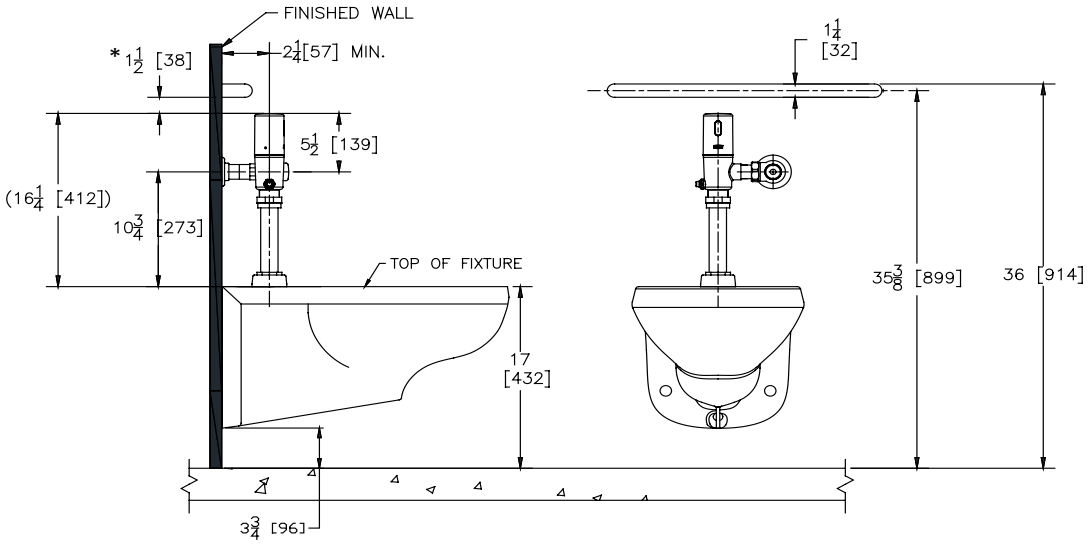
Battery Powered Exposed Sensor Flush Valve for Water Closets

TAG _____

Rough-in/Overview dimensions



Alternate ADA Installation



- Water supply rough-in to 10 3/4” (minimum) with grab bar at 36”.
- ADA compliance met using 1 1/4” grab bar as shown.
- *ADA compliant minimum gap between wall and grab bar 1 1/2”.
- Does not meet California ADA compliance for grab bar height (33” grab bar centerline required)

Rev. D | Date: 11/11/22 | C.N. No. 144844 | Prod./Dwg. No. SS ZTR6200

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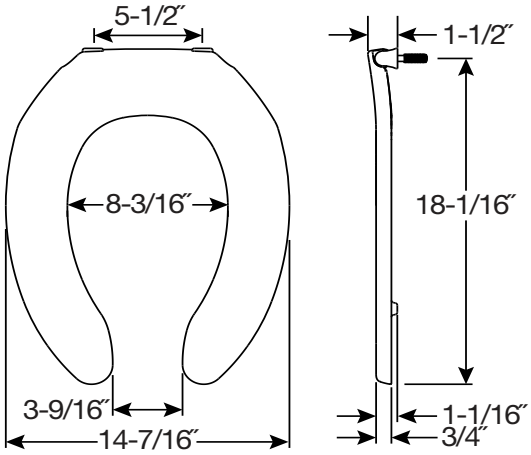
by zurn ELKAY Water Solutions

BEMIS COMMERCIAL

1055 / 1055SSC

COMMERCIAL HEAVY-DUTY
PLASTIC TOILET SEAT





SPECIFICATIONS:

Size: Elongated

Material: Plastic

Style: Open Front less Cover

Ring Bumpers: Two

Hinges: Plastic Non Self-Sustaining Check Hinge (1055) or Self-Sustaining Check Hinge (1055SSC) with Non-Corroding 300 Series Stainless Steel Posts and Pintles

Hardware: Non-Corroding 300 Series Stainless Steel Washers and Nuts

Codes & Standards: Complies with IAPMO/ANSI Z124.5 Performance Standards Heavy-Duty Commercial

Proudly Made in the USA

Eco-Friendly

Bemis Manufacturing Co. reserves the right to make revisions without notice to product specifications.
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2.16 HIGHLANDS BUILDING ROGERS

Datasheets

HWC-1 CARRIER

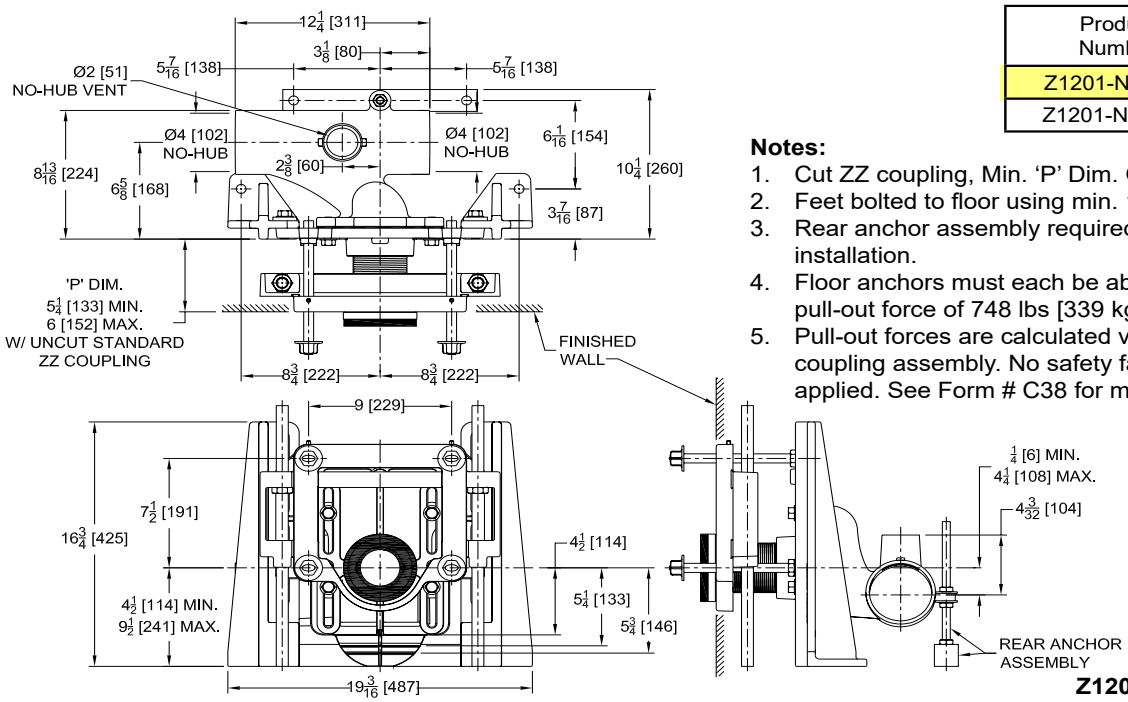
Z1201-N_4-XB

BARIATRIC CARRIER - 1000 lbs [454 kg]
EZCARRY® ADJUSTABLE HORIZONTAL HIGH PERFORMANCE SIPHON JET NO-HUB WATER CLOSET CARRIER SYSTEM

SPECIFICATION SHEET

TAG _____

Design and Dimensional Data (inches and [mm]) are Subject to Manufacturing Tolerances and Change Without Notice



Z1201-NR4-XB Illustrated

Product Number	Approx. Wt. Lbs. [kg]
Z1201-NL4-XB	100 [45]
Z1201-NR4-XB	

Notes:
1. Cut ZZ coupling, Min. 'P' Dim. Obtainable =3 [76]
2. Feet bolted to floor using min. 1/2 [13] dia. anchors.
3. Rear anchor assembly required for secure installation.
4. Floor anchors must each be able to withstand a pull-out force of 748 lbs [339 kg].
5. Pull-out forces are calculated values with standard coupling assembly. No safety factor has been applied. See Form # C38 for more information.

ENGINEERING SPECIFICATION: ZURN Z1201-N_4-XB
EZCarry® Bariatric horizontal siphon jet water closet carrier system, with high performance Dura-Coated cast iron main fitting with hydro-mechanically optimized sweep, 4" [102 mm] no-hub connections, and extended 2" [51 mm] vent. Corrosion resistant, adjustable 3" [76mm] X 6" [102mm] cast iron coupling, designed to increase flow velocity and line carry, and labor saving "Neo-Seal" bonded gasket optimizes flow performance while reducing installation steps. Complete system includes an adjustable faceplate, QuickFit™ faceplate gasket, floor mounted foot supports; rigid support frame assembly; extra-heavy-duty ½" [13 mm] rear anchor tie down; fixture bolts, trim, and stud protectors. EZCarry® XB system complies with all applicable requirements of ASME A112.6.1M up to a 1000 lbs [454 kg] maximum static load.

OPTIONS (Check/specify appropriate options)
_____ Z1201-NL4-XB 4 [102] No-Hub Left Hand Inlet with Flow to Right
_____ Z1201-NR4-XB 4 [102] No-Hub Right Hand Inlet with Flow to Left

PREFIXES
_____ Z D.C.C.I. System with Zurn ZZ Adjustable Coupling*

SUFFIXES
_____ -CC Corrosion Resistant Cast Iron Coupling (2-1/4 [57] to 12 [305])
_____ -G Galvanized Cast Iron
_____ -JC 2 [51] Auxiliary Inlet with 1/8 [3] Bend
_____-VP Vandal-Proof Trim
_____ -50 Flush Valve Supply Support for Water Closets

* Regularly furnished unless otherwise specified.

⚠ **WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov
⚠ **ADVERTENCIA:** Cáncer y daño reproductivo - www.P65Warnings.ca.gov
⚠ **AVERTISSEMENT:** Cancer et effets néfastes sur la reproduction - www.P65Warnings.ca.gov

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1801 Pittsburgh Avenue, Erie, PA 16502, Ph. 855.663.9876

In Canada | Zurn Industries Limited
7900 Goreway Drive, Unit 10, Brampton, Ontario L6T 5W6, Ph. 877.892.5216

www.zurn.com

Rev. E
Date: 06/24/24
C.N. No. 146095
Patent zurn.com/patents
Prod. | Dwg. No. Z1201-N_4-XB

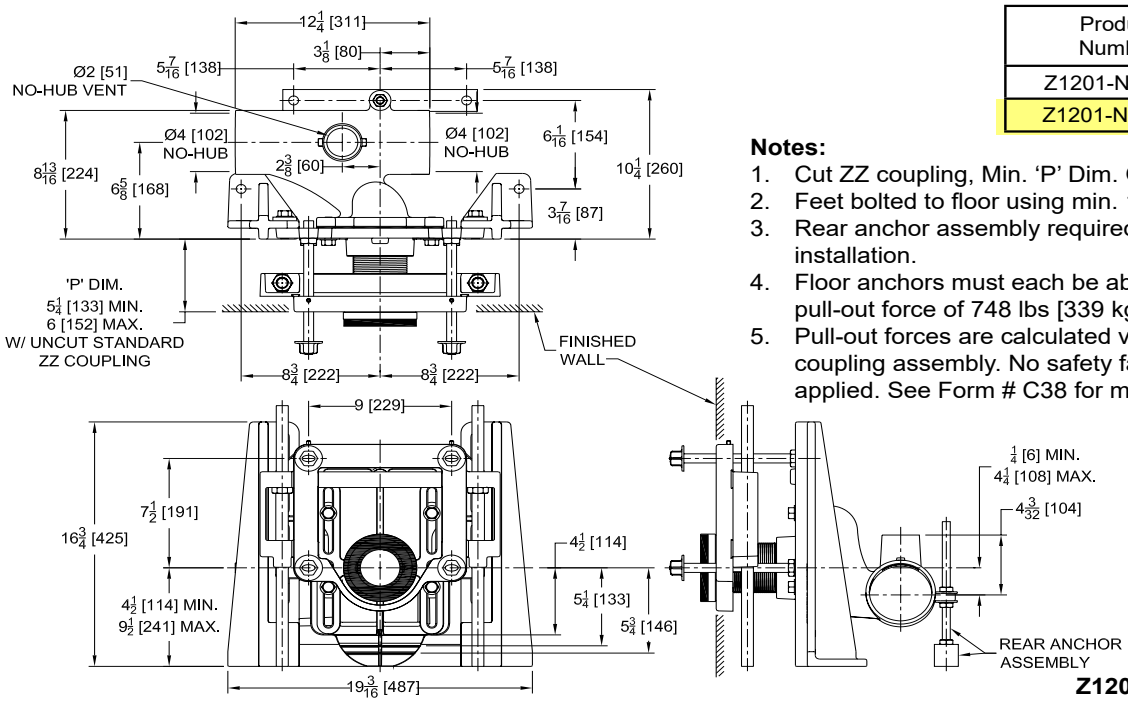
Z1201-N_4-XB

BARIATRIC CARRIER - 1000 lbs [454 kg]
EZCARRY® ADJUSTABLE HORIZONTAL HIGH PERFORMANCE SIPHON JET NO-HUB WATER CLOSET CARRIER SYSTEM

SPECIFICATION SHEET

TAG _____

Design and Dimensional Data (inches and [mm]) are Subject to Manufacturing Tolerances and Change Without Notice



Z1201-NR4-XB Illustrated

Product Number	Approx. Wt. Lbs. [kg]
Z1201-NL4-XB	100 [45]
Z1201-NR4-XB	

Notes:

1. Cut ZZ coupling, Min. 'P' Dim. Obtainable =3 [76]
2. Feet bolted to floor using min. 1/2 [13] dia. anchors.
3. Rear anchor assembly required for secure installation.
4. Floor anchors must each be able to withstand a pull-out force of 748 lbs [339 kg].
5. Pull-out forces are calculated values with standard coupling assembly. No safety factor has been applied. See Form # C38 for more information.

ENGINEERING SPECIFICATION: ZURN Z1201-N_4-XB
EZCarry® Bariatric horizontal siphon jet water closet carrier system, with high performance Dura-Coated cast iron main fitting with hydro-mechanically optimized sweep, 4" [102 mm] no-hub connections, and extended 2" [51 mm] vent. Corrosion resistant, adjustable 3" [76mm] X 6" [102mm] cast iron coupling, designed to increase flow velocity and line carry, and labor saving "Neo-Seal" bonded gasket optimizes flow performance while reducing installation steps. Complete system includes an adjustable faceplate, QuickFit™ faceplate gasket, floor mounted foot supports; rigid support frame assembly; extra-heavy-duty ½" [13 mm] rear anchor tie down; fixture bolts, trim, and stud protectors. EZCarry® XB system complies with all applicable requirements of ASME A112.6.1M up to a 1000 lbs [454 kg] maximum static load.

OPTIONS (Check/specify appropriate options)

_____ Z1201-NL4-XB 4 [102] No-Hub Left Hand Inlet with Flow to Right
_____ Z1201-NR4-XB 4 [102] No-Hub Right Hand Inlet with Flow to Left

PREFIXES

_____ Z D.C.C.I. System with Zurn ZZ Adjustable Coupling*

SUFFIXES

_____ -CC Corrosion Resistant Cast Iron Coupling (2-1/4 [57] to 12 [305])
_____ -G Galvanized Cast Iron
_____ -JC 2 [51] Auxiliary Inlet with 1/8 [3] Bend
_____-VP Vandal-Proof Trim
_____ -50 Flush Valve Supply Support for Water Closets

* Regularly furnished unless otherwise specified.

⚠ **WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov
⚠ **ADVERTENCIA:** Cáncer y daño reproductivo - www.P65Warnings.ca.gov
⚠ **AVERTISSEMENT:** Cancer et effets néfastes sur la reproduction - www.P65Warnings.ca.gov

Zurn Industries, LLC | Specification Drainage Operation
1801 Pittsburgh Avenue, Erie, PA 16502, Ph. 855.663.9876

In Canada | Zurn Industries Limited
7900 Goreway Drive, Unit 10, Brampton, Ontario L6T 5W6, Ph. 877.892.5216

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Rev. E
Date: 06/24/24
C.N. No. 146095
Patent zurn.com/patents
Prod. | Dwg. No. Z1201-N_4-XB

Z1201-ND4-XB

BARIATRIC BACK-TO-BACK CARRIER - 1000 lbs [454kg]
EZCARRY® ADJUSTABLE HORIZONTAL HIGH PERFORMANCE
SIPHON JET NO-HUB WATER CLOSET CARRIER SYSTEM

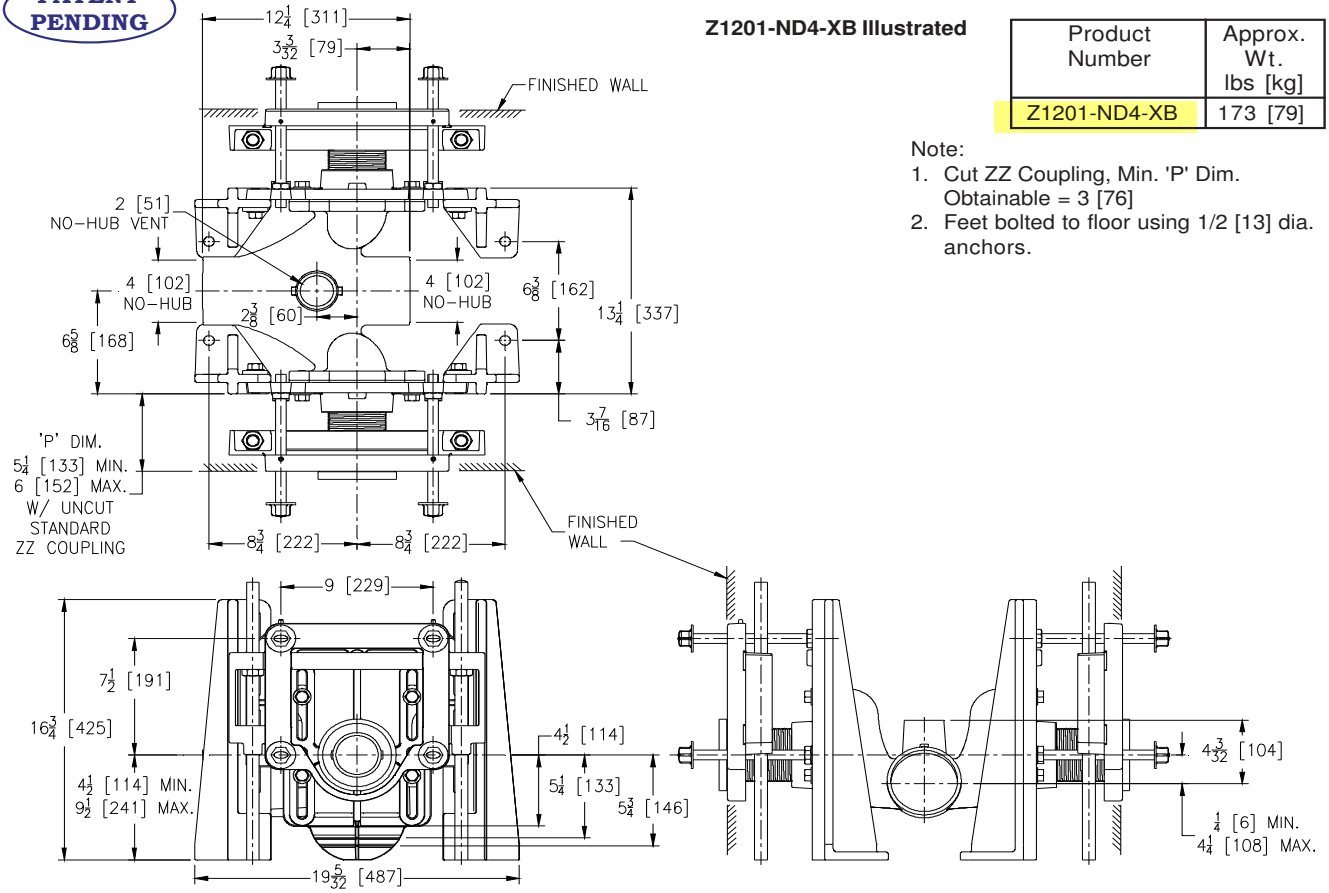
SPECIFICATION SHEET

TAG _____

PATENT PENDING

Dimensional Data (inches and [mm]) are Subject to Manufacturing Tolerances and Change Without Notice

Z1201-ND4-XB Illustrated



Product Number	Approx. Wt. lbs [kg]
Z1201-ND4-XB	173 [79]

Note:
1. Cut ZZ Coupling, Min. 'P' Dim. Obtainable = 3 [76]
2. Feet bolted to floor using 1/2 [13] dia. anchors.

ENGINEERING SPECIFICATION: ZURN Z1201-ND4-XB
EZCarry® Bariatric horizontal siphon jet water closet carrier system, with high performance Dura-Coated cast iron main fitting with hydro-mechanically optimized sweep, 4" [102 mm] no-hub connections, and extended 2" [51 mm] vent. Corrosion resistant, adjustable 3" [76mm] X 6" [102mm] cast iron couplings, designed to increase flow velocity and line carry, and labor saving "Neo-Seal" bonded gaskets optimize flow performance while reducing installation steps. Complete system includes adjustable, gasketed faceplates; floor mounted foot supports; rigid support frame assemblies; extra-heavy-duty ½" [13 mm] rear anchor tie downs; fixture bolts, trim, and stud protectors.EZCarry® XB system complies with all applicable requirements of ASME A112.6.1M up to a 1000 lbs [454 kg] maximum static load.

OPTIONS (Check/specify appropriate options)

_____Z1201-ND4-XB 4 [102] No-Hub Back-to-Back Inlet (Double)

PREFIXES

_____ Z D.C.C.I. System with Zurn ZZ Adjustable Coupling*

SUFFIXES

_____ -CC Corrosion Resistant Cast Iron Coupling (2-1/4 to 12 [57 to 305])
_____ -G Galvanized Cast Iron
_____ -VP Vandal-Proof Trim
_____ -50 Flush Valve Supply Support for Water Closets

* Regularly furnished unless otherwise specified.

Zurn Industries, LLC | **Specification Drainage Operation**
1801 Pittsburgh Avenue, Erie, PA U.S.A. 16502 · Ph. 855-663-9876, Fax 814-454-7929
In Canada | **Zurn Industries Limited**
3544 Nashua Drive, Mississauga, Ontario L4V 1L2 · Ph. 905-405-8272, Fax 905-405-1292
www.zurn.com

Rev. B
Date: 11/17/16
C.N. No. 135541
Prod. | Dwg. No. Z1201-ND4-XB

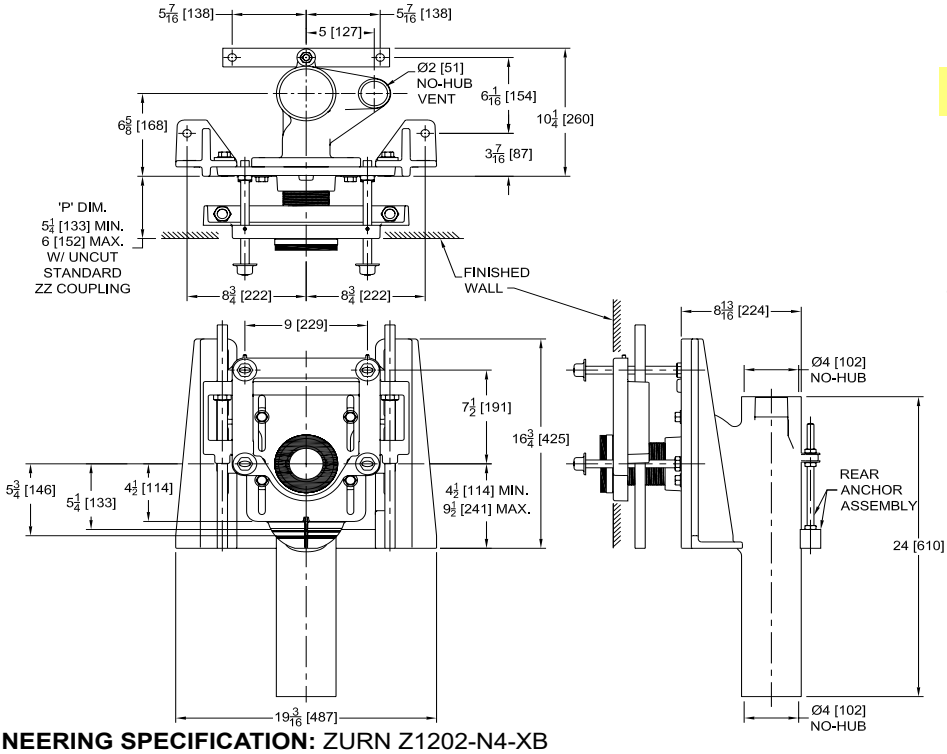
Z1202-N4-XB

BARIATRIC CARRIER - 1000 lbs [454kg]
EZCARRY® ADJUSTABLE VERTICAL HIGH PERFORMANCE
SIPHON JET NO-HUB WATER CLOSET CARRIER SYSTEM

SPECIFICATION SHEET

TAG _____

Design and Dimensional Data (inches and [mm]) are Subject to Manufacturing Tolerances and Change Without Notice



Product Number	Approx. Wt. lbs [kg]
Z1202-N4-XB	115 [52]

Note:

1. Cut ZZ Coupling, Min. 'P' Dim. Obtainable = 3 [76]
2. Feet bolted to floor using 1/2 [13] dia. anchors.
3. Rear anchor foot required for secure installation.
4. Floor anchors must each be able to withstand a pull-out force of 748 lbs [339 kg].
5. Pull-out forces are calculated values with standard coupling assembly. No safety factor has been applied. See Form C38 for more information.
6. 2 [51] No-Hub vent connection regularly furnished on right hand side. Left hand available when specified (Suffix -VL)
7. Auxiliary inlet available right (-JR) or left (-JL) or both sides (-JJ) when specified.

Z1202-N4-XB Illustrated

ENGINEERING SPECIFICATION: ZURN Z1202-N4-XB
EZCarry® Bariatric vertical siphon jet water closet carrier system with high performance Dura-Coated cast iron main fitting with hydro-mechanically optimized sweep, 4" [102 mm] no-hub connections, and extended 2" [51mm] vent. Corrosion resistant, adjustable 3" [76 mm] dia. X 6" [152 mm] coupling, designed to increase flow velocity and line carry, and labor saving "Neo-Seal" bonded gasket optimizes flow performance while reducing installation steps. Complete system includes adjustable faceplate, QuickFit™ faceplate gasket, floor mounted foot supports; rigid support frame assembly; extra-heavy-duty ½" [13 mm] rear anchor tie down; fixture bolts, trim, and stud protectors. EZCarry® XB system complies with all applicable requirements of ASME A112.6.1M up to a 1000 lbs [454 kg] maximum static load.

OPTIONS (Check/specify appropriate options)

_____ Z1202-N4-XB 4 [102] No-Hub Stack, Single Inlet, 2 [51] Right Hand Vent

PREFIXES

_____ Z D.C.C.I. System with Zurn ZZ Adjustable Coupling*

SUFFIXES

_____ -CC Corrosion Resistant Cast Iron Coupling (2-1/4 [57] to 12 [305])
_____ -G Galvanized Cast Iron
_____ -JJ Two 2 [51] Auxiliary Inlets
_____ -JL 2 [51] Left-Hand Auxiliary Inlet
_____ -JR 2 [51] Right-Hand Auxiliary Inlet
_____ -VL Left Hand Vent Connection
_____ -VP Vandal-Proof Trim
_____ -50 Flush Valve Supply Support for Water Closets

* Regularly furnished unless otherwise specified.

⚠ **WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov
⚠ **ADVERTENCIA:** Cáncer y daño reproductivo - www.P65Warnings.ca.gov
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Zurn Industries, LLC | Specification Drainage Operation
1801 Pittsburgh Avenue, Erie, PA 16502, Ph. 855.663.9876

In Canada | Zurn Industries Limited
7900 Goreway Drive, Unit 10, Brampton, Ontario L6T 5W6, Ph. 877.892.5216

www.zurn.com

Rev. E
Date: 08/16/24
C.N. No. 146178
Patent zurn.com/patents
Prod. | Dwg. No. Z1202-N4-XB

Job Name : 2.16 HIGHLANDS BUILDING ROGERS
Manufacturer : ZURN
Model Number : Z1202-ND4-XB

Manufacturer other than Specified

Type :

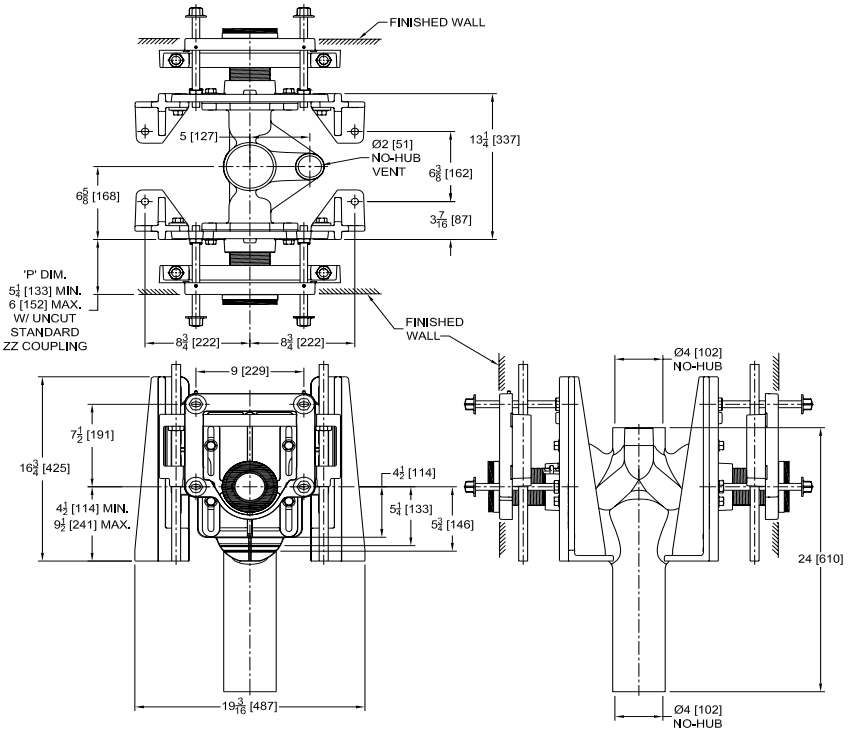
Z1202-ND4-XB

BARIATRIC CARRIER BACK-TO-BACK CARRIER- 1000 lbs [454kg]
EZCARRY® ADJUSTABLE VERTICAL HIGH PERFORMANCE
SIPHON JET NO-HUB WATER CLOSET CARRIER SYSTEM

SPECIFICATION SHEET

TAG _____

Design and Dimensional Data (inches and [mm]) are Subject to Manufacturing Tolerances and Change Without Notice



Product Number	Approx. Wt. lbs [kg]
Z1202-ND4-XB	188 [85]

Note:
1. Cut ZZ Coupling, Min. 'P' Dim. Obtainable = 3 [76]
2. Feet bolted to floor using 1/2 [13] dia. anchors.

Z1202-ND4-XB Illustrated

ENGINEERING SPECIFICATION: ZURN Z1202-ND4-XB
EZCarry® Bariatric vertical siphon jet water closet carrier system, with high performance Dura-Coated cast iron main fitting with hydro-mechanically optimized sweep, 4" [102 mm] no-hub connections, and extended 2" [51 mm] vent. Corrosion resistant, adjustable cast iron couplings, designed to increase flow velocity and line carry, and labor saving "Neo-Seal" bonded gaskets optimize flow performance while reducing installation steps. Complete system includes adjustable faceplates, QuickFit™ faceplate gaskets, floor mounted foot supports; rigid support frame assemblies; extra-heavy-duty ½" [13 mm] rear anchor tie downs; fixture bolts, trim, and stud protectors. EZCarry® XB system complies with all applicable requirements of ASME A112.6.1M up to a 1000 lbs [454 kg] maximum static load

OPTIONS (Check/specify appropriate options)
_____ Z1202-ND4-XB 4 [102] No-Hub Stack, Back-to-Back Inlet (Double), 2 [51] Right Hand Vent

PREFIXES
_____ Z D.C.C.I. System with Zurn ZZ Adjustable Coupling*

SUFFIXES
_____ -CC Corrosion Resistant Cast Iron Coupling (2-1/4 [57] to 12 [305])
_____ -G Galvanized Cast Iron
_____ -JJ Two 2 [51] Auxiliary Inlets
_____ -JL 2 [51] Left-Hand Auxiliary Inlet
_____ -JR 2 [51] Right-Hand Auxiliary Inlet
_____ -VP Vandal-Proof Trim
_____ -50 Flush Valve Supply Support for Water Closets

* Regularly furnished unless otherwise specified.

⚠ **WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov
⚠ **ADVERTENCIA:** Cáncer y daño reproductivo - www.P65Warnings.ca.gov
⚠ **AVERTISSEMENT:** Cancer et effets néfastes sur la reproduction - www.P65Warnings.ca.gov

Zurn Industries, LLC | Specification Drainage Operation
1801 Pittsburgh Avenue, Erie, PA 16502, Ph. 855.663.9876

In Canada | Zurn Industries Limited
7900 Goreway Drive, Unit 10, Brampton, Ontario L6T 5W6, Ph. 877.892.5216

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Rev. C
Date: 07/23/24
C.N. No. 146178
Patent zurn.com/patents
Prod. | Dwg. No. Z1202-ND4-XB



2.16 HIGHLANDS BUILDING ROGERS

Datasheets

HWC-2

Model(s) Z5665-BWL1

EcoVantage® Floor-Mount Siphon-Jet Toilet Bowl, ADA Height

TAG_____

Architectural/Engineering Specification:

Vitreous China, floor mounted, bottom outlet toilet with siphon jet flushing action and elongated front rim with 1-1/2" spud. This bowl is designed to perform to industry standards with as little as 1.1 gallons per flush.

PRODUCT FEATURES:

- Zurn High Efficiency Toilets and paired performance flush valve systems are designed to exceed industry standards, while using as little as 1.1 gallons of water per flush.
- Vitreous china
- Elongated front rim
- 2-1/8" fully glazed trapway
- ADA Compliant Rim Height
- High efficiency siphon jet flush action
- Shipping Weight: 55 lbs.



Product Compliance:

ADA
ASME A112.19.2/CSA B45.1
CEC
CSA B45.1
IPC
WaterSense

*Complies with ADA & ICC A117.1 accessibility requirements when installed according to the requirements outlined in these standards.

*This product should be used with a WaterSense labeled counterpart with a compatible flow volume to ensure that the entire system meets the requirements for water efficiency and performance.

**Although products with certain combinations of options and features will meet or comply with these standards and/or certifications, not every combination of options and features will result in such compliance. If you have any questions about your particular product, please contact our Customer Care Dept. at 1-855-ONE-ZURN (United States) or 1-877-892-5216 (Canada) for confirmation.*

Installation Guide - fv867.pdf

Recommended Trim:

☐	Z5955SS-EL	Elongated, standard white, open front toilet seat less cover with stainless steel check hinge
☐	Z5972-COMB	Closet bolt and wax ring kit

Architectural/Engineering Approval

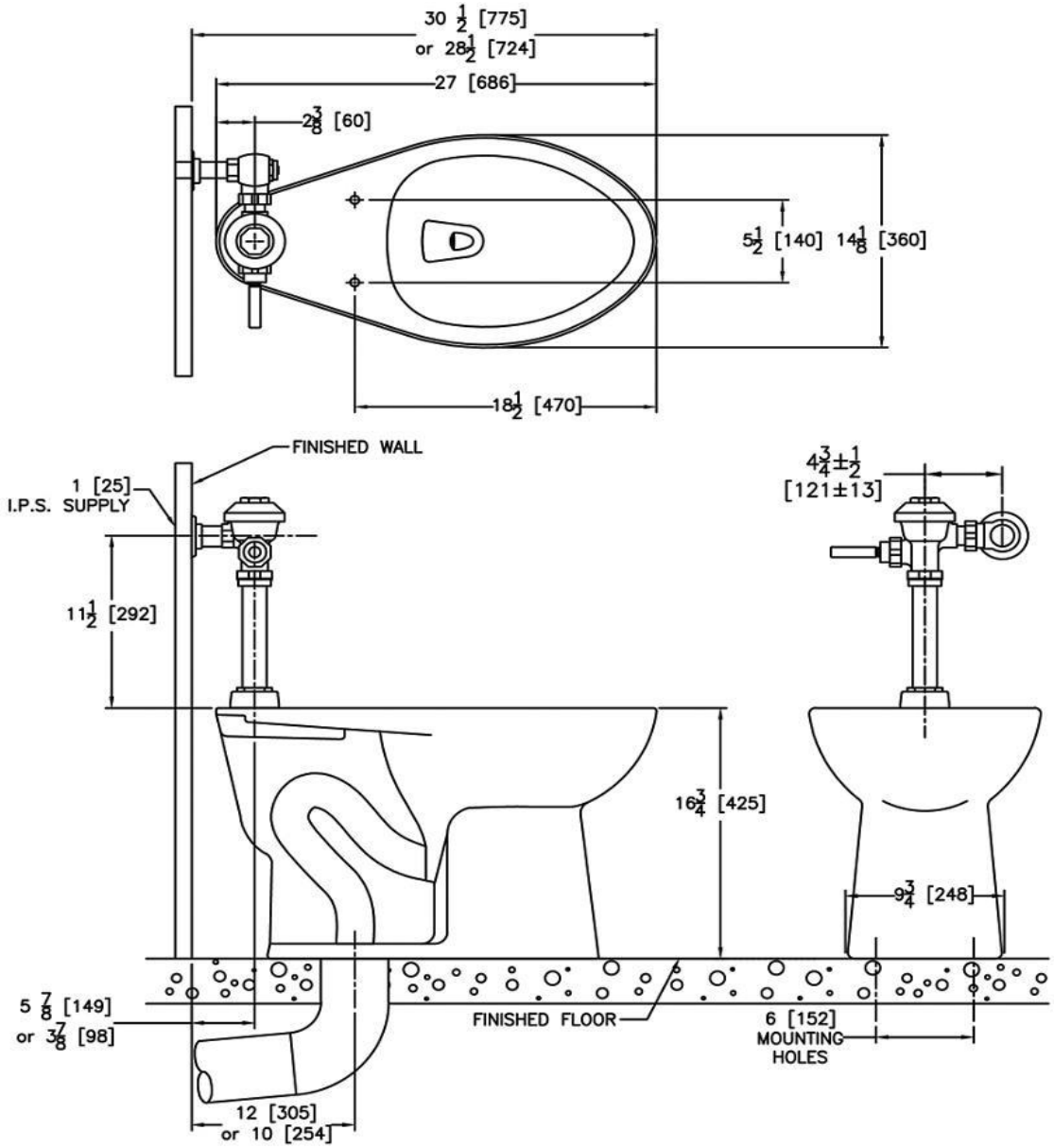
Design and dimensional data (inches and [mm]) are subject to manufacturing tolerances and change without notice.

⚠WARNING: *Cancer and Reproductive Harm* – www.P65warnings.ca.gov
⚠ADVERTENCIA: *Cáncer y daño reproductivo* – www.P65warnings.ca.gov
⚠AVERTISSEMENT: Cancer *et effets néfastes sur la reproduction* – www.P65warnings.ca.gov

Model(s) Z5665-BWL1

EcoVantage® Floor-Mount Siphon-Jet Toilet Bowl, ADA Height

TAG_____



NOTE: All dimensions are for reference only. Do not use for pre-plumbing.

Design and dimensional data (inches and [mm]) are subject to manufacturing tolerances and change without notice.

⚠WARNING: *Cancer and Reproductive Harm* – www.P65warnings.ca.gov
⚠ADVERTENCIA: *Cáncer y daño reproductivo* – www.P65warnings.ca.gov
⚠AVERTISSEMENT: Cancer *et effets néfastes sur la reproduction* – www.P65warnings.ca.gov

ZTR6200

Battery Powered Exposed Sensor Flush Valve for Water Closets

TAG _____

Architectural/Engineering Specification:

Exposed, quiet piston-type, chrome plated flushometer valve with a polished exterior. Complete with chloramine resistant, filtered piston kit. The valve incorporates a battery powered solenoid actuator, automatic sensor with manual override push button, and robust vandal resistant metal cover with 10 degree angled sensor.

Product Features:

- Proprietary Dezincification resistant low lead brass alloy
- Control Stop has internal siphon-guard protection and vandal resistant stop cap, Sweat solder kit, wall flange with set screw.
- High back pressure Vacuum Breaker with one piece hex coupling nut
- Chloramine resistant Internal seals
- Adjustable tailpiece
- Spud coupling and flange for top spud connection

Compliance and Certification:

- ADA Compliant - Operational Controls

*This product should be used with a WaterSense labeled counterpart with a compatible flush volume to ensure that the entire system meets the requirements for water efficiency and performance.

WHEN INSTALLING IN A HANDICAP STALL:

Per the ADA Guidelines (section 604.9.4) it is recommended that the grab bars be split or shifted to the wide side of the stall. If grab bars must be present over the valve, use the alternate ADA installation as shown on the next page.



Flow Options:

	Flush Volume gpf [Lpf]	Dual Flush	WaterSense Labeled*
☐ **-ONE**	1.1 gpf [4.1 Lpf]		✓
☐ **-EV**	1.28 gpf [4.8 Lpf]		✓
☐ **-WS1**	1.6 gpf [6.1 Lpf]	1.6/1.1 Gpf [6.1/4.1 Lpf]	

Note: Dual Flush feature has 60 second threshold

Suffix Options:

☐ -DF	Dual Flush Option (See Chart Above)
☐ -FM12	Floor Mount 12” Rough In
☐ -LL	10 Year Long Life Battery
☐ -YJ	Split Ring Pipe Support
☐ -YK	Solid Ring Pipe Support

Valve Height Options:

	A
☐ Standard	11 1/2” [292]
☐ -1	16” [406]
☐ -2	24” [610]
☐ -3	27” [686]

Architectural/Engineering Approval

The information contained in this document is subject to change without notice.
Please contact Zurn for most up to date information.

Rev. D | Date: 11/11/22 | C.N. No. 144844 | Prod./Dwg. No. SS ZTR6200

Patent zurn.com/patents
US 1.855.ONE.ZURN **CANADA** 1.877.892.5216
ZURN.COM

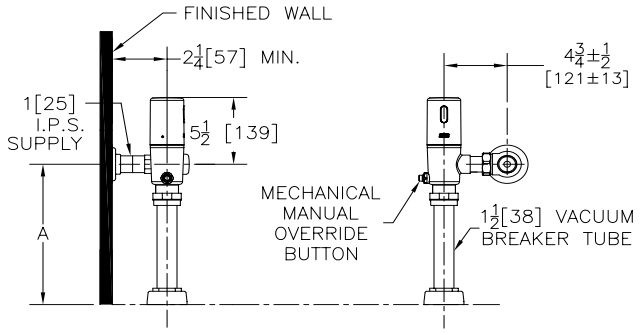
by zurn ELKAY Water Solutions

ZTR6200

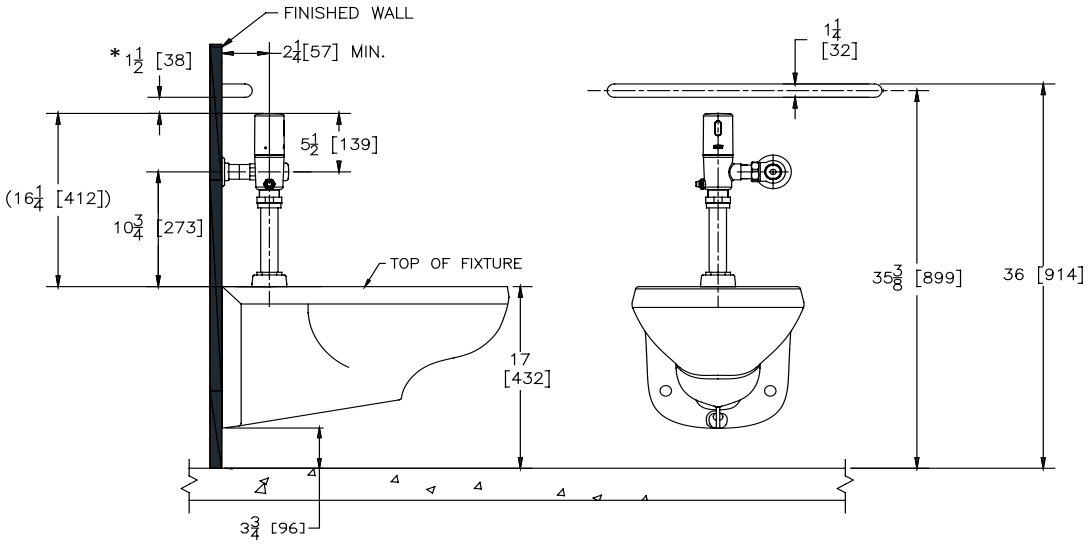
Battery Powered Exposed Sensor Flush Valve for Water Closets

TAG _____

Rough-in/Overview dimensions



Alternate ADA Installation



- Water supply rough-in to 10 3/4” (minimum) with grab bar at 36”.
- ADA compliance met using 1 1/4” grab bar as shown.
- *ADA compliant minimum gap between wall and grab bar 1 1/2”.
- Does not meet California ADA compliance for grab bar height (33” grab bar centerline required)

Rev. D | Date: 11/11/22 | C.N. No. 144844 | Prod./Dwg. No. SS ZTR6200

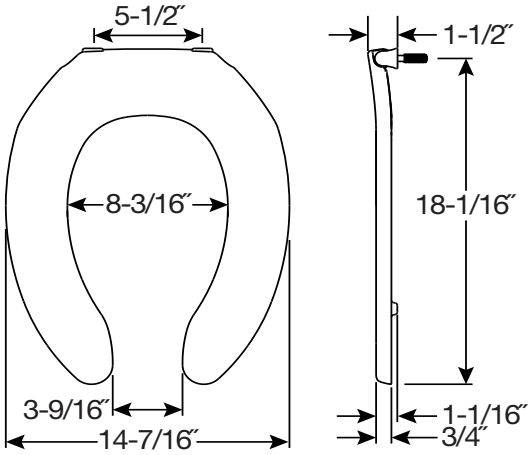
Patent zurn.com/patents
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by zurn ELKAY Water Solutions

1055 / 1055SSC

COMMERCIAL HEAVY-DUTY
PLASTIC TOILET SEAT





SPECIFICATIONS:

Size: Elongated

Material: Plastic

Style: Open Front less Cover

Ring Bumpers: Two

Hinges: Plastic Non Self-Sustaining Check Hinge (1055) or Self-Sustaining Check Hinge (1055SSC) with Non-Corroding 300 Series Stainless Steel Posts and Pintles

Hardware: Non-Corroding 300 Series Stainless Steel Washers and Nuts

Codes & Standards: Complies with IAPMO/ANSI Z124.5 Performance Standards Heavy-Duty Commercial

Proudly Made in the USA

Eco-Friendly

Bemis Manufacturing Co. reserves the right to make revisions without notice to product specifications.
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Harvey™ No-Seep® No. 1 Wax Gaskets



Harvey™ No-Seep® No. 1 Wax Gaskets are manufactured to fit 3 in. and 4 in. waste lines. These wax rings are recommended for setting any floor mount toilet. For more than 75 years, Harvey™ has offered a wide variety of products for the plumbing sector.

Specifications

Material:	Wax
Brand:	Harvey
Size:	3 or 4 in.
Application:	Floor Mounted Toilet
Product Type:	Wax Gasket with Sleeve
Weight:	0.333 lb.

Key Features & Benefits

- Wax toilet bowl gasket with polyethylene flange
- For setting floor mount toilet bowls with any floor type
- Fits 3 in. and 4 in. waste lines
- Stainless, waterproof and impervious to odors and gases
- Will not dry out, harden or deteriorate

BLUE MONSTER® Closet Bolts



BLUE MONSTER
Advantage™ Closet Bolts



Each kit contains:
- **2 Solid Brass Bolts**
- **2 Brass Hex Nuts**
- **2 Nylon Tinnerman Nuts**
- **2 Brass Open-End Acorn Hex Nuts**
- **4 Stainless Steel Round Washers**

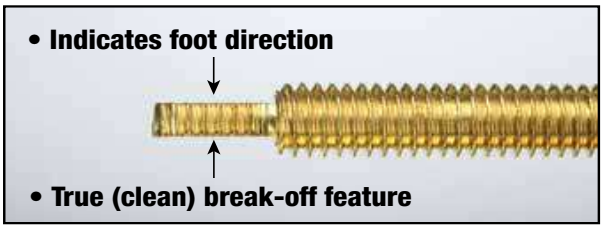
BLUE MONSTER Advantage™ Closet Bolts simplify installation to save time and ensure the job is done right. For the first time since the invention of the closet bolt, installers can tell the direction of the foot while setting the toilet. One quick glance at the unique broached tip design shows the direction of the bolt foot.

Raised knobs on the underside of the foot prevents movement after setting the toilet, simplifying the installation process. BLUE MONSTER Advantage™ Closet Bolts true break-off feature eliminates the need to saw the bolt to the proper length. The bolts are machined to facilitate a clean "break-off" at the desired level with a pair of pliers. This action takes seconds, prevents marking the china with a saw and provides a secure fit for the universal bolt cap. It also allows for easy removal of the nut if disassembly is required.

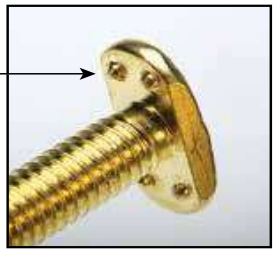


Simplifies Installation!

Patent Pending



- **Larger foot with toes that grip**
- **Easy hold back**
- **Boosts productivity**
- **Ensures proper installation**



Boost productivity with BLUE MONSTER Advantage™ Closet Bolts. Faster installation allows you to spend more time on other activities. If you save 10 minutes a day, five days a week, you've increased your productivity by 42 hours a year.

Using BLUE MONSTER Advantage™ Closet Bolts helps eliminate call-backs because the job is done right the first time.

Cat #	Size	Case Pack	Wgt.
73065	5/16" x 2-1/4"	100	16 lbs
73070	5/16" x 3-1/2"	100	22 lbs
73064	1/4" x 2-1/4"	100	10 lbs
73069	1/4" x 3-1/2"	100	16 lbs

The Mill-Rose Company • Clean-Fit Products
7310 Corporate Blvd., Mentor, OH 44060
To order call toll-free: (800) 321-3598 or Fax (440) 255-1072
Visit our web site at www.CleanFit.com • E-mail: info@CleanFit.com



2.16 HIGHLANDS BUILDING ROGERS

Datasheets

JS-1

PROVIDE SPECIFIED BOBRICK B-224 X 36 SHELF WITH MOP AND BROOM HOLDERS/ AND RAG HOOKS

MOLDED STONE® MOP SERVICE BASIN MSB2424 & MSB3624

MOLDED STONE®
MOP SERVICE BASIN

❑ **MSB2424**

- Molding done in matched metal dies under heat and pressure resulting in a one-piece homogeneous product.
- The unit has 10” high walls with no less than 1” wide shoulders.
- The stainless steel drain body is designed for a caulk connection or QDC-3 joint to connect to a 3” drain pipe.
- Stainless steel strainer included.
- Made in U.S.A.

Nominal Dimensions:
24" x 24" x 10"
(610 x 610 x 254mm)

Shipping Weight:
37lbs. (16.8 Kg)

❑ **MSB3624**

- Molding done in matched metal dies under heat and pressure resulting in a one-piece homogeneous product.
- The unit has 10” high walls with no less than 1” wide shoulders and an integrally molded shelf 10 9⁄16” wide where indicated.
- The stainless steel drain body is designed for a caulk connection or QDC-3 joint to a 3” drain pipe.
- Stainless steel strainer included.
- Made in U.S.A.

Nominal Dimensions:
36" x 24" x 10"
(914 x 610 x 254mm)

Shipping Weight:
45lbs. (20.4 Kg)

Compliance Certifications -
Meets or Exceeds the Following Specifications:

- IAPMO / ANSI Z124.6-2007
- ASME A112.18.2 / CSA B125.2
- CSA B45.5



Shown: MSB2424

SEE REVERSE FOR ROUGH-IN DIMENSIONS

Optional Components:

❑ **830AA** Service Faucet:
- Chrome plated with vacuum breaker, integral stops, adjustable wall brace, pail hook and 3/4" hose thread on spout

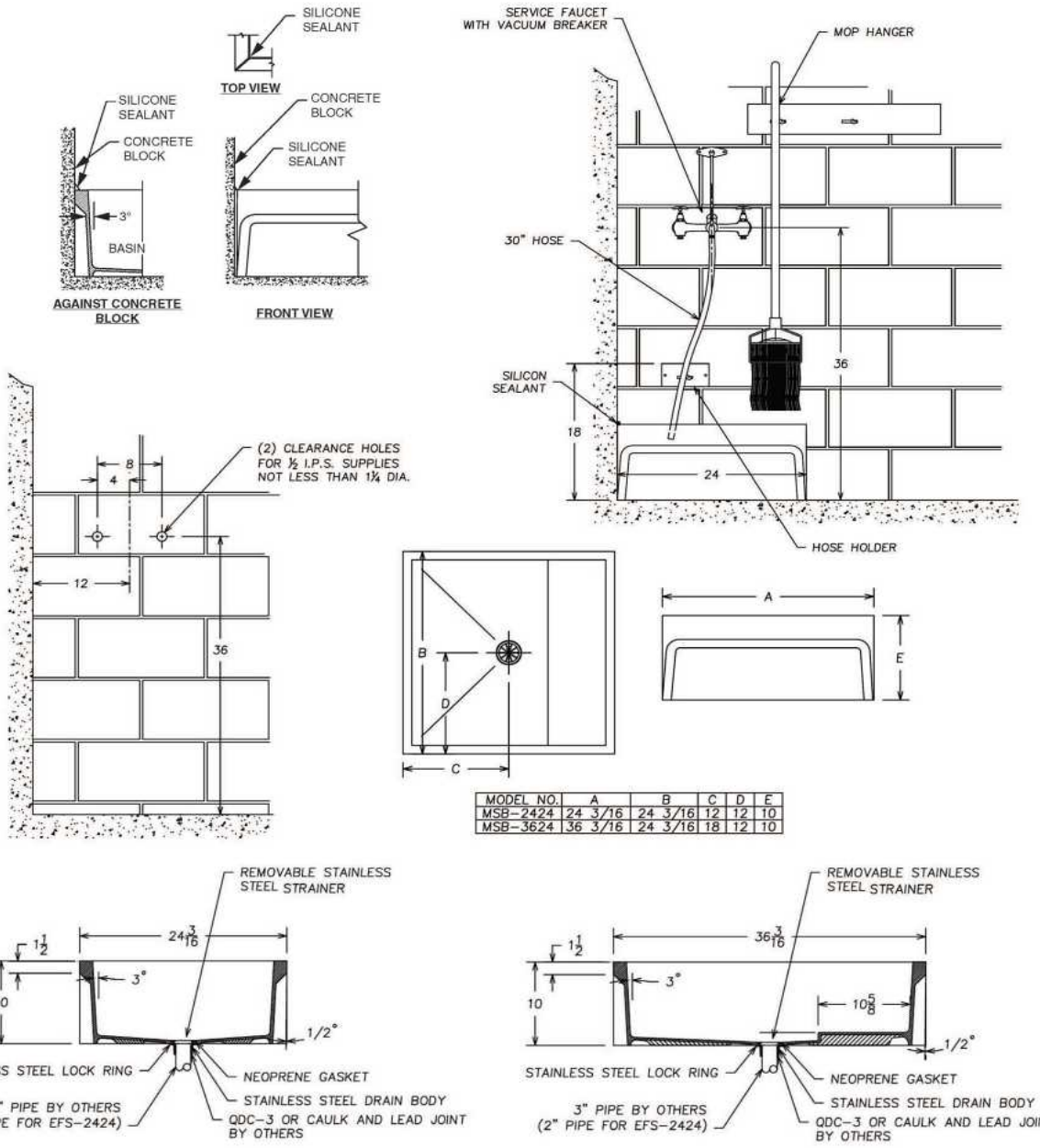
❑ **832AA** Hose & Hose Bracket
❑ **MSG2424 & MSG3624** Stainless Steel Wall Guard
❑ **E77-AA** Vinyl Bumper Guard
❑ **E88-AA** Stainless Steel Bumper Guard
❑ **STR1000** Dome Strainer
❑ **QDC-3XH** 3" Quick Drain Connector for attaching heavy cast iron soil pipe and Schedule 40 steel pipe to the drain body. Order separately.
❑ **QDC-3SN** 3" Quick Drain Connector for attaching hubless cast iron pipe and service weight cast iron soil pipe to the drain body. Order separately.
❑ **833AA** Silicone Sealant
❑ **889CC** Mop Hanger
❑ **889CCSHELF** Stainless Steel Shelf:
- Stainless steel rod, 3 large open hooks, three spring loaded rubber grips to hold mop handles

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FIAT PRODUCTS

MOLDED STONE®
MOP SERVICE BASIN
MSB2424 & MSB3624



MODEL NO.	A	B	C	D	E
MSB-2424	24 3/16	24 3/16	12	12	10
MSB-3624	36 3/16	24 3/16	18	12	10

IMPORTANT: Rough-in dimensions may vary 1/2" and are subject to change or cancellation without prior notice.

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MSB2424/3624_Spec-C

FIAT PRODUCTS

SERVICE SINK FAUCET
830AA000

SERVICE SINK FAUCET

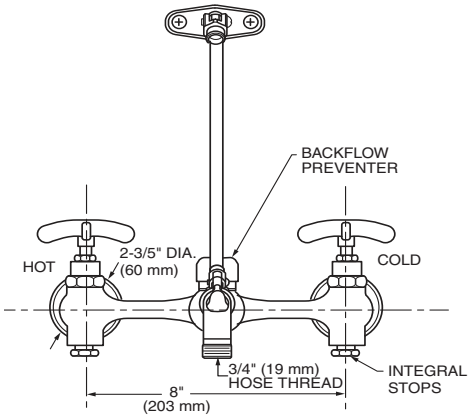
- Chrome plated with vacuum breaker, integral stops, adjustable wall brace, pail hook and 3/4" hose thread on spout.
- Body inlets 8" center to center, four arm handles.
- Valves contain renewable hub, renewable seats, swivel discs, encased washers and brass washer screws.
- Commercial red brass alloy casting-rough finish.
- Chrome plating exceeds requirements of ASTM B-456-71.
- Indicators cold (blue) and hot (red) are included.



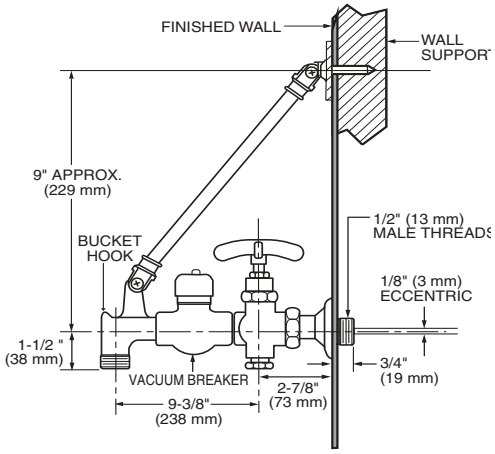
Specifications and Codes:

- Meets or exceeds requirements of: ASME A112.18.1-2018 / CSA B125.1 Plumbing Supply Fittings.
- ASSE 1001 / CSA B64.1.1 Atmospheric Type Vacuum Breakers.

IMPORTANT: Rough-in dimensions may vary 1/4" (plus or minus) and are subject to change or cancellation without prior notice.



FRONT VIEW



SIDE VIEW

FIAT PRODUCTS

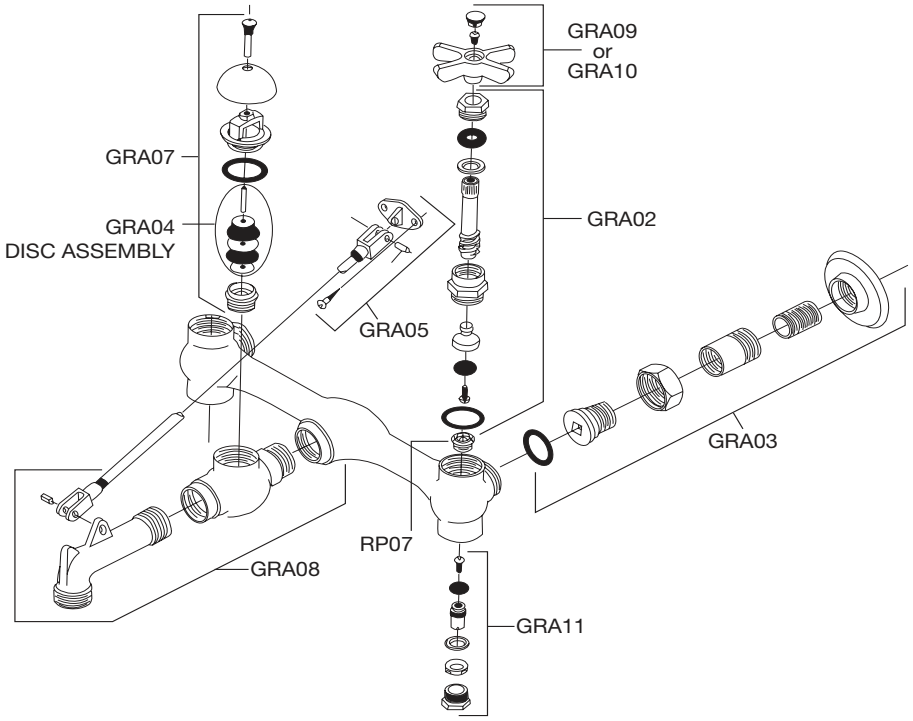
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FIAT PRODUCTS

GROUP REPLACEMENT ASSEMBLY PARTS LIST
830AA000



GROUP ASSEMBLY PART#	DESCRIPTION
GRA02000	Handle mounting group assembly — includes part number GRA02
GRA03000	Coupling assembly — includes part number GRA03
GRA05000	Brace assembly - includes part number GRA05
GRA07000	Vacuum breaker and disc assembly — includes part number GRA07
GRA09000	Handle assembly (cold) — includes part number GRA09
GRA10000	Handle assembly (hot) — includes part number GRA10
GRA11000	Integral stop assembly — includes part number GRA11
RP07000	Seat — one (1) per package.

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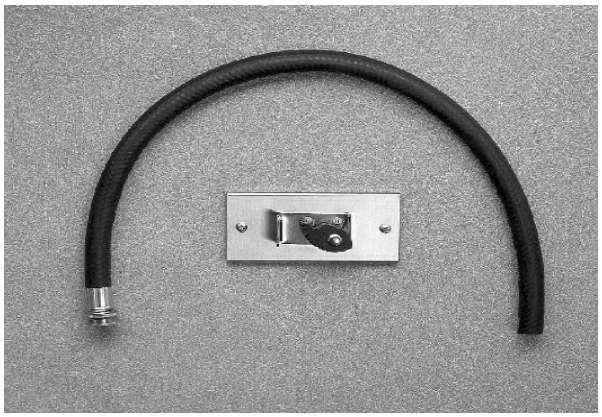
FIAT PRODUCTS

832-AA HOSE & HOSE BRACKET

832-AA Hose and Hose Bracket

- A 30" long flexible, heavy duty 5/8" rubber hose. Cloth reinforced with 3/4" brass coupling at one end. Bracket is 5" long 3" wide, stainless steel with rubber grip.

- Hose and Hose Bracket are used with the 36" x 24" x 10" Molded-Stone Mop Service Basin with Shelf (MSB-3624) and the 24" x24" x 10" Molded-Stone Mop Service Basin less shelf (MSB-2424).



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FIAT PRODUCTS

889-CC MOP HANGER

889-CC Mop Hanger
•Wall mounted stainless steel mop ha[illegible]r is 24" long x 3" wide, with three (3) rubber to[illegible]rips that can hold onto a variety of handle size.



PROVIDE SPECIFIED BOBRICK B-224 X 36 SHELF WITH MOP AND BROOM HOLDERS/ AND RAG HOOKS



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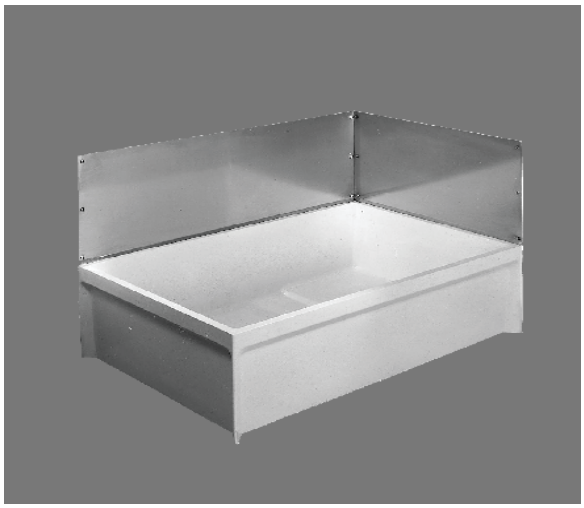
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MSG SERIES
STAINLESS STEEL SPLASH GUARDS

MSG2424, MSG2828 MSG3232, MSG3636 & MSG3624 Stainless Steel Splash Guards

- FIAT Products Splash Guards are great for containing water splashes within any utility sink area
- Durable and maintenance free, 24 gauge 304 stainless steel material
- Splash Guards play a crucial role in averting potential water damage which can lead to high maintenance costs later on
- Provides for wall protection against everyday use
- Stainless steel if virtually unaffected by most acidic or alkaline substances which may deteriorate guards of other materials
- See back for ordering options
- Custom sized solutions available upon request



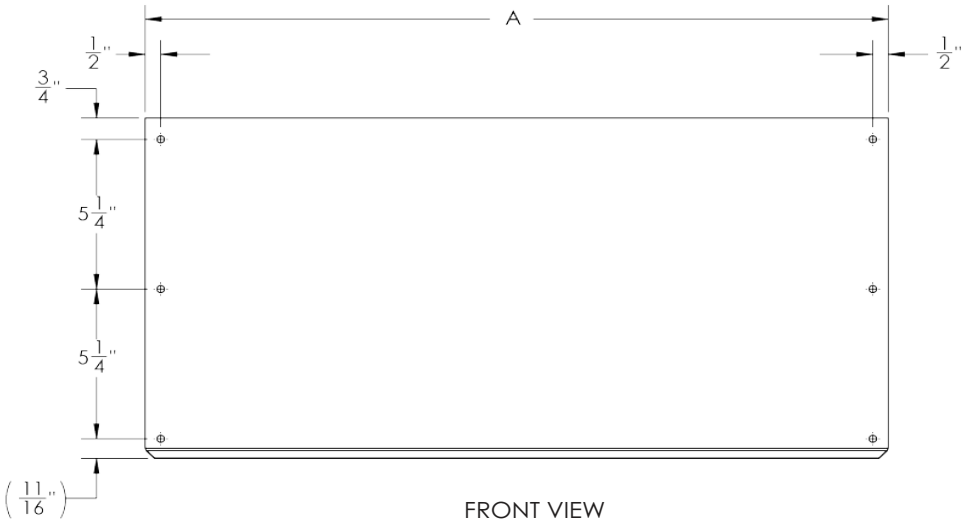
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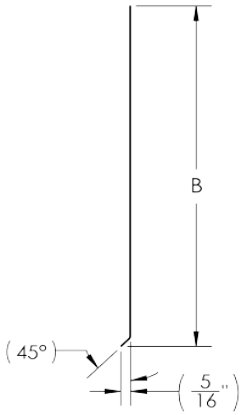
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FIAT PRODUCTS

MSG SERIES
STAINLESS STEEL SPLASH GUARDS

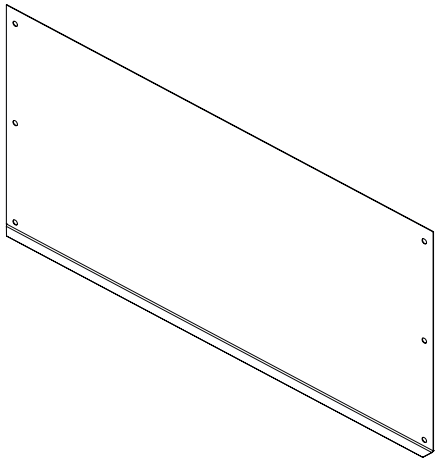


FRONT VIEW



SIDE VIEW

MODEL	DESCRIPTION	A (in)	B (in)
MSG24	Single Panel Stainless Steel Splash Catcher 24” W x 12” H	24" (610 mm)	12" (305 mm)
MSG2424	Two Panel-One Corner Stainless Steel Splash Catcher 24” W x 12” H	24" (610 mm)	12" (305 mm)
MSG28	Single Panel Stainless Steel Splash Catcher 28” W x 12” H	28" (711 mm)	12" (305 mm)
MSG2828	Two Panel-One Corner Stainless Steel Splash Catcher 28” W x 12” H	28" (711 mm)	12" (305 mm)
MSG32	Single Panel Stainless Steel Splash Catcher 32” W x 12” H	32" (813 mm)	12" (305 mm)
MSG3232	Two Panel-One Corner Stainless Steel Splash Catcher 32” W x 12” H	32" (813 mm)	12" (305 mm)
MSG36	Single Panel Stainless Steel Splash Catcher 36” W x 12” H	36" (914 mm)	12" (305 mm)
MSG3636	Two Panel-One Corner Stainless Steel Splash Catcher 36” W x 12” H	36" (914 mm)	12" (305 mm)
MSG3624	Two Panel-One Corner Stainless Steel Splash Catcher 24” W x 36” W x 12” H	24", 36" (610, 914 mm)	12" (305 mm)



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2.16 HIGHLANDS BUILDING ROGERS

Datasheets

KE-01

TOP SHELF FULL DEPTH HAND SINKS

TSF SERIES 12" & 18"W x 24"D Hand Sink with Folded Paper Towel and Soap Dispensers

NSF C US
ASME A112.19.3/
CSA B45.4
NSF/ANSI 2

JOB	
AREA	
ITEM NO.	
MODEL NO.	

MODELS
TS Series
TSF12HS
TSF18HS



TSF12HS
(shown with faucet)



TSF18HS
(shown with faucet)

KEY PRODUCT FEATURES AND BENEFITS

- Drawn, 18 gauge stainless steel sink bowl and work surface has a long life span and is dent resistant, even under heavy use.
- 16 oz. soap dispenser and C-fold or tri-fold paper towel dispenser integrated into the front apron for quick access.
- Soap dispenser easily refills from the top.
- Paper towel dispenser opens horizontally for easy access and refill.
- Paper towel positioned to minimize having to bend over to access paper towels for use.

Additional Features:

- All stainless steel construction.
- Our new, more robust Perlick Quick Clamp leg attachment still features easy tool-less installation, when legs are used.
- Optional Perlick Flex Mount leg relocation kit moves rear legs forward for additional space behind the equipment or moves forward legs rearward to help avoid pesky floor drains, available on TSF units.
- Stainless steel legs with adjustable thermoplastic feet install without tools for freestanding applications.
- Optional NSF-listed commercial-grade hot/cold water faucet stands up to years of use and can be easily serviced from the front.
- Optional side splashes.

**Faucets must be ordered separately.*

Form No. Z2966
Rev. 12.05.23

PERLICK CORPORATION 8300 W. Good Hope Rd., Milwaukee, WI 53223 • 800.558.5592 • perlick.com

TOP SHELF FULL DEPTH HAND SINKS

TSF SERIES 12" & 18"W x 24"D Hand Sink with Folded Paper Towel and Soap Dispensers

MODEL NOS.		TSF12HS	TSF18HS
DIMENSIONS: EXTERIOR	Width In. (mm)	12" (305)	18" (457)
	Depth In. (mm)	24" (610)	
	Weight lb. (kg)	50 (23)	60 (27)
MATERIALS	Construction	All stainless steel	
	Top & Deck	18 gauge stainless steel	
	Front & Back	Seamless 18 gauge stainless steel	
	Backsplash	Stainless steel 6" high (4" high optional) with 1" return at the top, fastened and sealed to hand sink top	
	Legs	1-5/8" tubular, stainless steel with 1" adjustable thermoplastic feet	
	Bowl	Drawn, 18 gauge stainless steel. All horizontal and vertical edges 1-1/2" radius with balled corners. Furnished with 1-1/2" stainless steel drain socket. 10"W x 14" front-to-back x 9" deep.	
	Water Faucet	Faucets are heavy duty construction, chrome plated, lead free, and have the leads attached for easy hook up. **Faucet must be ordered separately.**	
PLUMBING	Drain Connection	1-1/2" NPS male. Hot and cold water connection	
	Water Connection	1/2" IPS shanks and nuts. 18" braided water supply lines.	
ACCESSORIES (PARTIAL LIST):		Wrist blades, touchless faucet, splash guards, Perlick Flex Mount leg relocation kit.	

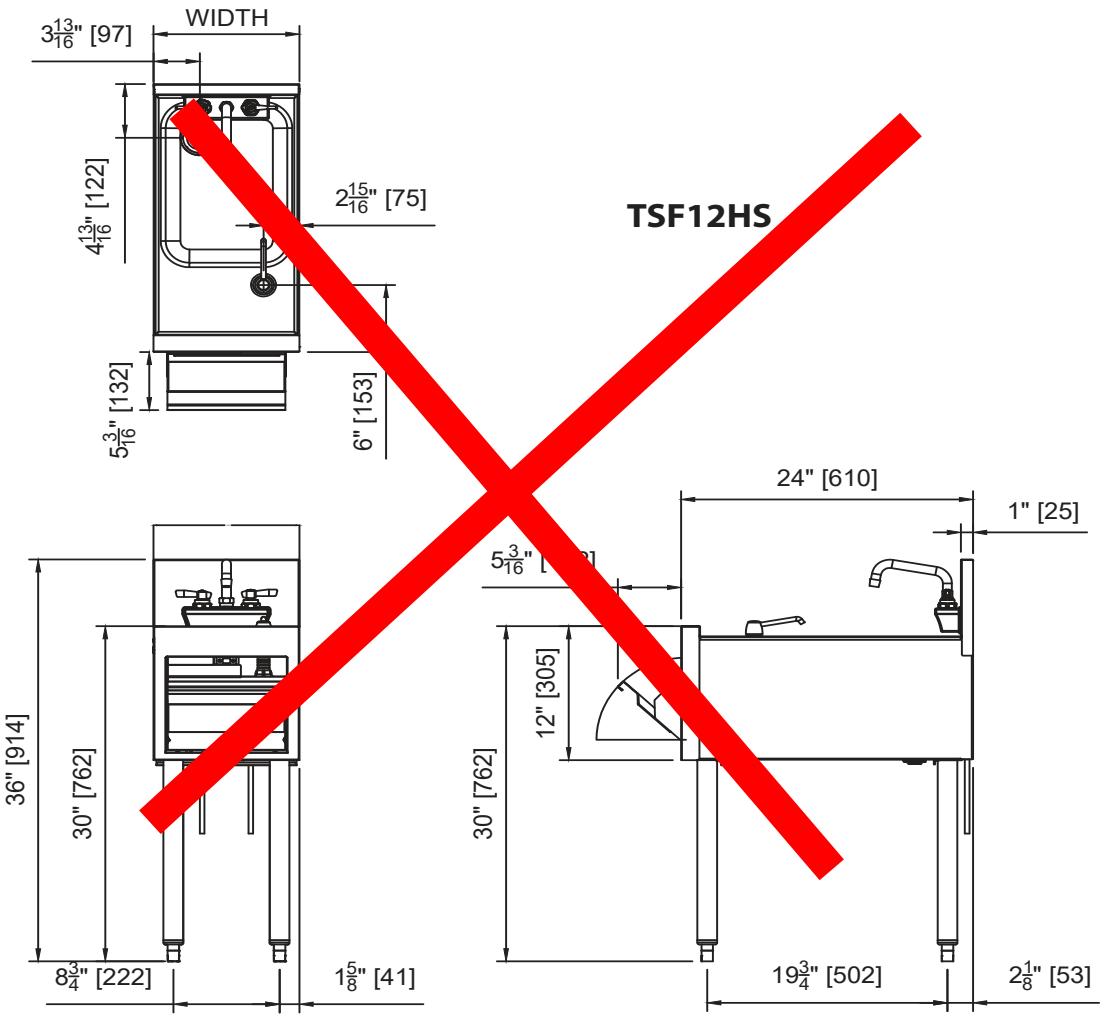
Shown with optional faucet. Must be ordered separately.

Form No. Z2966
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TOP SHELF FULL DEPTH HAND SINKS

TSF SERIES 12" & 18"W x 24"D Hand Sink with Folded Paper Towel and Soap Dispensers

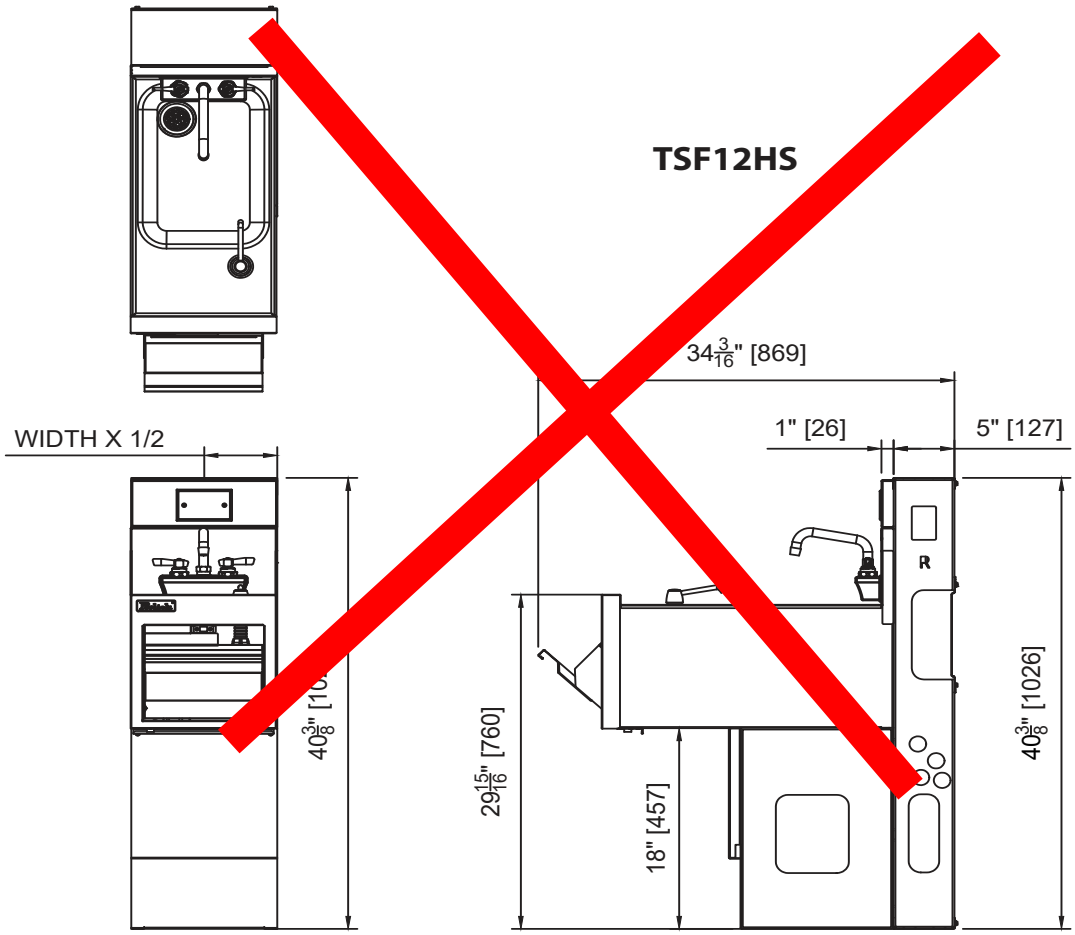


Shown with optional faucet. Must be ordered separately.

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TOP SHELF FULL DEPTH HAND SINKS

TSF SERIES 12" & 18"W x 24"D Hand Sink with Folded Paper Towel and Soap Dispensers



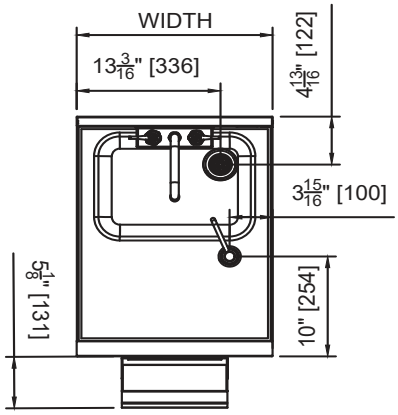
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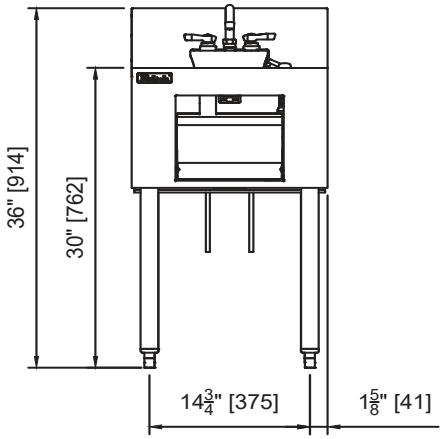
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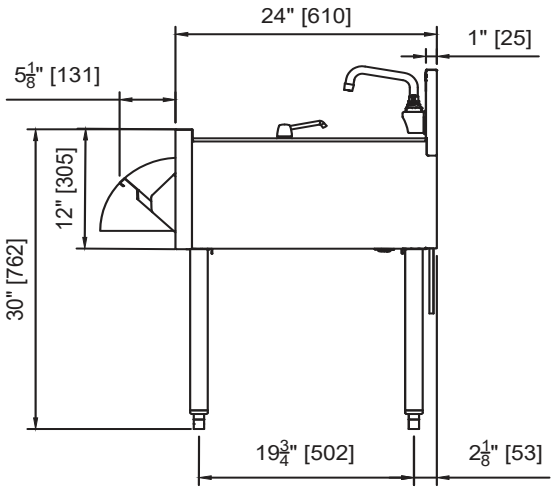
TOP SHELF FULL DEPTH HAND SINKS

TSF SERIES 12" & 18"W x 24"D Hand Sink with Folded Paper Towel and Soap Dispensers









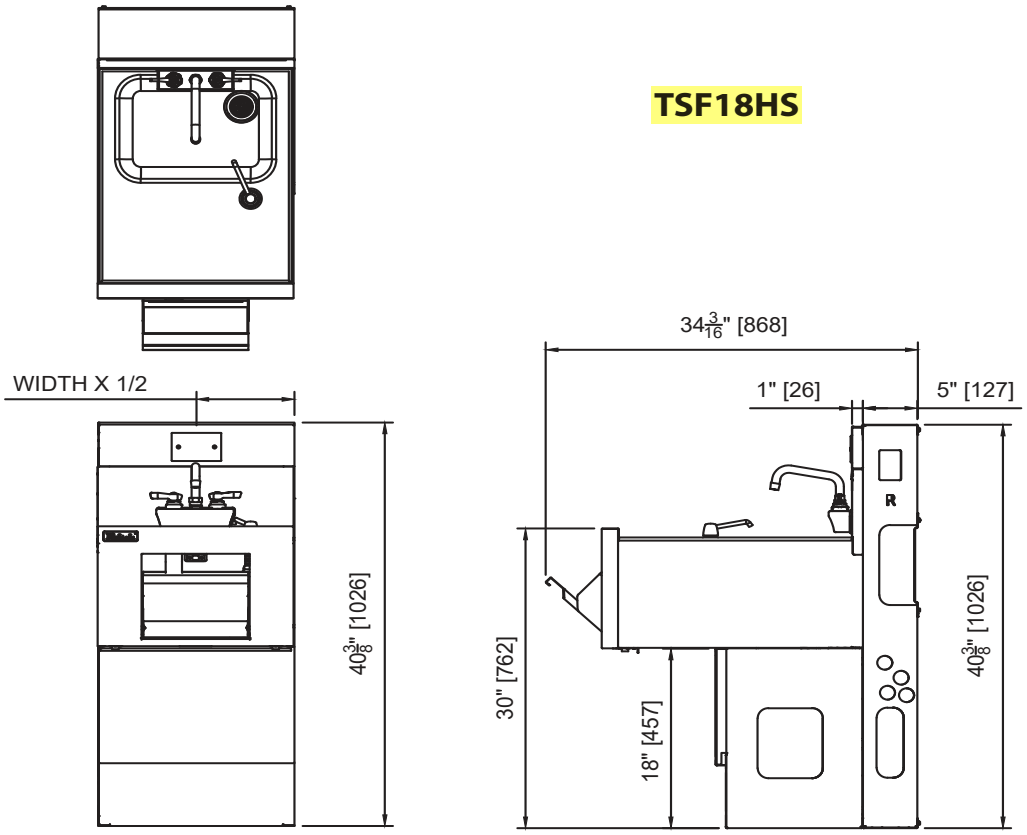
Shown with optional faucet. Must be ordered separately.

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TOP SHELF FULL DEPTH HAND SINKS

TSF SERIES 12" & 18"W x 24"D Hand Sink with Folded Paper Towel and Soap Dispensers



Shown with optional faucet. Must be ordered separately.

Form No. Z2966
Rev. 12.05.23

PERLICK CORPORATION 8300 W. Good Hope Rd., Milwaukee, WI 53223 • 800.558.5592 • perlick.com

K-59
3-1/2" GOOSENECK SPLASH MOUNT FAUCET

Conforms To NSF 61/9 Lead Free Requirements



FAUCET AERATOR CONFORM TO
ASTM.A112.18.1M • 1.0 GPM/3.8 LPM
THREAD: 55/64 - 27 FEMALE



Click This Link To View Assembly Sheet

Item #: _____ Qty #: _____
Model #: _____
Project #: _____

FEATURES:

3-1/2" swivel gooseneck spout.
4" O.C. water supply.
Quarter-turn wedge style handles.
Colored hot & cold Indexes.
1.0 GPM/3.8 LPM Aerator. 60 PSI.

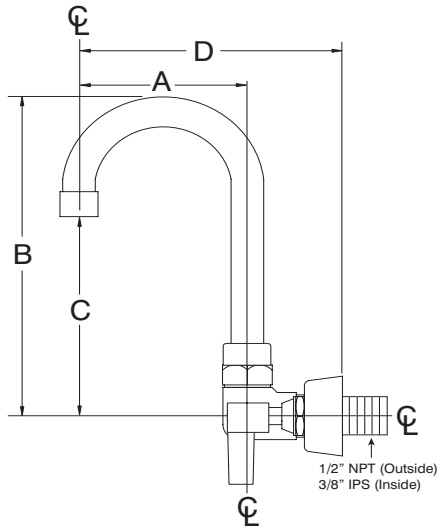
MATERIAL:

Brass chrome plated body & spout.
Chrome plated handles.



BOTTOM VIEW
1/2" NPS (OUTSIDE THREAD)
3/8" NPT(INSIDE THREAD)

DIMENSIONS and SPECIFICATIONS



A Length	B Height	C	D	On Center Dimensions
3 1/2"	8 3/8"	5 1/2"	5 3/4"	4" O.C.

Options & Accessories

Replacement Spout For K-59 Faucet
3-1/2" Gooseneck Spout Only.
K-59SP



Low Flow Aerator
.5 GPM
K-08



Faucet Repair Kit*
K-00A (Set of 2)
Includes 2 Cartridges and 2 Handles
With Red & Blue Indexes



Wrist Handles*
K-316-LU (Set of 2)
For a Complete faucet with Wrist Handles, See our **K-316** Spec Sheet.



*Can Only Be Used On Faucets Purchased After January 2016.
For Older Faucets, Consult Customer Service.

⚠ WARNING:
Faucet(s) on this page may expose you to chemicals, including lead, that are known to the State of California to cause cancer or birth defects or other reproductive harm. For more Info.,visit www.p65warnings.ca.gov.

ADVANCE TABCO SMART FABRICATION™
www.advancetabco.com

Customer Service Available To Assist You 1-800-645-3166 8:30 am - 7:00 pm E.S.T.

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Email: customer@advancetabco.com or **Fax:** 631-242-6900

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McGuire Manufacturing Co., Inc.
60 Grandview Court
Cheshire, Connecticut 06410
(203) 699-1801 Fax (203) 699-1813
customerservice@mcguiremfg.com mcguiremfg.com

PRODUCT SPECIFICATION

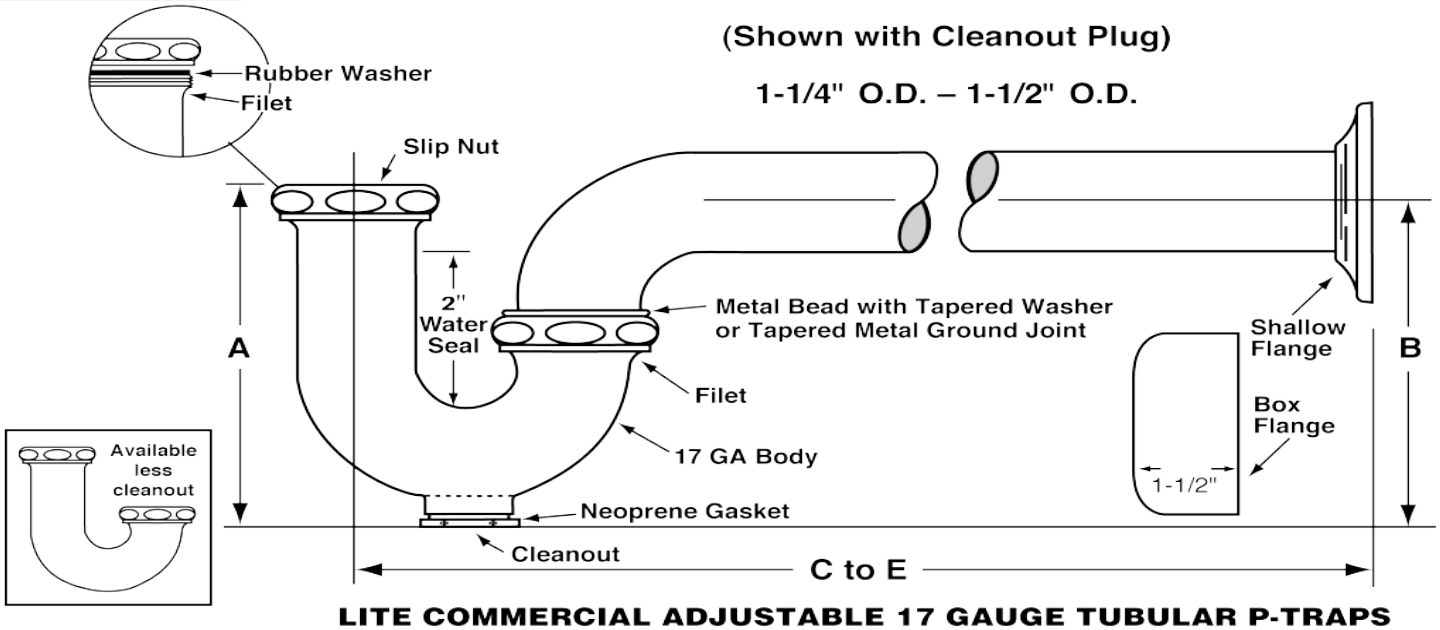
Part No.

MCT150 Series

Lite Commercial 17 GA Tubular P-Trap

Job Name:

Submittal Number:



LITE COMMERCIAL ADJUSTABLE 17 GAUGE TUBULAR P-TRAPS

Roughing Measurements

Model No.	INLET	OUTLET	A	B	C to E	Flange	Slip Nut
MCT150090B	1-1/2", 1-1/4"	1-1/2"	5-1/4"	5"	12"	Box	Brass
MCT150075ZN	1-1/2", 1-1/4"	1-1/2"	5-1/2"	5"	10-1/2"	Shallow	Zinc
MCT150075NCZN	1-1/2", 1-1/4"	1-1/2"	5"	4-3/4"	11"	Shallow	Zinc
MCT150090NCB	1-1/2", 1-1/4"	1-1/2"	5-1/4"	4-1/2"	12-1/4"	Box	Brass
MCT150090NCGJB	1-1/2", 1-1/4"	1-1/2"	5-1/4"	4-3/4"	12-1/4"	Box	Brass
MCT150090NCGJ	1-1/2", 1-1/4"	1-1/2"	5-1/4"	5"	12-1/4"	Shallow	Brass
MCT150150B	1-1/2", 1-1/4"	1-1/2"	5-1/4"	5"	18"	Box	Brass

Suffix Designations
NC = No Cleanout Plug
GJ = Ground Joint Wall Bend

AND/OR

ASME A112.18.2/CSA B125.2

Specifications:

P-Trap shall be 17 gauge seamless chrome plated tubular brass with wall bend and flange.

WARNING:
This product can expose you to chemicals including lead, which is known to the State of California to cause cancer, and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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1-1/2" FLANGED STRAINER TAILPIECES TECHNICAL SPECIFICATION

Job Name _____ Item # _____
Location _____
Engineer _____ Contractor _____
PO # _____ Tag _____
Representative _____

SPECIFICATIONS

Dearborn Brass Flanged Strainer Tailpieces are designed for use in tubular drain applications. Available in 17, 20 or Budget Gauge Brass. Options include Unfinished Brass and various tube lengths.

DESCRIPTION

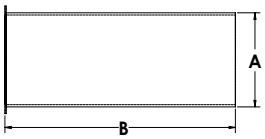
- Chrome or Unfinished Brass Finish
- Sink Strainer Tailpiece
  - (1) Flanged Strainer Tailpiece (flanged one or both ends)

APPROVALS AND LISTINGS

DIMENSIONS

[A]:	Size A	1.50"	[B]:	Length B	See Chart A.1





A.1 - LENGTHS

	Size 1-1/2" x 4"	Size 1-1/2" x 6"	Size 1-1/2" x 8"	Size 1-1/2" x 12"	Size 1-1/2" x 16"
Length C:	4"	6"	8"	12"	16"

Access BIM/Revit content through www.oatey.com

1-1/2" FLANGED STRAINER TAILPIECES TECHNICAL SPECIFICATION

PRODUCT SELECTOR

1-1/2" FLANGED STRAINER TAILPIECES

✓	Product Number	Size	Description	Carton Quantity
	799-1	1-1/2" x 4"	Flanged Strainer Tailpiece - Budget Ga.	10
	799-3	1-1/2" x 4"	Flanged Strainer Tailpiece - Budget Ga., Unfinished	10
	800-1	1-1/2" x 6"	Flanged Strainer Tailpiece - Budget Ga.	10
	801-1	1-1/2" x 8"	Flanged Strainer Tailpiece - Budget Ga.	10
	803-1	1-1/2" x 12"	Flanged Strainer Tailpiece - Budget Ga.	10
	803BD-1	1-1/2" x 12"	Double Flanged Strainer Tailpiece - Budget Ga.	10
	803ED-1	1-1/2" x 16"	Double Flanged Strainer Tailpiece - Budget Ga.	10
	800-20-1	1-1/2" x 6"	Flanged Strainer Tailpiece - 20 Ga.	10
	801-20-1	1-1/2" x 8"	Flanged Strainer Tailpiece - 20 Ga.	10
	801-20-3	1-1/2" x 8"	Flanged Strainer Tailpiece - 20 Ga., Unfinished	10
	803-20-1	1-1/2" x 12"	Flanged Strainer Tailpiece - 20 Ga.	10
	803-20-3	1-1/2" x 12"	Flanged Strainer Tailpiece - 20 Ga., Unfinished	10
	799-17-1	1-1/2" x 4"	Flanged Strainer Tailpiece -17 Ga.	10
	799-17-3	1-1/2" x 4"	Flanged Strainer Tailpiece, 17 Ga., Unfinished	10
	800-17-1	1-1/2" x 6"	Flanged Strainer Tailpiece -17 Ga.	10
	800-17-3	1-1/2" x 6"	Flanged Strainer Tailpiece -17 Ga., Unfinished	10
	801-17-1	1-1/2" x 8"	Flanged Strainer Tailpiece -17 Ga.	10
	801-17-3	1-1/2" x 8"	Flanged Strainer Tailpiece -17 Ga., Unfinished	10
	801-17-3	1-1/2" x 12"	Flanged Strainer Tailpiaece -17 Ga.	10
	803-17-3	1-1/2" x 12"	Flanged Strainer Tailpiece -17 Ga., Unfinished	10

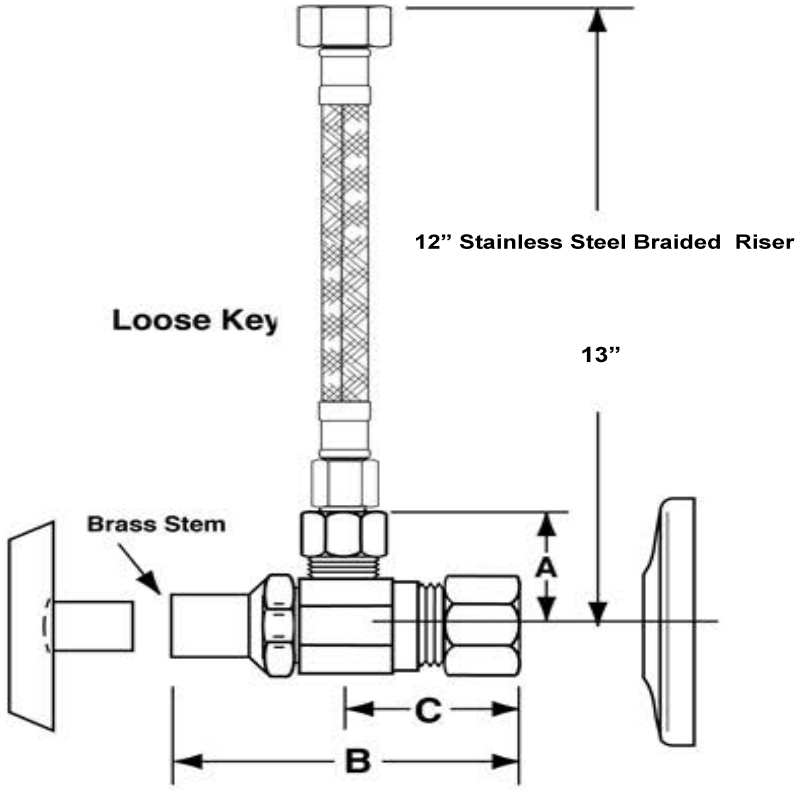
McGuire Manufacturing Co., Inc.
60 Grandview Court
Cheshire, Connecticut 06410
(203) 699-1801 Fax (203) 699-1813
customerservice@mcguiremfg.com mcguiremfg.com

PRODUCT SPECIFICATION

Part No.
LF2165CCLKSS12ECO

Compression x Compression Lavatory Supply

Job Name: **Submittal Number:**



NO.	DESCRIPTION	ROUGHING MEASUREMENTS		
		A	B	C
LF2165CCLKSS12ECO	1/2" Nominal x 3/8" O.D.	1"	2-3/8"	1"

- Rated Operating Pressure: 20-125 PSI
- Rated Operating Temperature: 40-140ºF
- Note: 180°F max. during temporary high-temperature system flush

LK designates Loose Key

* See options and accessories section for details on product variations.

NSF UPC ASME A112.18.1

Specifications:

Supply kit shall include lead free chrome plated supply brass stop valves with full turn brass stem, no plastic, 12 inch stainless steel braided risers and shallow steel flange. Inlet shall be 1/2 inch compression. Outlet shall be 3/8 inch compression. Supply kit shall be certified by recognized authority and bear manufacturer and testing mark.

WARNING:
This product can expose you to chemicals including lead, which is known to the State of California to cause cancer, and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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Model ZW3870XLT

Aqua-Gard® Thermostatic Mixing Valve

Application

Ideal for use where Lead Free* valves are required. The Zurn Wilkins Model ZW3870XLT Aqua-Gard® Thermostatic mixing valve is designed to be installed at the point of use under sinks and sensor faucets to assist in the prevention of scalding. The valves rapid response and precise temperature control meet the stringent standards of ASSE 1070 listed for fixtures, sinks, lavatories or bathtubs. The ZW3870XLT will mix hot and cold water from the distribution system to a final safer temperature outlet range of 95-115F (35-46C). The 3/8" compression fittings make this valve ideal for residential and commercial applications. With a minimum flow rating of 0.06 GPM the valve will provide proper scald protection when used in conjunction with ultra low flow faucet aerators.



XL LEAD FREE

NSF/ANSI/CAN 61-9 Q≤1

Standards Compliance

- ASSE® Listed 1070
- cUPC® Listed
- CSA® Certified B125.70
- Meets the requirements of NSF/ANSI/CAN 61-9 Q≤1*

*(0.25% MAX. WEIGHTED AVERAGE LEAD CONTENT)

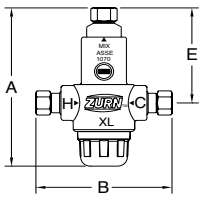
Features

Sizes:	3/8"
Chrome Plated	
Outlet Temp. Range	95-115°F(35-46°C)
Temperature Hot Supply	120-195°F max. (49-90.5°C)
Temperature Cold Supply	40-75°F(4.4-23.8°C)
Set Temperature Accuracy	+/- 3°F(1.78°C)
Max. Working Pressure (inlet)	145 psi
Temperature must be field set	
Max. Pressure Differential is 15 psi between Hot & Cold inlets	
Flow rate @ 45 psi pressure loss	3.10 gpm
Min. Flow Rate	0.06 gpm
Integral check valves and strainer screen on hot and cold supply	

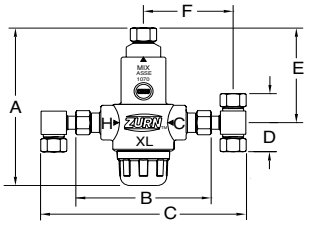
ZW3870XLT	3 PORT (1 Hot in, 1 Cold in, 1 Mixed out)
ZW3870XLT-4P	4 PORT (1 Hot in, 1 Cold in, 1 Cold out, 1 Mixed out.)

Materials

Body	Low Lead Cast Bronze ASTM B 584 w/Chrome Plating ASTM B 456 Service Condition #2
Internal brass	Low Lead Brass, ASTM B 927 UNS C27450
Piston	Polysufone
Guide Tube	Noryl GFN2
Spring	300 Series Stainless Steel
Seals	Viton
Checks	Acetal Co-Polymer



ZW3870XLT

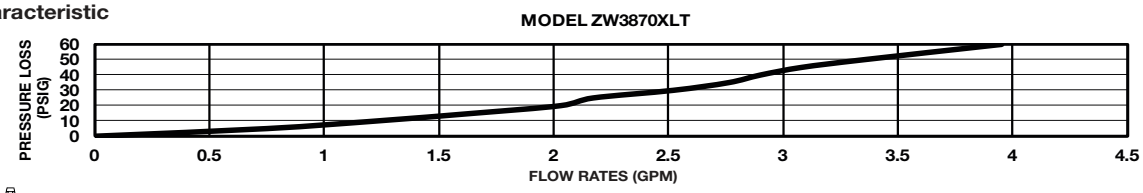


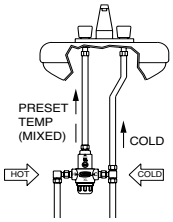
ZW3870XLT-4P

Dimensions & Weights (do not include pkg.)

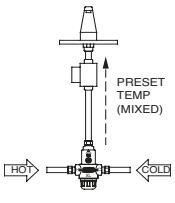
MODEL	SIZE		DIMENSIONS (approximate)												WEIGHT	
			A		B		C		D		E		F			
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kg.
ZW3870XLT	3/8	9.5	4 27/32	123	4 3/16	106.3	5 55/64	149	2 1/32	52	2 27/32	72.2	2 1/2	64	1.2	.6

Flow Characteristic





INDIVIDUAL USE ZW3870XLT-4P



SINGLE USE ZW3870XLT

Piping Instructions

The device is designed to be installed at a single outlet. It may be used to supply individual outlets when there is sufficient supply pressure. It is suggested to use ball valves on the hot and cold inlet supplies.

Zurn Industries, LLC | Wilkins
1747 Commerce Way, Paso Robles, CA U.S.A. 93446 Ph. 855-663-9876, Fax 805-238-5766
In Canada | **Zurn Industries Limited**
7900 Goreway Drive, Unit 10, Brampton, Ontario L6T 5W6, 877-892-5216
www.zurn.com

Rev. J
Date: 5/22
Document No. TMV-ZW3870XLT
Product No. Model ZW3870XLT
Patent zurn.com/patents

TRUEBRO IPS CORPORATION

LAV GUARD2 FAST FIT UNDERSINK PIPING COVERS

ADA-compliant undersink protection

Submittal Sheet

General Description:

LAV GUARD® 2E-Z Series waste and supply piping covers satisfy ADA compliance requirements. Built-in E-Z Grip internal fasteners and internal, E-Z Tear-To-Fit trimming feature allow for fast installation without tools. Series #100 E-Z kits are designed to fit on all tubular and cast brass P-trap assemblies. Series #400 kits are the "original" LAV GUARD design and fit schedule 40 ABS and PVC P-trap assemblies — regardless of their geometry or rotational offset.Valve cover completely encloses angle valve and supply tube for both handled and keyed type water stops.

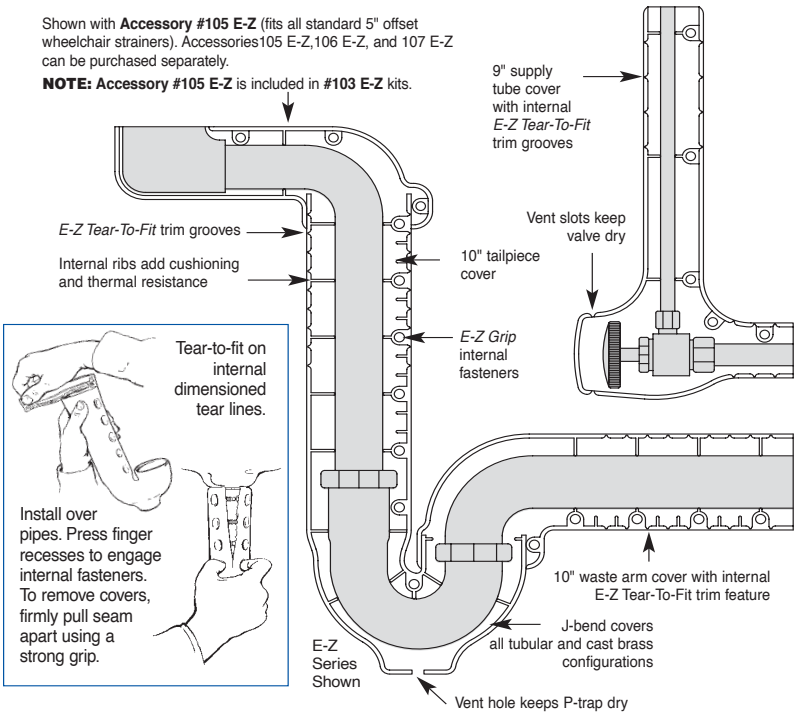
Material	Molded vinyl
Nominal Wall	1/8" constant
Durometer	70 - 80 - Shore A
UV Protection	Will not fade or discolor
Durability	Virtually indestructible
Trimming (E-Z Series)	Internal, *E-Z Tear-To-Fit* trim feature
Fasteners (E-Z Series)	Internal *E-Z Grip* fasteners (reusable)
Color	China white
Paintability	Apply Latex paint
Burning Characteristics ASTM D-635	Self extinguished 0 sec (ATB) 0 mm (AEB)
Bacteria/Fungus Resistance	ASTM G21 and G22/ Result: 0 growth
Maintenance	Use common detergents

Antimicrobial Vinyl Minimizes Maintainance

Lav Guard 2 is molded from impact-resistant, stain-resistant, antimicrobial vinyl. Its smooth surface makes it exceptionally easy to clean and maintain.

Manufactured under one or more of the following U.S. or Canadian patents. Other patents pending.

5,303,730 5,360,031 5,524,669 5,564,463 5,678,598 5,699,828 5,915,412 5,915,413 5,901,739 5,960,820 2,075,324 2,119,427 2,136,027 2,158,083



#100 E-Z Series *(shown above right) for tubular and cast brass P-trap assemblies.*
#400W* Series *(original design) for schedule 40 P-trap assemblies.*

☐ **Model #99 E-Z**
One angle valve and supply cover

☐ **Model #100 E-Z**
One P-trap cover

☐ **Model #400W***
One P-trap cover

☐ **Model #101 E-Z**
One P-trap cover, one angle valve cover

☐ **Model #401W***
One P-trap cover, one angle valve cover

☐ **Model #102 E-Z**
One P-trap cover, two angle valves and covers

☐ **Model #402W***
One P-trap cover, two angle valves and covers

☐ **Model #103 E-Z**
One P-trap cover, two angle valves and supply covers, one 5" offset tailpiece wheelchair strainer cover

☐ **Accessory #105 E-Z**
One 5" offset tailpiece wheelchair strainer assembly

*All #400W series items are the "original" LAV GUARD® design and construction. Specifications may change without notice.

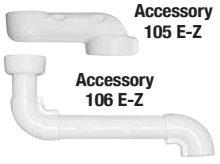
☐ **Accessory #105-K**
Kohler 6" offset

☐ **Accessory #106 E-Z**
One basket strainer cover and offset waste cover (adjustable to 18")

☐ **Accessory #107 E-Z**
Two basket strainer covers and center or end outlet waste cover (adjustable)

☐ **Accessory #Ex99 E-Z**
One 14" extension for water supply

☐ **Accessory #Ex100 E-Z**
One 14" extension for drain waste arm or tailpiece



Accessory 107 E-Z
(Configuration Options Shown)



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2.16 HIGHLANDS BUILDING ROGERS

Datasheets

KE-02

UNDERBAR COCKTAIL STATION

Perlick Pre-configured Cocktail Station

MODEL NUMBERS - UCS48A-LF, UCS48B-LF, UCS60A-LF, UCS60B-LF

JOB	
AREA	
ITEM NO.	
MODEL NO.	

MODELS
UCS48A-LF
UCS48B-LF
UCS60A-LF
UCS60B-LF



UCS60A



UCS48A

KEY PRODUCT FEATURES AND BENEFITS

- All stainless construction
- Many different underbar units are combined into one preassembled units
- 10 circuit cold plates are standard on all preconfigured stations
- Soda chases are standard on all stations to run soda lines up from the cold plate

Quick Features:

- UCS stations provide the convenience of a single model number to specify a curated line up of equipment
- Units are set up for maximum efficiency
- Ergonomics are at the center of our design and layout

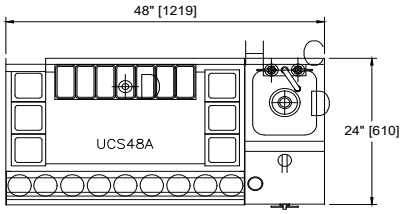
Form No. Z2818
Rev 04.11.22

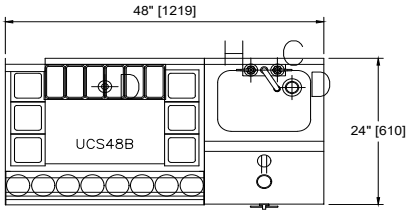
PERLICK CORPORATION 8300 W. Good Hope Rd., Milwaukee, WI 53223 • (800) 558-5592 • perlick.com

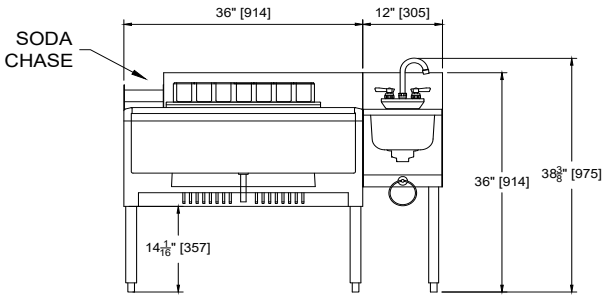
UNDERBAR COCKTAIL STATION

Perlick Pre-configured Cocktail Station

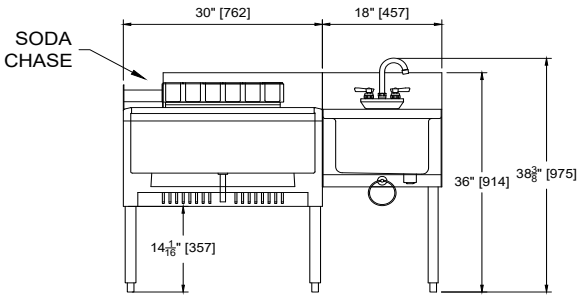
MODEL NOS.		UCS48A-LF	UCS48B-LF	UCS60A-LF	UCS60B-LF
DIMENSIONS: EXTERIOR (mm)	Width	24"(610)	24"(610)	24"(610)	24"(610)
	Length	48"(1219)	48"(1219)	60"(1524)	60"(1524)
	Shipping Weight (lbs)	250 lbs. (113.4 kg)	250 lbs. (113.4 kg)	270 lbs. (122.4 kg)	280 lbs. (127 kg)
PERLICK BAR EQUIPMENT	Left to Right	36" Ice Chest, 12" Blender Sink	30" Ice Chest, 18" Blender Sink	42" Ice Chest, 18" Blender Sink	36" Ice Chest, 12" Blender Sink, 12" Liquor Display
	Accessories Included	6 bottle well cover, condiment bin, faucet, 36" single speed rail, towel ring, backsplash cut out for soda lines	6 bottle well cover, condiment bin, faucet, 30" single speed rail, towel ring, backsplash cut out for soda lines	9 bottle well cover, condiment bin, faucet, 42" single speed rail, towel ring, backsplash cut out for soda lines	6 bottle well cover, condiment bin, faucet, 36" single speed rail, towel ring, backsplash cut out for soda lines
MATERIAL	Ice Chest	Stainless steel, ABS top rim, galvanized back and bottom			
	Blender Sink	Stainless steel, shelf includes access hole for plug in cord			
	Liquor Steps	Stainless steel			
	Speed Rails	Stainless steel			
	Legs	1 5/8" tubular stainless steel with 1" adjustable rust free thermoplastic feet			
PLUMBING	Ice Chest	Drain Connection - 1/2"" NPS Male Cold plate connections - 5/16"" OD stainless steel tubing with swaged end to accept standard 1/4"" ID beverage tubing			
	Blender Sink	1-1/2" NPS Male. Hot and cold water connection: **TS Series:** 3/8" O.D. copper supply tubes. **TSD Series:** 1/2" IPS shanks and nuts.			







UCS48A



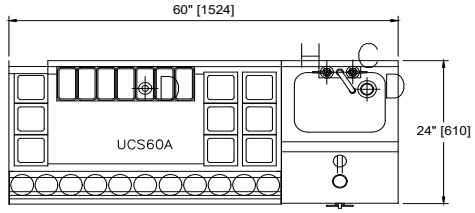
UCS48B

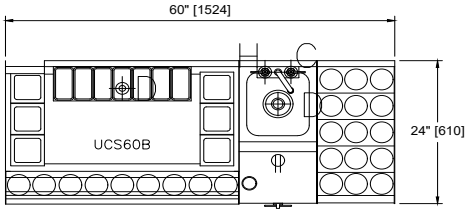
Form No. Z2818
Rev 04.11.22

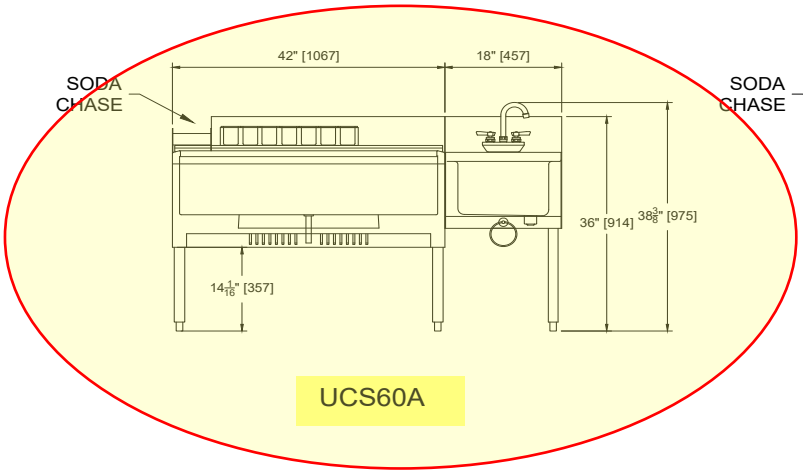
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UNDERBAR COCKTAIL STATION

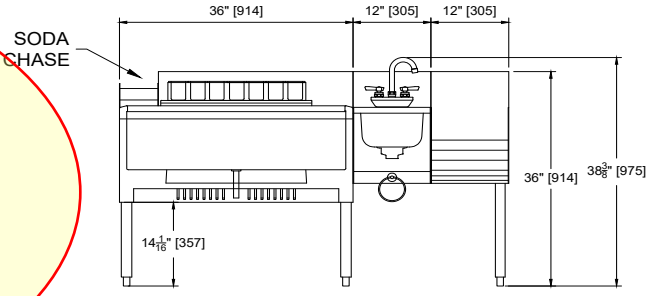
Perlick Pre-configured Cocktail Station







UCS60A



UCS60B

Form No. Z2818
Rev 04.11.22

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60 Grandview Court
Cheshire, Connecticut 06410
(203) 699-1801 Fax (203) 699-1813
customerservice@mcguiremfg.com mcguiremfg.com

PRODUCT SPECIFICATION

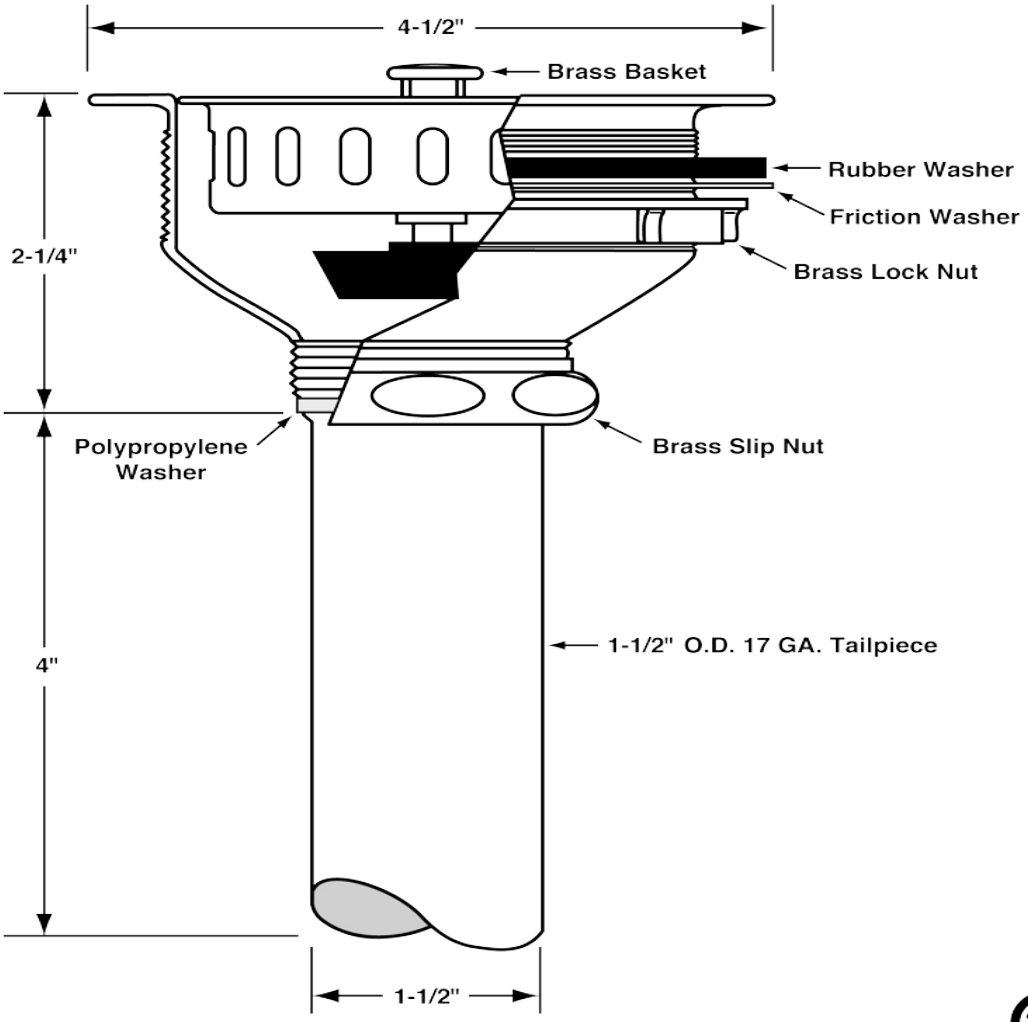
Part No.

151M

Brass Basket Strainer

Job Name:

Submittal Number:



ASME A112.18.2/CSA B125.2

See options and accessories section for details on product variations.

Specifications:

Heavy duty forged brass basket strainer with a polished and chrome plated brass strainer body, 1-1/2" x 4" seamless brass 17GA tailpiece, cast brass lock and coupling nuts. Fits sink thickness up to 5/8". Basket strainer in compliance with CSA or other recognized test authority and bear both manufacturer and testing mark.

WARNING:

This product can expose you to chemicals including lead, which is known to the State of California to cause cancer, and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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McGuire Manufacturing Co., Inc.
60 Grandview Court
Cheshire, Connecticut 06410
(203) 699-1801 Fax (203) 699-1813
customerservice@mcguiremfg.com mcguiremfg.com

PRODUCT SPECIFICATION

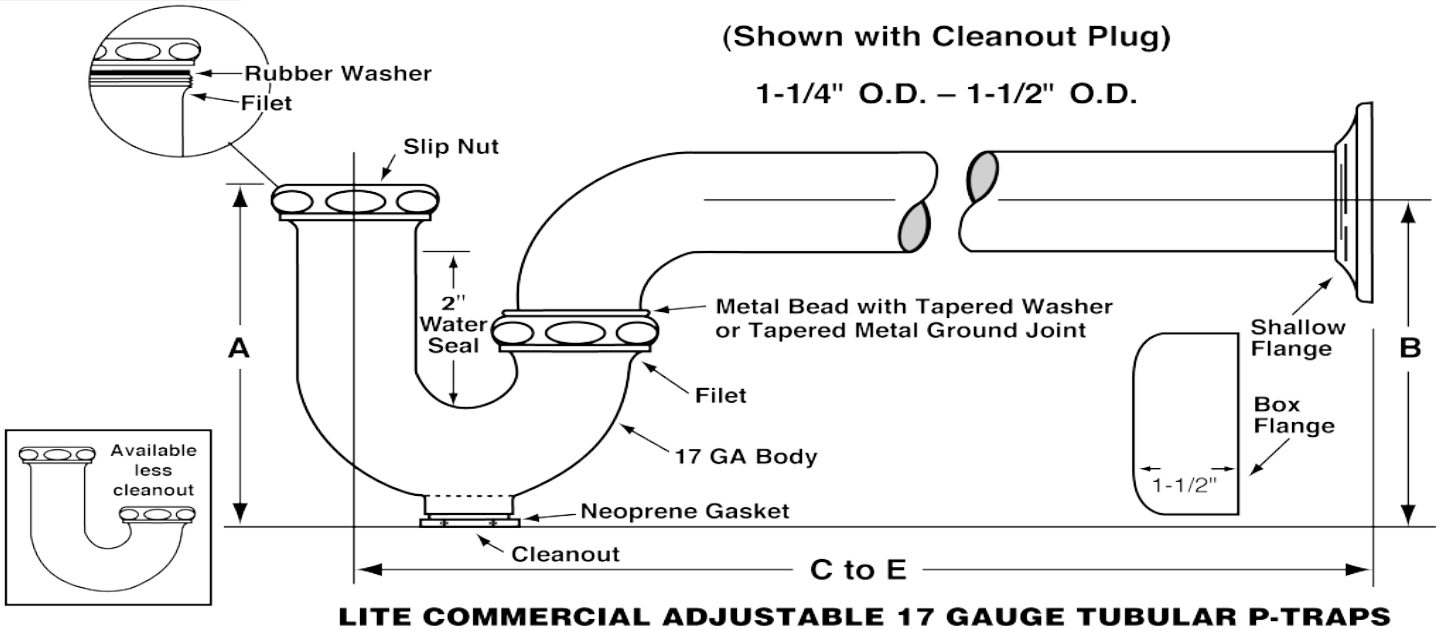
Part No.

MCT150 Series

Lite Commercial 17 GA Tubular P-Trap

Job Name:

Submittal Number:



LITE COMMERCIAL ADJUSTABLE 17 GAUGE TUBULAR P-TRAPS

Roughing Measurements

Model No.	INLET	OUTLET	A	B	C to E	Flange	Slip Nut
MCT150090B	1-1/2", 1-1/4"	1-1/2"	5-1/4"	5"	12"	Box	Brass
MCT150075ZN	1-1/2", 1-1/4"	1-1/2"	5-1/2"	5"	10-1/2"	Shallow	Zinc
MCT150075NCZN	1-1/2", 1-1/4"	1-1/2"	5"	4-3/4"	11"	Shallow	Zinc
MCT150090NCB	1-1/2", 1-1/4"	1-1/2"	5-1/4"	4-1/2"	12-1/4"	Box	Brass
MCT150090NCGJB	1-1/2", 1-1/4"	1-1/2"	5-1/4"	4-3/4"	12-1/4"	Box	Brass
MCT150090NCGJ	1-1/2", 1-1/4"	1-1/2"	5-1/4"	5"	12-1/4"	Shallow	Brass
MCT150150B	1-1/2", 1-1/4"	1-1/2"	5-1/4"	5"	18"	Box	Brass

Suffix Designations
NC = No Cleanout Plug
GJ = Ground Joint Wall Bend

AND/OR

ASME A112.18.2/CSA B125.2

Specifications:

P-Trap shall be 17 gauge seamless chrome plated tubular brass with wall bend and flange.

WARNING:
This product can expose you to chemicals including lead, which is known to the State of California to cause cancer, and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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60 Grandview Court
Cheshire, Connecticut 06410
(203) 699-1801 Fax (203) 699-1813
customerservice@mcguiremfg.com mcguiremfg.com

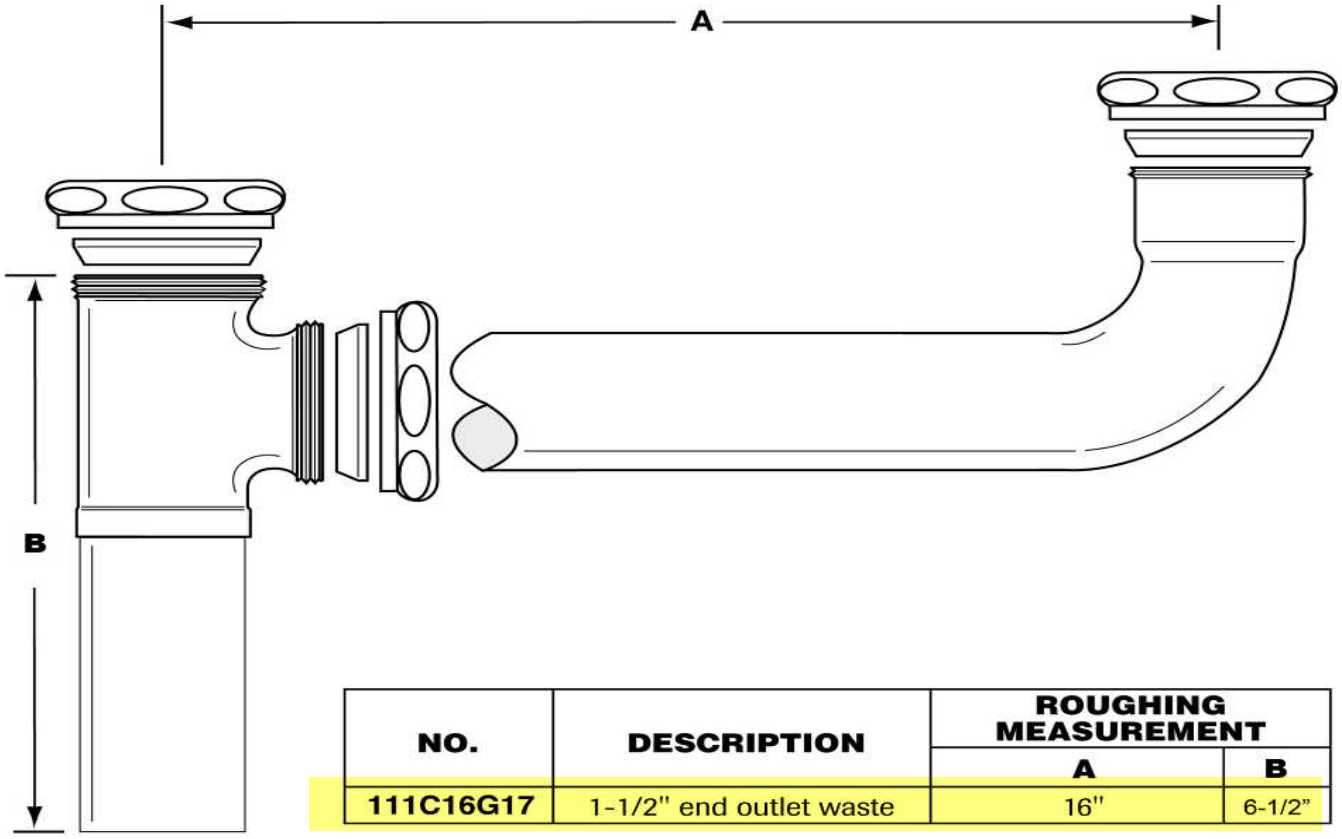
PRODUCT SPECIFICATION

Part No.
111C16G17

End Outlet Continuous Waste

Job Name:

Submittal Number:



NO.	DESCRIPTION	ROUGHING MEASUREMENT	
		A	B
111C16G17	1-1/2" end outlet waste	16"	6-1/2"

ASME A112.18.2/CSA B125.2

Specifications:

End outlet continuous waste with chrome plated satin cast brass tee, chrome plated 17 or 20 gauge seamless brass waste arm, waste tailpiece and cast brass nuts.

WARNING:
This product can expose you to chemicals including lead, which is known to the State of California to cause cancer, and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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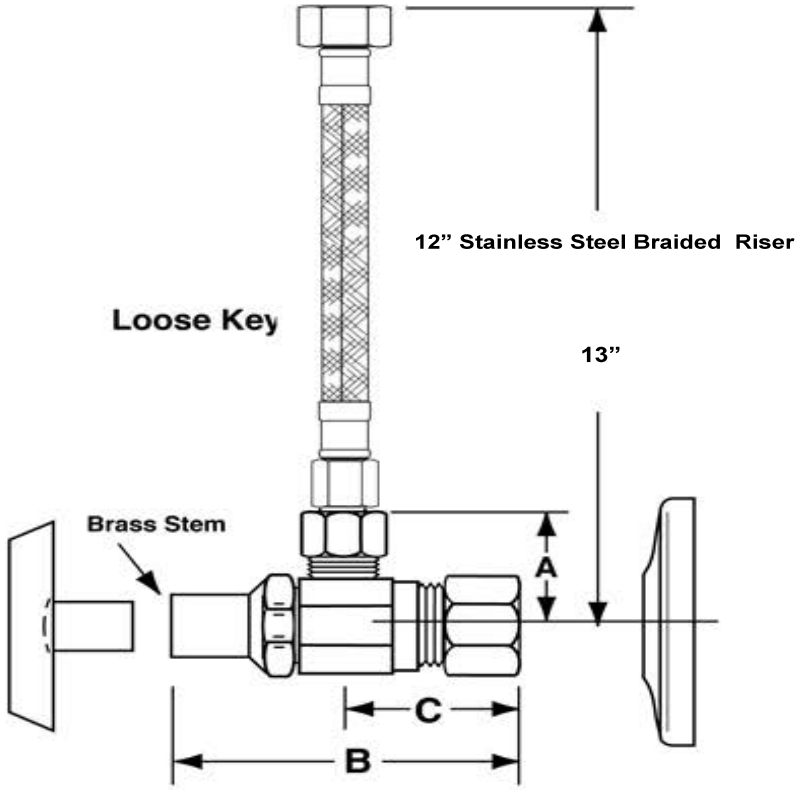
McGuire Manufacturing Co., Inc.
60 Grandview Court
Cheshire, Connecticut 06410
(203) 699-1801 Fax (203) 699-1813
customerservice@mcguiremfg.com mcguiremfg.com

PRODUCT SPECIFICATION

Part No.
LF2165CCLKSS12ECO

Compression x Compression Lavatory Supply

Job Name: **Submittal Number:**



NO.	DESCRIPTION	ROUGHING MEASUREMENTS		
		A	B	C
LF2165CCLKSS12ECO	1/2" Nominal x 3/8" O.D.	1"	2-3/8"	1"

- Rated Operating Pressure: 20-125 PSI
- Rated Operating Temperature: 40-140ºF
- Note: 180°F max. during temporary high-temperature system flush

LK designates Loose Key

* See options and accessories section for details on product variations.

NSF UPC ASME A112.18.1

Specifications:

Supply kit shall include lead free chrome plated supply brass stop valves with full turn brass stem, no plastic, 12 inch stainless steel braided risers and shallow steel flange. Inlet shall be 1/2 inch compression. Outlet shall be 3/8 inch compression. Supply kit shall be certified by recognized authority and bear manufacturer and testing mark.

WARNING:
This product can expose you to chemicals including lead, which is known to the State of California to cause cancer, and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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Model ZW3870XLT

Aqua-Gard® Thermostatic Mixing Valve

Application

Ideal for use where Lead Free* valves are required. The Zurn Wilkins Model ZW3870XLT Aqua-Gard® Thermostatic mixing valve is designed to be installed at the point of use under sinks and sensor faucets to assist in the prevention of scalding. The valves rapid response and precise temperature control meet the stringent standards of ASSE 1070 listed for fixtures, sinks, lavatories or bathtubs. The ZW3870XLT will mix hot and cold water from the distribution system to a final safer temperature outlet range of 95-115F (35-46C). The 3/8" compression fittings make this valve ideal for residential and commercial applications. With a minimum flow rating of 0.06 GPM the valve will provide proper scald protection when used in conjunction with ultra low flow faucet aerators.



XL LEAD FREE

NSF/ANSI/CAN 61-9 Q≤1

Standards Compliance

- ASSE® Listed 1070
- cUPC® Listed
- CSA® Certified B125.70
- Meets the requirements of NSF/ANSI/CAN 61-9 Q≤1*

*(0.25% MAX. WEIGHTED AVERAGE LEAD CONTENT)

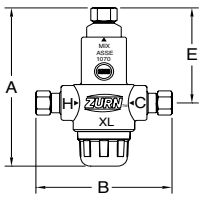
Features

Sizes:	3/8"
Chrome Plated	
Outlet Temp. Range	95-115°F(35-46°C)
Temperature Hot Supply	120-195°F max. (49-90.5°C)
Temperature Cold Supply	40-75°F(4.4-23.8°C)
Set Temperature Accuracy	+/- 3°F(1.78°C)
Max. Working Pressure (inlet)	145 psi
Temperature must be field set	
Max. Pressure Differential is 15 psi between Hot & Cold inlets	
Flow rate @ 45 psi pressure loss	3.10 gpm
Min. Flow Rate	0.06 gpm
Integral check valves and strainer screen on hot and cold supply	

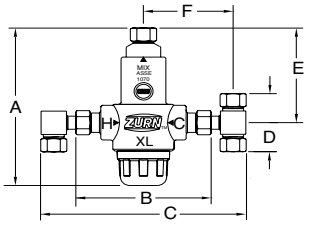
ZW3870XLT	3 PORT (1 Hot in, 1 Cold in, 1 Mixed out)
ZW3870XLT-4P	4 PORT (1 Hot in, 1 Cold in, 1 Cold out, 1 Mixed out.)

Materials

Body	Low Lead Cast Bronze ASTM B 584 w/Chrome Plating ASTM B 456 Service Condition #2
Internal brass	Low Lead Brass, ASTM B 927 UNS C27450
Piston	Polysufone
Guide Tube	Noryl GFN2
Spring	300 Series Stainless Steel
Seals	Viton
Checks	Acetal Co-Polymer



ZW3870XLT

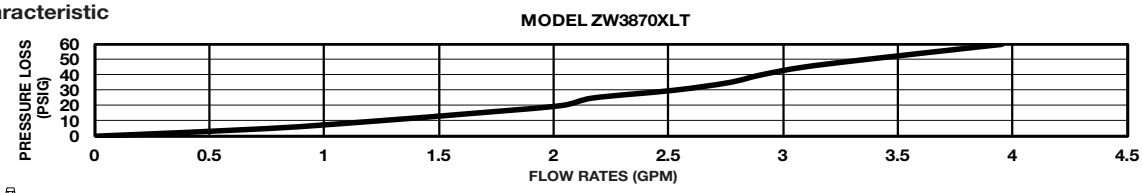


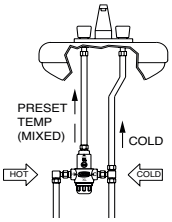
ZW3870XLT-4P

Dimensions & Weights (do not include pkg.)

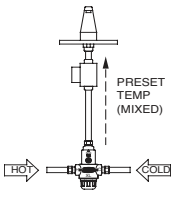
MODEL	SIZE		DIMENSIONS (approximate)												WEIGHT	
			A		B		C		D		E		F			
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kg.
ZW3870XLT	3/8	9.5	4 27/32	123	4 3/16	106.3	5 55/64	149	2 1/32	52	2 27/32	72.2	2 1/2	64	1.2	.6

Flow Characteristic





INDIVIDUAL USE ZW3870XLT-4P



SINGLE USE ZW3870XLT

Piping Instructions

The device is designed to be installed at a single outlet. It may be used to supply individual outlets when there is sufficient supply pressure. It is suggested to use ball valves on the hot and cold inlet supplies.

Zurn Industries, LLC | Wilkins
1747 Commerce Way, Paso Robles, CA U.S.A. 93446 Ph. 855-663-9876, Fax 805-238-5766
In Canada | **Zurn Industries Limited**
7900 Goreway Drive, Unit 10, Brampton, Ontario L6T 5W6, 877-892-5216
www.zurn.com

Rev. J
Date: 5/22
Document No. TMV-ZW3870XLT
Product No. Model ZW3870XLT
Patent zurn.com/patents

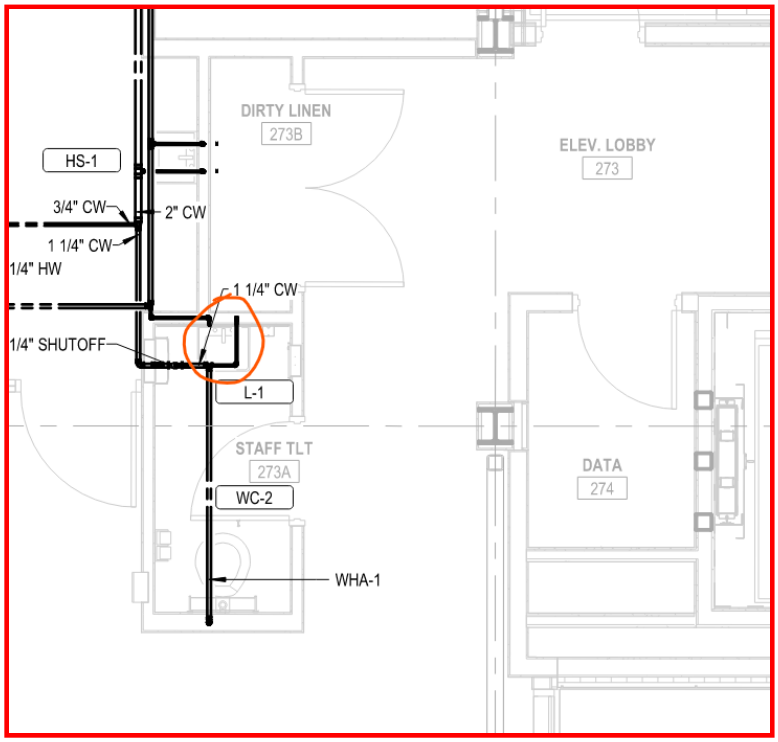
L-1 IS A WALL HUNG LAV WITH FAUCET IT DOES NOT HAVE A COUNTER AND ONLY SHOWS UP IN ONE PLACE ON THE PLAN

STAR MECHANICAL SUPPLY
WHOLESALE SUPPLY

2.16 HIGHLANDS BUILDING ROGERS

Datasheets

L-1



American Standard

BARRIER FREE

MURRO™ UNIVERSAL DESIGN WALL-HUNG LAVATORY WITH EVERCLEAN®

VITREOUS CHINA/ACRYLIC

MURRO™ UNIVERSAL DESIGN WALL-HUNG LAVATORY WITH EVERCLEAN®

- Vitreous china with EverClean
- Available with rear overflow or less overflow
- Recessed self-draining deck
- For concealed arm or wall support
- Optional vitreous china shroud/knee contact guard 0059.020EC available
- Optional acrylic shroud for American Standard Selectronic Faucet 0062.000EC
- ADA and TAS compliant

❑ **0954.004EC** Faucet holes on 102mm (4") Ctrs with overflow (Illustrated)
❑ **0954.123EC** Faucet holes on 102mm (4") Ctrs with overflow
- Extra right-hand hole

❑ **0954.121EC** Faucet holes on 102mm (4") Ctrs with overflow
- Extra left-hand hole

❑ **0954.904EC** Faucet holes on 102mm (4") Ctrs less overflow
❑ **0958.008EC** Faucet holes on 203mm (8") Ctrs with overflow
❑ **0958.908EC** Faucet holes on 203mm (8") Ctrs less overflow
❑ **0955.001EC** Center hole only with overflow
❑ **0955.123EC** Center hole only with overflow
- Extra right-hand hole

❑ **0955.121EC** Center hole only with overflow
- Extra left-hand hole

❑ **0955.901EC** Center hole only less overflow

Nominal Dimensions:
520mm (20.5") deep, 540mm (21-1/4") wide

Bowl sizes:
394mm (15-1/2") wide, 343mm (13-1/2") front to back, 127mm (5") deep

❑ **0062.000EC Acrylic Shroud**
❑ **0059.020EC Shroud/Knee Contact Guard** (Vitreous China with EverClean) (Must be specified separately)



Shown with 0062.000EC shroud



Shown with 0059.020EC shroud

SEE REVERSE FOR ROUGHING-IN DIMENSIONS

To Be Specified:
❑ Color: ❑ White
❑ Optional Acrylic Shroud: 0062.000EC
❑ Optional Vitreous China Shroud/Knee Contact guard: 0059.020
❑ Faucet*:
❑ Faucet Finish:
❑ Supplies:
❑ 1-1/4" Trap:
❑ Nipple:

* See faucet section for additional models available

Compliance Certifications - Meets or Exceeds the Following Specifications:
- ASME A112.19.2 for Vitreous China Fixtures

MEETS THE AMERICANS WITH DISABILITIES ACT GUIDELINES AND ANSI A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES - CHECK LOCAL CODES.
Top of front rim mounted 864mm (34") from finished floor.

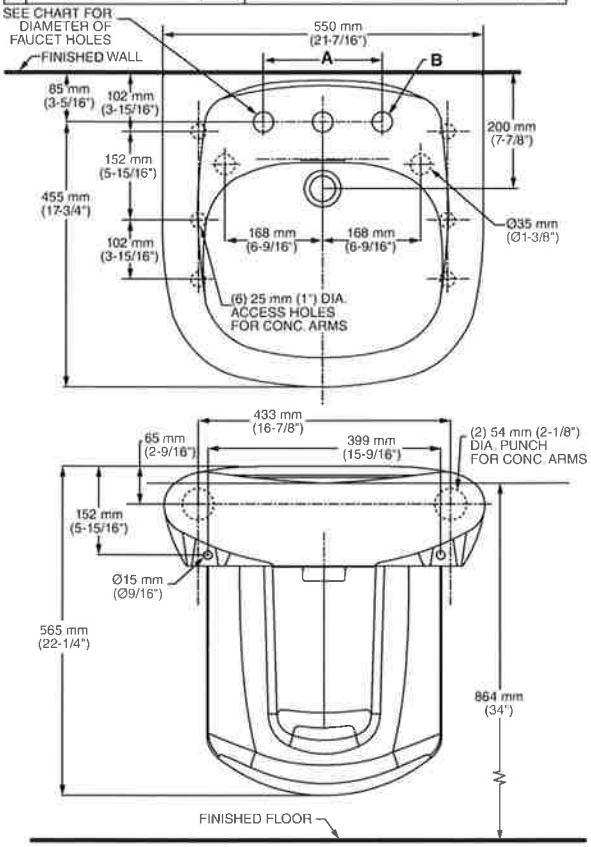
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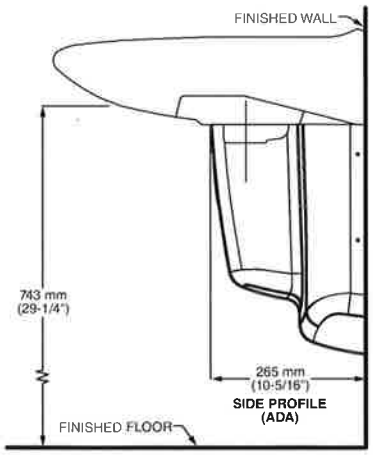
MURRO™ UNIVERSAL DESIGN WALL-HUNG LAVATORY WITH EVERCLEAN®

VITREOUS CHINA/ACRYLIC

MURRO WITH ACRYLIC SHROUD

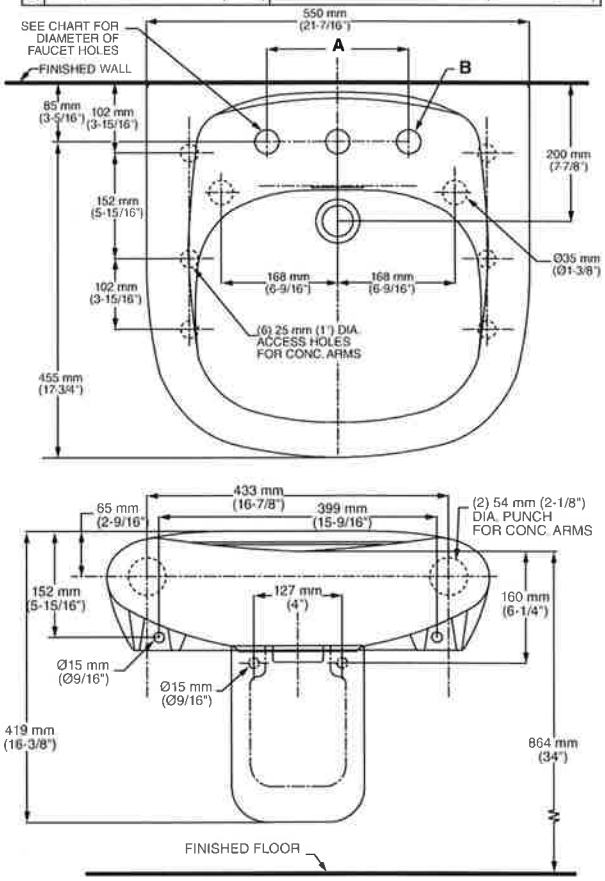
FAUCET HOLE SPREAD AND DIAMETER		
A	4" (102mm)	8" (203mm)
B	Ø 31,8mm, 1-1/4" ± 1/8" (3mm)	Ø 35mm, 1-3/8" + 1/8" - 1/16" (+3mm/-1,5mm)

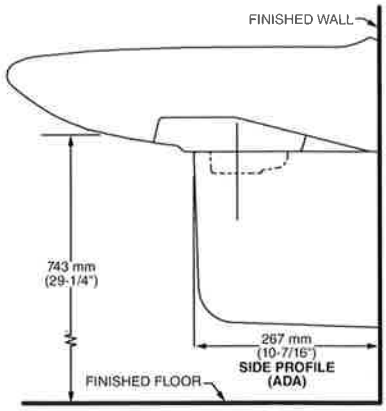




MURRO WITH VITREOUS CHINA SHROUD

FAUCET HOLE SPREAD AND DIAMETER		
A	4" (102mm)	8" (203mm)
B	Ø 31,8mm, 1-1/4" ± 1/8" (3mm)	Ø 35mm, 1-3/8" + 1/8" - 1/16" (+3mm/-1,5mm)





NOTES:

● LOOSE KEY ANGLE STOPS, LESS WALL ESCUTCHEONS. SUPPLIES REQUIRED.
* DIMENSIONS SHOWN FOR LOCATION OF SUPPLIES AND "P" TRAP ARE SUGGESTED.
SHROUD/KNEE CONTACT GUARD 0059.020 NOT INCLUDED AND MUST BE ORDERED SEPARATELY.
■ SUITABLE FOR REINFORCEMENT ONLY, ACTUAL DIMENSIONS MUST BE TAKEN FROM FIXTURE.
FITTINGS NOT INCLUDED AND MUST BE ORDERED SEPARATELY.
PROVIDE SUITABLE REINFORCEMENT FOR ALL WALL SUPPORTS.
INSTALLATION INSTRUCTIONS SUPPLIED WITH LAVATORY.
IMPORTANT: Dimensions of fixtures are nominal and may vary within the range of tolerances established by ANSI Standard A112.19.2.
These measurements are subject to change or cancellation. No responsibility is assumed for use of superseded or voided pages.

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Job Name : 2.16 HIGHLANDS BUILDING ROGERS
Manufacturer : ZURN
Model Number : Z5220

Type :

L-1 IS A WALL HUNG LAV WITH FAUCET IT DOES NOT HAVE A COUNTER AND ONLY SHOWS UP IN ONE PLACE ON THE PLAN

Model(s) Z5220

19"x16" Oval Undermount Lavatory

TAG_____

Architectural/Engineering Specification:

19" x 16" vitreous China undermount lavatory.

PRODUCT FEATURES:

- 19" [483 mm] x 16" [4 mm]
- Vitreous china
- Rimless oval design for un ount installation
- Front overflow
- Waste: 1-1/4" O.D.
- Depth: 5"
- Shipping Weight: 22 lbs.



RECOMMENDED TRIM:

☐	Z8743-PC	Grid Strainer
☐	Z8700 Series	P-Trap
☐	Z8800 Series	Top with Flexible Supplies
☐	Z8946-1-NT	ADA Trap, Stop, and Supply Protectors

OPTIONAL TRIM:

☐	Z8746-PC	ADA Grid Strainer
☐	Z8946-3-NT	ADA Trap, Stop, and Supply Protectors f Offset Grid Strainer

Product Compliance:

SME A112.19.2/CSA B45.1
CSA B45.1
IPC

*Complies wit A & ICC A117.1 accessibility requirements when installed ac ing to the requirements outlined in these standards.

**Altho products with certain combinations of options and features wil t or comply with these standards and/or certifications, not combination of options and features will result in such liance. If you have any questions about your particular product, ple contact our Customer Care Dept. at 1-855-ONE-ZURN (United State 1-877-892-5216 (Canada) for confirmation.*

Architectural/Engineering Approval

Design and dimensional data (inches and [mm]) are subject to manufacturing tolerances and change without notice.

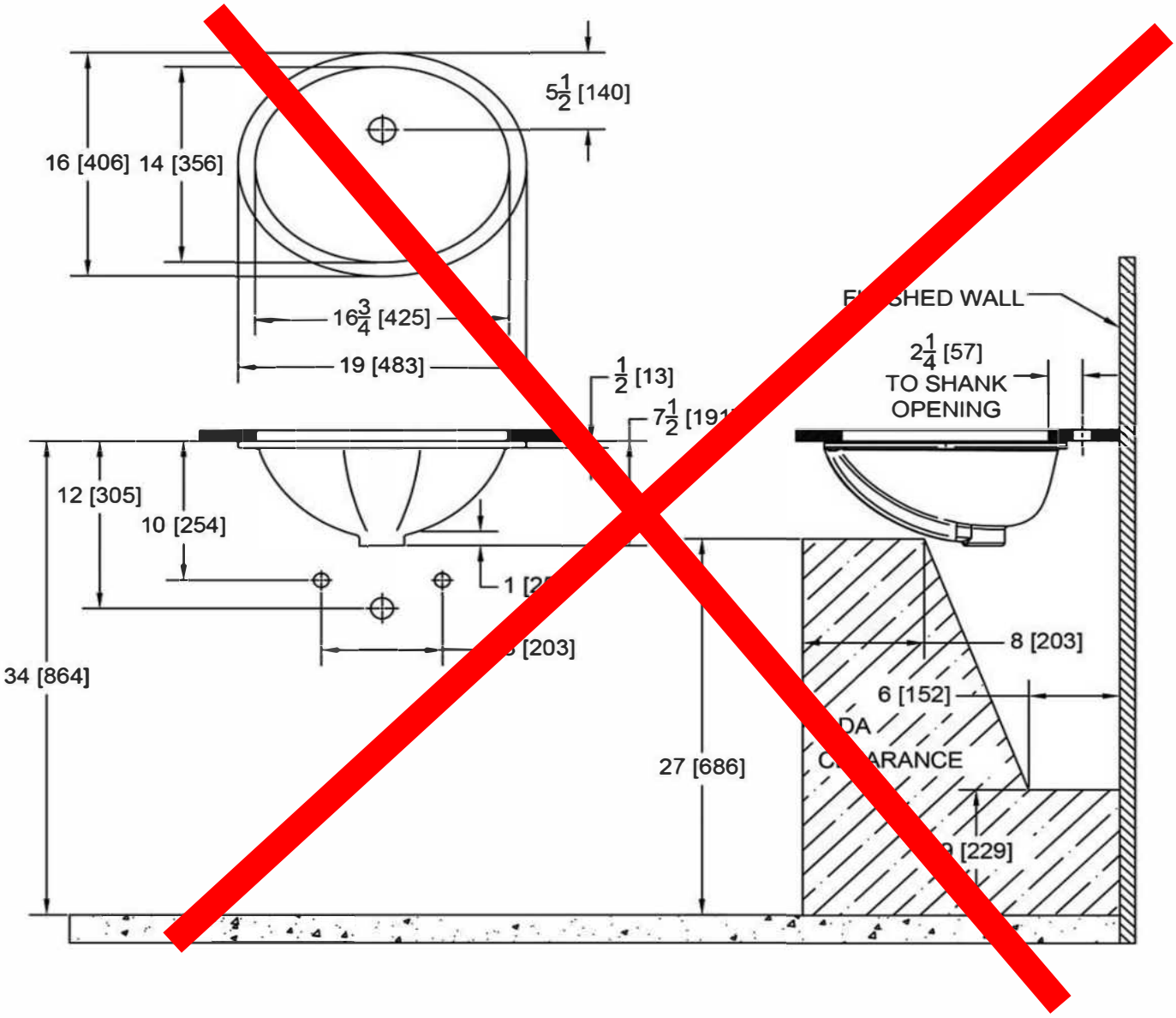
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⚠ADVERTENCIA: *Cáncer y daño reproductivo – www.P65warnings.ca.gov*
⚠AVERTISSEMENT: Cancer *et effets néfastes sur la reproduction – www.P65warnings.ca.gov*

L-1 IS A WALL HUNG LAV WITH FAUCET IT DOES NOT HAVE A COUNTER AND ONLY SHOWS UP IN ONE PLACE ON THE PLAN

Model(s) Z5220

19"x16" Oval Undermount Lavatory

TAG_____



NOTE: All dimensions are for reference only. Do not use for pre-plumbing.

Design and dimensional data (inches and [mm]) are subject to manufacturing tolerances and change without notice.

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Job Name : 2.16 HIGHLANDS BUILDING ROGERS
Manufacturer : ZURN
Model Number : ZG6950-TMV-1

Type :

Model(s) ZG6950

Serio Series® Sensor Faucet With Gear-driven Ceramic Cartridge

TAG_____

Architectural/Engineering Specification:
Zurn Serio® Sensor Faucets create a more hygienic, sustainable, and reliable restroom experience by utilizing gear-driven ceramic cartridge operation with no solenoids to replace and renewable hydropower. The standard highefficiency, 0.5 gpm low-flow rate and adjustable timeout feature help save water to meet sustainability goals. Customize usage settings wirelessly by using Zurn Elkay's Bluetooth app, PlumbPro. Upgrade to the smart device version for fleet management, including real-time data. Zurn Lead Free products are durable, high quality brass faucets and fixtures that are designed and manufactured to comply with Section 1417 of the Safe Drinking Water Act (SDWA) which mandates the weighted average lead content of no more than 0.25% of the wetted surface.

PRODUCT FEATURES:

- Uses EZ Gear technology, a motor gear-driven ceramic cartridge that is less susceptible to debris and buildup for easy maintenance; outlasts and outperforms solenoids
- Hydro X Power ® technology delivers sustainable performance by providing renewable, uninterrupted hydropower designed to last the life of a commercial restroom.
- Intuitive and effortless, no-delay touchless sensor water activation
- Bluetooth-enabled for point-of-use wireless adjustability: Adjustable Time Out Feature (30-second default time out), Hygienic Line Flushing (on-demand or programmed), Sensing modes (on-demand or metering), Sensor Range Adjustment and Battery Status
- plumbSMART connected option available with suffix -W2 for remote monitoring and real-time usage insights to your connected plumbing ecosystem
- Shipped standard with high-efficiency water flow rates of 0.5 GPM; other flow rates available
- Quiet water flow and soft-close technology that eliminates water hammer
- Polished chrome standard finish, brushed nickel and matte black available

SUFFIX OPTIONS:

☐	-ADM	Above-Deck Mixer
☐	-CP4	Cover Plate 4" [102mm] Centers
☐	-CP8	Cover Plate 8" [203mm] Centers
☐	-MV	Temperature Mixing Valve
☐	-SH	Three Supply Hoses for Mixing Valve
☐	-SSH	Single Supply Hose
☐	-TMV-1	Thermostatic Mixing Valve for Single Faucets (ASSE Listed 1070)

POWER OPTIONS:

Power Supply Option		
☐	-ACA	6-VDC plug-in power converter
☐	-CWB	Connector wire for plug-in power converter

AERATOR OPTIONS:

	Suffix	Flowrate GPM [L]	Vandal-Resistant	WaterSense* Labeled	Outlet Type
☐	-Standard		x		Spray
☐	-E	1.5 GPM [5.7L]	x	x	Aerator
☐	-J	1.5 GPM [5.7L]	x	x	Laminar
☐	-K	1.0 GPM [3.8L]	x	x	Laminar
☐	-L	1.0 GPM [3.8L]	x	x	Aerator
☐	-M	0.35 GPM [1.3L]	x		Spray
☐	-N	0.5 GPM [1.9L]	x		Laminar



Product Compliance:
ADA
ASME A112.18.1/CSA B125.1
CEC
CSA B125.1
IPC
NSF 61
NSF 372
WaterSense

*Complies with ADA & ICC A117.1 accessibility requirements when installed according to the requirements outlined in these standards.

*This product should be used with a WaterSense labeled counterpart with a compatible flow volume to ensure that the entire system meets the requirements for water efficiency and performance.

Although products with certain combinations of options and features will meet or comply with these standards and/or certifications, not every combination of options and features will result in such compliance. If you have any questions about your particular product, please contact our Customer Care Dept. at 1-855-ONE-ZURN (United States) or 1-877-892-5216 (Canada) for confirmation.

Installation Guide - FV849

Architectural/Engineering Approval

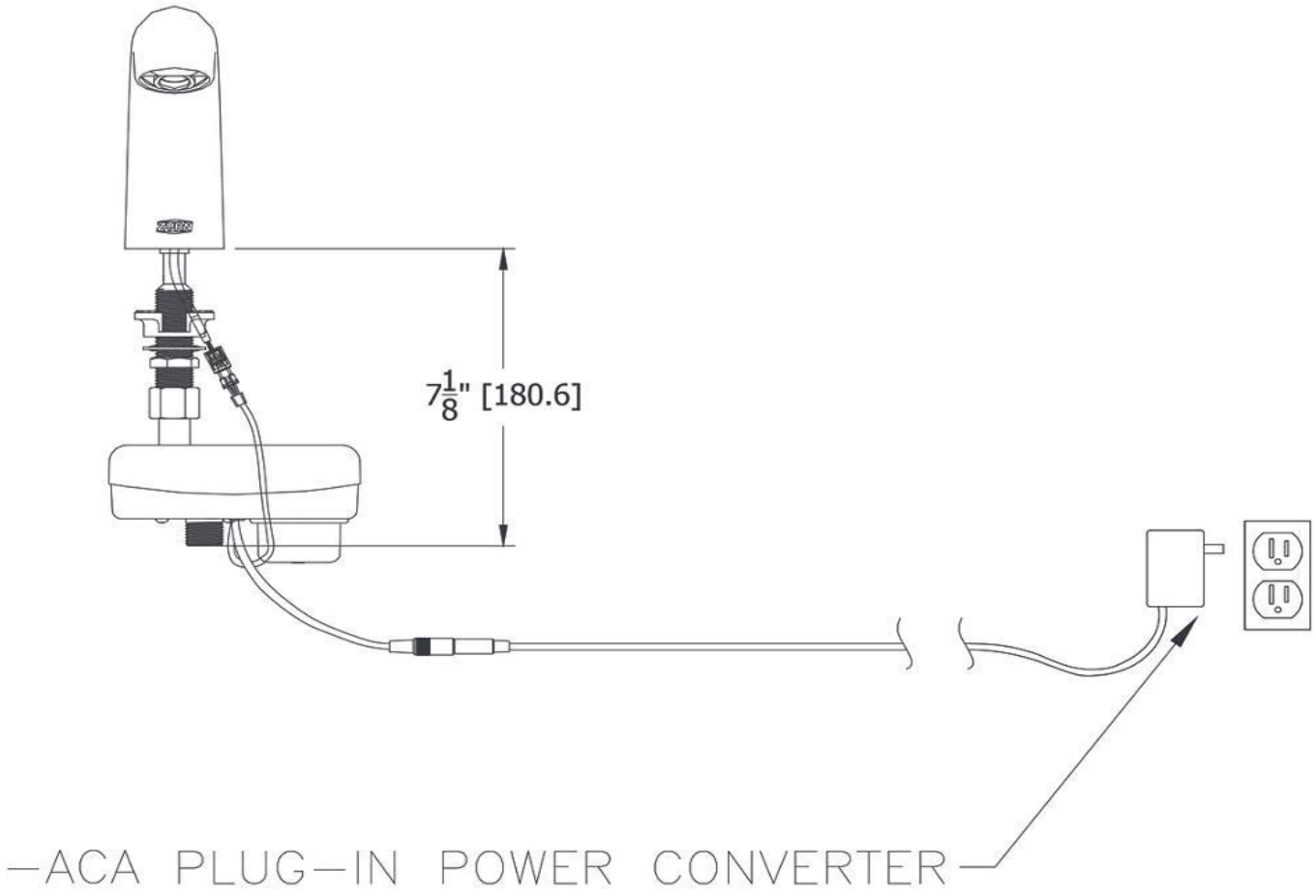
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⚠AVERTISSEMENT: Cancer *et effets néfastes sur la reproduction* – www.P65warnings.ca.gov

Model(s) ZG6950

Serio Series® Sensor Faucet With Gear-driven Ceramic Cartridge

TAG_____



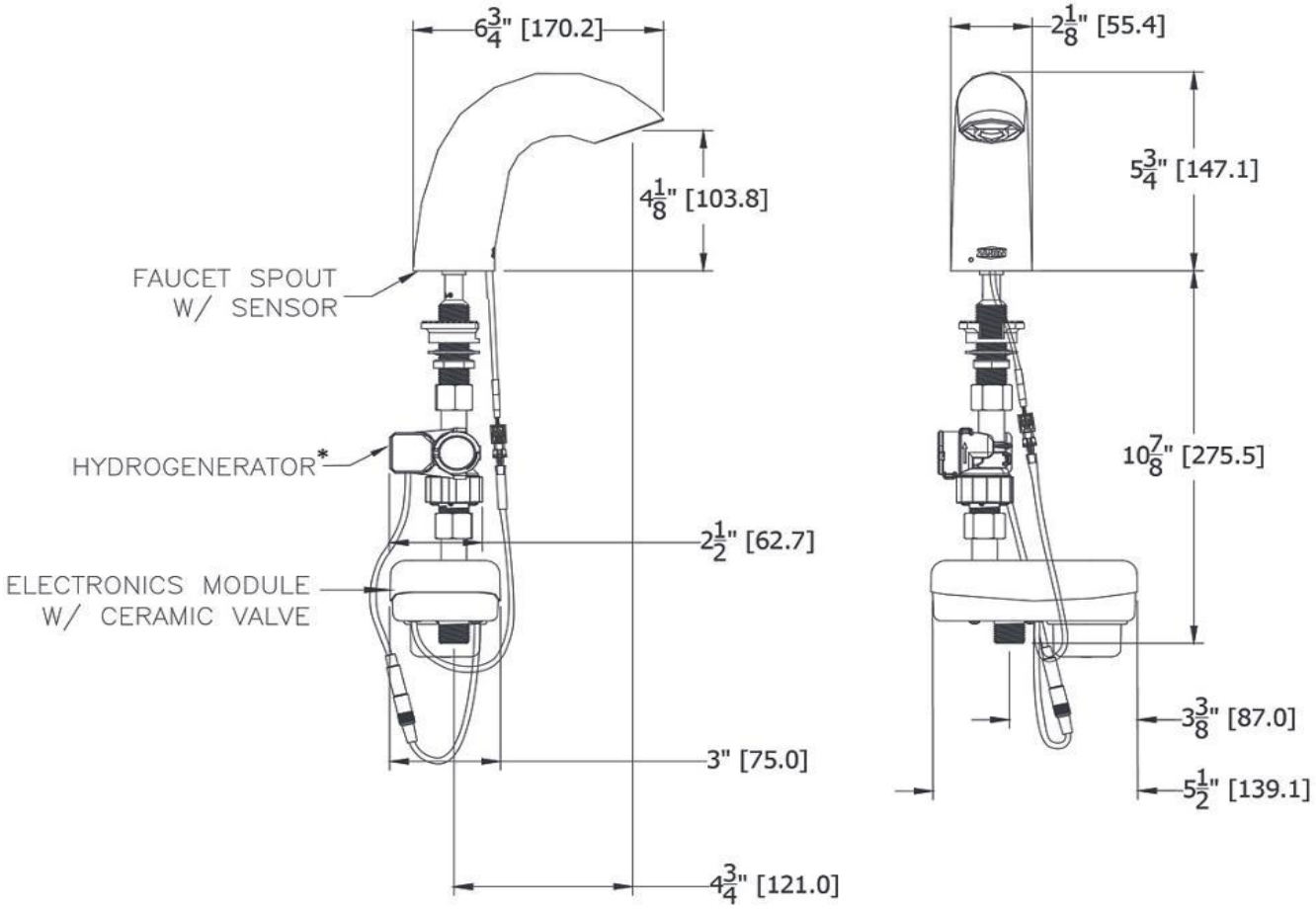
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Model(s) ZG6950

Serio Series® Sensor Faucet With Gear-driven Ceramic Cartridge

TAG_____



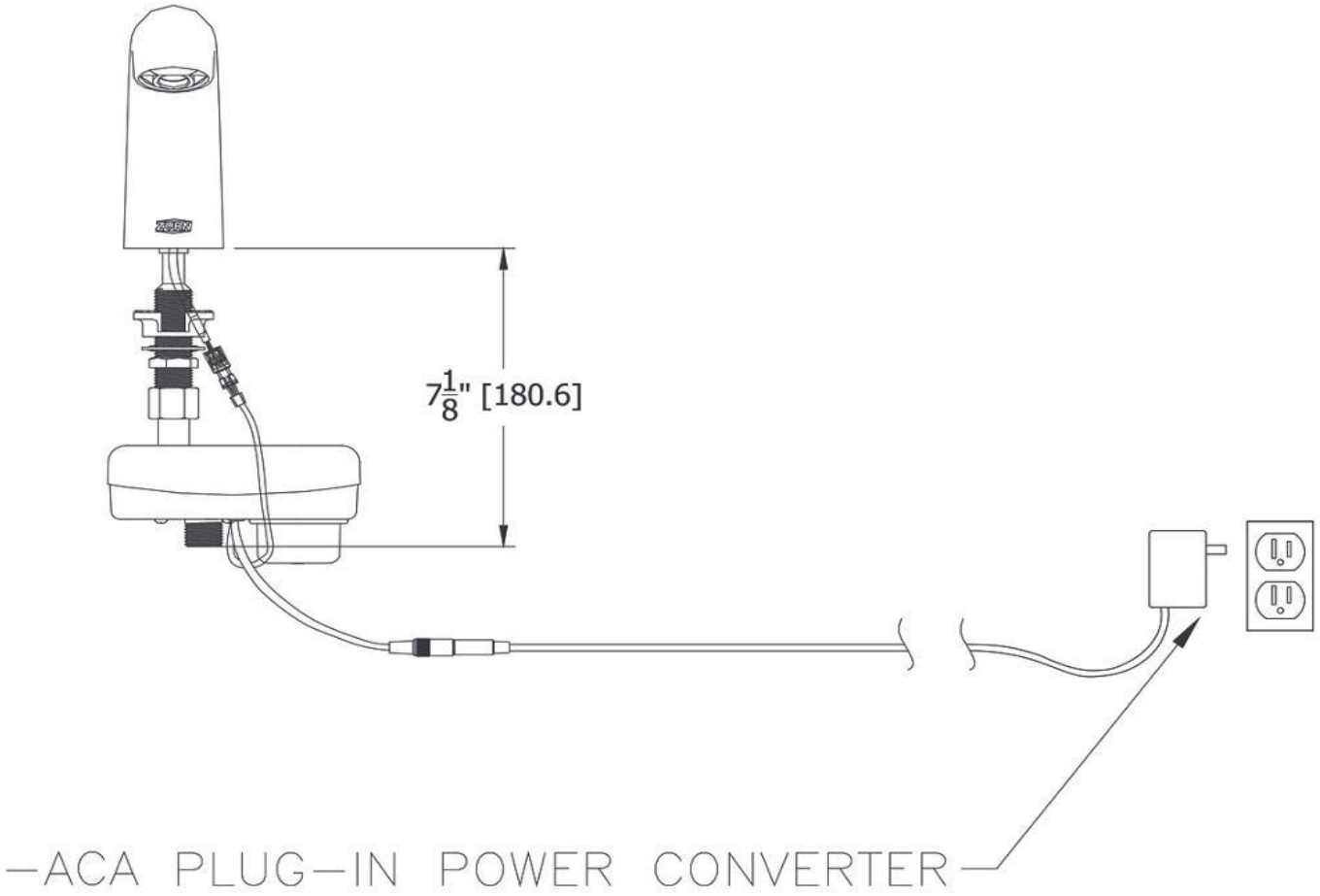
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Model(s) ZG6950

Serio Series® Sensor Faucet With Gear-driven Ceramic Cartridge

TAG_____



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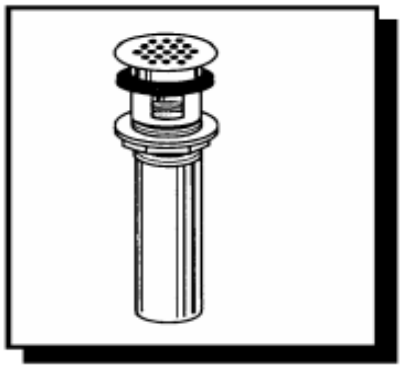
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Dearborn® Brass
4675 W. 160th St.
Cleveland, Ohio 44135
Ph: (800) 321-9532
Fax: (800) 321-9535
www.dearbornbrass.com
SUBMITTAL SPECIFICATION

CAST GRID
PATENT OUTLET PLUG

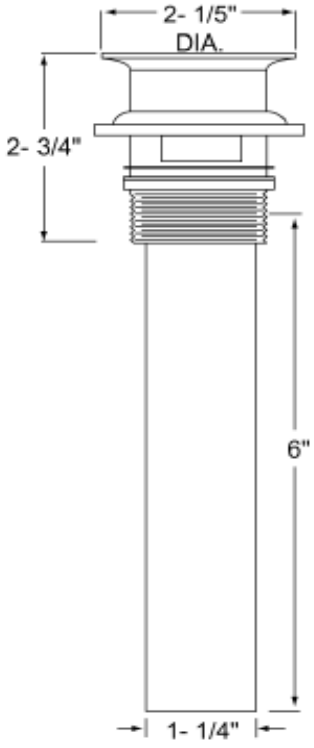
Engineering Specification: Dearborn Brass Semi-Cast Grid Patent Overflow Plug with 1-¼" x 6" – 17 gauge tailpiece.

Job Reference



DESCRIPTION

- Chrome Finished
- Includes: Cast Grid, P.O. Plug with nuts and washers and 17 gauge tailpiece
- Designed for installation in most commercial applications
- cUPC Listed



✓	Product No.	Description	Carton Quantity	Carton Weight (lbs)
	760-1	Semi-Cast Grid Patent Overflow Plug with 1-¼" x 6" – 17 gauge Tailpiece	25	18

Data is subject to manufacturing tolerances.

Visit www.dearbornbrass.com for updates 03/2009

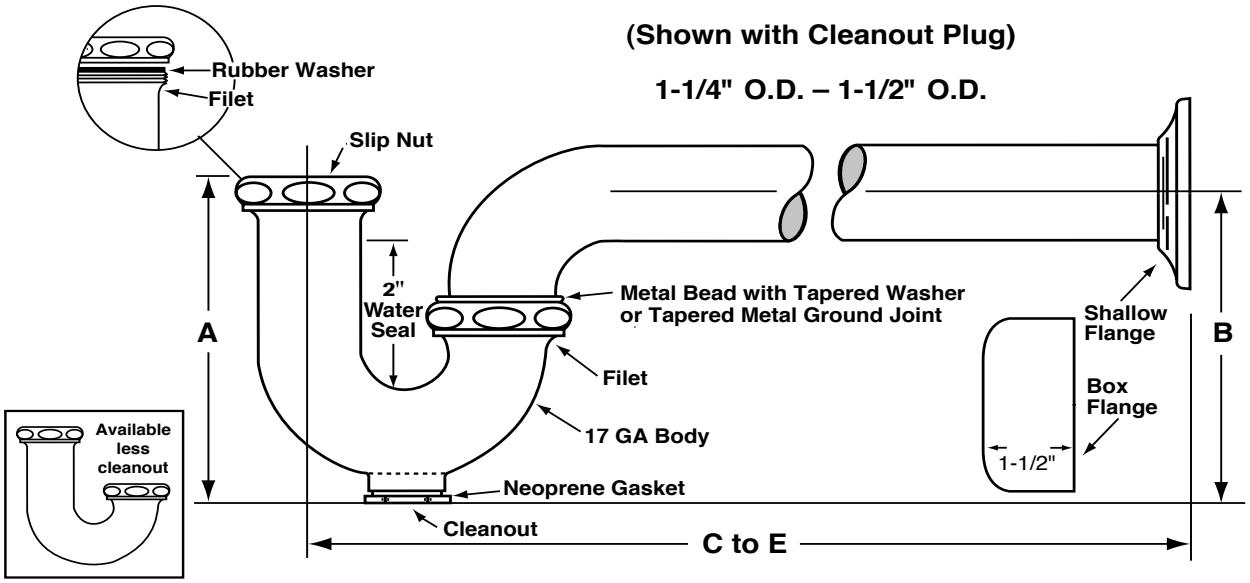
McGuire Manufacturing Co., Inc.
60 Grandview Court
P.O. Box 746♣ Cheshire, CT 06410
203-699-1801♣ Fax: 203-699-1813
www.mcguiremfg.com

PRODUCT SPECIFICATION

Part No.
MCT125 and MCT150 Series

Lite Commercial 17 GA Tubular P-Trap

Job Name: **Submittal Number:**



LITE COMMERCIAL ADJUSTABLE 17 GAUGE TUBULAR P-TRAPS

ROUGHING MEASUREMENTS							
MODEL NO.	TRAP DIMENSIONS		A	B	C to E	FLANGE	SLIP NUT
	INLET	OUTLET					
MCT125085	1-1/4"	1-1/4"	5"	4-1/2"	11"	Shallow	Brass
MCT125085B	1-1/4"	1-1/4"	5"	4-1/2"	11"	Box	Brass
MCT125085NC	1-1/4"	1-1/4"	4-5/8"	4-1/8"	11"	Shallow	Brass
MCT125085NCB	1-1/4"	1-1/4"	4-5/8"	4-1/8"	11"	Box	Brass
MCT125075ZN	1-1/4"	1-1/4"	5"	4-1/2"	10"	Shallow	Zinc
MCT125075NCZN	1-1/4"	1-1/4"	4-5/8"	4-1/8"	10"	Shallow	Zinc
MCT150090B	1-1/2", 1-1/4"	1-1/2"	5"	4-1/2"	12"	Box	Brass
MCT150075ZN	1-1/2", 1-1/4"	1-1/2"	5"	4-1/2"	10-1/2"	Shallow	Zinc
MCT150075NCZN	1-1/2", 1-1/4"	1-1/2"	4-5/8"	4-1/8"	10-1/2"	Shallow	Zinc
MCT150090NCB	1-1/2", 1-1/4"	1-1/2"	4-5/8"	4-1/8"	12"	Box	Brass
MCT150090NCGJB	1-1/2", 1-1/4"	1-1/2"	4-5/8"	4-1/8"	12"	Box	Brass
MCT150090NCGJ	1-1/2", 1-1/4"	1-1/2"	4-5/8"	4-1/8"	12"	Shallow	Brass

Suffix Designations
NC = No Cleanout Plug
GJ = Ground Joint Wall Bend

See options and accessories section for details on product variations.

Specifications:

P-Trap shall be 17 gauge seamless tubular brass with wall bend and flange.

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McGuire Manufacturing Co., Inc.
60 Grandview Court
Cheshire, Connecticut 06410
(203) 699-1801 Fax (203) 699-1813
customerservice@mcguiremfg.com mcguiremfg.com

PRODUCT SPECIFICATION

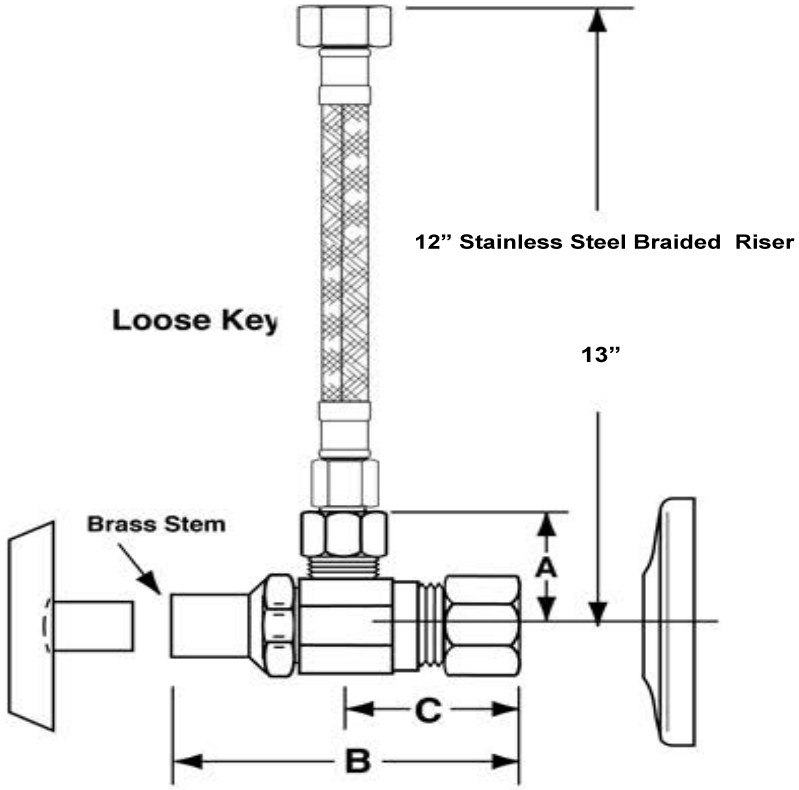
Part No.

LF2165CCLKSS12ECO

Compression x Compression Lavatory Supply

Job Name:

Submittal Number:



NO.	DESCRIPTION	ROUGHING MEASUREMENTS		
		A	B	C
LF2165CCLKSS12ECO	1/2" Nominal x 3/8" O.D.	1"	2-3/8"	1"

- Rated Operating Pressure: 20-125 PSI
- Rated Operating Temperature: 40-140ºF
- Note: 180°F max. during temporary high-temperature system flush

LK designates Loose Key

* See options and accessories section for details on product variations.

NSF UPC ASME A112.18.1

Specifications:

Supply kit shall include lead free chrome plated supply brass stop valves with full turn brass stem, no plastic, 12 inch stainless steel braided risers and shallow steel flange. Inlet shall be 1/2 inch compression. Outlet shall be 3/8 inch compression. Supply kit shall be certified by recognized authority and bear manufacturer and testing mark.

WARNING:

This product can expose you to chemicals including lead, which is known to the State of California to cause cancer, and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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TRUEBRO IPS CORPORATION

LAV GUARD 2
FAST FIT UNDERSINK PIPING COVERS
ADA-compliant undersink protection

Submittal Sheet

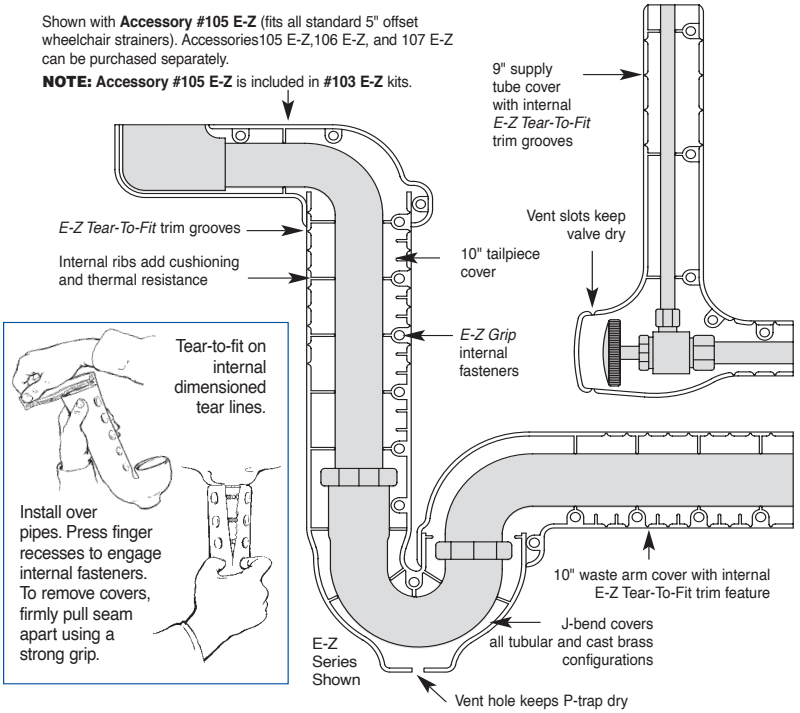
General Description:

LAV GUARD® 2E-Z Series waste and supply piping covers satisfy ADA compliance requirements. Built-in E-Z Grip internal fasteners and internal, E-Z Tear-To-Fit trimming feature allow for fast installation without tools. Series #100 E-Z kits are designed to fit on all tubular and cast brass P-trap assemblies. Series #400 kits are the "original" LAV GUARD design and fit schedule 40 ABS and PVC P-trap assemblies — regardless of their geometry or rotational offset.Valve cover completely encloses angle valve and supply tube for both handled and keyed type water stops.

Material	Molded vinyl
Nominal Wall	1/8" constant
Durometer	70 - 80 - Shore A
UV Protection	Will not fade or discolor
Durability	Virtually indestructible
Trimming (E-Z Series)	Internal, *E-Z Tear-To-Fit* trim feature
Fasteners (E-Z Series)	Internal *E-Z Grip* fasteners (reusable)
Color	China white
Paintability	Apply Latex paint
Burning Characteristics ASTM D-635	Self extinguished 0 sec (ATB) 0 mm (AEB)
Bacteria/Fungus Resistance	ASTM G21 and G22/ Result: 0 growth
Maintenance	Use common detergents

Antimicrobial Vinyl Minimizes Maintainance
Lav Guard 2 is molded from impact-resistant, stain-resistant, antimicrobial vinyl. Its smooth surface makes it exceptionally easy to clean and maintain.

Manufactured under one or more of the following U.S. or Canadian patents. Other patents pending.
5,303,730 5,360,031 5,524,669 5,564,463 5,678,598 5,699,828 5,915,412 5,915,413 5,901,739 5,960,820 2,075,324 2,119,427 2,136,027 2,158,083



#100 E-Z Series *(shown above right) for tubular and cast brass P-trap assemblies.*
#400W* Series *(original design) for schedule 40 P-trap assemblies.*

☐ **Model #99 E-Z**
One angle valve and supply cover

☐ **Model #100 E-Z**
One P-trap cover

☐ **Model #400W***
One P-trap cover

☐ **Model #101 E-Z**
One P-trap cover, one angle valve cover

☐ **Model #401W***
One P-trap cover, one angle valve cover

☐ **Model #102 E-Z**
One P-trap cover, two angle valves and covers

☐ **Model #402W***
One P-trap cover, two angle valves and covers

☐ **Model #103 E-Z**
One P-trap cover, two angle valves and supply covers, one 5" offset tailpiece wheelchair strainer cover

☐ **Accessory #105 E-Z**
One 5" offset tailpiece wheelchair strainer assembly

*All #400W series items are the "original" LAV GUARD® design and construction. Specifications may change without notice.

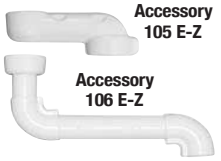
☐ **Accessory #105-K**
Kohler 6" offset

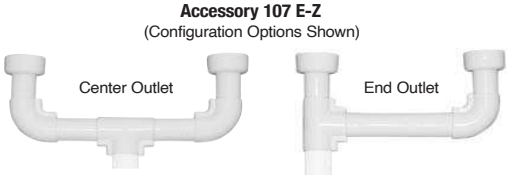
☐ **Accessory #106 E-Z**
One basket strainer cover and offset waste cover (adjustable to 18")

☐ **Accessory #107 E-Z**
Two basket strainer covers and center or end outlet waste cover (adjustable)

☐ **Accessory #Ex99 E-Z**
One 14" extension for water supply

☐ **Accessory #Ex100 E-Z**
One 14" extension for drain waste arm or tailpiece





IPS CORPORATION 500 Distribution Parkway, Collierville, TN 38017 ▪ Phone: 800-888-8312 ▪ Fax: 901-853-5008 ▪ www.ipscorp.com

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2.16 HIGHLANDS BUILDING ROGERS

Datasheets

S-1

ADVANCE TABCO
SMART FABRICATION™

STAINLESS STEEL

STANDARD HAND SINKS

Conforms To NSF 61/9 Lead Free Requirements

SPLASH MOUNTED FAUCETS


7-PS-60


Wrist Handles
7-PS-68


7-PS-50


7-PS-54

DECK MOUNTED FAUCET


7-PS-67


7-PS-20


7-PS-20-NF
Faucet omitted

SINGLE HOLE PUNCH
Faucet omitted


7-PS-71

DOUBLE HOLE PUNCH
Faucet omitted


7-PS-70

LARGE SINK BOWLS

Features
Large Size
Sink Bowl
16" x 20" x 8"


7-PS-45

Features
Large Size
Sink Bowl
16" x 14" x 8"


7-PS-49

Item #: _____ **Qty #:** _____
Model #: _____
Project #: _____

FEATURES:

One piece **Deep Drawn** sink bowl design.
Sink bowl size is 10" x 14" x 5".
7-PS-45 sink bowl size is 16" x 20" x 8".
7-PS-49 sink bowl size is 16" x 14" x 8".
All sink bowls have a large liberal radii with a minimum dimension of 2" and are rectangular in design for increased capacity.
Stainless steel 3 1/2" basket drain with 1-1/2" IPS.

Additional Features:

7-PS-20	K-22 4" O.C. deck mounted centerset faucet.
7-PS-20-NF	Deck mounted faucet omitted. Two 4" O.C. holes.
7-PS-45	K-59 4" O.C. splash mounted faucet and 2 Stainless Steel Support Brackets. (Hardware Included).
7-PS-49	K-59 4" O.C. splash mounted faucet and 2 Stainless Steel Support Brackets. (Hardware Included).
7-PS-50	K-59 4" O.C. splash mounted gooseneck faucet. Lever operated drain and built-in overflow with plastic overflow tube and spring clamps. 1-1/2" P-Trap.
7-PS-54	K-59 4" O.C. splash mounted gooseneck faucet. 1-1/2" P-Trap.
7-PS-60	K-59 4" O.C. splash mounted gooseneck faucet.
7-PS-67	K-59 4" O.C. splash mounted gooseneck faucet and lever operated drain.
7-PS-68	K-59 4" O.C. splash mounted gooseneck faucet with Wrist Handles.
7-PS-70	Splash mounted faucet omitted. Two 4" O.C. holes.
7-PS-71	Splash mounted faucet omitted. Single center hole.

CONSTRUCTION:

All TIG welded.
Welded areas blended to match adjacent surfaces and to a satin finish.
Die formed Countertop Edge with a No-Drip offset.
One sheet of stainless steel - No Seams.

MATERIAL:

Heavy gauge type 304 series stainless steel.
Wall mounting bracket is Galvanized and of offset design.
All fittings are brass / chrome plated unless otherwise indicated.

MECHANICAL:

Faucet supply is 1/2" IPS male thread hot and cold.
Faucet Flow Rate: 1.0 GPM/3.8 LPM aerator. 60 PSI.

⚠ WARNING:
Equipment that includes a faucet may expose you to chemicals, including lead, that are known to the State of California to cause cancer or birth defects or other reproductive harm. For more Info.,visit www.p65warnings.ca.gov.

ADVANCE TABCO
SMART FABRICATION™
www.advancetabco.com

Customer Service Available To Assist You 1-800-645-3166 8:30 am - 7:00 pm E.S.T.

For Orders & Customer Service:
Email: customer@advancetabco.com or Fax: 631-242-6900

For Smart Fabrication™ Quotes:
Email: smartfab@advancetabco.com or Fax: 631-586-2933

REF-B

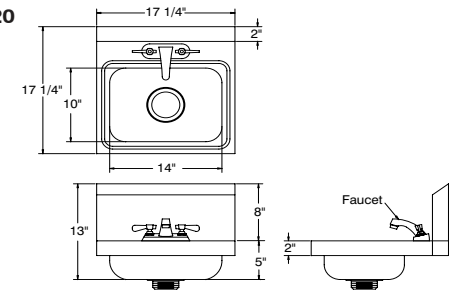
Job Name : 2.16 HIGHLANDS BUILDING ROGERS
Manufacturer : ADVANCE TABCO
Model Number : 7-PS-60

Type :

DIMENSIONS and SPECIFICATIONS

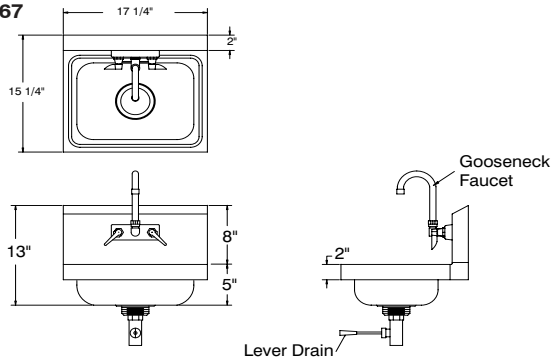
TOL Overall: ± .500" Interior: ± .250" **FITTINGS SUPPLIED AS SHOWN** **ALL DIMENSIONS ARE TYPICAL**

7-PS-20



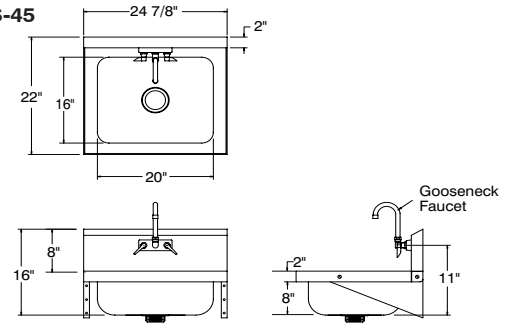
15 lbs.

7-PS-67



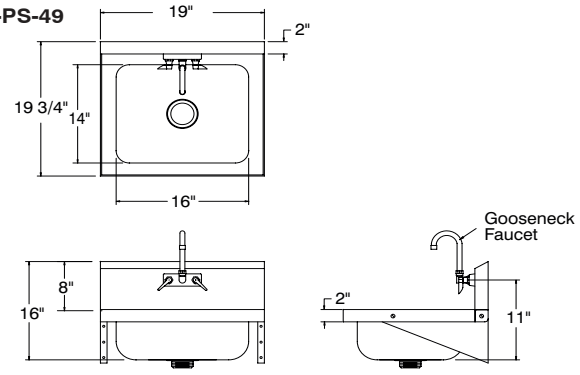
15 lbs.

7-PS-45



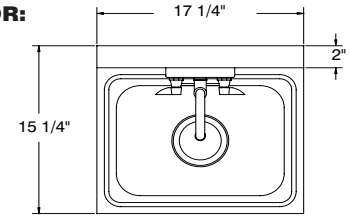
31 lbs.

7-PS-49



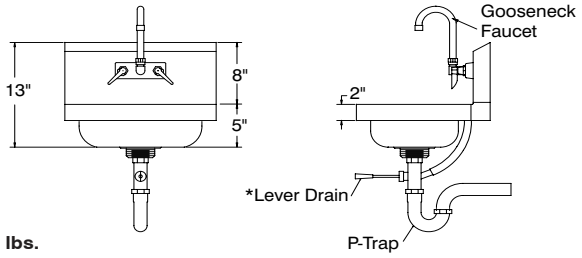
31 lbs.

TOP VIEW FOR:
7-PS-50
7-PS-54
7-PS-60
7-PS-68
7-PS-70



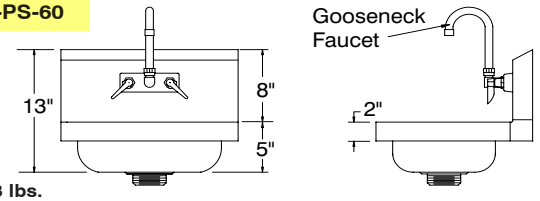
Sink Bowl 10" x 14" x 5"

7-PS-50 & 7-PS-54*
NOTE: *7-PS-54 Hand Sink Excludes Lever Drain and Overflow



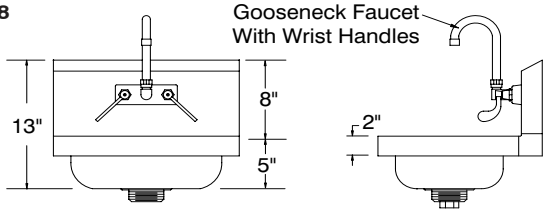
15 lbs.

7-PS-60



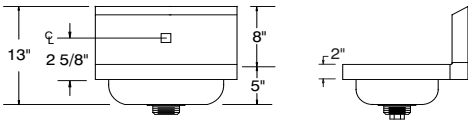
13 lbs.

7-PS-68

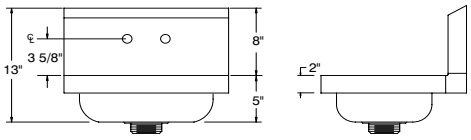


13 lbs.

7-PS-71



7-PS-70



12 lbs.

ADVANCE TABCO
SMART FABRICATION™

REF-B 325 Wireless Boulevard, Hauppauge, NY 11788

ADVANCE TABCO is constantly engaged in a program of improving our products. Therefore, we reserve the right to change specifications without prior notice.

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McGuire Manufacturing Co., Inc.
60 Grandview Court
Cheshire, Connecticut 06410
(203) 699-1801 Fax (203) 699-1813
customerservice@mcguiremfg.com mcguiremfg.com

PRODUCT SPECIFICATION

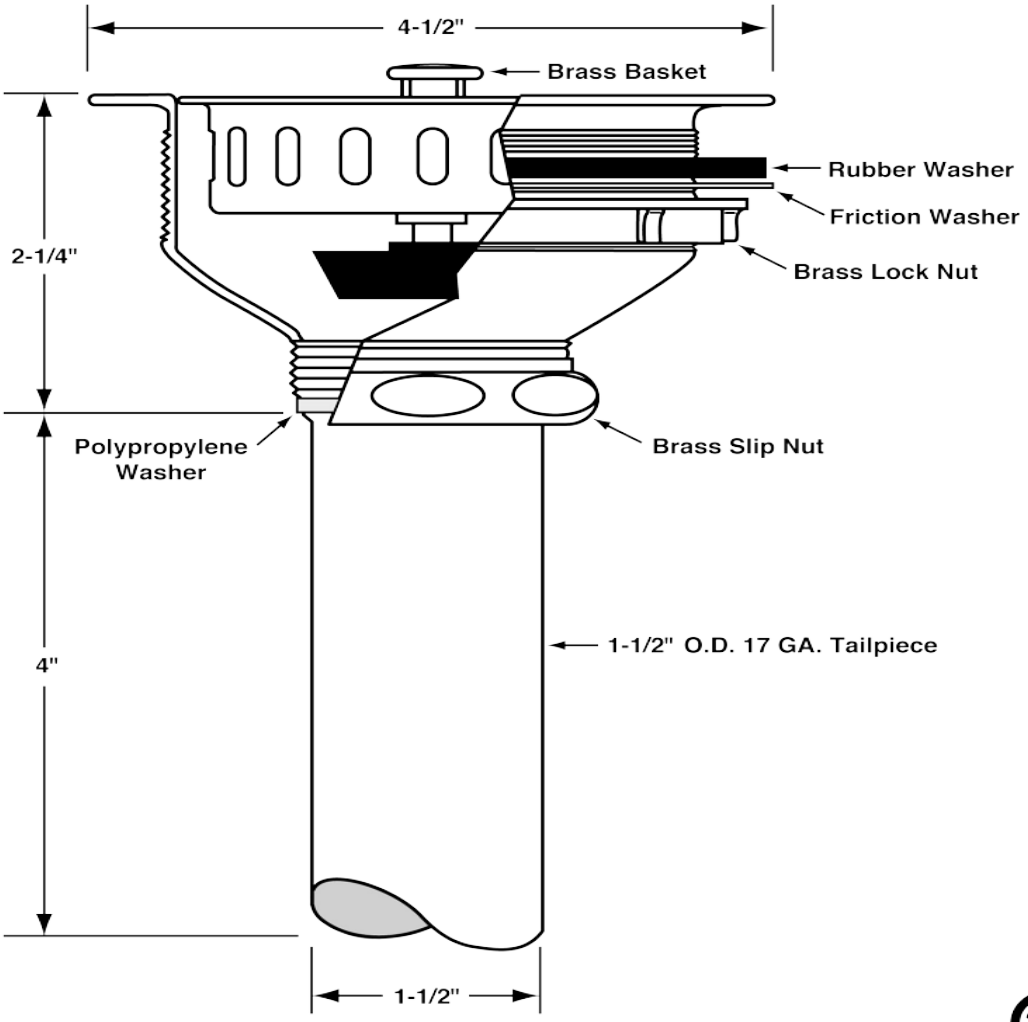
Part No.

151M

Brass Basket Strainer

Job Name:

Submittal Number:



ASME A112.18.2/CSA B125.2

See options and accessories section for details on product variations.

Specifications:

Heavy duty forged brass basket strainer with a polished and chrome plated brass strainer body, 1-1/2" x 4" seamless brass 17GA tailpiece, cast brass lock and coupling nuts. Fits sink thickness up to 5/8". Basket strainer in compliance with CSA or other recognized test authority and bear both manufacturer and testing mark.

WARNING:

This product can expose you to chemicals including lead, which is known to the State of California to cause cancer, and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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McGuire Manufacturing Co., Inc.
60 Grandview Court
Cheshire, Connecticut 06410
(203) 699-1801 Fax (203) 699-1813
customerservice@mcguiremfg.com mcguiremfg.com

PRODUCT SPECIFICATION

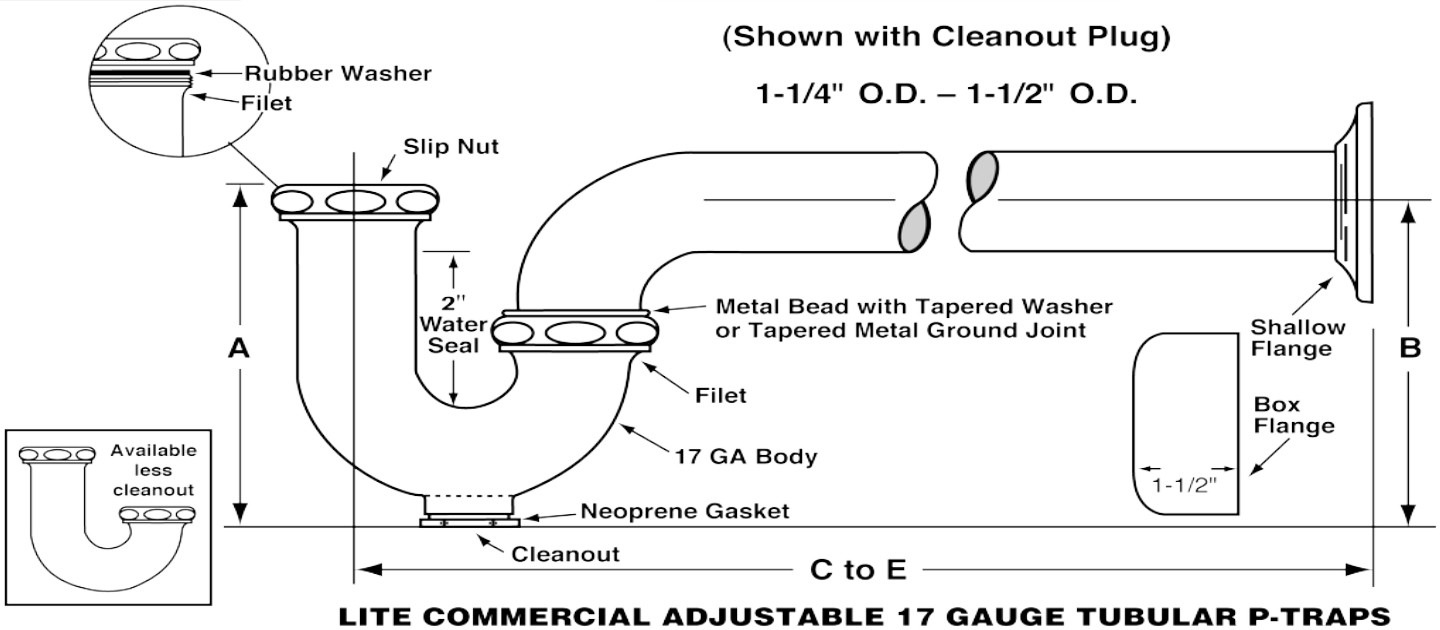
Part No.

MCT150 Series

Lite Commercial 17 GA Tubular P-Trap

Job Name:

Submittal Number:



LITE COMMERCIAL ADJUSTABLE 17 GAUGE TUBULAR P-TRAPS

Roughing Measurements

Model No.	INLET	OUTLET	A	B	C to E	Flange	Slip Nut
MCT150090B	1-1/2", 1-1/4"	1-1/2"	5-1/4"	5"	12"	Box	Brass
MCT150075ZN	1-1/2", 1-1/4"	1-1/2"	5-1/2"	5"	10-1/2"	Shallow	Zinc
MCT150075NCZN	1-1/2", 1-1/4"	1-1/2"	5"	4-3/4"	11"	Shallow	Zinc
MCT150090NCB	1-1/2", 1-1/4"	1-1/2"	5-1/4"	4-1/2"	12-1/4"	Box	Brass
MCT150090NCGJB	1-1/2", 1-1/4"	1-1/2"	5-1/4"	4-3/4"	12-1/4"	Box	Brass
MCT150090NCGJ	1-1/2", 1-1/4"	1-1/2"	5-1/4"	5"	12-1/4"	Shallow	Brass
MCT150150B	1-1/2", 1-1/4"	1-1/2"	5-1/4"	5"	18"	Box	Brass

Suffix Designations
NC = No Cleanout Plug
GJ = Ground Joint Wall Bend

AND/OR

ASME A112.18.2/CSA B125.2

Specifications:

P-Trap shall be 17 gauge seamless chrome plated tubular brass with wall bend and flange.

WARNING:
This product can expose you to chemicals including lead, which is known to the State of California to cause cancer, and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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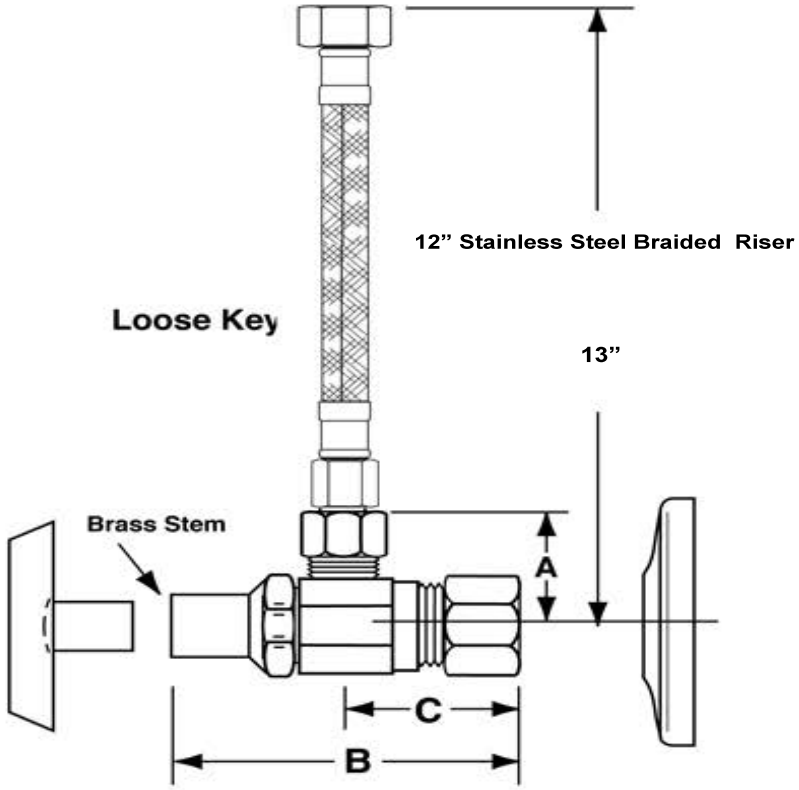
McGuire Manufacturing Co., Inc.
60 Grandview Court
Cheshire, Connecticut 06410
(203) 699-1801 Fax (203) 699-1813
customerservice@mcguiremfg.com mcguiremfg.com

PRODUCT SPECIFICATION

Part No.
LF2165CCLKSS12ECO

Compression x Compression Lavatory Supply

Job Name: **Submittal Number:**



NO.	DESCRIPTION	ROUGHING MEASUREMENTS		
		A	B	C
LF2165CCLKSS12ECO	1/2" Nominal x 3/8" O.D.	1"	2-3/8"	1"

- Rated Operating Pressure: 20-125 PSI
- Rated Operating Temperature: 40-140ºF
- Note: 180°F max. during temporary high-temperature system flush

LK designates Loose Key

* See options and accessories section for details on product variations.

NSF UPC ASME A112.18.1

Specifications:

Supply kit shall include lead free chrome plated supply brass stop valves with full turn brass stem, no plastic, 12 inch stainless steel braided risers and shallow steel flange. Inlet shall be 1/2 inch compression. Outlet shall be 3/8 inch compression. Supply kit shall be certified by recognized authority and bear manufacturer and testing mark.

WARNING:
This product can expose you to chemicals including lead, which is known to the State of California to cause cancer, and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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Model ZW3870XLT

Aqua-Gard® Thermostatic Mixing Valve

Application

Ideal for use where Lead Free* valves are required. The Zurn Wilkins Model ZW3870XLT Aqua-Gard® Thermostatic mixing valve is designed to be installed at the point of use under sinks and sensor faucets to assist in the prevention of scalding. The valves rapid response and precise temperature control meet the stringent standards of ASSE 1070 listed for fixtures, sinks, lavatories or bathtubs. The ZW3870XLT will mix hot and cold water from the distribution system to a final safer temperature outlet range of 95-115F (35-46C). The 3/8" compression fittings make this valve ideal for residential and commercial applications. With a minimum flow rating of 0.06 GPM the valve will provide proper scald protection when used in conjunction with ultra low flow faucet aerators.



XL LEAD FREE

NSF/ANSI/CAN 61-9 Q≤1

Standards Compliance

- ASSE® Listed 1070
- cUPC® Listed
- CSA® Certified B125.70
- Meets the requirements of NSF/ANSI/CAN 61-9 Q≤1*

*(0.25% MAX. WEIGHTED AVERAGE LEAD CONTENT)

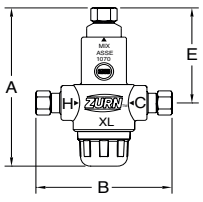
Features

Sizes:	3/8"
Chrome Plated	
Outlet Temp. Range	95-115°F(35-46°C)
Temperature Hot Supply	120-195°F max. (49-90.5°C)
Temperature Cold Supply	40-75°F(4.4-23.8°C)
Set Temperature Accuracy	+/- 3°F(1.78°C)
Max. Working Pressure (inlet)	145 psi
Temperature must be field set	
Max. Pressure Differential is 15 psi between Hot & Cold inlets	
Flow rate @ 45 psi pressure loss	3.10 gpm
Min. Flow Rate	0.06 gpm
Integral check valves and strainer screen on hot and cold supply	

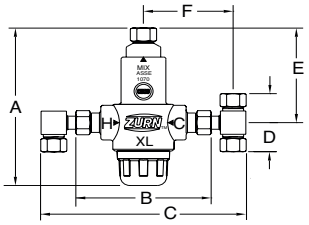
ZW3870XLT	3 PORT (1 Hot in, 1 Cold in, 1 Mixed out)
ZW3870XLT-4P	4 PORT (1 Hot in, 1 Cold in, 1 Cold out, 1 Mixed out.)

Materials

Body	Low Lead Cast Bronze ASTM B 584 w/Chrome Plating ASTM B 456 Service Condition #2
Internal brass	Low Lead Brass, ASTM B 927 UNS C27450
Piston	Polysufone
Guide Tube	Noryl GFN2
Spring	300 Series Stainless Steel
Seals	Viton
Checks	Acetal Co-Polymer



ZW3870XLT

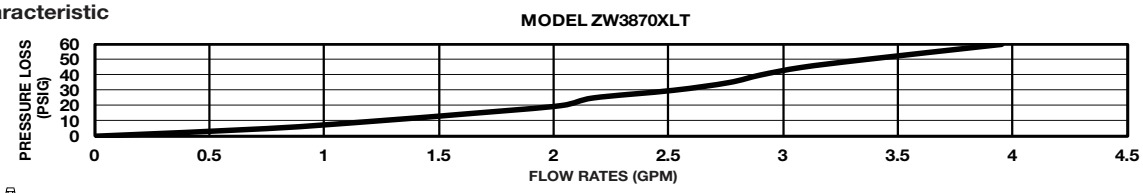


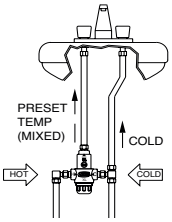
ZW3870XLT-4P

Dimensions & Weights (do not include pkg.)

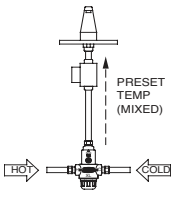
MODEL	SIZE		DIMENSIONS (approximate)												WEIGHT	
			A		B		C		D		E		F			
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kg.
ZW3870XLT	3/8	9.5	4 27/32	123	4 3/16	106.3	5 55/64	149	2 1/32	52	2 27/32	72.2	2 1/2	64	1.2	.6

Flow Characteristic





INDIVIDUAL USE ZW3870XLT-4P



SINGLE USE ZW3870XLT

Piping Instructions

The device is designed to be installed at a single outlet. It may be used to supply individual outlets when there is sufficient supply pressure. It is suggested to use ball valves on the hot and cold inlet supplies.

Zurn Industries, LLC | Wilkins
1747 Commerce Way, Paso Robles, CA U.S.A. 93446 Ph. 855-663-9876, Fax 805-238-5766
In Canada | **Zurn Industries Limited**
7900 Goreway Drive, Unit 10, Brampton, Ontario L6T 5W6, 877-892-5216
www.zurn.com

Rev. J
Date: 5/22
Document No. TMV-ZW3870XLT
Product No. Model ZW3870XLT
Patent zurn.com/patents

TRUEBRO IPS CORPORATION

LAV GUARD2 FAST FIT UNDERSINK PIPING COVERS

ADA-compliant undersink protection

Submittal Sheet

General Description:

LAV GUARD® 2E-Z Series waste and supply piping covers satisfy ADA compliance requirements. Built-in E-Z Grip internal fasteners and internal, E-Z Tear-To-Fit trimming feature allow for fast installation without tools. Series #100 E-Z kits are designed to fit on all tubular and cast brass P-trap assemblies. Series #400 kits are the "original" LAV GUARD design and fit schedule 40 ABS and PVC P-trap assemblies — regardless of their geometry or rotational offset.Valve cover completely encloses angle valve and supply tube for both handled and keyed type water stops.

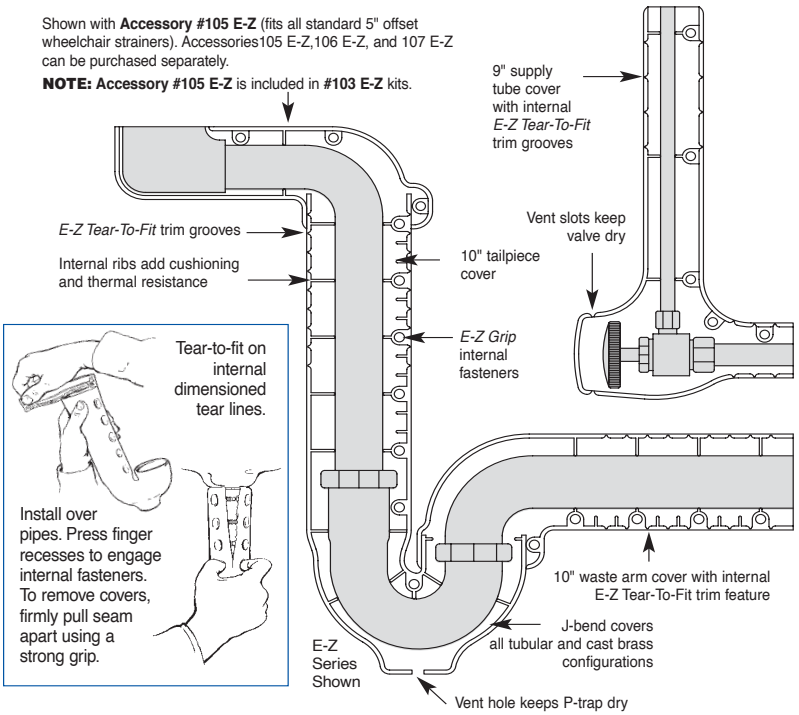
Material	Molded vinyl
Nominal Wall	1/8" constant
Durometer	70 - 80 - Shore A
UV Protection	Will not fade or discolor
Durability	Virtually indestructible
Trimming (E-Z Series)	Internal, *E-Z Tear-To-Fit* trim feature
Fasteners (E-Z Series)	Internal *E-Z Grip* fasteners (reusable)
Color	China white
Paintability	Apply Latex paint
Burning Characteristics ASTM D-635	Self extinguished 0 sec (ATB) 0 mm (AEB)
Bacteria/Fungus Resistance	ASTM G21 and G22/ Result: 0 growth
Maintenance	Use common detergents

Antimicrobial Vinyl Minimizes Maintainance

Lav Guard 2 is molded from impact-resistant, stain-resistant, antimicrobial vinyl. Its smooth surface makes it exceptionally easy to clean and maintain.

Manufactured under one or more of the following U.S. or Canadian patents. Other patents pending.

5,303,730 5,360,031 5,524,669 5,564,463 5,678,598 5,699,828 5,915,412 5,915,413 5,901,739 5,960,820 2,075,324 2,119,427 2,136,027 2,158,083



#100 E-Z Series *(shown above right) for tubular and cast brass P-trap assemblies.*
#400W* Series *(original design) for schedule 40 P-trap assemblies.*

☐ **Model #99 E-Z**
One angle valve and supply cover

☐ **Model #100 E-Z**
One P-trap cover

☐ **Model #400W***
One P-trap cover

☐ **Model #101 E-Z**
One P-trap cover, one angle valve cover

☐ **Model #401W***
One P-trap cover, one angle valve cover

☐ **Model #102 E-Z**
One P-trap cover, two angle valves and covers

☐ **Model #402W***
One P-trap cover, two angle valves and covers

☐ **Model #103 E-Z**
One P-trap cover, two angle valves and supply covers, one 5" offset tailpiece wheelchair strainer cover

☐ **Accessory #105 E-Z**
One 5" offset tailpiece wheelchair strainer assembly

*All #400W series items are the "original" LAV GUARD® design and construction. Specifications may change without notice.

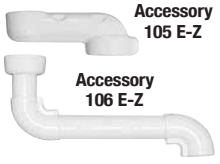
☐ **Accessory #105-K**
Kohler 6" offset

☐ **Accessory #106 E-Z**
One basket strainer cover and offset waste cover (adjustable to 18")

☐ **Accessory #107 E-Z**
Two basket strainer covers and center or end outlet waste cover (adjustable)

☐ **Accessory #Ex99 E-Z**
One 14" extension for water supply

☐ **Accessory #Ex100 E-Z**
One 14" extension for drain waste arm or tailpiece



Accessory 107 E-Z
(Configuration Options Shown)



IPS CORPORATION 500 Distribution Parkway, Collierville, TN 38017 ▪ Phone: 800-888-8312 ▪ Fax: 901-853-5008 ▪ www.ipscorp.com

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2.16 HIGHLANDS BUILDING ROGERS

Datasheets

S-2

ELKAY SPECIFICATIONS

Lustertone® Classic Stainless Steel 22" x 19-1/2" x 5-1/2" 5-Hole Single Bowl Drop-in ADA Sink
Model(s) LRAD221955

PRODUCT SPECIFICATIONS

Lustertone® Classic Stainless Steel 22" x 19-1/2" x 5-1/2" 5-Hole Single Bowl Drop-in ADA Sink. Sink is manufactured from 18 gauge 304 Stainless Steel with a Lustrous Satin finish, Rear Center drain placement, and Bottom only pads.

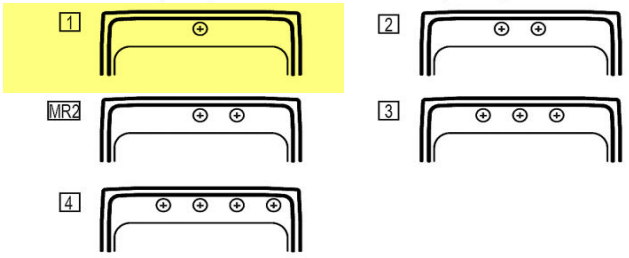
Installation Type:	Drop-in
Material:	304 Stainless Steel
Finish:	Lustrous Satin
Gauge:	18
Sound Deadening:	Bottom only pads
Number of Bowls:	1
Sink Dimensions:	22" x 19-1/2" x 5-1/2"
Bowl 1 Dimensions:	18" x 14" x 5-3/8"
Drain Size:	3-1/2" (89mm)
Drain Location:	Rear Center
Minimum Cabinet Size:	27"
Mounting Hardware:	Part # 64090012 included for countertops up to 3/4" (19mm) thick
Template Included:	No
Cutout Template #:	1000001255

Template is available for download at elkay.com. CAD software will be required to open the template.

Cutout Dimensions for Drop-in Installation:
21-3/8" x 18-7/8" (543mm x 479mm) with 1-1/2" (38mm) corner radius

Hole Drilling Configurations:

1-1/2" (38mm) Diameter Faucet Holes on 4" (102mm) Centers





A Century of Tradition and Quality.
For more than 100 years, Elkay has been making innovative products and providing exceptional customer care. We take pride in offering plumbing products that make life easier, inspire change and leave the world a better place.

KBB READERS' CHOICE AWARDS 2025 WINNER

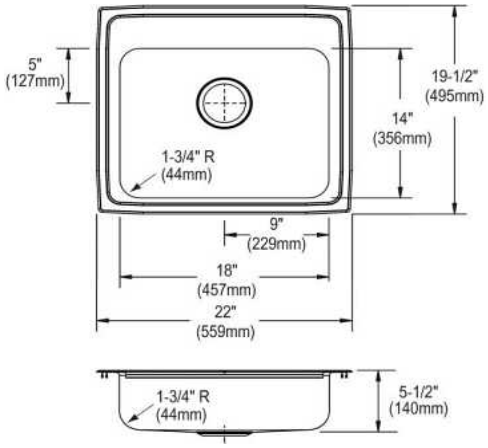
MADE IN USA

Product Compliance: ADA & ICC A117.1
ASME A112.19.3/CSA B45.4

Sinks are listed by IAPMO® as meeting the applicable requirements of the Uniform Plumbing Code®, International Plumbing Code®, and National Plumbing Code of Canada.

Complies with ADA & ICC A117.1 accessibility requirements when installed according to the requirements outlined in these standards.

Clean and Care Manual (PDF)
Installation Instructions (PDF) - 1000005236
Warranty (PDF)



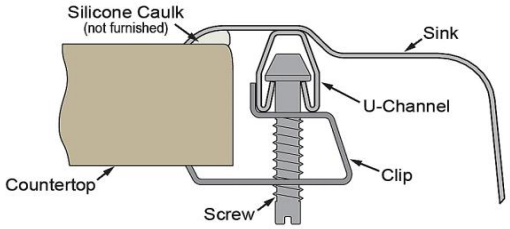
PART:_____QTY: _____
PROJECT:_____
CONTACT:_____
DATE:_____
NOTES:_____
APPROVAL:_____

In keeping with our policy of continuing product improvement, Elkay reserves the right to change product specifications without notice. Please visit elkay.com for the most current version of Elkay product specification sheets. This specification describes an Elkay product with design, quality, and functional benefits to the user. When making a comparison of other producers' offerings, be certain these features are not overlooked. Latest version of the spec sheet available: https://www.elkayfiles.com/spec-sheets/LRAD221955_spec.pdf

ELKAY SPECIFICATIONS

Lustertone® Classic Stainless Steel 22" x 19-1/2" x 5-1/2" 5-Hole Single Bowl Drop-in ADA Sink
Model(s) LRAD221955

Installation Profile:



Optional Accessories		
CBS1418	Hardwood 15" x 19" x 3/4" Cutting Board Spec Sheet (PDF)	
LK99	Deluxe 3-1/2" Drain Type 304 Stainless Steel Body Strainer Basket Rubber Seal and Tailpiece Spec Sheet (PDF)	
LKAD35	3-1/2" Drain Fitting" Stainless Steel Body Strainer Basket and Offset Tailpiece Spec Sheet (PDF)	
LKGT1041	Elkay Gourmet Single Hole Kitchen Faucet Pull-out Spray and Lever Handle with Hi and Mid-rise Base Options Spec_Sheet (PDF)	
LKWRB1418SS	Stainless Steel 13" x 17" x 7" Rinsing Basket Spec Sheet (PDF)	

In keeping with our policy of continuing product improvement, Elkay reserves the right to change product specifications without notice. Please visit elkay.com for the most current version of Elkay product specification sheets. This specification describes an Elkay product with design, quality, and functional benefits to the user. When making a comparison of other producers' offerings, be certain these features are not overlooked. Latest version of the spec sheet available: https://www.elkayfiles.com/spec-sheets/LRAD221955_spec.pdf

ELKAY®
SPECIFICATIONS

Allure Single Hole Kitchen Faucet with Lever Handle Satin Stainless Steel

Model(s) LK7921SSS

PRODUCT SPECIFICATIONS

Allure Single Hole Kitchen Faucet with Lever Handle Satin Stainless Steel. Faucet has a flow rate of 1.5 GPM, and is made of Stainless Steel material, with a Ceramic Disc valve. Faucet requires 1 faucet holes.

Mounting Type:	Deck Mount
Special Features:	Low Flow
Finish:	Satin Stainless Steel (SSS)
Handle Type:	Lever Handle
Deck Clearance:	7-3/4"
Spout Reach:	8"
Spout Height:	13-3/4"
Hole Drillings:	1
Material:	Stainless Steel
Valve Type:	Ceramic Disc
Valve Connection:	3/8" Female Compression Hose Assembly
Flow Rate:	1.5 GPM
Faucet Hole Size (min):	1-1/2"
Countertop Thickness:	2-1/2
Spout Swing Rotation:	360°
Spout Type:	Standard Spout



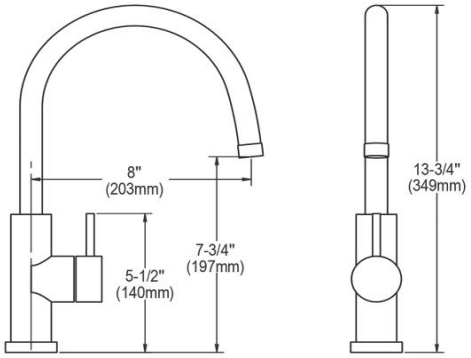


A Century of Tradition and Quality.
For more than 100 years, Elkay has been making innovative products and providing exceptional customer care. We take pride in offering plumbing products that make life easier, inspire change and leave the world a better place.

Product Compliance: ADA & ICC A117.1
ASME A112.18.1/CSA B125.1
CEC
NSF 372 (lead free)
NSF 61 (Q≤1)

Complies with ADA & ICC A117.1 accessibility requirements when installed according to the requirements outlined in these standards.

Clean and Care Manual (PDF)
Installation Instructions (PDF) - P99032_LK7921_7922
Warranty (PDF)

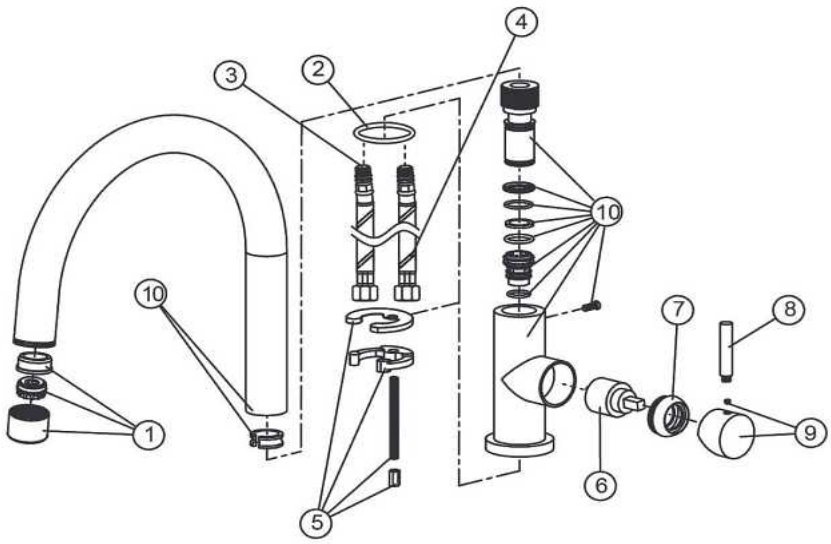


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PROJECT:_____
CONTACT:_____
DATE:_____
NOTES:_____
APPROVAL:_____

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ELKAY®
SPECIFICATIONS

Allure Single Hole Kitchen Faucet with Lever Handle Satin Stainless Steel
Model(s) LK7921SSS



ITEM	Part No.	DESCRIPTION
1	M7900	Aerator
2	LK7900XX	O-Ring
3	LK7900X5H	Supply Hose (Hot)
4	LK7900X5C	Supply Hose (Cold)
5	LK7900X7	HW Kit
6	LK7921X9	Cartridge
7	LK79009A	Cartridge Nut
8	LK7900X1A	Handle
9	LK7900X1B	Handle Base
10	N/A	Spout Assembly

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McGuire Manufacturing Co., Inc.
60 Grandview Court
Cheshire, Connecticut 06410
(203) 699-1801 Fax (203) 699-1813
customerservice@mcguiremfg.com mcguiremfg.com

PRODUCT SPECIFICATION

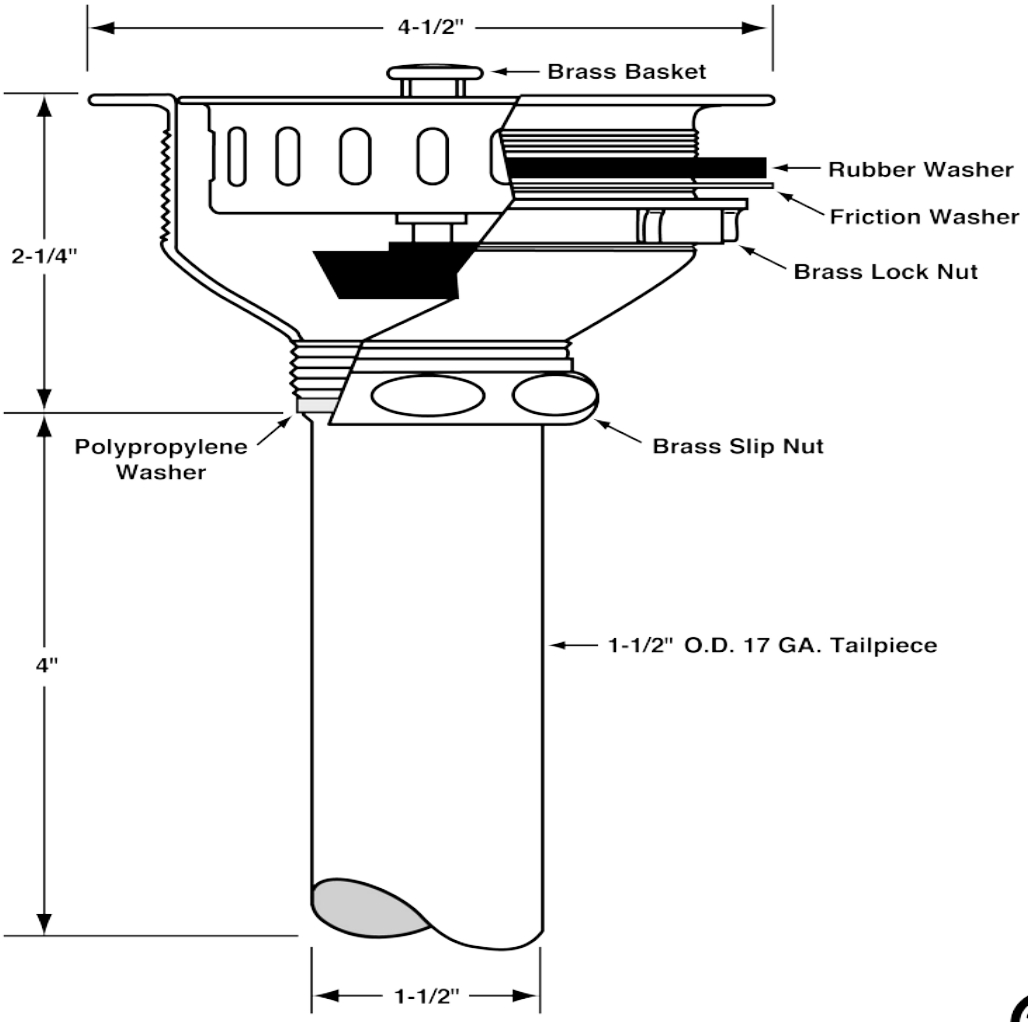
Part No.

151M

Brass Basket Strainer

Job Name:

Submittal Number:



ASME A112.18.2/CSA B125.2

See options and accessories section for details on product variations.

Specifications:

Heavy duty forged brass basket strainer with a polished and chrome plated brass strainer body, 1-1/2" x 4" seamless brass 17GA tailpiece, cast brass lock and coupling nuts. Fits sink thickness up to 5/8". Basket strainer in compliance with CSA or other recognized test authority and bear both manufacturer and testing mark.

WARNING:

This product can expose you to chemicals including lead, which is known to the State of California to cause cancer, and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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McGuire Manufacturing Co., Inc.
60 Grandview Court
Cheshire, Connecticut 06410
(203) 699-1801 Fax (203) 699-1813
customerservice@mcguiremfg.com mcguiremfg.com

PRODUCT SPECIFICATION

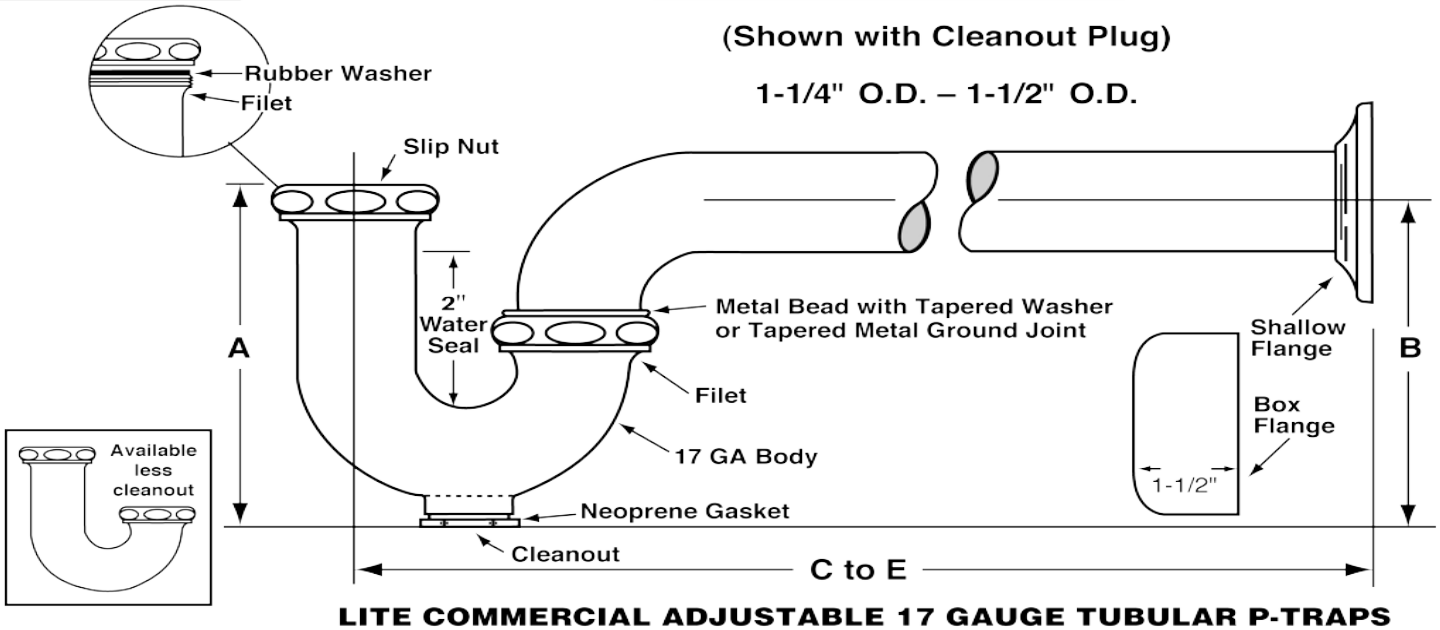
Part No.

MCT150 Series

Lite Commercial 17 GA Tubular P-Trap

Job Name:

Submittal Number:



LITE COMMERCIAL ADJUSTABLE 17 GAUGE TUBULAR P-TRAPS

Roughing Measurements

Model No.	INLET	OUTLET	A	B	C to E	Flange	Slip Nut
MCT150090B	1-1/2", 1-1/4"	1-1/2"	5-1/4"	5"	12"	Box	Brass
MCT150075ZN	1-1/2", 1-1/4"	1-1/2"	5-1/2"	5"	10-1/2"	Shallow	Zinc
MCT150075NCZN	1-1/2", 1-1/4"	1-1/2"	5"	4-3/4"	11"	Shallow	Zinc
MCT150090NCB	1-1/2", 1-1/4"	1-1/2"	5-1/4"	4-1/2"	12-1/4"	Box	Brass
MCT150090NCGJB	1-1/2", 1-1/4"	1-1/2"	5-1/4"	4-3/4"	12-1/4"	Box	Brass
MCT150090NCGJ	1-1/2", 1-1/4"	1-1/2"	5-1/4"	5"	12-1/4"	Shallow	Brass
MCT150150B	1-1/2", 1-1/4"	1-1/2"	5-1/4"	5"	18"	Box	Brass

Suffix Designations
NC = No Cleanout Plug
GJ = Ground Joint Wall Bend

AND/OR

ASME A112.18.2/CSA B125.2

Specifications:

P-Trap shall be 17 gauge seamless chrome plated tubular brass with wall bend and flange.

WARNING:
This product can expose you to chemicals including lead, which is known to the State of California to cause cancer, and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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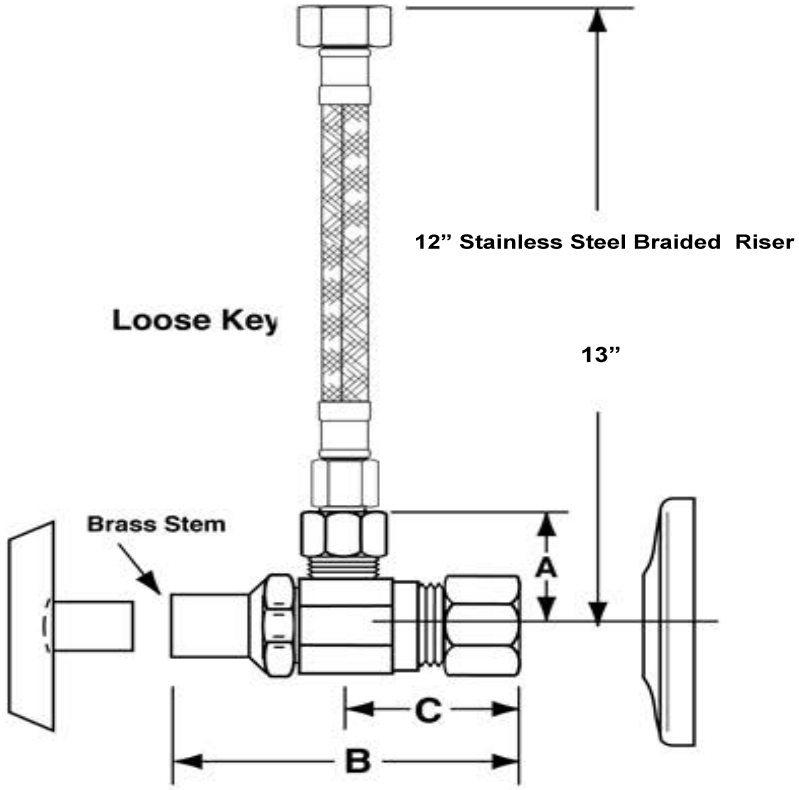
McGuire Manufacturing Co., Inc.
60 Grandview Court
Cheshire, Connecticut 06410
(203) 699-1801 Fax (203) 699-1813
customerservice@mcguiremfg.com mcguiremfg.com

PRODUCT SPECIFICATION

Part No.
LF2165CCLKSS12ECO

Compression x Compression Lavatory Supply

Job Name: **Submittal Number:**



NO.	DESCRIPTION	ROUGHING MEASUREMENTS		
		A	B	C
LF2165CCLKSS12ECO	1/2" Nominal x 3/8" O.D.	1"	2-3/8"	1"

- Rated Operating Pressure: 20-125 PSI
- Rated Operating Temperature: 40-140ºF
- Note: 180°F max. during temporary high-temperature system flush

LK designates Loose Key

* See options and accessories section for details on product variations.

NSF UPC ASME A112.18.1

Specifications:

Supply kit shall include lead free chrome plated supply brass stop valves with full turn brass stem, no plastic, 12 inch stainless steel braided risers and shallow steel flange. Inlet shall be 1/2 inch compression. Outlet shall be 3/8 inch compression. Supply kit shall be certified by recognized authority and bear manufacturer and testing mark.

WARNING:
This product can expose you to chemicals including lead, which is known to the State of California to cause cancer, and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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Model ZW3870XLT

Aqua-Gard® Thermostatic Mixing Valve

Application

Ideal for use where Lead Free* valves are required. The Zurn Wilkins Model ZW3870XLT Aqua-Gard® Thermostatic mixing valve is designed to be installed at the point of use under sinks and sensor faucets to assist in the prevention of scalding. The valves rapid response and precise temperature control meet the stringent standards of ASSE 1070 listed for fixtures, sinks, lavatories or bathtubs. The ZW3870XLT will mix hot and cold water from the distribution system to a final safer temperature outlet range of 95-115F (35-46C). The 3/8" compression fittings make this valve ideal for residential and commercial applications. With a minimum flow rating of 0.06 GPM the valve will provide proper scald protection when used in conjunction with ultra low flow faucet aerators.



XL LEAD FREE

NSF/ANSI/CAN 61-9 Q≤1

Standards Compliance

- ASSE® Listed 1070
- cUPC® Listed
- CSA® Certified B125.70
- Meets the requirements of NSF/ANSI/CAN 61-9 Q≤1*

*(0.25% MAX. WEIGHTED AVERAGE LEAD CONTENT)

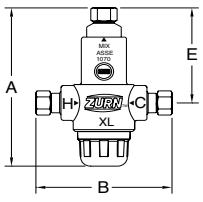
Features

Sizes:	3/8"
Chrome Plated	
Outlet Temp. Range	95-115°F(35-46°C)
Temperature Hot Supply	120-195°F max. (49-90.5°C)
Temperature Cold Supply	40-75°F(4.4-23.8°C)
Set Temperature Accuracy	+/- 3°F(1.78°C)
Max. Working Pressure (inlet)	145 psi
Temperature must be field set	
Max. Pressure Differential is 15 psi between Hot & Cold inlets	
Flow rate @ 45 psi pressure loss	3.10 gpm
Min. Flow Rate	0.06 gpm
Integral check valves and strainer screen on hot and cold supply	

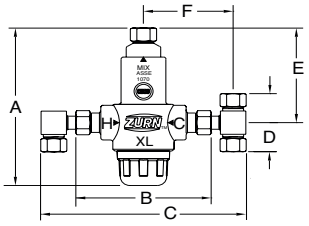
ZW3870XLT	3 PORT (1 Hot in, 1 Cold in, 1 Mixed out)
ZW3870XLT-4P	4 PORT (1 Hot in, 1 Cold in, 1 Cold out, 1 Mixed out.)

Materials

Body	Low Lead Cast Bronze ASTM B 584 w/Chrome Plating ASTM B 456 Service Condition #2
Internal brass	Low Lead Brass, ASTM B 927 UNS C27450
Piston	Polysufone
Guide Tube	Noryl GFN2
Spring	300 Series Stainless Steel
Seals	Viton
Checks	Acetal Co-Polymer



ZW3870XLT

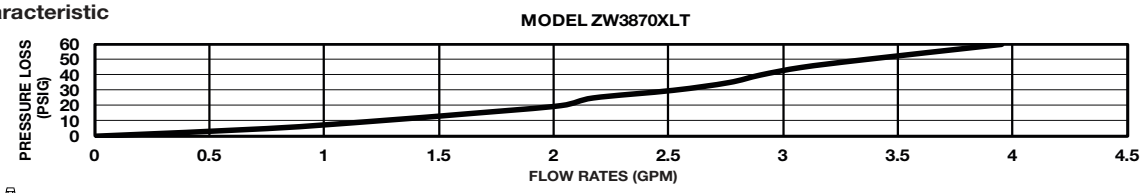


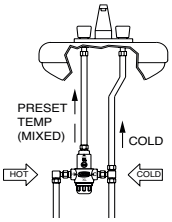
ZW3870XLT-4P

Dimensions & Weights (do not include pkg.)

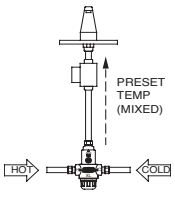
MODEL	SIZE		DIMENSIONS (approximate)												WEIGHT	
			A		B		C		D		E		F			
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kg.
ZW3870XLT	3/8	9.5	4 27/32	123	4 3/16	106.3	5 55/64	149	2 1/32	52	2 27/32	72.2	2 1/2	64	1.2	.6

Flow Characteristic





INDIVIDUAL USE ZW3870XLT-4P



SINGLE USE ZW3870XLT

Piping Instructions

The device is designed to be installed at a single outlet. It may be used to supply individual outlets when there is sufficient supply pressure. It is suggested to use ball valves on the hot and cold inlet supplies.

Zurn Industries, LLC | Wilkins
1747 Commerce Way, Paso Robles, CA U.S.A. 93446 Ph. 855-663-9876, Fax 805-238-5766
In Canada | **Zurn Industries Limited**
7900 Goreway Drive, Unit 10, Brampton, Ontario L6T 5W6, 877-892-5216
www.zurn.com

Rev. J
Date: 5/22
Document No. TMV-ZW3870XLT
Product No. Model ZW3870XLT
Patent zurn.com/patents

TRUEBRO IPS CORPORATION

LAV GUARD 2 FAST FIT UNDERSINK PIPING COVERS

ADA-compliant undersink protection

Submittal Sheet

General Description:

LAV GUARD® 2E-Z Series waste and supply piping covers satisfy ADA compliance requirements. Built-in E-Z Grip internal fasteners and internal, E-Z Tear-To-Fit trimming feature allow for fast installation without tools. Series #100 E-Z kits are designed to fit on all tubular and cast brass P-trap assemblies. Series #400 kits are the "original" LAV GUARD design and fit schedule 40 ABS and PVC P-trap assemblies — regardless of their geometry or rotational offset.Valve cover completely encloses angle valve and supply tube for both handled and keyed type water stops.

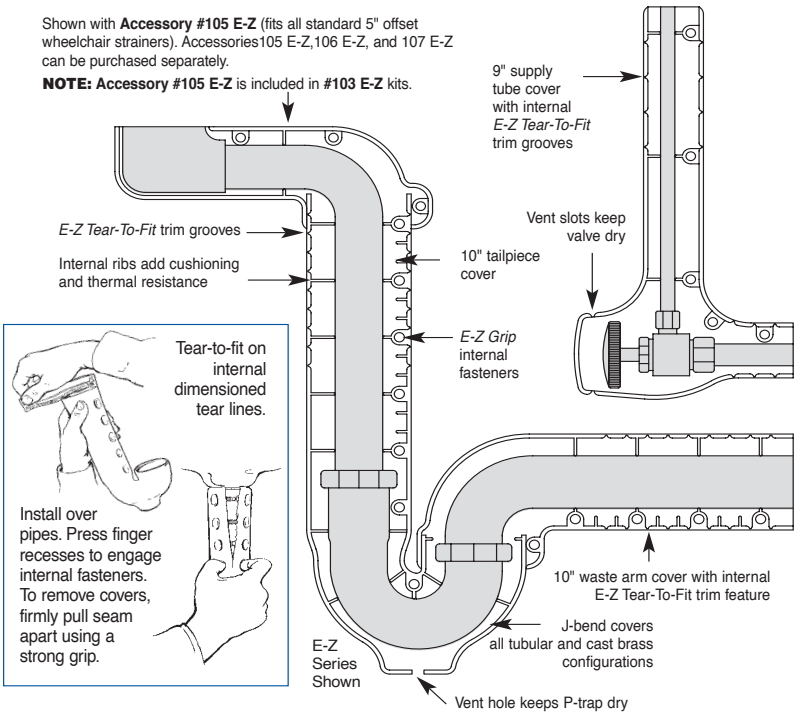
Material	Molded vinyl
Nominal Wall	1/8" constant
Durometer	70 - 80 - Shore A
UV Protection	Will not fade or discolor
Durability	Virtually indestructible
Trimming (E-Z Series)	Internal, *E-Z Tear-To-Fit* trim feature
Fasteners (E-Z Series)	Internal *E-Z Grip* fasteners (reusable)
Color	China white
Paintability	Apply Latex paint
Burning Characteristics ASTM D-635	Self extinguished 0 sec (ATB) 0 mm (AEB)
Bacteria/Fungus Resistance	ASTM G21 and G22/ Result: 0 growth
Maintenance	Use common detergents

Antimicrobial Vinyl Minimizes Maintainance

Lav Guard 2 is molded from impact-resistant, stain-resistant, antimicrobial vinyl. Its smooth surface makes it exceptionally easy to clean and maintain.

Manufactured under one or more of the following U.S. or Canadian patents. Other patents pending.

5,303,730 5,360,031 5,524,669 5,564,463 5,678,598 5,699,828 5,915,412 5,915,413 5,901,739 5,960,820 2,075,324 2,119,427 2,136,027 2,158,083



#100 E-Z Series *(shown above right) for tubular and cast brass P-trap assemblies.*
#400W* Series *(original design) for schedule 40 P-trap assemblies.*

☐ **Model #99 E-Z**
One angle valve and supply cover

☐ **Model #100 E-Z**
One P-trap cover

☐ **Model #400W***
One P-trap cover

☐ **Model #101 E-Z**
One P-trap cover, one angle valve cover

☐ **Model #401W***
One P-trap cover, one angle valve cover

☐ **Model #102 E-Z**
One P-trap cover, two angle valves and covers

☐ **Model #402W***
One P-trap cover, two angle valves and covers

☐ **Model #103 E-Z**
One P-trap cover, two angle valves and supply covers, one 5" offset tailpiece wheelchair strainer cover

☐ **Accessory #105 E-Z**
One 5" offset tailpiece wheelchair strainer assembly

*All #400W series items are the "original" LAV GUARD® design and construction. Specifications may change without notice.

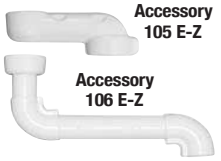
☐ **Accessory #105-K**
Kohler 6" offset

☐ **Accessory #106 E-Z**
One basket strainer cover and offset waste cover (adjustable to 18")

☐ **Accessory #107 E-Z**
Two basket strainer covers and center or end outlet waste cover (adjustable)

☐ **Accessory #Ex99 E-Z**
One 14" extension for water supply

☐ **Accessory #Ex100 E-Z**
One 14" extension for drain waste arm or tailpiece



Accessory 107 E-Z
(Configuration Options Shown)



IPS CORPORATION 500 Distribution Parkway, Collierville, TN 38017 ▪ Phone: 800-888-8312 ▪ Fax: 901-853-5008 ▪ www.ipscorp.com

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2.16 HIGHLANDS BUILDING ROGERS

Datasheets

S-4

ELKAY SPECIFICATIONS

Lustertone® Classic Stainless Steel 22" x 19-1/2" x 5-1/2" 5-Hole Single Bowl Drop-in ADA Sink
Model(s) LRAD221955

PRODUCT SPECIFICATIONS

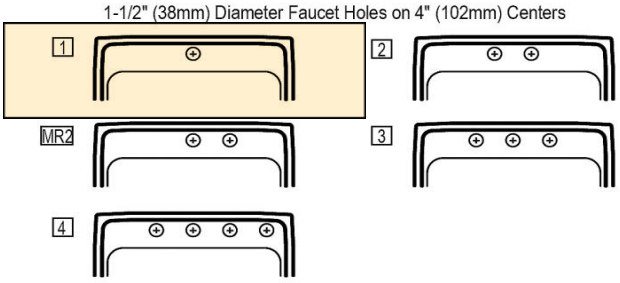
Lustertone® Classic Stainless Steel 22" x 19-1/2" x 5-1/2" 5-Hole Single Bowl Drop-in ADA Sink. Sink is manufactured from 18 gauge 304 Stainless Steel with a Lustrous Satin finish, Rear Center drain placement, and Bottom only pads.

Installation Type:	Drop-in
Material:	304 Stainless Steel
Finish:	Lustrous Satin
Gauge:	18
Sound Deadening:	Bottom only pads
Number of Bowls:	1
Sink Dimensions:	22" x 19-1/2" x 5-1/2"
Bowl 1 Dimensions:	18" x 14" x 5-3/8"
Drain Size:	3-1/2" (89mm)
Drain Location:	Rear Center
Minimum Cabinet Size:	27"
Mounting Hardware:	Part # 64090012 included for countertops up to 3/4" (19mm) thick
Template Included:	No
Cutout Template #:	1000001255

Template is available for download at elkay.com. CAD software will be required to open the template.

Cutout Dimensions for Drop-in Installation:
21-3/8" x 18-7/8" (543mm x 479mm) with 1-1/2" (38mm) corner radius

Hole Drilling Configurations:





A Century of Tradition and Quality.
For more than 100 years, Elkay has been making innovative products and providing exceptional customer care. We take pride in offering plumbing products that make life easier, inspire change and leave the world a better place.

KBB READERS' CHOICE AWARDS 2025 WINNER

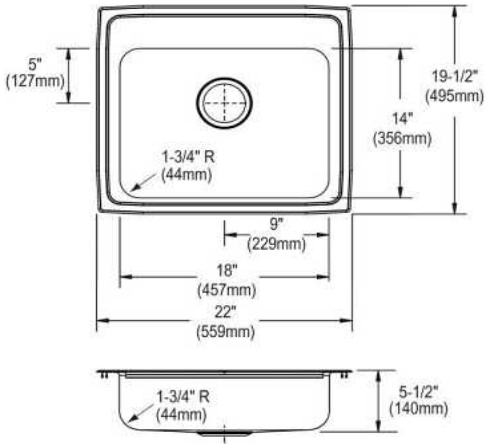
MADE IN USA

Product Compliance: ADA & ICC A117.1
ASME A112.19.3/CSA B45.4

Sinks are listed by IAPMO® as meeting the applicable requirements of the Uniform Plumbing Code®, International Plumbing Code®, and National Plumbing Code of Canada.

Complies with ADA & ICC A117.1 accessibility requirements when installed according to the requirements outlined in these standards.

Clean and Care Manual (PDF)
Installation Instructions (PDF) - 1000005236
Warranty (PDF)



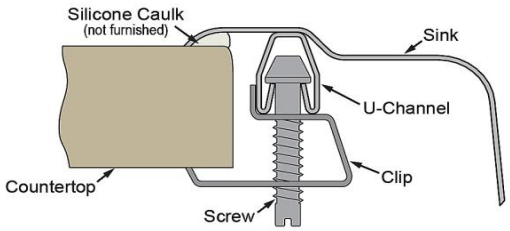
PART:_____QTY: _____
PROJECT:_____
CONTACT:_____
DATE:_____
NOTES:_____
APPROVAL:_____

In keeping with our policy of continuing product improvement, Elkay reserves the right to change product specifications without notice. Please visit elkay.com for the most current version of Elkay product specification sheets. This specification describes an Elkay product with design, quality, and functional benefits to the user. When making a comparison of other producers' offerings, be certain these features are not overlooked. Latest version of the spec sheet available: https://www.elkayfiles.com/spec-sheets/LRAD221955_spec.pdf

ELKAY SPECIFICATIONS

Lustertone® Classic Stainless Steel 22" x 19-1/2" x 5-1/2" 5-Hole Single Bowl Drop-in ADA Sink
Model(s) LRAD221955

Installation Profile:



Optional Accessories		
CBS1418	Hardwood 15" x 19" x 3/4" Cutting Board Spec Sheet (PDF)	
LK99	Deluxe 3-1/2" Drain Type 304 Stainless Steel Body Strainer Basket Rubber Seal and Tailpiece Spec Sheet (PDF)	
LKAD35	3-1/2" Drain Fitting" Stainless Steel Body Strainer Basket and Offset Tailpiece Spec Sheet (PDF)	
LKGT1041	Elkay Gourmet Single Hole Kitchen Faucet Pull-out Spray and Lever Handle with Hi and Mid-rise Base Options Spec_Sheet (PDF)	
LKWRB1418SS	Stainless Steel 13" x 17" x 7" Rinsing Basket Spec Sheet (PDF)	

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ELKAY®
SPECIFICATIONS

Allure Single Hole Kitchen Faucet with Lever Handle Satin Stainless Steel

Model(s) LK7921SSS

PRODUCT SPECIFICATIONS

Allure Single Hole Kitchen Faucet with Lever Handle Satin Stainless Steel. Faucet has a flow rate of 1.5 GPM, and is made of Stainless Steel material, with a Ceramic Disc valve. Faucet requires 1 faucet holes.

Mounting Type:	Deck Mount
Special Features:	Low Flow
Finish:	Satin Stainless Steel (SSS)
Handle Type:	Lever Handle
Deck Clearance:	7-3/4"
Spout Reach:	8"
Spout Height:	13-3/4"
Hole Drillings:	1
Material:	Stainless Steel
Valve Type:	Ceramic Disc
Valve Connection:	3/8" Female Compression Hose Assembly
Flow Rate:	1.5 GPM
Faucet Hole Size (min):	1-1/2"
Countertop Thickness:	2-1/2
Spout Swing Rotation:	360°
Spout Type:	Standard Spout


Satin Stainless Steel (SSS)

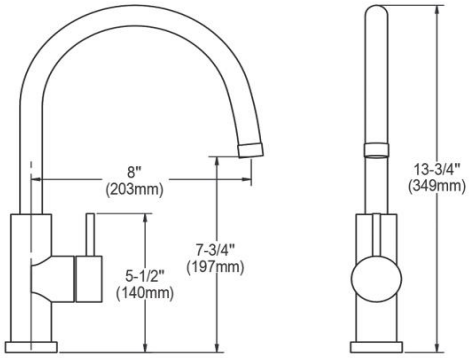


A Century of Tradition and Quality.
For more than 100 years, Elkay has been making innovative products and providing exceptional customer care. We take pride in offering plumbing products that make life easier, inspire change and leave the world a better place.

Product Compliance: ADA & ICC A117.1
ASME A112.18.1/CSA B125.1
CEC
NSF 372 (lead free)
NSF 61 (Q≤1)

Complies with ADA & ICC A117.1 accessibility requirements when installed according to the requirements outlined in these standards.

Clean and Care Manual (PDF)
Installation Instructions (PDF) - P99032_LK7921_7922
Warranty (PDF)

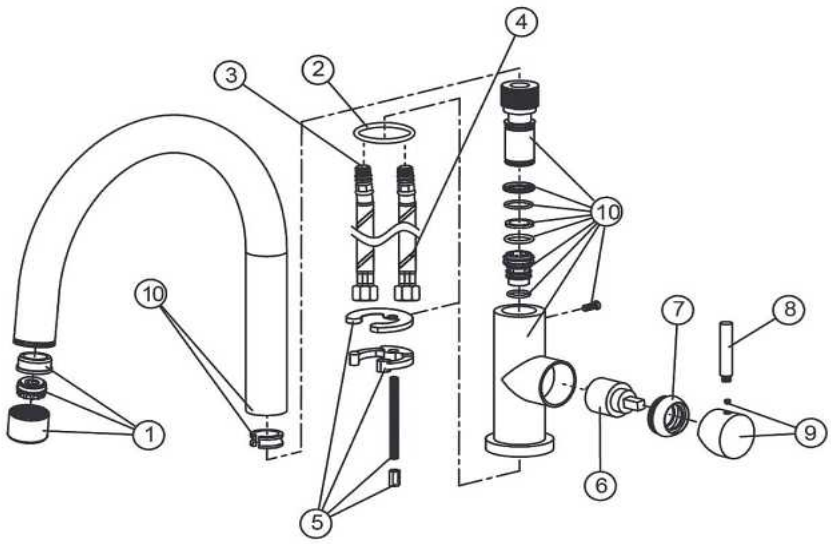


PART:_____QTY: _____
PROJECT:_____
CONTACT:_____
DATE:_____
NOTES:_____
APPROVAL:_____

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ELKAY®
SPECIFICATIONS

Allure Single Hole Kitchen Faucet with Lever Handle Satin Stainless Steel
Model(s) LK7921SSS



ITEM	Part No.	DESCRIPTION
1	M7900	Aerator
2	LK7900XX	O-Ring
3	LK7900X5H	Supply Hose (Hot)
4	LK7900X5C	Supply Hose (Cold)
5	LK7900X7	HW Kit
6	LK7921X9	Cartridge
7	LK79009A	Cartridge Nut
8	LK7900X1A	Handle
9	LK7900X1B	Handle Base
10	N/A	Spout Assembly

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McGuire Manufacturing Co., Inc.
60 Grandview Court
Cheshire, Connecticut 06410
(203) 699-1801 Fax (203) 699-1813
customerservice@mcguiremfg.com mcguiremfg.com

PRODUCT SPECIFICATION

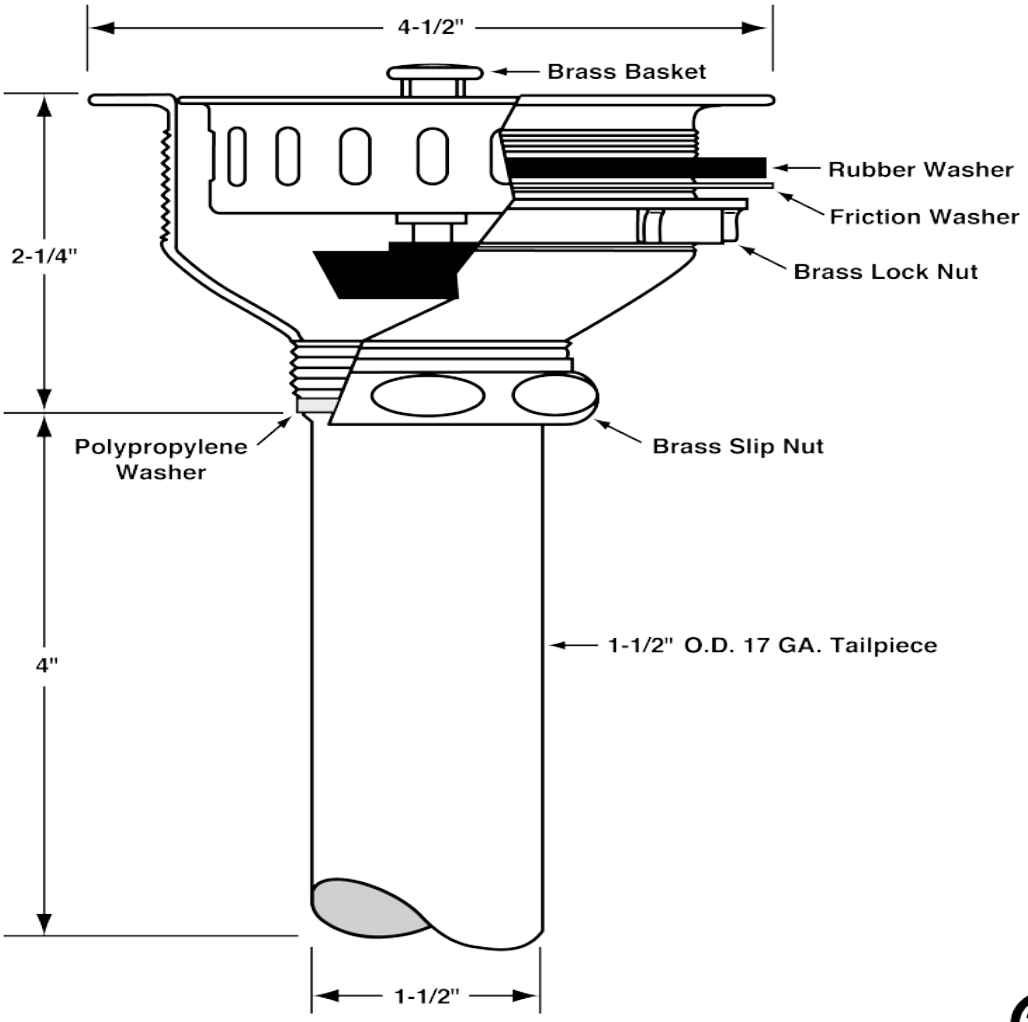
Part No.

151M

Brass Basket Strainer

Job Name:

Submittal Number:



ASME A112.18.2/CSA B125.2

See options and accessories section for details on product variations.

Specifications:

Heavy duty forged brass basket strainer with a polished and chrome plated brass strainer body, 1-1/2" x 4" seamless brass 17GA tailpiece, cast brass lock and coupling nuts. Fits sink thickness up to 5/8". Basket strainer in compliance with CSA or other recognized test authority and bear both manufacturer and testing mark.

WARNING:

This product can expose you to chemicals including lead, which is known to the State of California to cause cancer, and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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McGuire Manufacturing Co., Inc.
60 Grandview Court
Cheshire, Connecticut 06410
(203) 699-1801 Fax (203) 699-1813
customerservice@mcguiremfg.com mcguiremfg.com

PRODUCT SPECIFICATION

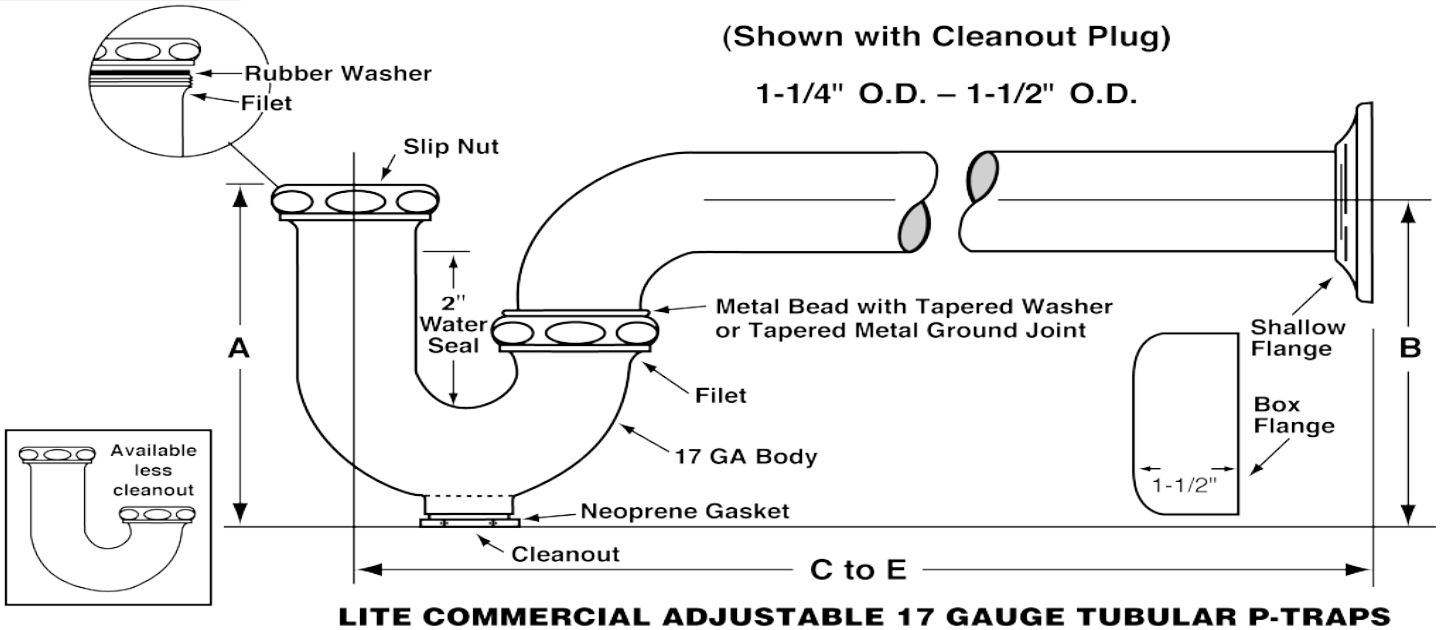
Part No.

MCT150 Series

Lite Commercial 17 GA Tubular P-Trap

Job Name:

Submittal Number:



LITE COMMERCIAL ADJUSTABLE 17 GAUGE TUBULAR P-TRAPS

Roughing Measurements

Model No.	INLET	OUTLET	A	B	C to E	Flange	Slip Nut
MCT150090B	1-1/2", 1-1/4"	1-1/2"	5-1/4"	5"	12"	Box	Brass
MCT150075ZN	1-1/2", 1-1/4"	1-1/2"	5-1/2"	5"	10-1/2"	Shallow	Zinc
MCT150075NCZN	1-1/2", 1-1/4"	1-1/2"	5"	4-3/4"	11"	Shallow	Zinc
MCT150090NCB	1-1/2", 1-1/4"	1-1/2"	5-1/4"	4-1/2"	12-1/4"	Box	Brass
MCT150090NCGJB	1-1/2", 1-1/4"	1-1/2"	5-1/4"	4-3/4"	12-1/4"	Box	Brass
MCT150090NCGJ	1-1/2", 1-1/4"	1-1/2"	5-1/4"	5"	12-1/4"	Shallow	Brass
MCT150150B	1-1/2", 1-1/4"	1-1/2"	5-1/4"	5"	18"	Box	Brass

Suffix Designations
NC = No Cleanout Plug
GJ = Ground Joint Wall Bend

AND/OR

ASME A112.18.2/CSA B125.2

Specifications:

P-Trap shall be 17 gauge seamless chrome plated tubular brass with wall bend and flange.

WARNING:
This product can expose you to chemicals including lead, which is known to the State of California to cause cancer, and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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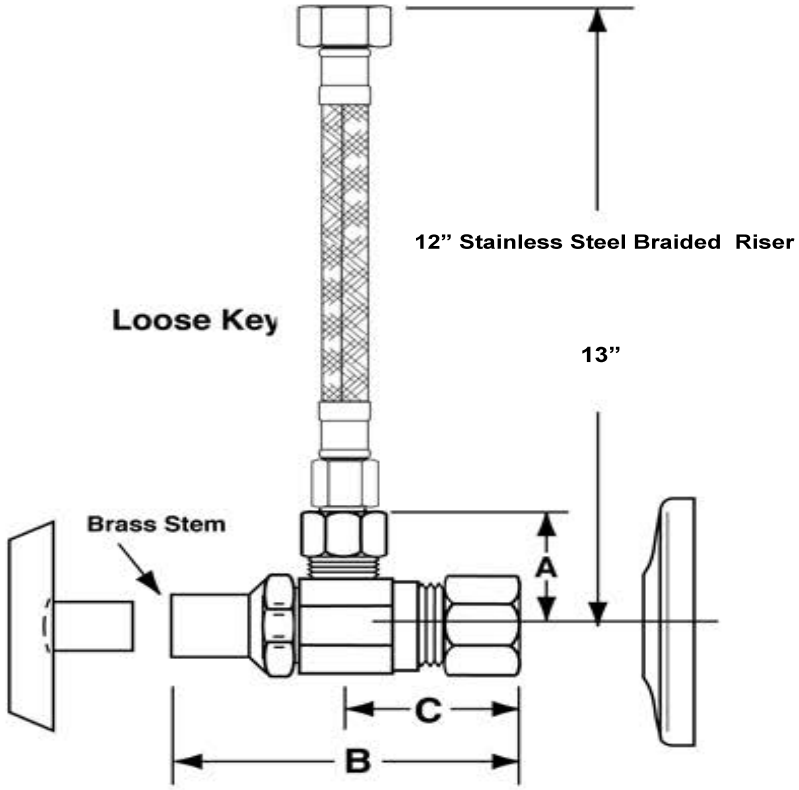
McGuire Manufacturing Co., Inc.
60 Grandview Court
Cheshire, Connecticut 06410
(203) 699-1801 Fax (203) 699-1813
customerservice@mcguiremfg.com mcguiremfg.com

PRODUCT SPECIFICATION

Part No.
LF2165CCLKSS12ECO

Compression x Compression Lavatory Supply

Job Name: **Submittal Number:**



NO.	DESCRIPTION	ROUGHING MEASUREMENTS		
		A	B	C
LF2165CCLKSS12ECO	1/2" Nominal x 3/8" O.D.	1"	2-3/8"	1"

- Rated Operating Pressure: 20-125 PSI
- Rated Operating Temperature: 40-140ºF
- Note: 180°F max. during temporary high-temperature system flush

LK designates Loose Key

* See options and accessories section for details on product variations.

NSF UPC ASME A112.18.1

Specifications:

Supply kit shall include lead free chrome plated supply brass stop valves with full turn brass stem, no plastic, 12 inch stainless steel braided risers and shallow steel flange. Inlet shall be 1/2 inch compression. Outlet shall be 3/8 inch compression. Supply kit shall be certified by recognized authority and bear manufacturer and testing mark.

WARNING:
This product can expose you to chemicals including lead, which is known to the State of California to cause cancer, and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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Model ZW3870XLT

Aqua-Gard® Thermostatic Mixing Valve

Application

Ideal for use where Lead Free* valves are required. The Zurn Wilkins Model ZW3870XLT Aqua-Gard® Thermostatic mixing valve is designed to be installed at the point of use under sinks and sensor faucets to assist in the prevention of scalding. The valves rapid response and precise temperature control meet the stringent standards of ASSE 1070 listed for fixtures, sinks, lavatories or bathtubs. The ZW3870XLT will mix hot and cold water from the distribution system to a final safer temperature outlet range of 95-115F (35-46C). The 3/8" compression fittings make this valve ideal for residential and commercial applications. With a minimum flow rating of 0.06 GPM the valve will provide proper scald protection when used in conjunction with ultra low flow faucet aerators.



XL LEAD FREE

NSF/ANSI/CAN 61-9 Q≤1

Standards Compliance

- ASSE® Listed 1070
- cUPC® Listed
- CSA® Certified B125.70
- Meets the requirements of NSF/ANSI/CAN 61-9 Q≤1*

*(0.25% MAX. WEIGHTED AVERAGE LEAD CONTENT)

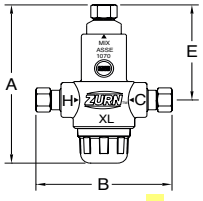
Features

Sizes:	3/8"
Chrome Plated	
Outlet Temp. Range	95-115°F(35-46°C)
Temperature Hot Supply	120-195°F max. (49-90.5°C)
Temperature Cold Supply	40-75°F(4.4-23.8°C)
Set Temperature Accuracy	+/- 3°F(1.78°C)
Max. Working Pressure (inlet)	145 psi
Temperature must be field set	
Max. Pressure Differential is 15 psi between Hot & Cold inlets	
Flow rate @ 45 psi pressure loss	3.10 gpm
Min. Flow Rate	0.06 gpm
Integral check valves and strainer screen on hot and cold supply	

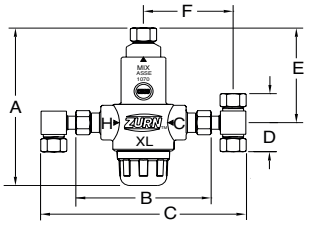
ZW3870XLT	3 PORT (1 Hot in, 1 Cold in, 1 Mixed out)
ZW3870XLT-4P	4 PORT (1 Hot in, 1 Cold in, 1 Cold out, 1 Mixed out.)

Materials

Body	Low Lead Cast Bronze ASTM B 584 w/Chrome Plating ASTM B 456 Service Condition #2
Internal brass	Low Lead Brass, ASTM B 927 UNS C27450
Piston	Polysufone
Guide Tube	Noryl GFN2
Spring	300 Series Stainless Steel
Seals	Viton
Checks	Acetal Co-Polymer



ZW3870XLT

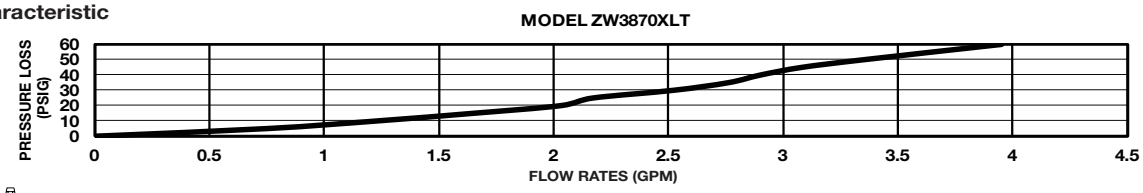


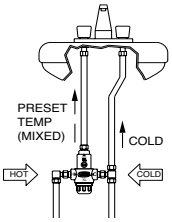
ZW3870XLT-4P

Dimensions & Weights (do not include pkg.)

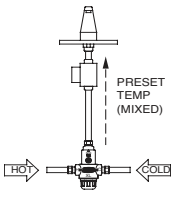
MODEL	SIZE		DIMENSIONS (approximate)												WEIGHT	
			A		B		C		D		E		F			
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kg.
ZW3870XLT	3/8	9.5	4 27/32	123	4 3/16	106.3	5 55/64	149	2 1/32	52	2 27/32	72.2	2 1/2	64	1.2	.6

Flow Characteristic





INDIVIDUAL USE ZW3870XLT-4P



SINGLE USE ZW3870XLT

Piping Instructions

The device is designed to be installed at a single outlet. It may be used to supply individual outlets when there is sufficient supply pressure. It is suggested to use ball valves on the hot and cold inlet supplies.

Zurn Industries, LLC | Wilkins
1747 Commerce Way, Paso Robles, CA U.S.A. 93446 Ph. 855-663-9876, Fax 805-238-5766
In Canada | **Zurn Industries Limited**
7900 Goreway Drive, Unit 10, Brampton, Ontario L6T 5W6, 877-892-5216
www.zurn.com

Rev. J
Date: 5/22
Document No. TMV-ZW3870XLT
Product No. Model ZW3870XLT
Patent zurn.com/patents

TRUEBRO IPS CORPORATION

LAV GUARD2 FAST FIT UNDERSINK PIPING COVERS

ADA-compliant undersink protection

Submittal Sheet

General Description:

LAV GUARD® 2E-Z Series waste and supply piping covers satisfy ADA compliance requirements. Built-in E-Z Grip internal fasteners and internal, E-Z Tear-To-Fit trimming feature allow for fast installation without tools. Series #100 E-Z kits are designed to fit on all tubular and cast brass P-trap assemblies. Series #400 kits are the "original" LAV GUARD design and fit schedule 40 ABS and PVC P-trap assemblies — regardless of their geometry or rotational offset.Valve cover completely encloses angle valve and supply tube for both handled and keyed type water stops.

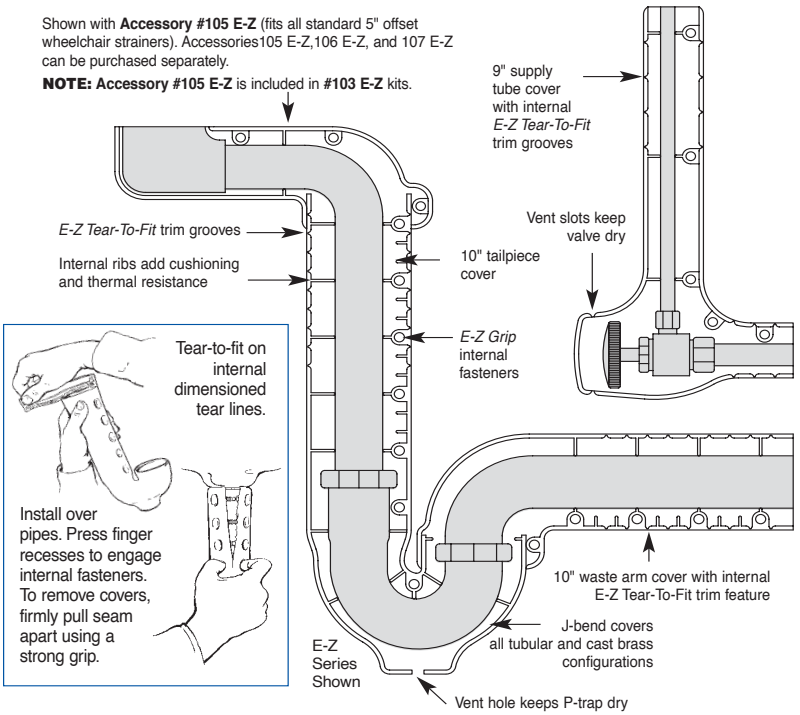
Material	Molded vinyl
Nominal Wall	1/8" constant
Durometer	70 - 80 - Shore A
UV Protection	Will not fade or discolor
Durability	Virtually indestructible
Trimming (E-Z Series)	Internal, *E-Z Tear-To-Fit* trim feature
Fasteners (E-Z Series)	Internal *E-Z Grip* fasteners (reusable)
Color	China white
Paintability	Apply Latex paint
Burning Characteristics ASTM D-635	Self extinguished 0 sec (ATB) 0 mm (AEB)
Bacteria/Fungus Resistance	ASTM G21 and G22/ Result: 0 growth
Maintenance	Use common detergents

Antimicrobial Vinyl Minimizes Maintainance

Lav Guard 2 is molded from impact-resistant, stain-resistant, antimicrobial vinyl. Its smooth surface makes it exceptionally easy to clean and maintain.

Manufactured under one or more of the following U.S. or Canadian patents. Other patents pending.

5,303,730 5,360,031 5,524,669 5,564,463 5,678,598 5,699,828 5,915,412 5,915,413 5,901,739 5,960,820 2,075,324 2,119,427 2,136,027 2,158,083



#100 E-Z Series *(shown above right) for tubular and cast brass P-trap assemblies.*
#400W* Series *(original design) for schedule 40 P-trap assemblies.*

☐ **Model #99 E-Z**
One angle valve and supply cover

☐ **Model #100 E-Z**
One P-trap cover

☐ **Model #400W***
One P-trap cover

☐ **Model #101 E-Z**
One P-trap cover, one angle valve cover

☐ **Model #401W***
One P-trap cover, one angle valve cover

☐ **Model #102 E-Z**
One P-trap cover, two angle valves and covers

☐ **Model #402W***
One P-trap cover, two angle valves and covers

☐ **Model #103 E-Z**
One P-trap cover, two angle valves and supply covers, one 5" offset tailpiece wheelchair strainer cover

☐ **Accessory #105 E-Z**
One 5" offset tailpiece wheelchair strainer assembly

*All #400W series items are the "original" LAV GUARD® design and construction. Specifications may change without notice.

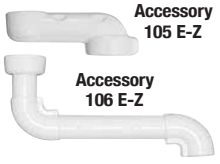
☐ **Accessory #105-K**
Kohler 6" offset

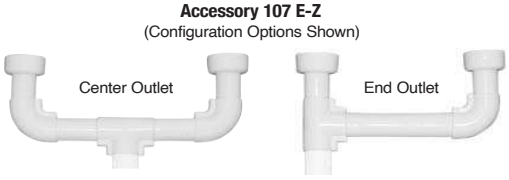
☐ **Accessory #106 E-Z**
One basket strainer cover and offset waste cover (adjustable to 18")

☐ **Accessory #107 E-Z**
Two basket strainer covers and center or end outlet waste cover (adjustable)

☐ **Accessory #Ex99 E-Z**
One 14" extension for water supply

☐ **Accessory #Ex100 E-Z**
One 14" extension for drain waste arm or tailpiece





IPS CORPORATION 500 Distribution Parkway, Collierville, TN 38017 ▪ Phone: 800-888-8312 ▪ Fax: 901-853-5008 ▪ www.ipscorp.com

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2.16 HIGHLANDS BUILDING ROGERS

Datasheets

S-5

ELKAY SPECIFICATIONS

Lustertone® Classic Stainless Steel 33" x 22" x 5-1/2" Equal Double Bowl Drop-in ADA Sink
Model(s) LRAD332255

PRODUCT SPECIFICATIONS

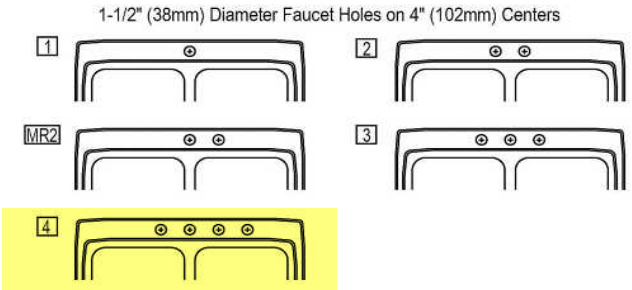
Lustertone® Classic Stainless Steel 33" x 22" x 5-1/2" Equal Double Bowl Drop-in ADA Sink. Sink is manufactured from 18 gauge 304 Stainless Steel with a Lustrous Satin finish, Rear Center drain placement, and Bottom only pads.

Installation Type:	Drop-in
Material:	304 Stainless Steel
Finish:	Lustrous Satin
Gauge:	18
Sound Deadening:	Bottom only pads
Number of Bowls:	2
Sink Dimensions:	33" x 22" x 5-1/2"
Bowl 1 Dimensions:	13-1/2" x 16" x 5-1/8"
Bowl 2 Dimensions:	13-1/2" x 16" x 5-1/8"
Drain Size:	3-1/2" (89mm)
Drain Location:	Rear Center
Minimum Cabinet Size:	36"
Mounting Hardware:	Part # 64090014 included for countertops up to 3/4" (19mm) thick
Template Included:	No
Cutout Template #:	1000001189

Template is available for download at elkay.com. CAD software will be required to open the template.

Cutout Dimensions for Drop-in Installation:
32-3/8" x 21-3/8" (822mm x 543mm) with 1-1/2" (38mm) corner radius

Hole Drilling Configurations:





A Century of Tradition and Quality.
For more than 100 years, Elkay has been making innovative products and providing exceptional customer care. We take pride in offering plumbing products that make life easier, inspire change and leave the world a better place.

KBB READERS' CHOICE AWARDS 2025 WINNER

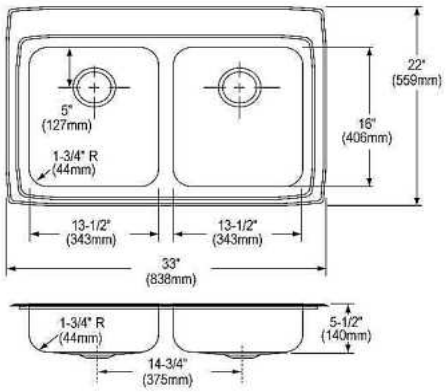
MADE IN USA

Product Compliance: ADA & ICC A117.1
ASME A112.19.3/CSA B45.4

Sinks are listed by IAPMO® as meeting the applicable requirements of the Uniform Plumbing Code®, International Plumbing Code®, and National Plumbing Code of Canada.

Complies with ADA & ICC A117.1 accessibility requirements when installed according to the requirements outlined in these standards.

Clean and Care Manual (PDF)
Installation Instructions (PDF) - 1000005236
Warranty (PDF)



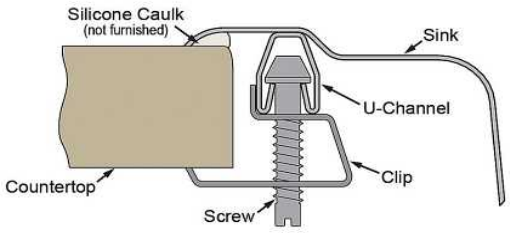
PART:_____QTY: _____
PROJECT:_____
CONTACT:_____
DATE:_____
NOTES:_____
APPROVAL:_____

In keeping with our policy of continuing product improvement, Elkay reserves the right to change product specifications without notice. Please visit elkay.com for the most current version of Elkay product specification sheets. This specification describes an Elkay product with design, quality, and functional benefits to the user. When making a comparison of other producers' offerings, be certain these features are not overlooked. Latest version of the spec sheet available: https://www.elkayfiles.com/spec-sheets/LRAD332255_spec.pdf

ELKAY SPECIFICATIONS

Lustertone® Classic Stainless Steel 33" x 22" x 5-1/2" Equal Double Bowl Drop-in ADA Sink
Model(s) LRAD332255

Installation Profile:



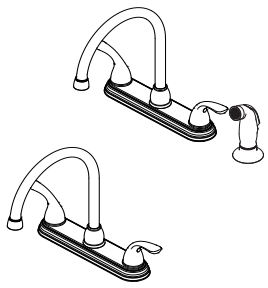
Optional Accessories		
LKWOBG1316SS	Stainless Steel 12-1/2" x 15" x 1" Bottom Grid Spec Sheet (PDF)	
CB1613	Hardwood 16-3/4" x 13-1/2" x 1" Cutting Board Spec Sheet (PDF)	
CB1713	Hardwood 13-1/2" x 17" x 1" Cutting Board Spec Sheet (PDF)	
CBS1316	Hardwood 14-1/2" x 17" x 3/4" Cutting Board Spec Sheet (PDF)	
LK99	Deluxe 3-1/2" Drain Type 304 Stainless Steel Body Strainer Basket Rubber Seal and Tailpiece Spec Sheet (PDF)	
LKAD35	3-1/2" Drain Fitting" Stainless Steel Body Strainer Basket and Offset Tailpiece Spec Sheet (PDF)	
LKWRB1316SS	Stainless Steel 12-1/2" x 15" x 7" Rinsing Basket Spec Sheet (PDF)	

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Pfirst Series™

Two Handle Kitchen Faucet

G136-2000 Finish(C) ❑ G136-5000 Finish(C) ❑
G136-200S Finish(S) ❑ G136-500S Finish(S) ❑



Specifications

Features

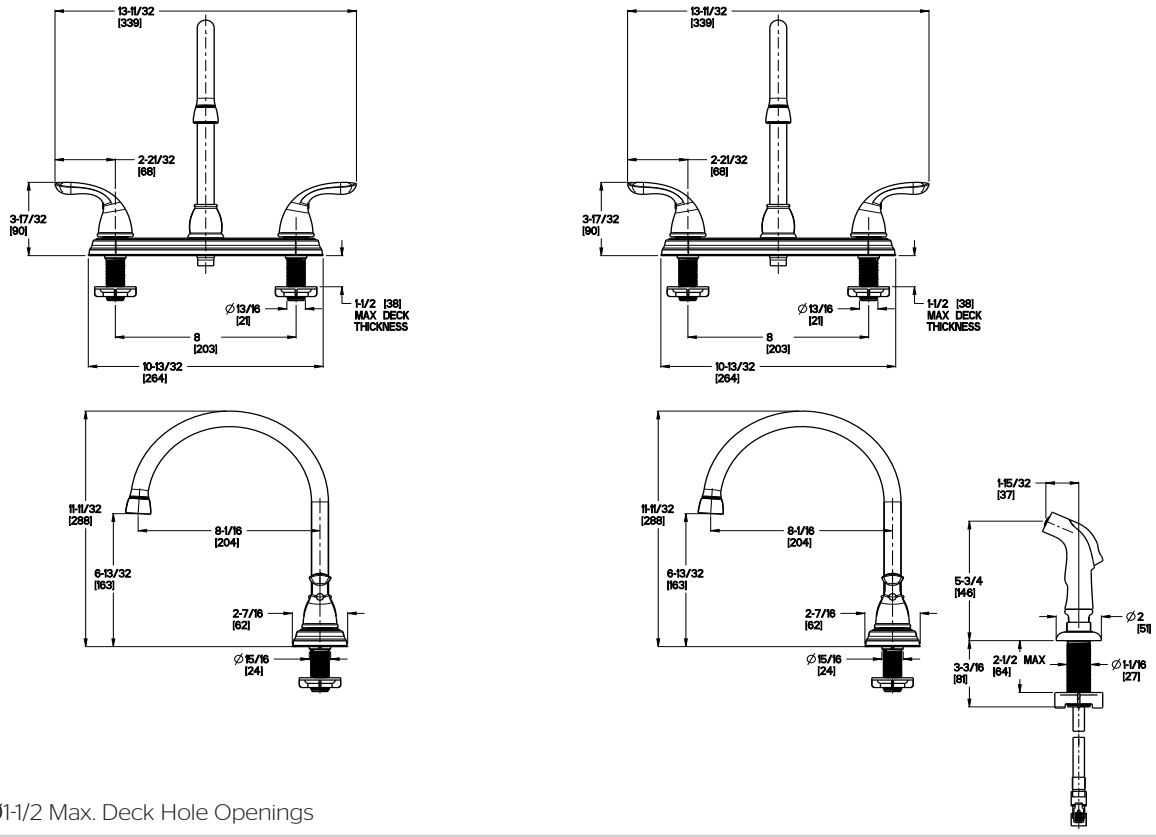
- 1.8 GPM Flow Rate
- Lever Handles
- 3-Hole Installation (200* Only)
- 4-Hole Installation (500* Only)
- High Arc Spout
- Includes Matching Side Spray (500* Only)
- Chrome Side Spray (5000 Only)
- Stainless Steel Side Spray (500S Only)
- Pforever Seal™ Ceramic Disc Valves
- Limited Lifetime Warranty

Code Compliance

Pfister products are designed and manufactured in compliance with the following standards and codes:

- IAPMO Certified to ASME A112.18.1/CSA B125.1 including:
  - ASME A112.18.3 (Backflow Prevention)
- NSF/ANSI/CAN61:Q≤1
- CEC Certified/CALGreen compliant
- ADA Compliant - ANSI A117.1 (Lever Handles Only)

Dimensions



Ø1-3/8 Min to Ø1-1/2 Max. Deck Hole Openings

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McGuire Manufacturing Co., Inc.
60 Grandview Court
Cheshire, Connecticut 06410
(203) 699-1801 Fax (203) 699-1813
customerservice@mcguiremfg.com mcguiremfg.com

PRODUCT SPECIFICATION

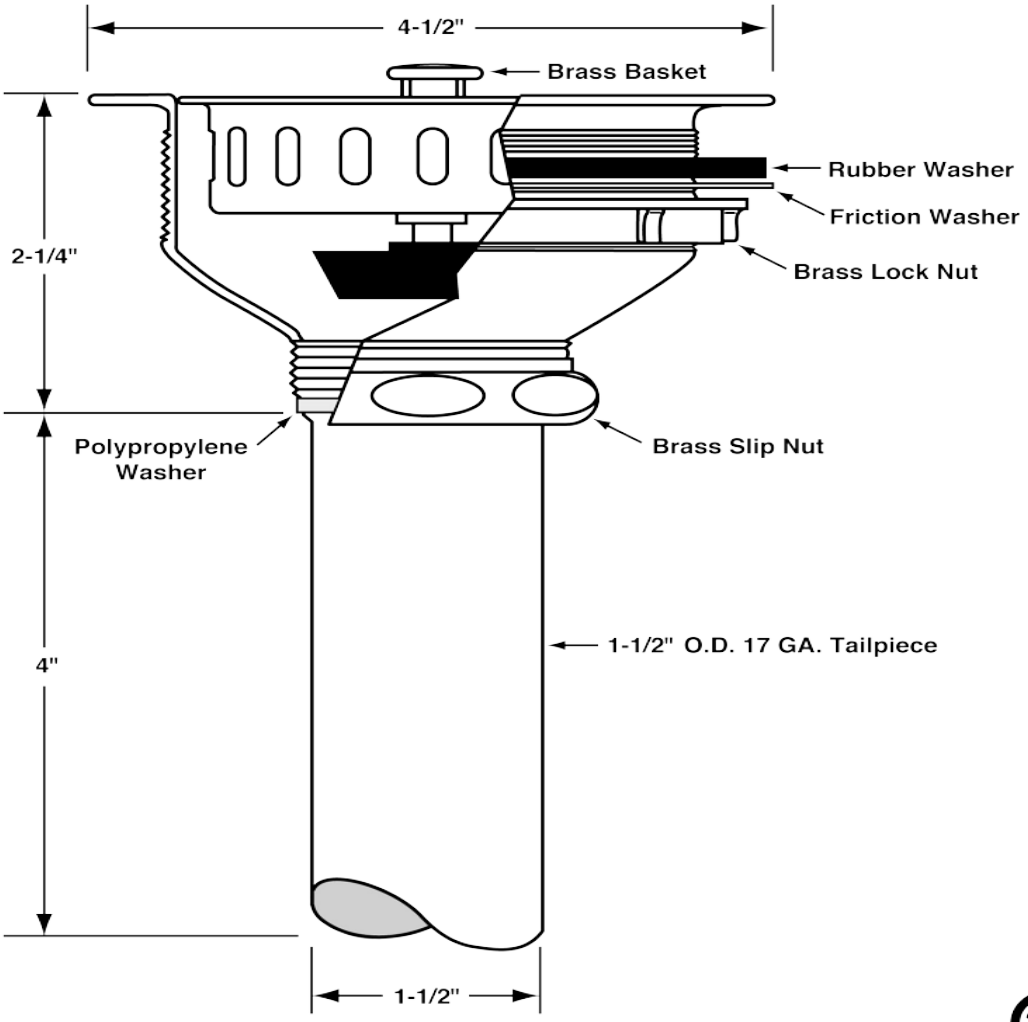
Part No.

151M

Brass Basket Strainer

Job Name:

Submittal Number:



ASME A112.18.2/CSA B125.2

See options and accessories section for details on product variations.

Specifications:

Heavy duty forged brass basket strainer with a polished and chrome plated brass strainer body, 1-1/2" x 4" seamless brass 17GA tailpiece, cast brass lock and coupling nuts. Fits sink thickness up to 5/8". Basket strainer in compliance with CSA or other recognized test authority and bear both manufacturer and testing mark.

WARNING:

This product can expose you to chemicals including lead, which is known to the State of California to cause cancer, and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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McGuire Manufacturing Co., Inc.
60 Grandview Court
Cheshire, Connecticut 06410
(203) 699-1801 Fax (203) 699-1813
customerservice@mcguiremfg.com mcguiremfg.com

PRODUCT SPECIFICATION

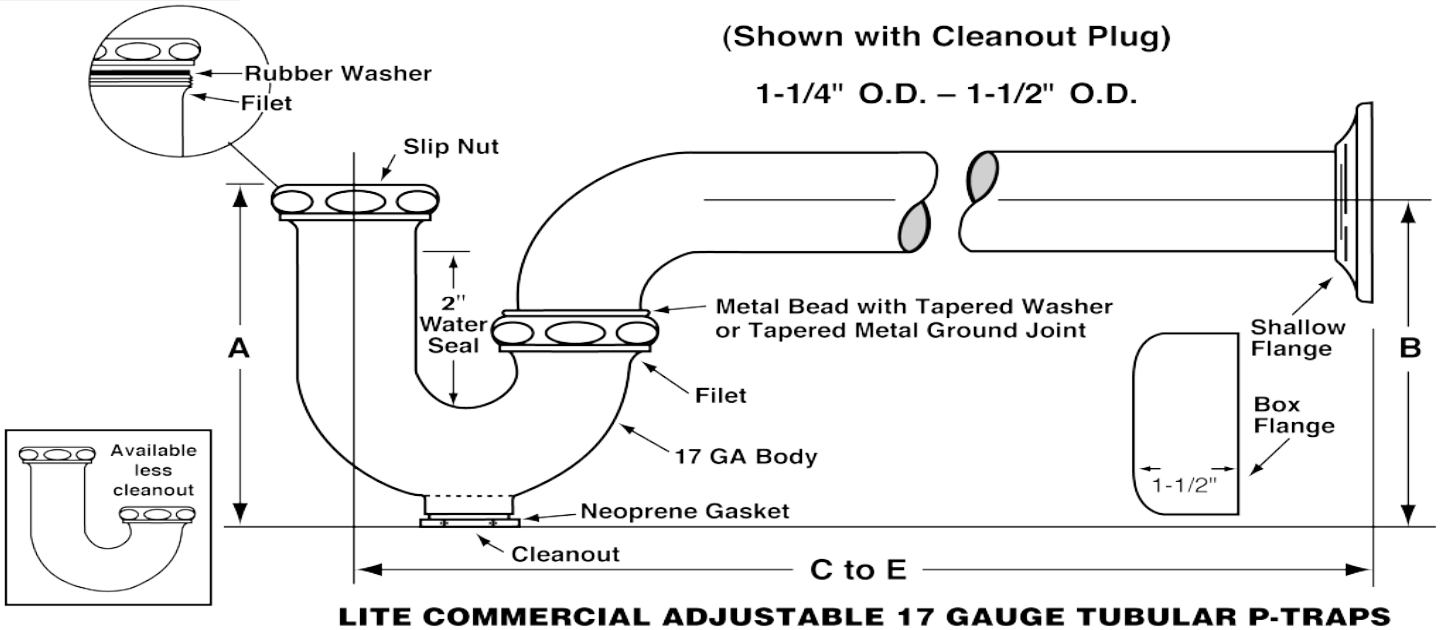
Part No.

MCT150 Series

Lite Commercial 17 GA Tubular P-Trap

Job Name:

Submittal Number:



LITE COMMERCIAL ADJUSTABLE 17 GAUGE TUBULAR P-TRAPS

Roughing Measurements

Model No.	INLET	OUTLET	A	B	C to E	Flange	Slip Nut
MCT150090B	1-1/2", 1-1/4"	1-1/2"	5-1/4"	5"	12"	Box	Brass
MCT150075ZN	1-1/2", 1-1/4"	1-1/2"	5-1/2"	5"	10-1/2"	Shallow	Zinc
MCT150075NCZN	1-1/2", 1-1/4"	1-1/2"	5"	4-3/4"	11"	Shallow	Zinc
MCT150090NCB	1-1/2", 1-1/4"	1-1/2"	5-1/4"	4-1/2"	12-1/4"	Box	Brass
MCT150090NCGJB	1-1/2", 1-1/4"	1-1/2"	5-1/4"	4-3/4"	12-1/4"	Box	Brass
MCT150090NCGJ	1-1/2", 1-1/4"	1-1/2"	5-1/4"	5"	12-1/4"	Shallow	Brass
MCT150150B	1-1/2", 1-1/4"	1-1/2"	5-1/4"	5"	18"	Box	Brass

Suffix Designations
NC = No Cleanout Plug
GJ = Ground Joint Wall Bend

AND/OR

ASME A112.18.2/CSA B125.2

Specifications:

P-Trap shall be 17 gauge seamless chrome plated tubular brass with wall bend and flange.

WARNING:
This product can expose you to chemicals including lead, which is known to the State of California to cause cancer, and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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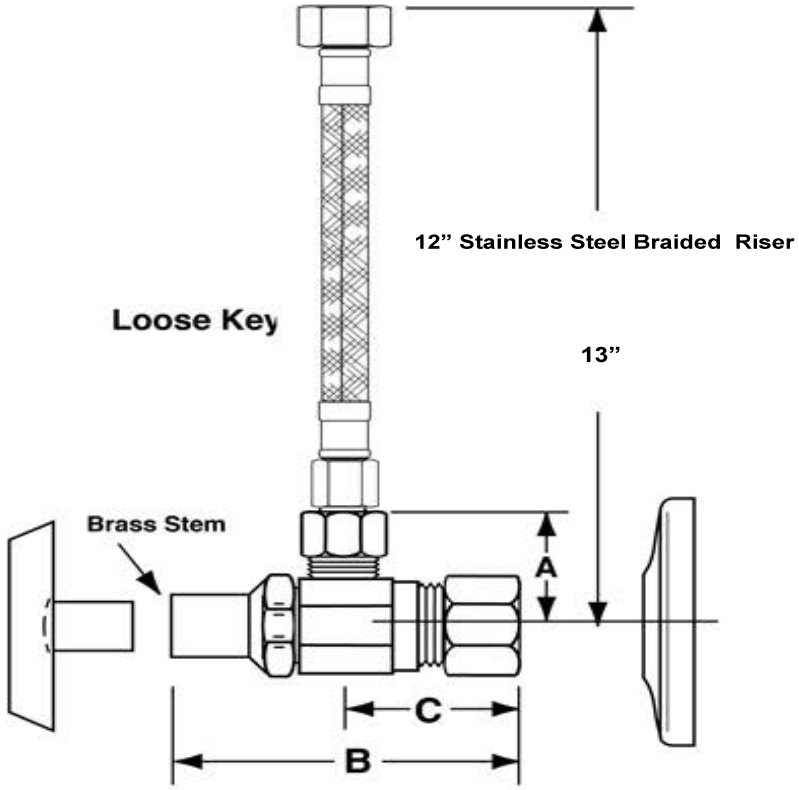
McGuire Manufacturing Co., Inc.
60 Grandview Court
Cheshire, Connecticut 06410
(203) 699-1801 Fax (203) 699-1813
customerservice@mcguiremfg.com mcguiremfg.com

PRODUCT SPECIFICATION

Part No.
LF2165CCLKSS12ECO

Compression x Compression Lavatory Supply

Job Name: **Submittal Number:**



NO.	DESCRIPTION	ROUGHING MEASUREMENTS		
		A	B	C
LF2165CCLKSS12ECO	1/2" Nominal x 3/8" O.D.	1"	2-3/8"	1"

- Rated Operating Pressure: 20-125 PSI
- Rated Operating Temperature: 40-140ºF
- Note: 180°F max. during temporary high-temperature system flush

LK designates Loose Key

* See options and accessories section for details on product variations.

NSF UPC ASME A112.18.1

Specifications:

Supply kit shall include lead free chrome plated supply brass stop valves with full turn brass stem, no plastic, 12 inch stainless steel braided risers and shallow steel flange. Inlet shall be 1/2 inch compression. Outlet shall be 3/8 inch compression. Supply kit shall be certified by recognized authority and bear manufacturer and testing mark.

WARNING:
This product can expose you to chemicals including lead, which is known to the State of California to cause cancer, and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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Model ZW3870XLT

Aqua-Gard® Thermostatic Mixing Valve

Application

Ideal for use where Lead Free* valves are required. The Zurn Wilkins Model ZW3870XLT Aqua-Gard® Thermostatic mixing valve is designed to be installed at the point of use under sinks and sensor faucets to assist in the prevention of scalding. The valves rapid response and precise temperature control meet the stringent standards of ASSE 1070 listed for fixtures, sinks, lavatories or bathtubs. The ZW3870XLT will mix hot and cold water from the distribution system to a final safer temperature outlet range of 95-115F (35-46C). The 3/8" compression fittings make this valve ideal for residential and commercial applications. With a minimum flow rating of 0.06 GPM the valve will provide proper scald protection when used in conjunction with ultra low flow faucet aerators.



XL LEAD FREE

NSF/ANSI/CAN 61-9 Q≤1

Standards Compliance

- ASSE® Listed 1070
- cUPC® Listed
- CSA® Certified B125.70
- Meets the requirements of NSF/ANSI/CAN 61-9 Q≤1*

*(0.25% MAX. WEIGHTED AVERAGE LEAD CONTENT)

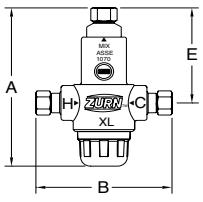
Features

Sizes:	3/8"
Chrome Plated	
Outlet Temp. Range	95-115°F(35-46°C)
Temperature Hot Supply	120-195°F max. (49-90.5°C)
Temperature Cold Supply	40-75°F(4.4-23.8°C)
Set Temperature Accuracy	+/- 3°F(1.78°C)
Max. Working Pressure (inlet)	145 psi
Temperature must be field set	
Max. Pressure Differential is 15 psi between Hot & Cold inlets	
Flow rate @ 45 psi pressure loss	3.10 gpm
Min. Flow Rate	0.06 gpm
Integral check valves and strainer screen on hot and cold supply	

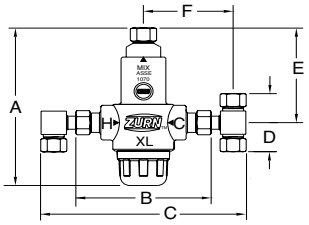
ZW3870XLT	3 PORT (1 Hot in, 1 Cold in, 1 Mixed out)
ZW3870XLT-4P	4 PORT (1 Hot in, 1 Cold in, 1 Cold out, 1 Mixed out.)

Materials

Body	Low Lead Cast Bronze ASTM B 584 w/Chrome Plating ASTM B 456 Service Condition #2
Internal brass	Low Lead Brass, ASTM B 927 UNS C27450
Piston	Polysufone
Guide Tube	Noryl GFN2
Spring	300 Series Stainless Steel
Seals	Viton
Checks	Acetal Co-Polymer



ZW3870XLT

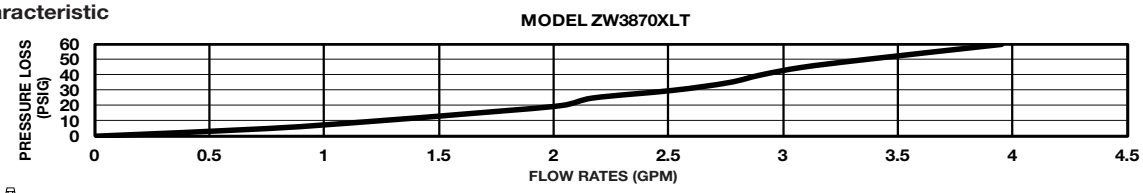


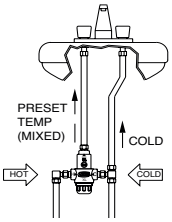
ZW3870XLT-4P

Dimensions & Weights (do not include pkg.)

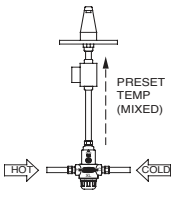
MODEL	SIZE		DIMENSIONS (approximate)												WEIGHT	
			A		B		C		D		E		F			
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kg.
ZW3870XLT	3/8	9.5	4 27/32	123	4 3/16	106.3	5 55/64	149	2 1/32	52	2 27/32	72.2	2 1/2	64	1.2	.6

Flow Characteristic





INDIVIDUAL USE ZW3870XLT-4P



SINGLE USE ZW3870XLT

Piping Instructions

The device is designed to be installed at a single outlet. It may be used to supply individual outlets when there is sufficient supply pressure. It is suggested to use ball valves on the hot and cold inlet supplies.

Zurn Industries, LLC | Wilkins
1747 Commerce Way, Paso Robles, CA U.S.A. 93446 Ph. 855-663-9876, Fax 805-238-5766
In Canada | **Zurn Industries Limited**
7900 Goreway Drive, Unit 10, Brampton, Ontario L6T 5W6, 877-892-5216
www.zurn.com

Rev. J
Date: 5/22
Document No. TMV-ZW3870XLT
Product No. Model ZW3870XLT
Patent zurn.com/patents

TRUEBRO IPS CORPORATION

LAV GUARD 2 FAST FIT UNDERSINK PIPING COVERS

ADA-compliant undersink protection

Submittal Sheet

General Description:

LAV GUARD® 2E-Z Series waste and supply piping covers satisfy ADA compliance requirements. Built-in E-Z Grip internal fasteners and internal, E-Z Tear-To-Fit trimming feature allow for fast installation without tools. Series #100 E-Z kits are designed to fit on all tubular and cast brass P-trap assemblies. Series #400 kits are the "original" LAV GUARD design and fit schedule 40 ABS and PVC P-trap assemblies — regardless of their geometry or rotational offset.Valve cover completely encloses angle valve and supply tube for both handled and keyed type water stops.

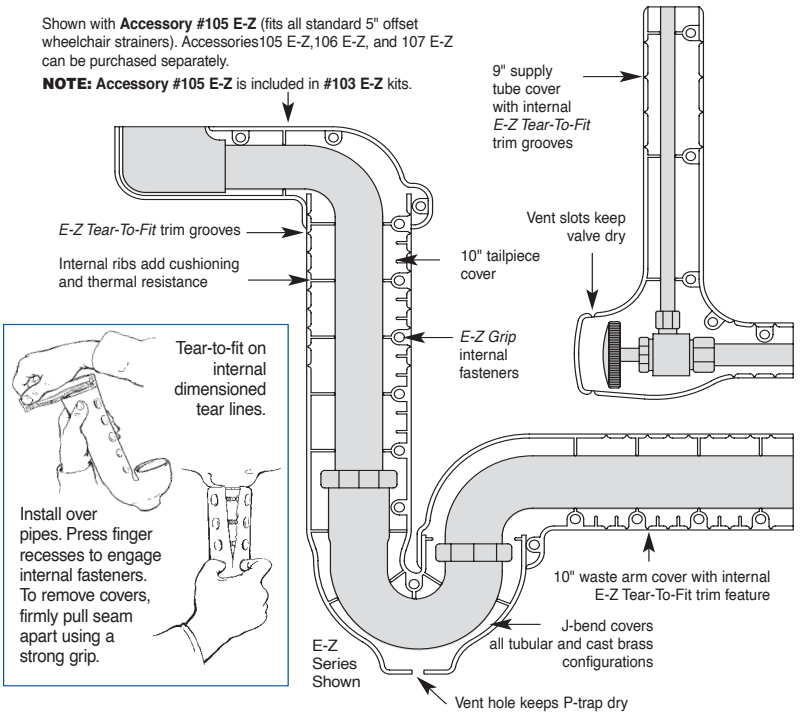
Material	Molded vinyl
Nominal Wall	1/8" constant
Durometer	70 - 80 - Shore A
UV Protection	Will not fade or discolor
Durability	Virtually indestructible
Trimming (E-Z Series)	Internal, *E-Z Tear-To-Fit* trim feature
Fasteners (E-Z Series)	Internal *E-Z Grip* fasteners (reusable)
Color	China white
Paintability	Apply Latex paint
Burning Characteristics ASTM D-635	Self extinguished 0 sec (ATB) 0 mm (AEB)
Bacteria/Fungus Resistance	ASTM G21 and G22/ Result: 0 growth
Maintenance	Use common detergents

Antimicrobial Vinyl Minimizes Maintainance

Lav Guard 2 is molded from impact-resistant, stain-resistant, antimicrobial vinyl. Its smooth surface makes it exceptionally easy to clean and maintain.

Manufactured under one or more of the following U.S. or Canadian patents. Other patents pending.

5,303,730 5,360,031 5,524,669 5,564,463 5,678,598 5,699,828 5,915,412 5,915,413 5,901,739 5,960,820 2,075,324 2,119,427 2,136,027 2,158,083



#100 E-Z Series *(shown above right) for tubular and cast brass P-trap assemblies.*
#400W* Series *(original design) for schedule 40 P-trap assemblies.*

☐ **Model #99 E-Z**
One angle valve and supply cover

☐ **Model #100 E-Z**
One P-trap cover

☐ **Model #400W***
One P-trap cover

☐ **Model #101 E-Z**
One P-trap cover, one angle valve cover

☐ **Model #401W***
One P-trap cover, one angle valve cover

☐ **Model #102 E-Z**
One P-trap cover, two angle valves and covers

☐ **Model #402W***
One P-trap cover, two angle valves and covers

☐ **Model #103 E-Z**
One P-trap cover, two angle valves and supply covers, one 5" offset tailpiece wheelchair strainer cover

☐ **Accessory #105 E-Z**
One 5" offset tailpiece wheelchair strainer assembly

*All #400W series items are the "original" LAV GUARD® design and construction. Specifications may change without notice.

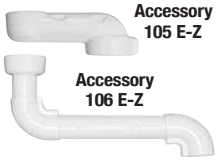
☐ **Accessory #105-K**
Kohler 6" offset

☐ **Accessory #106 E-Z**
One basket strainer cover and offset waste cover (adjustable to 18")

☐ **Accessory #107 E-Z**
Two basket strainer covers and center or end outlet waste cover (adjustable)

☐ **Accessory #Ex99 E-Z**
One 14" extension for water supply

☐ **Accessory #Ex100 E-Z**
One 14" extension for drain waste arm or tailpiece



Accessory 107 E-Z
(Configuration Options Shown)



IPS CORPORATION 500 Distribution Parkway, Collierville, TN 38017 ▪ Phone: 800-888-8312 ▪ Fax: 901-853-5008 ▪ www.ipscorp.com

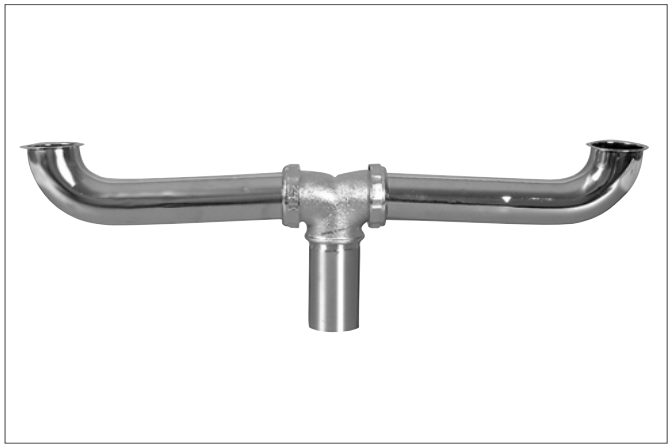
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CENTER OUTLET WASTE HI-LINE TECHNICAL SPECIFICATION

Job Name _____ Item # _____
Location _____
Engineer _____ Contractor _____
PO # _____ Tag _____
Representative _____

SPECIFICATIONS

Dearborn Brass 1-1/2" Brass Tubular Center Outlet Waste with Hi-Line Connection is designed for use in tubular drain applications. Available in 17, 20 or Budget Gauge Brass. Options include 16" or 21" lengths and Baffle Tee.



DESCRIPTION

- Chrome Finish
- Center Outlet Waste
  - (2) Waste Arms
  - (1) Tailpiece
  - (1) Twin Tee
  - (2) Zinc Nuts
  - (2) Rubber Washers

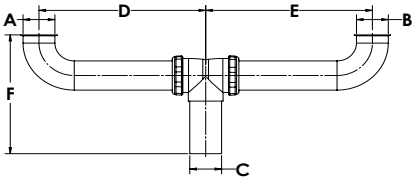
APPROVALS AND LISTINGS

PRODUCT SELECTOR

CENTER OUTLET WASTE HI-LINE

✓	Product Number	Size	Description	Carton Quantity
☐	2123A-1	1-½" x 16"	Center to Center, Hi-Line - Budget Gauge	5
☐	123A-1	1-½" x 16"	Center to Center, Hi-Line - 20 Gauge	5
☐	133A-1	1-½" x 16"	Center to Center, Hi-Line - 17 Gauge	5
☐	83A-1	1-½" x 16"	Center to Center, Hi-Line - 20 Gauge - with Baffle Tee	5

Data is subject to manufacturing tolerances.



DIMENSIONS

[A]:	Size A	1.50"	[D]:	Approximate Height	8.0"
[B]:	Size B	1.50"	[E]:	Approximate Height E	8.0"
[C]:	Length C	1.50"	[F]:	Approximate Height F	5.8"

Access BIM/Revit content through www.oatey.com

Oatey Co. | 20600 Emerald Parkway, Cleveland, OH 44135 | P: 1.800.321.9532 | **oatey.com**



2.16 HIGHLANDS BUILDING ROGERS

Datasheets

S-6

Job Name : 2.16 HIGHLANDS BUILDING ROGERS
Manufacturer : ELKAY
Model Number : EHS-18X

Type :

ELKAY®
SPECIFICATIONS

Stainless Steel 18" x 14-1/2" x 11" 18 Gauge Hand Sink with Faucet

Model(s) EHS-18X

PRODUCT SPECIFICATIONS

Stainless Steel 18" x 14-1/2" x 11" 18 Gauge Hand Sink with Faucet. Sink is manufactured from 18 gauge 304 Stainless Steel with a #4 Finish , Center drain placement.

Material:	304 Stainless Steel
Finish:	#4 Finish
Gauge:	18
Weight Without Packaging:	12.5
Number of Bowls:	1
Sink Dimensions:	18" x 14-1/2" x 11"
Bowl 1 Dimensions:	14" x 10" x 5"
Backsplash Height:	6
Drain Size:	1-1/2" (38mm)
Drain Location:	Center
Mounting Hardware:	Included

Special Note: Splash Mount, Goose Neck Faucet Included



Included with Product: **Faucet and strainer.**

A Century of Tradition and Quality.
For more than 100 years, Elkay has been making innovative products and providing exceptional customer care. We take pride in offering plumbing products that make life easier, inspire change and leave the world a better place.

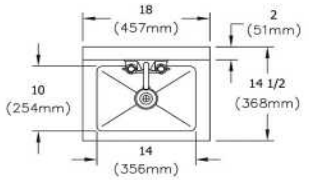
Product Compliance: ASME A112.19.3/CSA B45.4
NSF 2

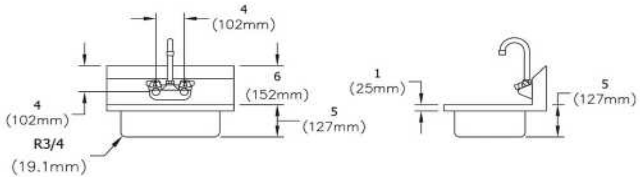
Faucet: ASME A112.18.1/CSA B125.1
NSF 372 (lead free)
NSF 61 (Q≤1)

Accessory: ASME A112.18.2/CSA B125.2

Sinks are listed by IAPMO® as meeting the applicable requirements of the Uniform Plumbing Code®, International Plumbing Code®, and National Plumbing Code of Canada.

Clean and Care Manual (PDF)
Installation Instructions (PDF) - 2000000714
Warranty (PDF)





PART:_____QTY: _____
PROJECT:_____
CONTACT:_____
DATE:_____
NOTES:_____
APPROVAL:_____

In keeping with our policy of continuing product improvement, Elkay reserves the right to change product specifications without notice. Please visit elkay.com for the most current version of Elkay product specification sheets. This specification describes an Elkay product with design, quality, and functional benefits to the user. When making a comparison of other producers' offerings, be certain these features are not overlooked.

model 7620

Faucet-Mounted Eyewash AXION® eyePOD®

FEATURES & BENEFITS

ACTIVATION

Easy one motion rotation (in either direction) to activate/deactivate the use of the unit.

THERMOSTATIC PROTECTION

Thermostatic protection that will protect the user from water over 100° F (37.8° C) by shutting off the eyewash.

INSTALLATION

Easy to install on a wide variety of sink faucets (not included) using a standard 55/64-27 thread stainless steel faucet connection, along with four additional adaptors provided (15/16-27 male, 13/16-27 male, 3/8-18 male and 13/16-24 female).

EYEWASH

AXION® eyePOD® eyewash head (patent pending) uses an inverted directional laminar flow to sweep contaminants away from the vulnerable nasal cavity.

FINISH

The stainless steel construction is rugged enough for any industrial application, and the polished surface is cosmetically suited for any professional office setting.

OPTIONS

For more information, visit www.hawsco.com or call (888) 640-4297.

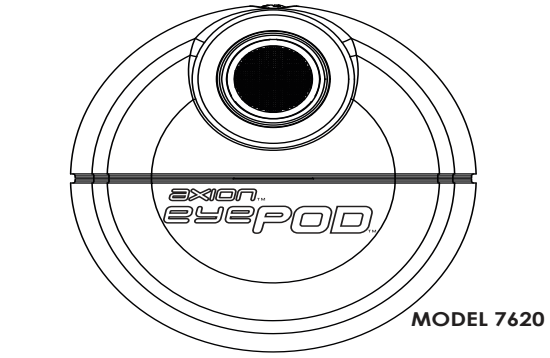


SPECIFICATIONS

Model 7620 AXION® eyePOD® faucet mounted eyewash (patent pending). Constructed of stainless steel with a polished finish, the unit shall feature inverted directional laminar flow which achieves zero vertical velocity supplied by an integral .9 gpm (3.4 L) flow control. The faucet outlet flows at .5 gpm (1.9 L). The standard faucet connection is 55/64-27 stainless steel female thread, along with four additional adapters; 15/16-27 male, 13/16-27 male, 3/8-18 male and 13/16-24 female. An optional 1 gpm (3.8 L) laminar flow faucet outlet is also supplied. A thermostatic shutoff is used for water temperatures over 100° F (37.8° C). Operating pressure; 30-90 psi (2.1 – 6.2 bar). Dim; Diameter 3.5 in. (8.9 cm), height (from top to faucet outlet) 2 in. (5 cm)

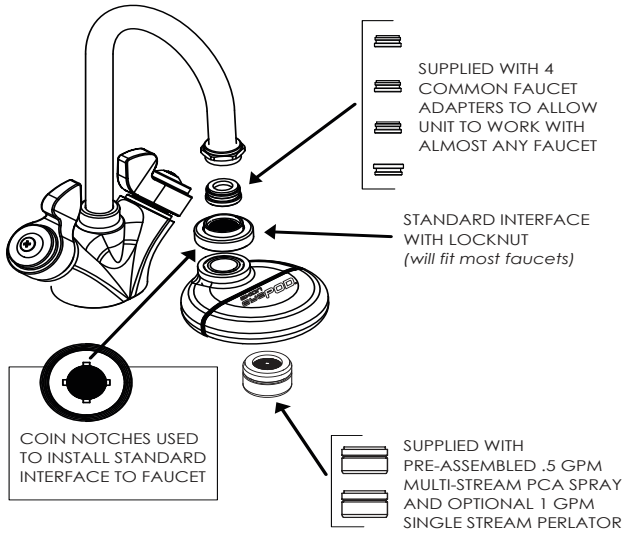
APPLICATIONS

Where safety is of the utmost importance and the eyes of any person may be exposed to injurious or corrosive materials, suitable facilities for quick flushing and cleansing of the eyes be provided within the work area for immediate emergency use. Model is Certified by CSA to meet the ANSI/ISEA Z358.1 (provided input water is within tepid temperature range) and ASME A112.18.1/CSA B125.1 standards for Emergency Eyewash and Shower Equipment. Haws manufactures products to be lead-free by all known definitions including NSF/ANSI/CSA 61-Section 9, NSF/ANSI/CSA 372, California Proposition 65, and the Federal Safe Drinking Water Act. Product is compliant to California Health and Safety Code 116875 (AB 1953-2006), and NSF/ANSI/CAN 61: Q ≤ 1. along with current Federal Regulations for the disabled including those in the Americans with Disabilities Act when properly installed on an ADA compliant faucet/sink with knee clearance installation.



MODEL 7620

HAWS CORPORATION
1455 KLEPPE LANE, SPARKS, NV 89431
775.359.4712 +1.888.640.4297
www.axion**eyepod**.com



EASY INSTALLATION

1. REMOVE AERATOR FROM YOUR FAUCET.
2. CHOOSE AND INSTALL THE APPROPRIATE ADAPTER BY THREADING IT ON TO YOUR FAUCET, IF NECESSARY. (THE STANDARD INTERFACE ON THE eyePOD™ WILL FIT MOST FAUCETS).
3. REMOVE LOCKNUT AND STANDARD INTERFACE AND INSTALL THEM ON TO YOUR FAUCET TOGETHER USING COIN SLOTS. A QUARTER WORKS WELL.
4. THREAD THE LOCKNUT BACK ONTO THE eyePOD™ MAKING SURE THAT THE eyePOD™ IS POSITIONED FACING FORWARD *(As shown in Faucet Mode)*.

NOTE: FAILURE TO INSTALL PROPERLY MAY AFFECT ITS PROPER FUNCTIONING.

INSTALLATION AND USE NOTES

1. THE eyePOD™ IS DESIGNED FOR AND SHOULD ONLY BE USED WITH WATER BETWEEN 60°F (15°C) AND 100°F (37°C). IF ABOVE 100°F (37°C) THE EYEWASH STREAMS WILL BE SHUT OFF BY INTERNAL THERMO-STATIC VALVE.

NOTE: USE OF THE PRODUCT WITH WATER OUTSIDE THE STATED TEMPERATURE RANGE MAY AFFECT ITS OPERATION AND RESULT IN A RISK OF SERIOUS BURNS OR REDUCE ITS EFFICIENCY.

2. THE eyePOD™ IS SELF DRAINING WHEN PLACED IN THE FAUCET MODE. IT SHOULD ALWAYS BE RETURNED TO THE FAUCET MODE AFTER EYEWASH USE TO ALLOW FOR DRAINAGE.

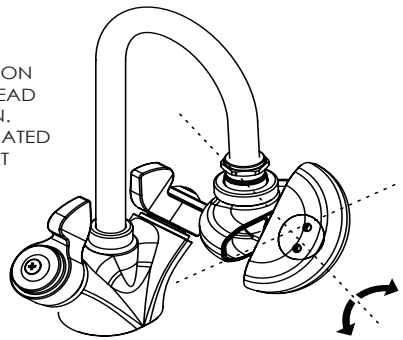
NOTE: WHEN INSTALLING THIS UNIT, LOCAL, STATE, OR FEDERAL CODES SHOULD BE ADHERED TO.

NOTE: ANSI Z358.1 COMPLIANT WHEN PROPERLY INSTALLED IN A WATER SYSTEM PROVIDING PROPER PRESSURE, VOLUME AND TEMPERATURE.

EASY TO USE ▬ TURN ON FAUCET AND SELECT MODE OF OPERATION

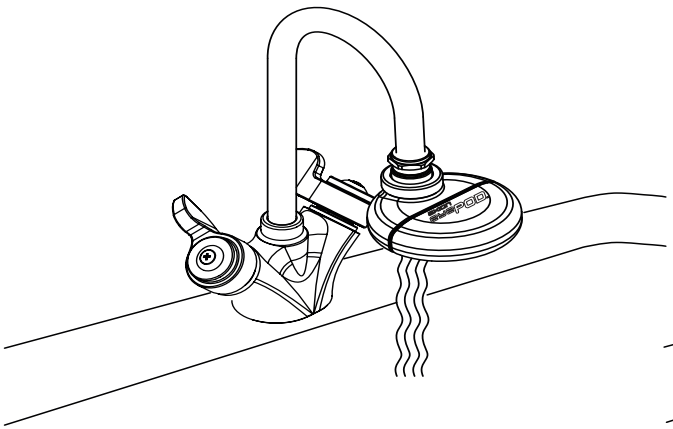
MODE SELECTION

THE eyePOD™ IS SWITCHED BETWEEN MODES OF OPERATION BY ROTATING THE HEAD IN EITHER DIRECTION. WATER IS STILL ACTUATED USING YOUR FAUCET CONTROLS.

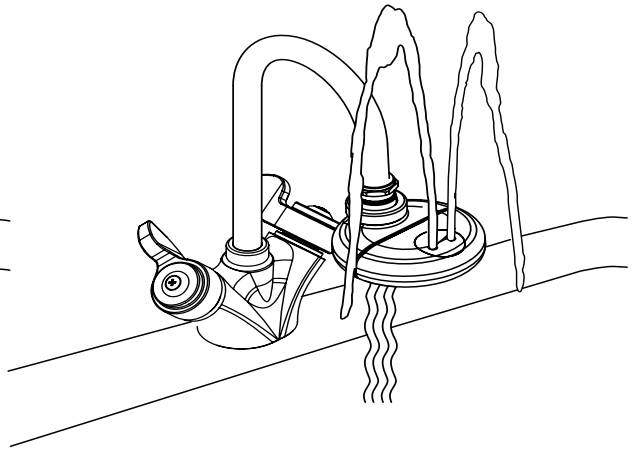


ROTATE IN EITHER DIRECTION

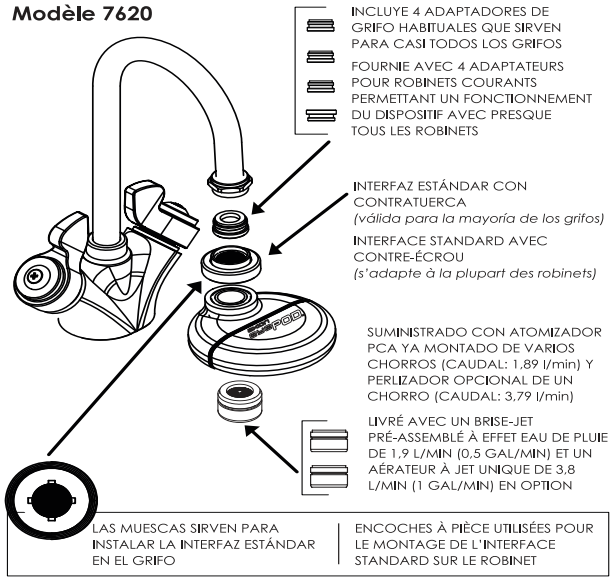
FAUCET MODE



EYEWASH MODE



Modelo 7620
Modèle 7620



INSTALACIÓN SENCILLA

1. EXTRAIGA EL AIREADOR DEL GRIFO.

2. ELIJA EL ADAPTADOR ADECUADO Y ENRÓSQUELO EN EL GRIFO PARA INSTALARLO, DE SER NECESARIO. (LA INTERFAZ ESTÁNDAR DEL eyePOD™ VALDRÁ PARA LA MAYORÍA DE LOS GRIFOS).

3. RETIRE LA CONTRATUERCA Y LA INTERFAZ ESTÁNDAR, E INSTÁLELAS EN EL GRIFO UTILIZANDO LAS MUESCAS. SE PUEDE UTILIZAR UNA MONEDA DEL TAMAÑO ADECUADO.

4. VUELVA A ENROSCAR LA CONTRATUERCA EN EL eyePOD™ CON CUIDADO DE QUE EL eyePOD™ ESTÉ ORIENTADO HACIA DELANTE *(como se muestra en el Modo Grifo)*

NOTA: EL MONTAJE INCORRECTO PUEDE AFECTAR AL FUNCIONAMIENTO.

NOTAS SOBRE LA INSTALACIÓN Y EL USO

1. EL eyePOD™ SE HA DISEÑADO PARA SU USO ÚNICAMENTE CON AGUA ENTRE 15 y 35°C. SI LA TEMPERATURA DEL AGUA ES MAYOR DE 35°C, UNA VÁLVULA TERMOSTÁTICA INTERNA CORTARÁ LOS CHORROS DE LAVADO.

NOTA: EL USO DE ESTE PRODUCTO CON AGUA A UNA TEMPERATURA FUERA DEL RANGO ESTABLECIDO PUEDE AFECTAR A SU FUNCIONAMIENTO, REDUCIR SU EFICIENCIA O CAUSAR QUEMADURAS GRAVES.

2. CUANDO SE ENCUENTRA EN EL MODO GRIFO, EL eyePOD™ DESAGUA AUTOMÁTICAMENTE. SE DEBE CAMBIAR SIEMPRE AL MODO GRIFO DESPUÉS DE LAVARSE LOS OJOS PARA PERMITIR EL DESAGÜE.

NOTA: AL INSTALAR LA UNIDAD, DEBEN CUMPLIRSE LAS NORMATIVAS LOCALES, REGIONALES O NACIONALES.

NOTA: CONFORME CON ANSI Z358.1 CUANDO SE INSTALA DE LA FORMA CORRECTA EN UN SISTEMA DE AGUA CON LA PRESIÓN, EL VOLUMEN Y LA TEMPERATURA ADECUADOS.

INSTALLATION FACILE

1. RETIREZ L'AÉRATEUR DU ROBINET.

2. CHOISISSEZ L'ADAPTATEUR ADÉQUAT ET VISSEZ-LE SUR VOTRE ROBINET, SI NÉCESSAIRE (L'INTERFACE STANDARD DE LA DOUCHE OCULAIRE eyePOD™ S'ADAPTE À LA PLUPART DES ROBINETS).

3. RETIREZ LE CONTRE-ÉCROU ET L'INTERFACE STANDARD, PUIS MONTEZ-LES ENSEMBLE SUR VOTRE ROBINET EN UTILISANT LES ENCOCHES À PIÈCE *(UTILISER UNE PIÈCE DE MONNAIE D'UNE DIMENSION APPROPRIÉE).*

4. VISSEZ LE CONTRE-ÉCROU SUR L'eyePOD™, EN VOUS ASSURANT QUE CELLE-CI EST ORIENTÉE VERS L'AVANT *(comme sur le schéma illustrant le Mode Robinet).*

REMARQUE: UN MONTAGE INCORRECT PEUT AFFECTER LE BON FONCTIONNEMENT DE LA DOUCHE OCULAIRE.

REMARQUES CONCERNANT L'INSTALLATION ET L'UTILISATION

1. L'eyePOD™ EST CONÇU POUR UNE CERTAINE PLAGE DE TEMPÉRATURES ET NE DOIT ÊTRE UTILISÉE QU'AVEC UNE EAU DONT LA TEMPÉRATURE EST COMPRISE ENTRE 15°C ET 35°C (60°F ET 95°F). AU-DELÀ DE 35°C, UNE VANNE THERMOSTATIQUE INTERNE ARRÊTE AUTOMATIQUEMENT LA DOUCHE OCULAIRE.

REMARQUE: L'UTILISATION DE CE DISPOSITIF AVEC DE L'EAU DONT LA TEMPÉRATURE NE SE SITUE PAS DANS LA PLAGE SPÉCIFIÉE PEUT AFFECTER SON FONCTIONNEMENT, RÉDUIRE SON EFFICACITÉ ET ENTRAÎNER DES RISQUES DE GRAVES BRÛLURES.

2. L'eyePOD™ SE VIDANGE ELLE-MÊME LORSQU'ELLE FONCTIONNE EN MODE ROBINET. POUR PERMETTRE CETTE VIDANGE, LE DISPOSITIF DOIT TOUJOURS ÊTRE REMIS EN MODE ROBINET UNE FOIS LE LAVAGE DES YEUX TERMINÉ.

REMARQUE: CE PRODUIT DOIT ÊTRE INSTALLÉ DANS LE RESPECT DES RÉGLEMENTATIONS LOCALES, NATIONALES OU FÉDÉRALES.

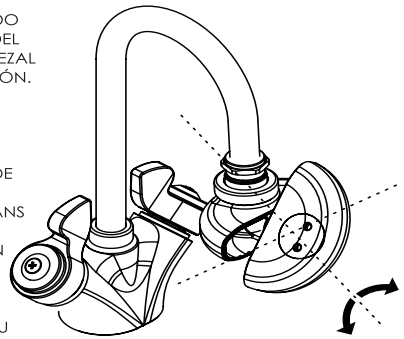
REMARQUE: CONFORMITÉ À LA NORME ANSI Z358.1 LORSQUE LE PRODUIT EST CORRECTEMENT MONTÉ SUR UN CIRCUIT DISTRIBUANT UNE EAU AUX CARACTÉRISTIQUES APPROPRIÉES (PRESSION, VOLUME ET TEMPÉRATURE).

FÁCIL DE USAR ▬ ABRA EL GRIFO Y SELECCIONE EL MODO DE FUNCIONAMIENTO
FACILE À UTILISER ▬ OUVRIR LE ROBINET PUIS CHOISIR LE MODE DE FONCTIONNEMENT

SELECCIÓN DEL MODO
CHOIX DU MODE

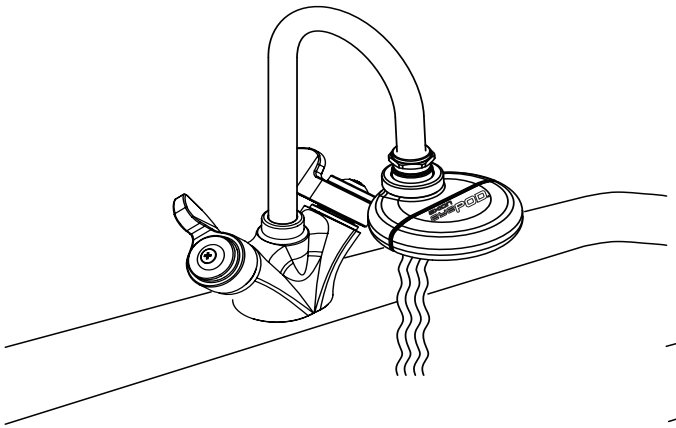
PARA CAMBIAR EL MODO DE FUNCIONAMIENTO DEL eyePOD™, GIRE EL CABEZAL EN CUALQUIER DIRECCIÓN. EL AGUA SE CONTROLA CON LOS MANDOS DEL GRIFO.

UNE SIMPLE ROTATION DE LA TÊTE DE LA DOUCHE OCULAIRE eyePOD™ DANS N'IMPORTE QUEL SENS PERMET DE PASSER D'UN MODE À L'AUTRE. LE CONTRÔLE DEL'EAU CONTINUE DE SEFAIRE À L'AIDE DES POIGNÉES DU ROBINET.

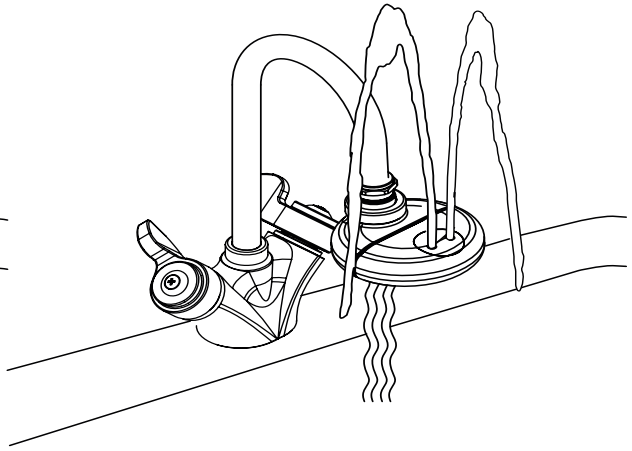


GIRE EN CUALQUIER DIRECCIÓN
TOURNER DANS UN SENS OU DANS L'AUTRE

MODO GRIFO
MODE ROBINET



MODO LAVADO DE OJOS
MODE DOUCHE OCULAIRE



0001510224.2

McGuire Manufacturing Co., Inc.
60 Grandview Court
Cheshire, Connecticut 06410
(203) 699-1801 Fax (203) 699-1813
customerservice@mcguiremfg.com mcguiremfg.com

PRODUCT SPECIFICATION

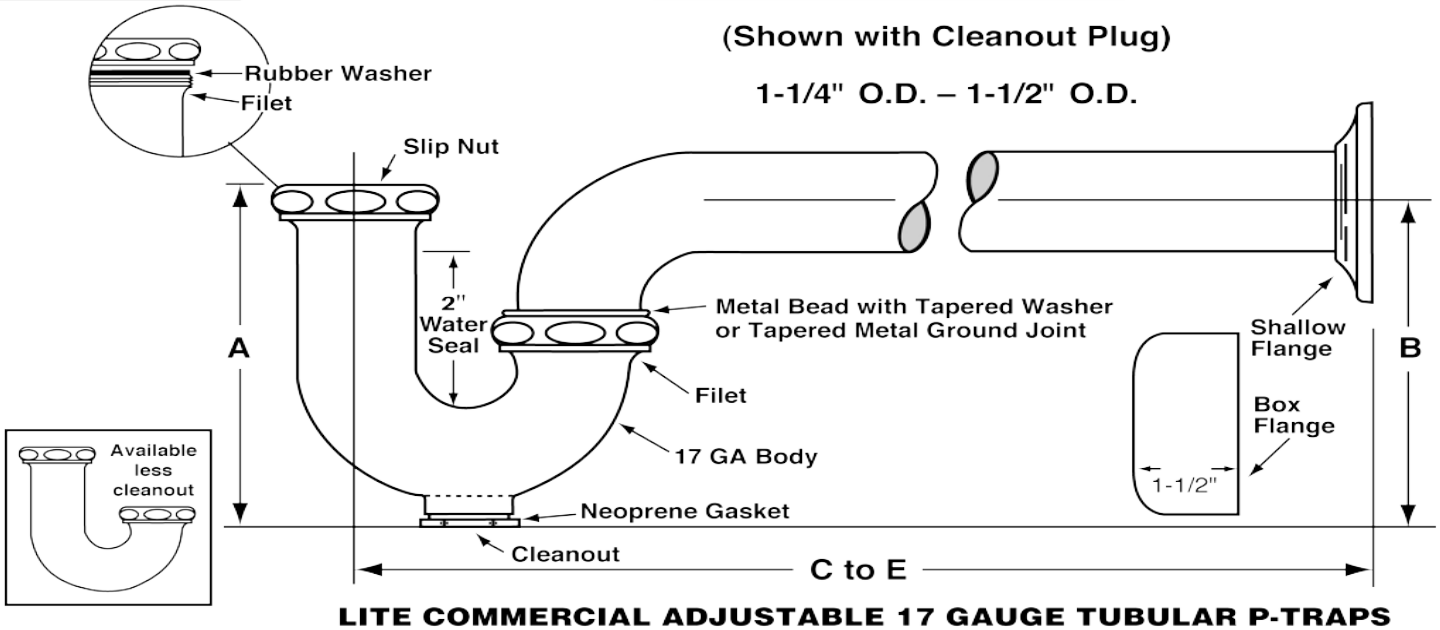
Part No.

MCT150 Series

Lite Commercial 17 GA Tubular P-Trap

Job Name:

Submittal Number:



LITE COMMERCIAL ADJUSTABLE 17 GAUGE TUBULAR P-TRAPS

Roughing Measurements

Model No.	INLET	OUTLET	A	B	C to E	Flange	Slip Nut
MCT150090B	1-1/2", 1-1/4"	1-1/2"	5-1/4"	5"	12"	Box	Brass
MCT150075ZN	1-1/2", 1-1/4"	1-1/2"	5-1/2"	5"	10-1/2"	Shallow	Zinc
MCT150075NCZN	1-1/2", 1-1/4"	1-1/2"	5"	4-3/4"	11"	Shallow	Zinc
MCT150090NCB	1-1/2", 1-1/4"	1-1/2"	5-1/4"	4-1/2"	12-1/4"	Box	Brass
MCT150090NCGJB	1-1/2", 1-1/4"	1-1/2"	5-1/4"	4-3/4"	12-1/4"	Box	Brass
MCT150090NCGJ	1-1/2", 1-1/4"	1-1/2"	5-1/4"	5"	12-1/4"	Shallow	Brass
MCT150150B	1-1/2", 1-1/4"	1-1/2"	5-1/4"	5"	18"	Box	Brass

Suffix Designations
NC = No Cleanout Plug
GJ = Ground Joint Wall Bend

AND/OR

ASME A112.18.2/CSA B125.2

Specifications:

P-Trap shall be 17 gauge seamless chrome plated tubular brass with wall bend and flange.

WARNING:
This product can expose you to chemicals including lead, which is known to the State of California to cause cancer, and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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1-1/2" FLANGED STRAINER TAILPIECES TECHNICAL SPECIFICATION

Job Name _____ Item # _____
Location _____
Engineer _____ Contractor _____
PO # _____ Tag _____
Representative _____

SPECIFICATIONS

Dearborn Brass Flanged Strainer Tailpieces are designed for use in tubular drain applications. Available in 17, 20 or Budget Gauge Brass. Options include Unfinished Brass and various tube lengths.

DESCRIPTION

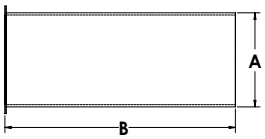
- Chrome or Unfinished Brass Finish
- Sink Strainer Tailpiece
  - (1) Flanged Strainer Tailpiece (flanged one or both ends)

APPROVALS AND LISTINGS

DIMENSIONS

[A]:	Size A	1.50"	[B]:	Length B	See Chart A.1





A.1 - LENGTHS					
	Size 1-1/2" x 4"	**Size 1-1/2" x 6"**	**Size 1-1/2" x 8"**	**Size 1-1/2" x 12"**	**Size 1-1/2" x 16"**
Length C:	4"	6"	8"	12"	16"

Access BIM/Revit content through www.oatey.com

1-1/2" FLANGED STRAINER TAILPIECES TECHNICAL SPECIFICATION

PRODUCT SELECTOR

1-1/2" FLANGED STRAINER TAILPIECES

✓	Product Number	Size	Description	Carton Quantity
	799-1	1-1/2" x 4"	Flanged Strainer Tailpiece - Budget Ga.	10
	799-3	1-1/2" x 4"	Flanged Strainer Tailpiece - Budget Ga., Unfinished	10
	800-1	1-1/2" x 6"	Flanged Strainer Tailpiece - Budget Ga.	10
	801-1	1-1/2" x 8"	Flanged Strainer Tailpiece - Budget Ga.	10
	803-1	1-1/2" x 12"	Flanged Strainer Tailpiece - Budget Ga.	10
	803BD-1	1-1/2" x 12"	Double Flanged Strainer Tailpiece - Budget Ga.	10
	803ED-1	1-1/2" x 16"	Double Flanged Strainer Tailpiece - Budget Ga.	10
	800-20-1	1-1/2" x 6"	Flanged Strainer Tailpiece - 20 Ga.	10
	801-20-1	1-1/2" x 8"	Flanged Strainer Tailpiece - 20 Ga.	10
	801-20-3	1-1/2" x 8"	Flanged Strainer Tailpiece - 20 Ga., Unfinished	10
	803-20-1	1-1/2" x 12"	Flanged Strainer Tailpiece - 20 Ga.	10
	803-20-3	1-1/2" x 12"	Flanged Strainer Tailpiece - 20 Ga., Unfinished	10
	799-17-1	1-1/2" x 4"	Flanged Strainer Tailpiece -17 Ga.	10
	799-17-3	1-1/2" x 4"	Flanged Strainer Tailpiece, 17 Ga., Unfinished	10
	800-17-1	1-1/2" x 6"	Flanged Strainer Tailpiece -17 Ga.	10
	800-17-3	1-1/2" x 6"	Flanged Strainer Tailpiece -17 Ga., Unfinished	10
	801-17-1	1-1/2" x 8"	Flanged Strainer Tailpiece -17 Ga.	10
	801-17-3	1-1/2" x 8"	Flanged Strainer Tailpiece -17 Ga., Unfinished	10
	801-17-3	1-1/2" x 12"	Flanged Strainer Tailpiaece -17 Ga.	10
	803-17-3	1-1/2" x 12"	Flanged Strainer Tailpiece -17 Ga., Unfinished	10

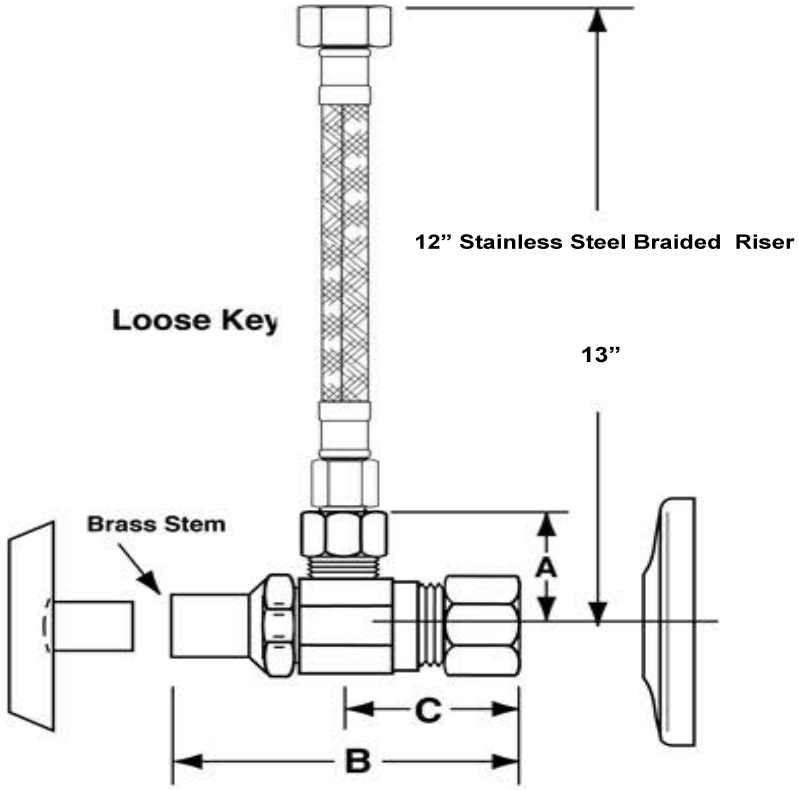
McGuire Manufacturing Co., Inc.
60 Grandview Court
Cheshire, Connecticut 06410
(203) 699-1801 Fax (203) 699-1813
customerservice@mcguiremfg.com mcguiremfg.com

PRODUCT SPECIFICATION

Part No.
LF2165CCLKSS12ECO

Compression x Compression Lavatory Supply

Job Name: **Submittal Number:**



NO.	DESCRIPTION	ROUGHING MEASUREMENTS		
		A	B	C
LF2165CCLKSS12ECO	1/2" Nominal x 3/8" O.D.	1"	2-3/8"	1"

- Rated Operating Pressure: 20-125 PSI
- Rated Operating Temperature: 40-140ºF
- Note: 180°F max. during temporary high-temperature system flush

LK designates Loose Key

* See options and accessories section for details on product variations.

NSF UPC ASME A112.18.1

Specifications:

Supply kit shall include lead free chrome plated supply brass stop valves with full turn brass stem, no plastic, 12 inch stainless steel braided risers and shallow steel flange. Inlet shall be 1/2 inch compression. Outlet shall be 3/8 inch compression. Supply kit shall be certified by recognized authority and bear manufacturer and testing mark.

WARNING:
This product can expose you to chemicals including lead, which is known to the State of California to cause cancer, and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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Model ZW3870XLT

Aqua-Gard® Thermostatic Mixing Valve

Application

Ideal for use where Lead Free* valves are required. The Zurn Wilkins Model ZW3870XLT Aqua-Gard® Thermostatic mixing valve is designed to be installed at the point of use under sinks and sensor faucets to assist in the prevention of scalding. The valves rapid response and precise temperature control meet the stringent standards of ASSE 1070 listed for fixtures, sinks, lavatories or bathtubs. The ZW3870XLT will mix hot and cold water from the distribution system to a final safer temperature outlet range of 95-115F (35-46C). The 3/8" compression fittings make this valve ideal for residential and commercial applications. With a minimum flow rating of 0.06 GPM the valve will provide proper scald protection when used in conjunction with ultra low flow faucet aerators.



XL LEAD FREE

NSF/ANSI/CAN 61-9 Q≤1

Standards Compliance

- ASSE® Listed 1070
- cUPC® Listed
- CSA® Certified B125.70
- Meets the requirements of NSF/ANSI/CAN 61-9 Q≤1*

*(0.25% MAX. WEIGHTED AVERAGE LEAD CONTENT)

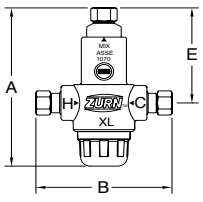
Features

Sizes:	3/8"
Chrome Plated	
Outlet Temp. Range	95-115°F(35-46°C)
Temperature Hot Supply	120-195°F max. (49-90.5°C)
Temperature Cold Supply	40-75°F(4.4-23.8°C)
Set Temperature Accuracy	+/- 3°F(1.78°C)
Max. Working Pressure (inlet)	145 psi
Temperature must be field set	
Max. Pressure Differential is 15 psi between Hot & Cold inlets	
Flow rate @ 45 psi pressure loss	3.10 gpm
Min. Flow Rate	0.06 gpm
Integral check valves and strainer screen on hot and cold supply	

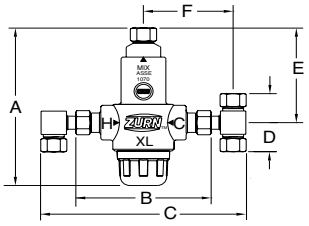
ZW3870XLT	3 PORT (1 Hot in, 1 Cold in, 1 Mixed out)
ZW3870XLT-4P	4 PORT (1 Hot in, 1 Cold in, 1 Cold out, 1 Mixed out.)

Materials

Body	Low Lead Cast Bronze ASTM B 584 w/Chrome Plating ASTM B 456 Service Condition #2
Internal brass	Low Lead Brass, ASTM B 927 UNS C27450
Piston	Polysufone
Guide Tube	Noryl GFN2
Spring	300 Series Stainless Steel
Seals	Viton
Checks	Acetal Co-Polymer



ZW3870XLT

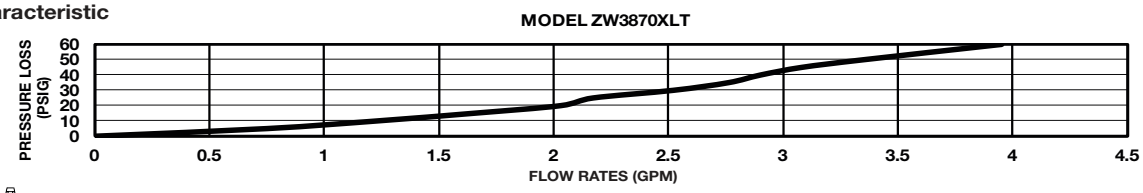


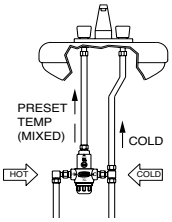
ZW3870XLT-4P

Dimensions & Weights (do not include pkg.)

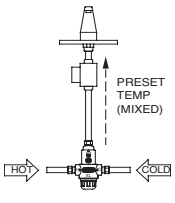
MODEL	SIZE		DIMENSIONS (approximate)												WEIGHT	
			A		B		C		D		E		F			
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kg.
ZW3870XLT	3/8	9.5	4 27/32	123	4 3/16	106.3	5 55/64	149	2 1/32	52	2 27/32	72.2	2 1/2	64	1.2	.6

Flow Characteristic





INDIVIDUAL USE ZW3870XLT-4P



SINGLE USE ZW3870XLT

Piping Instructions

The device is designed to be installed at a single outlet. It may be used to supply individual outlets when there is sufficient supply pressure. It is suggested to use ball valves on the hot and cold inlet supplies.

Zurn Industries, LLC | Wilkins
1747 Commerce Way, Paso Robles, CA U.S.A. 93446 Ph. 855-663-9876, Fax 805-238-5766
In Canada | **Zurn Industries Limited**
7900 Goreway Drive, Unit 10, Brampton, Ontario L6T 5W6, 877-892-5216
www.zurn.com

Rev. J
Date: 5/22
Document No. TMV-ZW3870XLT
Product No. Model ZW3870XLT
Patent zurn.com/patents

TRUEBRO IPS CORPORATION

LAV GUARD2 FAST FIT UNDERSINK PIPING COVERS

ADA-compliant undersink protection

Submittal Sheet

General Description:

LAV GUARD® 2E-Z Series waste and supply piping covers satisfy ADA compliance requirements. Built-in E-Z Grip internal fasteners and internal, E-Z Tear-To-Fit trimming feature allow for fast installation without tools. Series #100 E-Z kits are designed to fit on all tubular and cast brass P-trap assemblies. Series #400 kits are the "original" LAV GUARD design and fit schedule 40 ABS and PVC P-trap assemblies — regardless of their geometry or rotational offset.Valve cover completely encloses angle valve and supply tube for both handled and keyed type water stops.

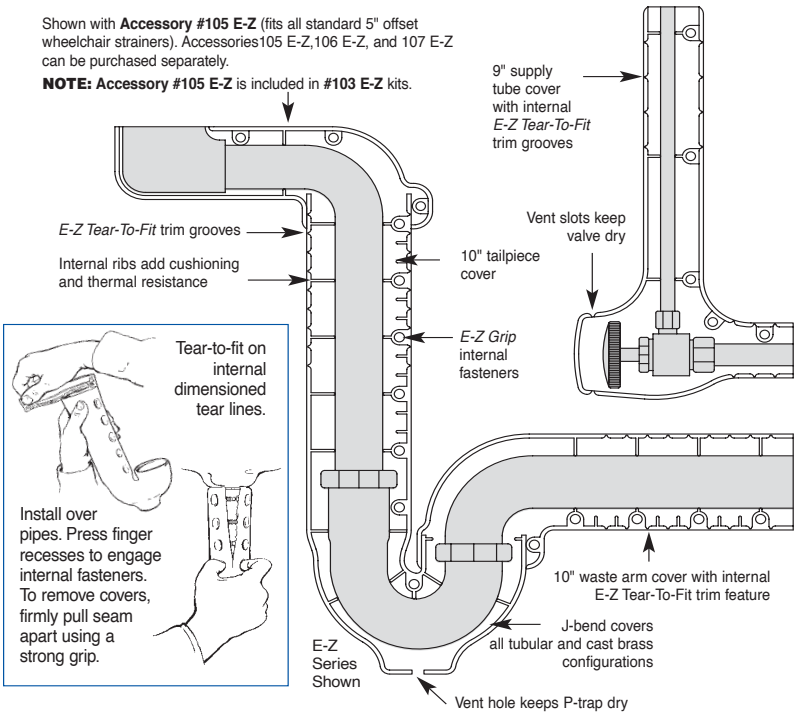
Material	Molded vinyl
Nominal Wall	1/8" constant
Durometer	70 - 80 - Shore A
UV Protection	Will not fade or discolor
Durability	Virtually indestructible
Trimming (E-Z Series)	Internal, *E-Z Tear-To-Fit* trim feature
Fasteners (E-Z Series)	Internal *E-Z Grip* fasteners (reusable)
Color	China white
Paintability	Apply Latex paint
Burning Characteristics ASTM D-635	Self extinguished 0 sec (ATB) 0 mm (AEB)
Bacteria/Fungus Resistance	ASTM G21 and G22/ Result: 0 growth
Maintenance	Use common detergents

Antimicrobial Vinyl Minimizes Maintainance

Lav Guard 2 is molded from impact-resistant, stain-resistant, antimicrobial vinyl. Its smooth surface makes it exceptionally easy to clean and maintain.

Manufactured under one or more of the following U.S. or Canadian patents. Other patents pending.

5,303,730 5,360,031 5,524,669 5,564,463 5,678,598 5,699,828 5,915,412 5,915,413 5,901,739 5,960,820 2,075,324 2,119,427 2,136,027 2,158,083



#100 E-Z Series *(shown above right) for tubular and cast brass P-trap assemblies.*
#400W* Series *(original design) for schedule 40 P-trap assemblies.*

☐ **Model #99 E-Z**
One angle valve and supply cover

☐ **Model #100 E-Z**
One P-trap cover

☐ **Model #400W***
One P-trap cover

☐ **Model #101 E-Z**
One P-trap cover, one angle valve cover

☐ **Model #401W***
One P-trap cover, one angle valve cover

☐ **Model #102 E-Z**
One P-trap cover, two angle valves and covers

☐ **Model #402W***
One P-trap cover, two angle valves and covers

☐ **Model #103 E-Z**
One P-trap cover, two angle valves and supply covers, one 5" offset tailpiece wheelchair strainer cover

☐ **Accessory #105 E-Z**
One 5" offset tailpiece wheelchair strainer assembly

*All #400W series items are the "original" LAV GUARD® design and construction. Specifications may change without notice.

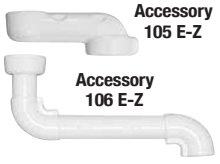
☐ **Accessory #105-K**
Kohler 6" offset

☐ **Accessory #106 E-Z**
One basket strainer cover and offset waste cover (adjustable to 18")

☐ **Accessory #107 E-Z**
Two basket strainer covers and center or end outlet waste cover (adjustable)

☐ **Accessory #Ex99 E-Z**
One 14" extension for water supply

☐ **Accessory #Ex100 E-Z**
One 14" extension for drain waste arm or tailpiece



Accessory 107 E-Z
(Configuration Options Shown)



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2.16 HIGHLANDS BUILDING ROGERS

Datasheets

S-7

ADVANCE TABCO
SMART FABRICATION™

STAINLESS STEEL

REGALINE SINKS NSF

T9 SERIES







Item #: _____ Qty #: _____
Model #: _____
Project #: _____



T-9 Series Adjustable Side Cross-Bracing



Recessed Bowl Surface Accommodates Poly-Vance Cutting Boards & Sink Covers



YES! It's SeaMLess!

Deep Drawn Bowls Are Seamless And Drawn Out Of A Single Sheet Of Steel

FEATURES:

Tile edge for ease of installation.

One piece **Deep Drawn** sink bowls with integral drainboards with splash.

Featuring the single bowl unit design.

All sink bowls have a large liberal 3" radius.

"T-9" Series is supplied with adjustable side cross braces featuring leg clamps.

CONSTRUCTION:

All TIG welded.

Welded areas blended to match adjacent surfaces and to a satin finish.

Gussets welded to a die-embossed reinforcing channel.

MECHANICAL:

Supply is 1/2" IPS hot & cold.

Faucet holes on 8" centers.

Faucets are not included **(see accessories)**.

Waste drains are 1 1/2" IPS S/S basket type, located in center of sink bowl, and are included.

MATERIAL:

1 5/8" diameter galvanized legs and gussets.

1" adjustable plastic bullet feet.

Bowls are heavy gauge stainless steel type 304 series.

Drainboards, splash and rolled rims are fabricated using heavy gauge stainless steel type 304 series.

ADVANCE TABCO
SMART FABRICATION™
www.advancetabco.com

Customer Service Available To Assist You 1-800-645-3166 8:30 am - 7:00 pm E.S.T.

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For Smart Fabrication™ Quotes:
Email: smartfab@advancetabco.com or **Fax:** 631-586-2933

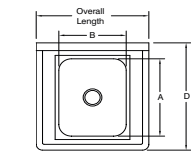
REF-C

DIMENSIONS and SPECIFICATIONS

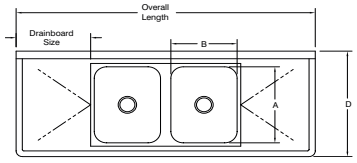
12” Water Level Accommodates Pot & Dish Applications

TOL Overall: ± .500” Interior: ± .250”

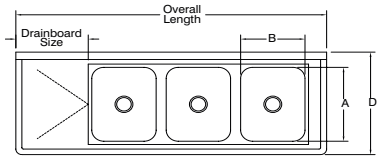
ALL DIMENSIONS ARE TYPICAL



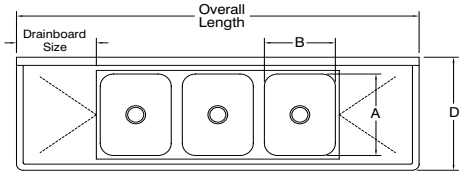
1 Compartment Shown



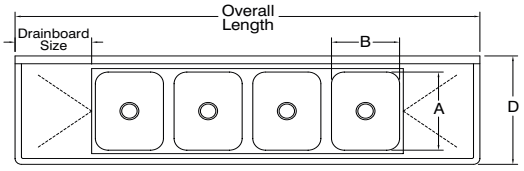
2 Compartment With 2 Drainboards Shown



3 Compartment With 1 Left Drainboard Shown



3 Compartment With 2 Drainboards Shown

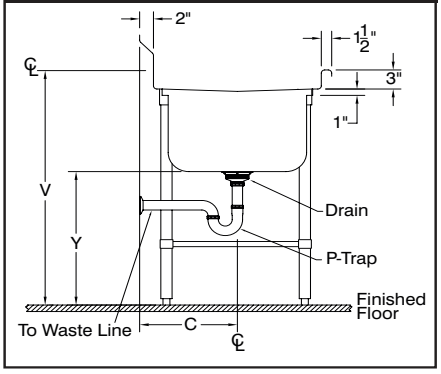


4 Compartment With 2 Drainboards Shown

BOWL SIZE	Overall Length	# Of Comp.	# Of Drbds.	Drbd. Size	Wt. (lbs.)	Recommended Use	MODEL #	A	B	C	D	V	W	X	Y	Z
16”x20”	27”	One	None	-	49	DISH SINKS	T9-1-24	20”	16”	14-1/8”	28”	38”	8”	12”	21”	42”
16”x20”	44”	One	One	18”	65	DISH SINKS	T9-1-24-18RorL	20”	16”	14-1/8”	28”	38”	8”	12”	21”	42”
16”x20”	72”	Two	Two	18”	120	DISH SINKS	T9-2-36-18RL	20”	16”	14-1/8”	28”	38”	8”	12”	21”	42”
16”x20”	64”	Three	None	-	89	DISH SINKS	T9-3-54	20”	16”	14-1/8”	28”	38”	8”	12”	21”	42”
16”x20”	**78”	Three	One	18”	134	DISH SINKS	T9-3-54-18RorL	20”	16”	14-1/8”	28”	38”	8”	12”	21”	42”
16”x20”	91”	Three	Two	18”	168	DISH SINKS	T9-3-54-18RL	20”	16”	14-1/8”	28”	38”	8”	12”	21”	42”
16”x20”	103”	Three	Two		190	DISH SINKS	T9-3-54-24RL	20”	16”	14-1/8”	28”	38”	8”	12”	21”	42”
20”x28”	103”	Three	Two	18”	270	PAN SINK	T9-83-60-18RL	28”	20”	18-1/8”	36”	38”	8”	12”	21”	42”

*** Requires 2 Faucets** **** Specify Drainboard Location**

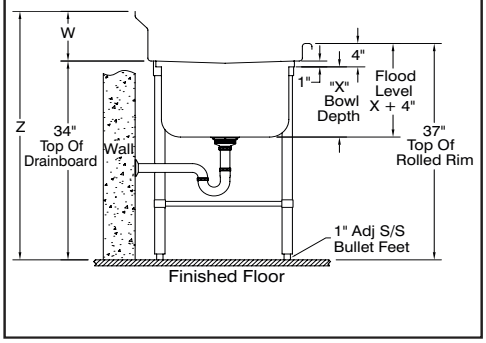
PLUMBING ROUGH-IN



MECHANICAL:

- Supply is 1/2” IPS hot & cold.
- Faucet holes on 8” centers.
- Faucets are not included **(see accessories)**.
- Waste drains are 1 1/2” IPS S/S basket type, located in center of sink bowl, and are included.

SECTION



ADVANCE TABCO
SMART FABRICATION

REF-C

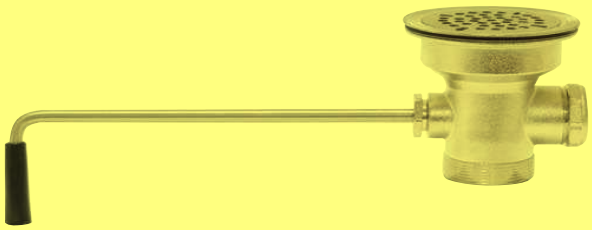
325 Wireless Boulevard, Hauppauge, NY 11788

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SINK DRAINS & ACCESSORIES

Twist Handle Operated Drain



K-5

Twist Handle Operated Drain With Overflow



K-15

Lever Operated Drains For Hand Sinks

with Overflow



K-26

No Overflow



K-67

SPEC-LINE Twist Handle Operated Drain All Stainless Steel



K-40

3-1/2" Basket Drain



K-6

Replacement Drain Basket For K-6



K-310

2" Drain with Strainer Plate



K-63

Replacement "O" Rings For Twist Handle Drains

(For K-5 & K-15 Drains)



K-05

Twist Drain Support Bracket



K-4

Replacement Strainer For 3-1/2" Drains



K-410

Replacement Strainer For 2" Drains



K-411

Replacement Washers For 3-1/2" Drains

(Set of 2)



K-67F

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Customer Service Available To Assist You 1-800-645-3166 8:30 am - 7:00 pm E.S.T.

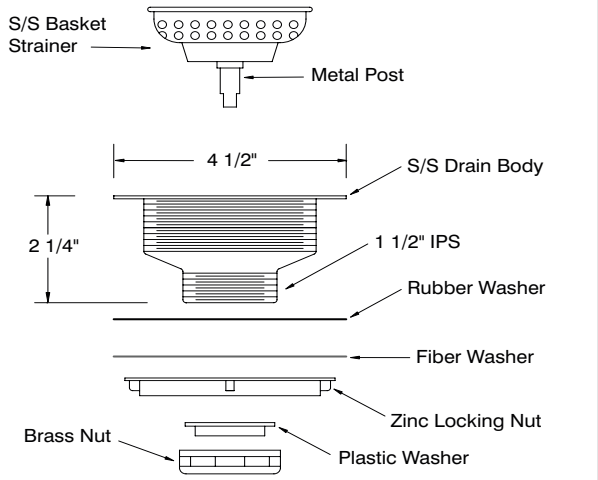
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For Smart Fabrication™ Quotes:
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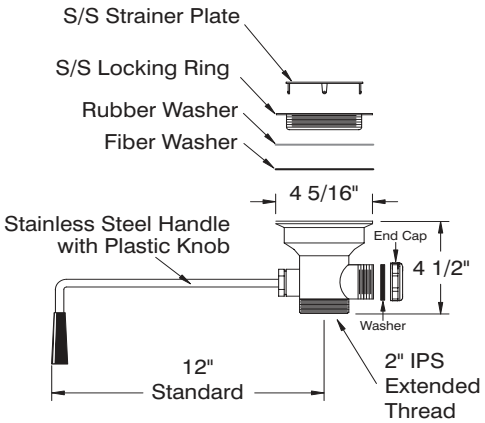
DIMENSIONS and SPECIFICATIONS

TOL ± .125”

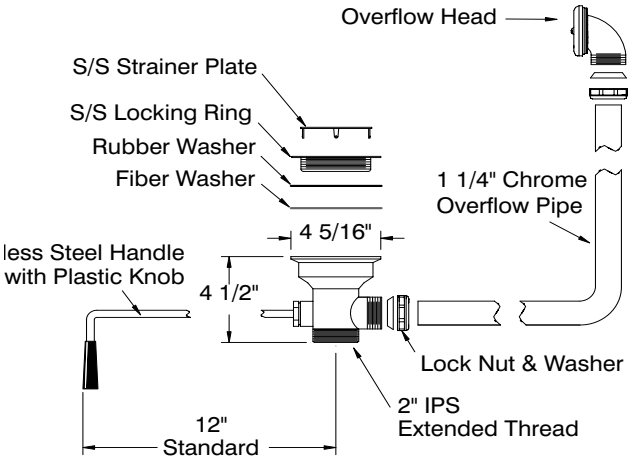
ALL DIMENSIONS ARE TYPICAL



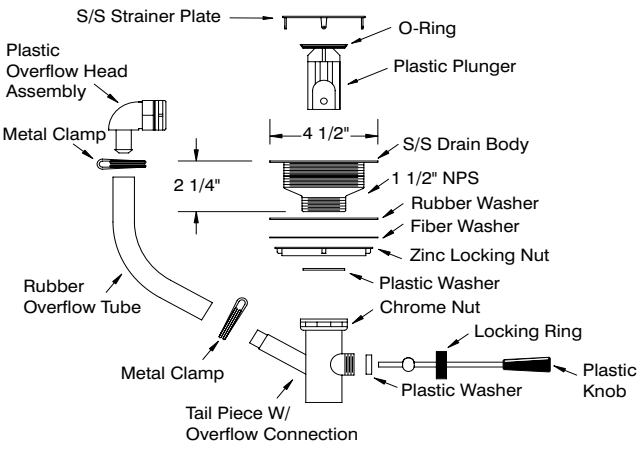
K-6



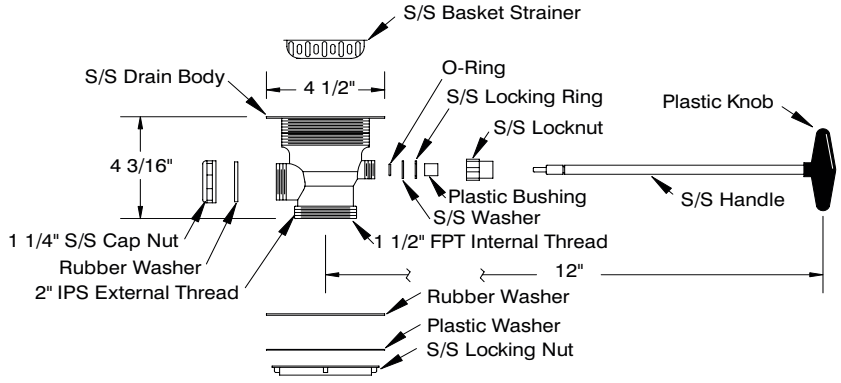
K-5



K-15



K-26 & K-67 For Hand Sinks (K-67 Excludes Overflow)



K-40

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K-1
12” SWING SPOUT SPLASH MOUNT FAUCET

Conforms To NSF 61/9 Lead Free Requirements





BACK VIEW
1/2” NPT(INSIDE THREAD)

FAUCET AERATOR CONFORM TO
ASTM.A112.18.1M • 1.0 GPM/3.8 LPM
THREAD: 55/64 - 27 FEMALE

Item #: _____ Qty #: _____
Model #: _____
Project #: _____

FEATURES:

12” swing spout.
8” O.C. water supply.
Quarter-turn wedge style handles.
Colored hot & cold Indexes.
1.0 GPM/3.8 LPM Aerator. 60 PSI.

MATERIAL:

Brass chrome plated body & spout.
Chrome plated handles.



Click This Link To View Assembly Sheet

Options & Accessories

Replacement Spout For K-1 Faucet
12” Swing Spout Only.
K-1SP



Low Flow Aerator
.5 GPM
K-08



Faucet Repair Kit*
K-00B (Set of 2)
Includes 2 Cartridges and 2 Handles With Red & Blue Indexes



Splash Mount Faucet Mounting Kit
K-06

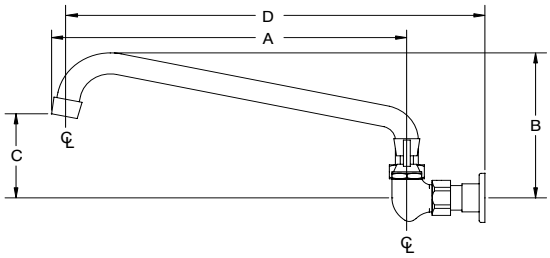


Wrist Handles*
K-316-LU (Set of 2)
For a Complete faucet with Wrist Handles, See our **K-316** Spec Sheet.



*Can Only Be Used On Faucets Purchased After January 2016.
For Older Faucets, Consult Customer Service.

DIMENSIONS and SPECIFICATIONS



A Length	B Height	C	D	On Center Dimensions
12”	5”	2 1/2”	14”	8” O.C.

⚠WARNING:
Faucet(s) on this page may expose you to chemicals, including lead, that are known to the State of California to cause cancer or birth defects or other reproductive harm. For more Info.,visit www.p65warnings.ca.gov.

ADVANCE TABCO SMART FABRICATION™
www.advancetabco.com

Customer Service Available To Assist You 1-800-645-3166 8:30 am - 7:00 pm E.S.T.

For Orders & Customer Service:
Email: customer@advancetabco.com or **Fax:** 631-242-6900

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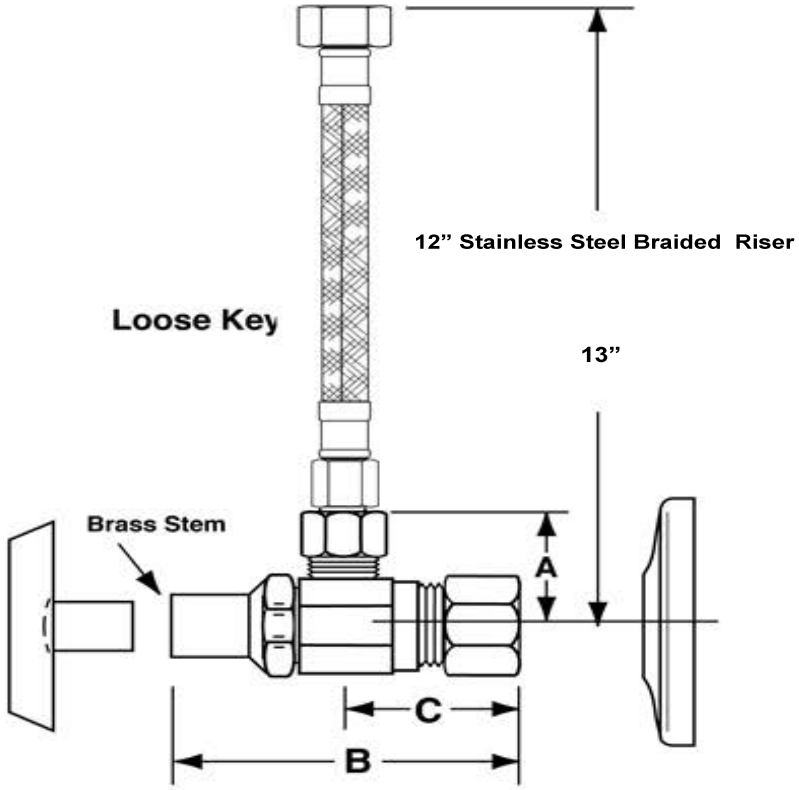
McGuire Manufacturing Co., Inc.
60 Grandview Court
Cheshire, Connecticut 06410
(203) 699-1801 Fax (203) 699-1813
customerservice@mcguiremfg.com mcguiremfg.com

PRODUCT SPECIFICATION

Part No.
LF2165CCLKSS12ECO

Compression x Compression Lavatory Supply

Job Name: **Submittal Number:**



NO.	DESCRIPTION	ROUGHING MEASUREMENTS		
		A	B	C
LF2165CCLKSS12ECO	1/2" Nominal x 3/8" O.D.	1"	2-3/8"	1"

- Rated Operating Pressure: 20-125 PSI
- Rated Operating Temperature: 40-140ºF
- Note: 180°F max. during temporary high-temperature system flush

LK designates Loose Key

* See options and accessories section for details on product variations.

NSF UPC ASME A112.18.1

Specifications:

Supply kit shall include lead free chrome plated supply brass stop valves with full turn brass stem, no plastic, 12 inch stainless steel braided risers and shallow steel flange. Inlet shall be 1/2 inch compression. Outlet shall be 3/8 inch compression. Supply kit shall be certified by recognized authority and bear manufacturer and testing mark.

WARNING:
This product can expose you to chemicals including lead, which is known to the State of California to cause cancer, and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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2.16 HIGHLANDS BUILDING ROGERS

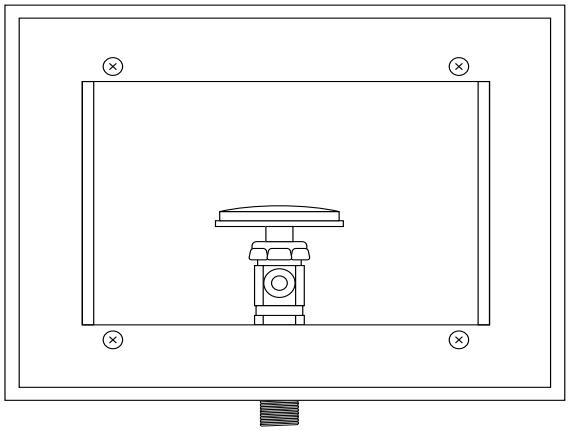
Datasheets

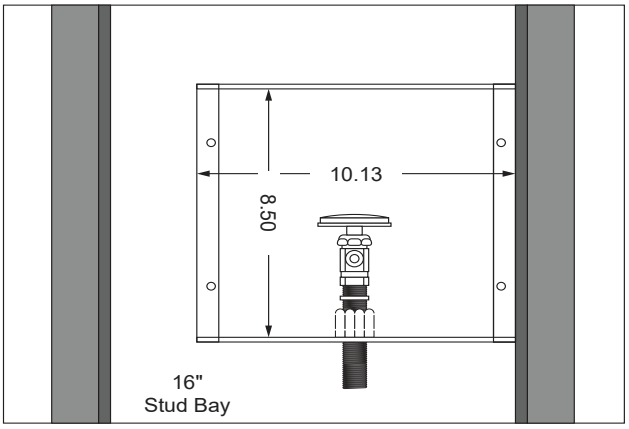
SB-1

SPECIFICATION SUBMITTAL SHEET

GUY GRAY™ IPS CORPORATION

Galvanized Ice Maker Box with Lead Free Domestic Valve



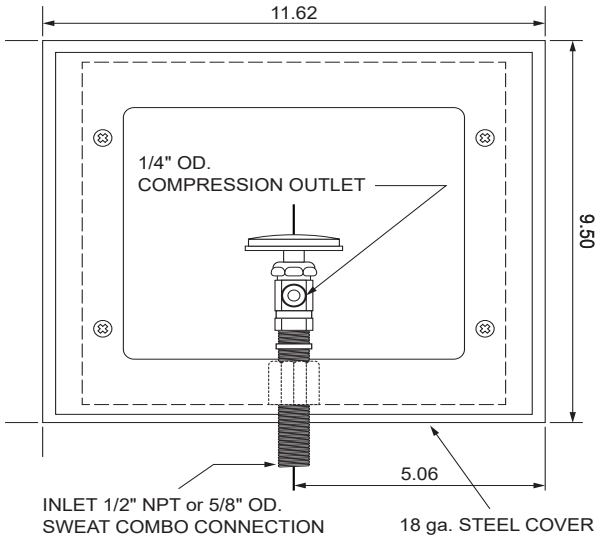


Specifications:
Furnish and install Guy Gray recessed ice maker outlet box. Ice maker outlet box shall have an AB1953 compliant valve with a 1/2" copper sweat inlet and a 1/4" compression outlet. Unit shall be Guy Gray product code 88158 as manufactured by IPS Corporation in Collierville, TN.

Box Material:
G90 Hot Dipped Galvanized Steel (unpainted)
20 gauge box with 20 gauge faceplate

Valve & Drain Options:
Lead free Domestic Valve with 1/2" MIP/Sweat, CPVC or PEX connection. Valves comply with ASME A112.18.1.

Valves comply with the requirements of NSF 61-G and the "Reduction of Lead in Drinking Water Act" (Federal Public Law 111-380)



	Item #	Product Description	Model #	Quantity
	88510	Qtr-turn Valve, ½" Sweat Connection	BIM875QTSAB	6
	88158	Domestic Valve, ½" Sweat Connection	BIM875AB	6
	88512	Qtr-turn Valve, ½" CPVC Connection	BIM876QTCAB	6
	88514	Qtr-turn Valve, ½" F1807 Connection	BIM877QTPAB	6
	96997	Tamper resistant cover for Models B, BB, WB, FB, & BIM	BTRC	6

*Frames packed separately from boxes and mounting flanges for protection and safe keeping until finishing stage.

IPS CORPORATION 500 Distribution Parkway, Collierville, TN 38017 ▪ Phone: 800-888-8312 ▪ Fax: 901-853-5008 ▪ www.ipscorp.com

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2.16 HIGHLANDS BUILDING ROGERS

Datasheets

SS-1

Model(s) Z5410

Wall-Mounted Blowout Service Sink

TAG_____

Architectural/Engineering Specification:

Vitreous China, wall mounted blowout service sink with integral flushing rim, ZurnSHIELD™ ceramic glaze, and 1-1/2" top spud. Front & side stainless steel rim guards included.

PRODUCT FEATURES:

- Size: 21-1/2" [546 mm] x 19" [483 mm]
- Vitreous china
- ZurnSHIELDTM ceramic glaze creates a permanent surface that protects the fixture by inhibiting the growth of stain and odor causing mold mildew and bacteria, thus reducing the amount of time, chemicals and water to clean the bowl.
- Wall hung service sink
- Blowout action
- Integral flushing rim
- 1-1/2" top spud
- Shipping Weight: 60 lbs
- Minimum Running Pressure 25 PSI



Product Compliance: ASME A112.19.2/CSA B45.1
CSA B45.1

**Although products with certain combinations of options and features will meet or comply with these standards and/or certifications, not every combination of options and features will result in such compliance. If you have any questions about your particular product, please contact our Customer Care Dept. at 1-855-ONE-ZURN (United States) or 1-877-892-5216 (Canada) for confirmation.*

Warranty - general-terms-and-conditions.pdf (PDF)

RECOMMENDED TRIM:

☐	Z6000AV-BWN1	AquaVantage® AV exposed closet flush valve with bedpan washer.
☐	Z1217-B	Coupling Type Support System for Blowout Service Sinks w/ Fitting
☐	Z1218-B	Coupling Type Support System for Blowout Service Sinks w/o Fitting
☐	Z1217-75	Coupling Type Support System for Blowout Service Sinks w/ 2" Vent for Z5410

OPTIONAL TRIM:

☐	Z60842AV-BWN	AquaVantage® AV exposed clinical sink flush valve with bedpan washer and service sink faucet.
☐	Z85500-XL-WM	Wall-mounted double foot pedal valve.

Architectural/Engineering Approval

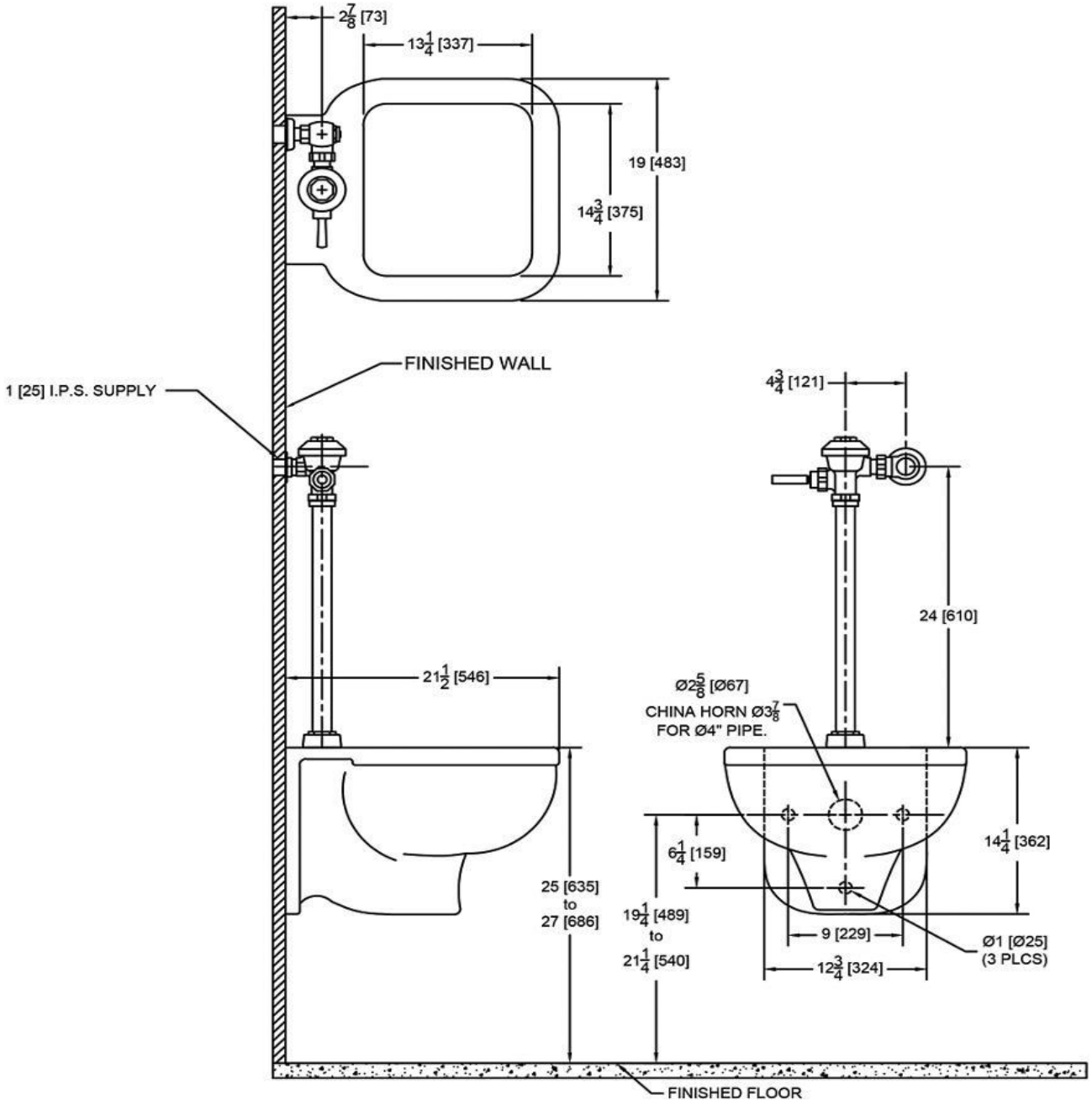
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Model(s) Z5410

Wall-Mounted Blowout Service Sink

TAG_____



NOTE: All dimensions are for reference only. Do not use for pre-plumbing.

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Bedpan Washer Flush Valve and Service Sink Faucet for Clinical Sink Applications
Z60842AV-BWN

TAG _____

ARCHITECTURAL & ENGINEERING SPECIFICATION

Exposed, quiet diaphragm-type, chrome plated flushometer valve with a polished exterior. Complete with Zurn's AquaVantage® TPE, chloramine resistant, dual seal diaphragm with triple filtered by-pass, bedpan washer and Clinical sink faucet. The valve comes with a non-hold open and no leak handle. Internal seals are made of chloramine resistant materials.

PRODUCT FEATURES

- Zurn's AquaVantage® TPE diaphragm
  Triple Filtered by-pass
  Chloramine resistant
  Dual seal
- Proprietary DR resistant low lead brass alloy
- Actuator
  Non-hold open and No Leak Handle
- Control Stop
  Internal siphon-guard protection
  Vandal resistant stop cap
  Sweat solder kit
  Cast wall flange with set screw
- Vacuum Breaker
  High back pressure
  One piece hex coupling nut
- Internal seals
  Chloramine resistant
- Bedpan Washer
- Spud coupling and flange for top spud connection
- Clinical Sink Faucet : ZURN Z842M4-XL-LS1-2XT
  Polished chrome plated cast brass body Quarter-turn ceramic disc cartridges Inlets with integral stops on 8" centerline 6" centerline cast brass vacuum breaker spout 4" vandal resistant color-coded wrist blade handles



FLOW OPTIONS

	FLUSH VOLUME GPF
☐ -FF	4.5
☐ -STANDARD	6.5
☐ -WS	3.5
☐ -WS1	1.6

SUFFIX OPTIONS

☐ -BG	BioCare ADAHandle
☐ -H	Handle on Front of Flush Valve
☐ -L	1" [25mm] Metal Push Button
☐ -L3	3" [76mm] Metal Push Button
☐ -YJ	Split Ring Pipe Support
☐ -YK	Solid Ring Pipe Support

VALVE HEIGHT OPTIONS

	PRODUCT NUMBER	DIMENSION A INCH [MM]
☐	Z60842AV-BWN	34 3/8" [873]
☐	Z60842AV-BWN2	37 3/8" [949]

ARCHITECTURAL & ENGINEERING APPROVAL

The information contained in this document is subject to change without notice.
Please contact Zurn for most up to date information.

Rev. C | Date:01/07/26 | C.N. No. 147442 | Prod./Dwg. No. SS Z60842AV-BWN

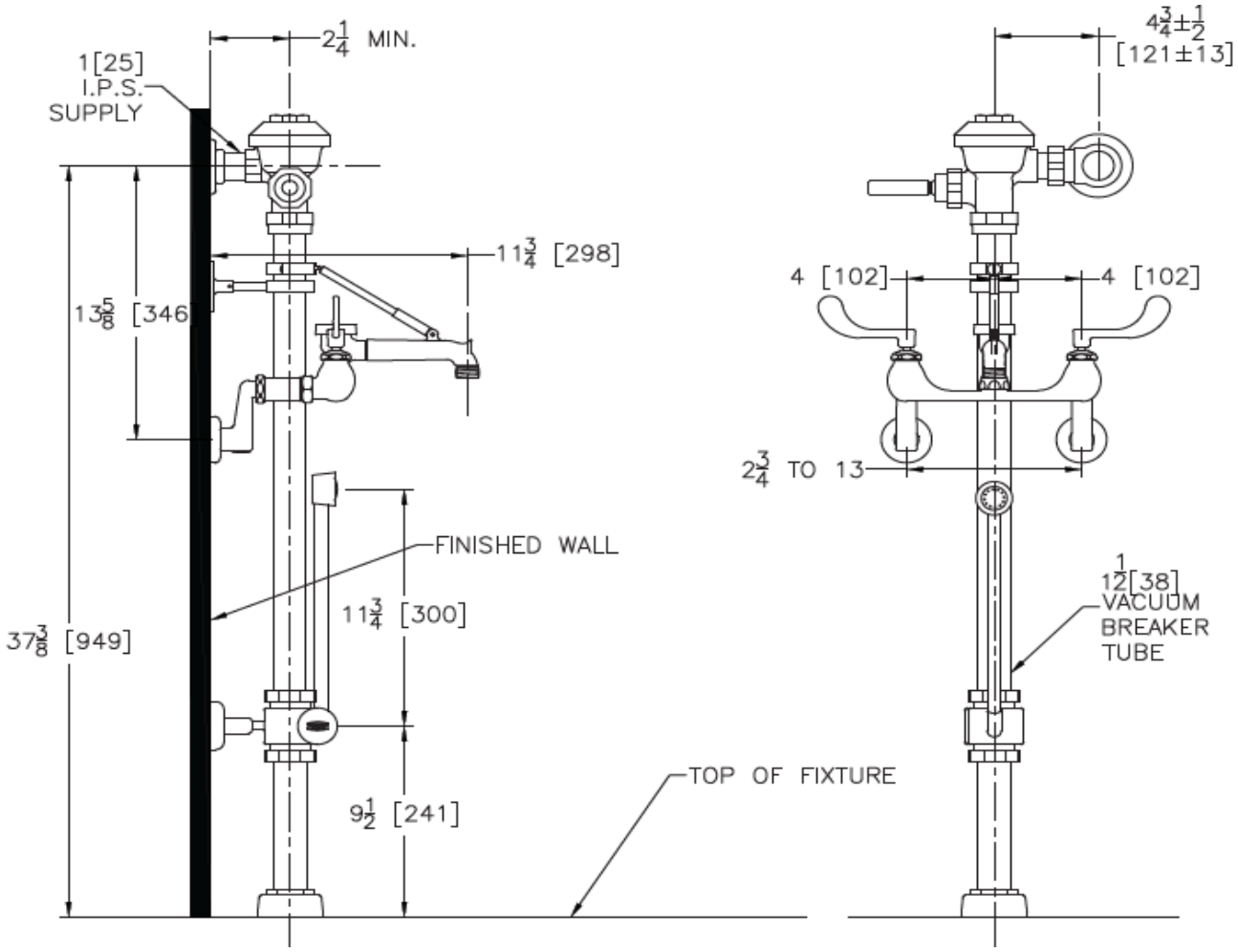
Patent zurn.com/patents
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ZURN.COM

by zurn ELKAY Water Solutions

Bedpan Washer Flush Valve and Service Sink Faucet for Clinical Sink Applications
Z60842AV-BWN

TAG _____

Rough-in dimensions/Overview dimensions



FIAT PRODUCTS

889-CC MOP HANGER

889-CC Mop Hanger

- Wall mounted stainless steel mop hanger is 24" long x 3" wide, with three (3) rubber tool grips that can hold onto a variety of handle size.



CUSTOMER SERVICE
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Revised: 03/2023

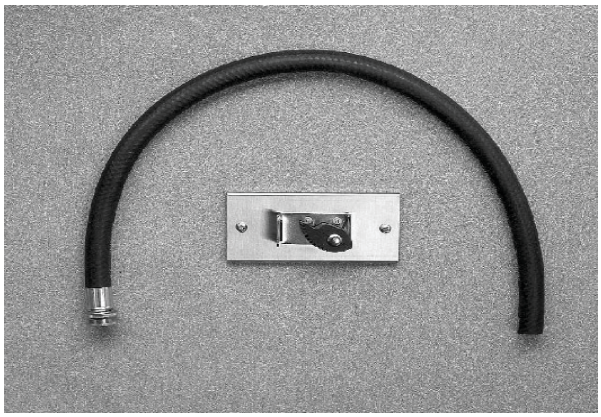
FIAT PRODUCTS

832-AA
HOSE & HOSE BRACKET

832-AA Hose and Hose Bracket

- A 30" long flexible, heavy duty 5/8" rubber hose. Cloth reinforced with 3/4" brass coupling at one end. Bracket is 5" long 3" wide, stainless steel with rubber grip.

- Hose and Hose Bracket are used with the 36" x 24" x 10" Molded-Stone Mop Service Basin with Shelf (MSB-3624) and the 24" x24" x 10" Molded-Stone Mop Service Basin less shelf (MSB-2424).



FIAT PRODUCTS

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Revised: 03/2023



2.16 HIGHLANDS BUILDING ROGERS

Datasheets

UR-1

Z5758-U

"The Retrofit Pint®" 1/8 GPF, EcoVantage®, Ultra Low Consumption Urinal

TAG _____

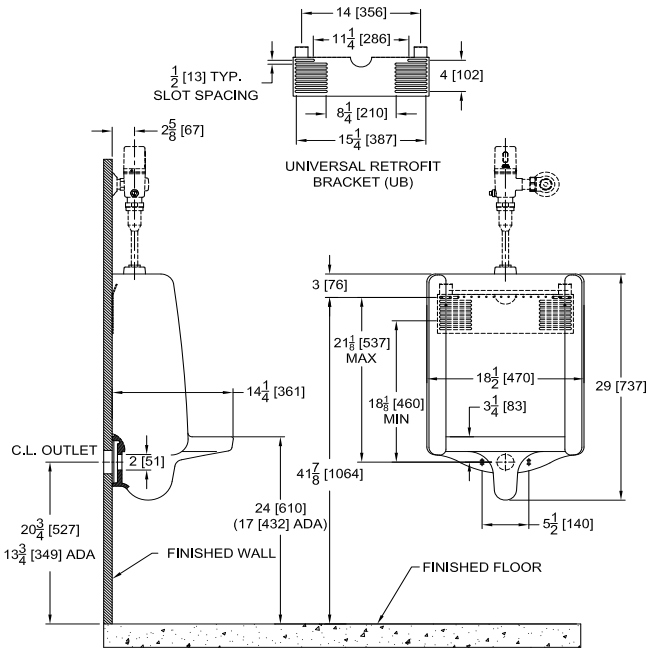
Architectural/Engineering Specification:

Vitreous china urinal is supplied with retrofit bracket, 3/4" top spud, 2" outlet connection, and vandal resistant outlet strainer.

Product Features:

- 0.125 gpf [0.5 Lpf]
- Vitreous china
- Designed to retrofit 4 bolt pattern urinals with no work behind the finished wall required in most installations
- High efficiency washout flushing action
- Over 88% water savings over standard 1.0 gpf [4.0 Lpf] system
- Pressure compensating internal flow regulator
- Universal Bracket and oversized footprint to make retro-fit easy
- 3/4" top spud
- 2" I.P.S. outlet flange and rubber gasket with integral trap
- 14" extended rim for handicap compliance when installed at proper height
- Assembled with vandal resistant outlet strainer
- Shipping weight: 24lbs.





Rough-in/Overview dimensions for Z5758 Series

See Zurn One Systems for suggested packages.

Architectural/Engineering Approval

The information contained in this document is subject to change without notice.
Please contact Zurn for most up to date information.

Compliance and Certification:

- ADA Compliant
- WaterSense Compliant

ADA DESIGNED

This product should be used with a WaterSense labeled counterpart with a compatible flush volume to ensure that the entire system meets the requirements for water efficiency and performance.

Meets the American Disabilities Guidelines and ANSI A117.1 requirements when installed according to these requirements.
Fixture dimensions meet ASME A112.19.2/CSA B45.1 requirements.
In Canada - Consult local codes and standards.

ZURN INDUSTRIES, LLC 511 W. Freshwater Way, Milwaukee, WI U.S.A. 53204 · Ph. 1-855-ONE-ZURN, Fax 919-775-3541
In Canada: **ZURN INDUSTRIES LIMITED** 7900 Goreway Drive, Unit 10, Brampton, Ontario L6T 5W6, Ph. 905-405-8272, Fax 905-405-1292

Rev. A Date: 4/5/2019 C.N. No. NEW Prod. | Dwg. No. SS Z5758-U

Model(s) ZTR6203

ZTR Sensor Flush Valve

TAG_____

Architectural/Engineering Specification:

Exposed, quiet piston-type, chrome plated flushometer valve with a polished exterior. Complete with chloramine resistant, filtered piston kit. The valve incorporates a 6VDC solenoid actuator, a battery powered automatic sensor with manual override push button, and robust vandal resistant metal cover with 10 degree angled sensor.



PRODUCT FEATURES:

- Filtered Piston Kit Chloramine resistant
- Control Stop Internal siphon-guard protection Vandal resistant stop cap Sweat solder kit Cast wall flange with set screw
- High back pressure Vacuum Breaker with one piece hex coupling nut
- Chloramine resistant Internal seals
- Adjustable tailpiece
- Spud coupling and flange for top spud connection

VALVE HEIGHT OPTIONS:

		Vacuum Tube Length	Rough-in Height "A"
☐	Standard	8-1/2" [216"]	11-1/2" [292]
☐	-1	13" [330]	16" [406]

FLOW OPTIONS:

		Flush Volume	*WaterSense Labeled
☐	-ULF	0.125 gpf	x
☐	-QRT	0.25 gpf	x
☐	-EWS	0.5 gpf	x
☐	-WS1	1.0 gpf	

SUFFIX OPTIONS:

☐	-YJ	Split Ring Pipe Support
☐	-YK	Solid Ring Pipe Support

Product Compliance:

ADA
ASSE 1037/ASME A112.1037/CSA B125.37
ASSE 1037
CSA B125.37
IPC
WaterSense

*Complies with ADA & ICC A117.1 accessibility requirements when installed according to the requirements outlined in these standards.

*This product should be used with a WaterSense labeled counterpart with a compatible flow volume to ensure that the entire system meets the requirements for water efficiency and performance.

**Although products with certain combinations of options and features will meet or comply with these standards and/or certifications, not every combination of options and features will result in such compliance. If you have any questions about your particular product, please contact our Customer Care Dept. at 1-855-ONE-ZURN (United States) or 1-877-892-5216 (Canada) for confirmation.*

Installation Guide - FV541.pdf

Architectural/Engineering Approval

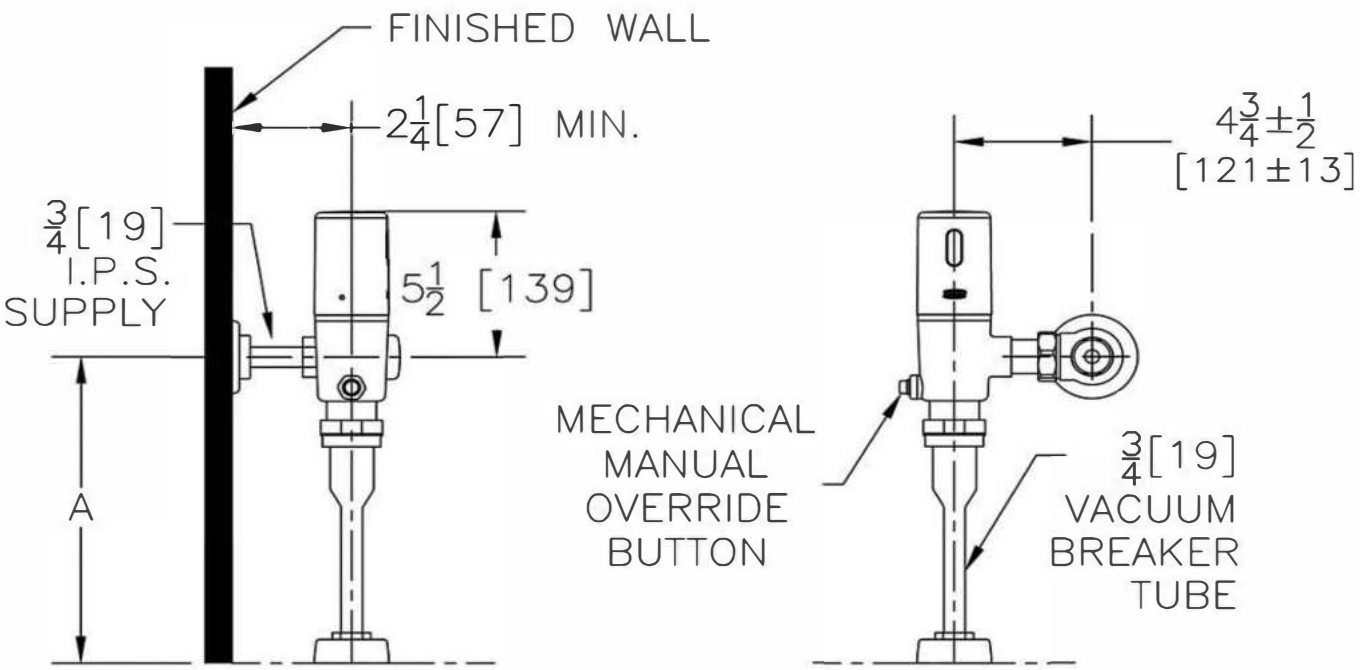
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Model(s) ZTR6203

ZTR Sensor Flush Valve

TAG_____



NOTE: All dimensions are for reference only. Do not use for pre-plumbing.

Design and dimensional data (inches and [mm]) are subject to manufacturing tolerances and change without notice.

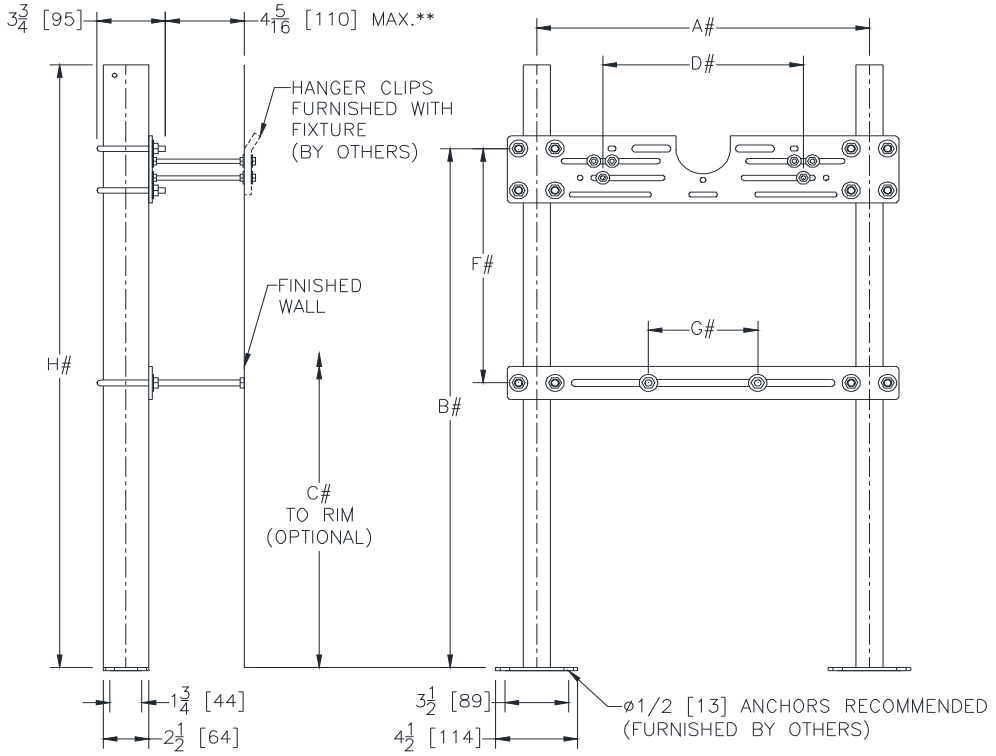
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Z1222
PLATE TYPE SYSTEM
WITH BEARING PLATE

SPECIFICATION SHEET

TAG _____

Dimensional Data (inches and [mm]) are Subject to Manufacturing Tolerances and Change Without Notice



**WITH STANDARD STUD LENGTH OF 6 [152]
REFER TO ROUGH-IN GUIDE OF SPECIFIC FIXTURE FOR DIMENSION

Product No.	Approx. Wt. Lbs. [kg]
Z1222	30 [14]

ENGINEERING SPECIFICATION: ZURN Z1222
Wall urinal support system complete with Dura-Coated carbon structural steel rectangular tubing uprights, conforming to ASTM A500 Grade C, with welded base feet having slotted floor anchor holes. Lower bearing plate is vertically adjustable with slot to accommodate bearing jack placement. Upper universal hanger plate is pre-notched for back spud inlet and is designed for various hardware positions and fixtures. Includes mounting fasteners and hardware. Carrier system exceeds load and deflection requirements as outlined in ASME Standard A112.6.1M.

OPTIONS (Check/specify appropriate options)

PREFIXES

_____	Z	Dura-Coated System with Universal Plate*

SUFFIXES

_____	-EZ	Easy to Install Assembly (Uprights, bearing plate, and hanger plate are factory assembled)
_____	-UA	Urinal Adapter
_____	-58	Flush Valve Supply Support

* Regularly furnished unless otherwise specified.

Zurn Industries, LLC | **Specification Drainage Operation**
1801 Pittsburgh Avenue, Erie, PA U.S.A. 16502 · Ph. 855-663-9876, Fax 814-454-7929
In Canada | **Zurn Industries Limited**
3544 Nashua Drive, Mississauga, Ontario L4V 1L2 · Ph. 905-405-8272, Fax 905-405-1292
www.zurn.com

Rev. G
Date: 09/27/2017
C.N. No. 137976
Prod. | Dwg. No. Z1222



2.16 HIGHLANDS BUILDING ROGERS

Datasheets

WC-2

Model(s) Z5665-BWL1

EcoVantage® Floor-Mount Siphon-Jet Toilet Bowl, ADA Height

TAG_____

Architectural/Engineering Specification:

Vitreous China, floor mounted, bottom outlet toilet with siphon jet flushing action and elongated front rim with 1-1/2" spud. This bowl is designed to perform to industry standards with as little as 1.1 gallons per flush.

PRODUCT FEATURES:

- Zurn High Efficiency Toilets and paired performance flush valve systems are designed to exceed industry standards, while using as little as 1.1 gallons of water per flush.
- Vitreous china
- Elongated front rim
- 2-1/8" fully glazed trapway
- ADA Compliant Rim Height
- High efficiency siphon jet flush action
- Shipping Weight: 55 lbs.



Recommended Trim:

☐	Z5955SS-EL	Elongated, standard white, open front toilet seat less cover with stainless steel check hinge
☐	Z5972-COMB	Closet bolt and wax ring kit

Product Compliance:

ADA
ASME A112.19.2/CSA B45.1
CEC
CSA B45.1
IPC
WaterSense

*Complies with ADA & ICC A117.1 accessibility requirements when installed according to the requirements outlined in these standards.

*This product should be used with a WaterSense labeled counterpart with a compatible flow volume to ensure that the entire system meets the requirements for water efficiency and performance.

**Although products with certain combinations of options and features will meet or comply with these standards and/or certifications, not every combination of options and features will result in such compliance. If you have any questions about your particular product, please contact our Customer Care Dept. at 1-855-ONE-ZURN (United States) or 1-877-892-5216 (Canada) for confirmation.*

Installation Guide - fv867.pdf

Architectural/Engineering Approval

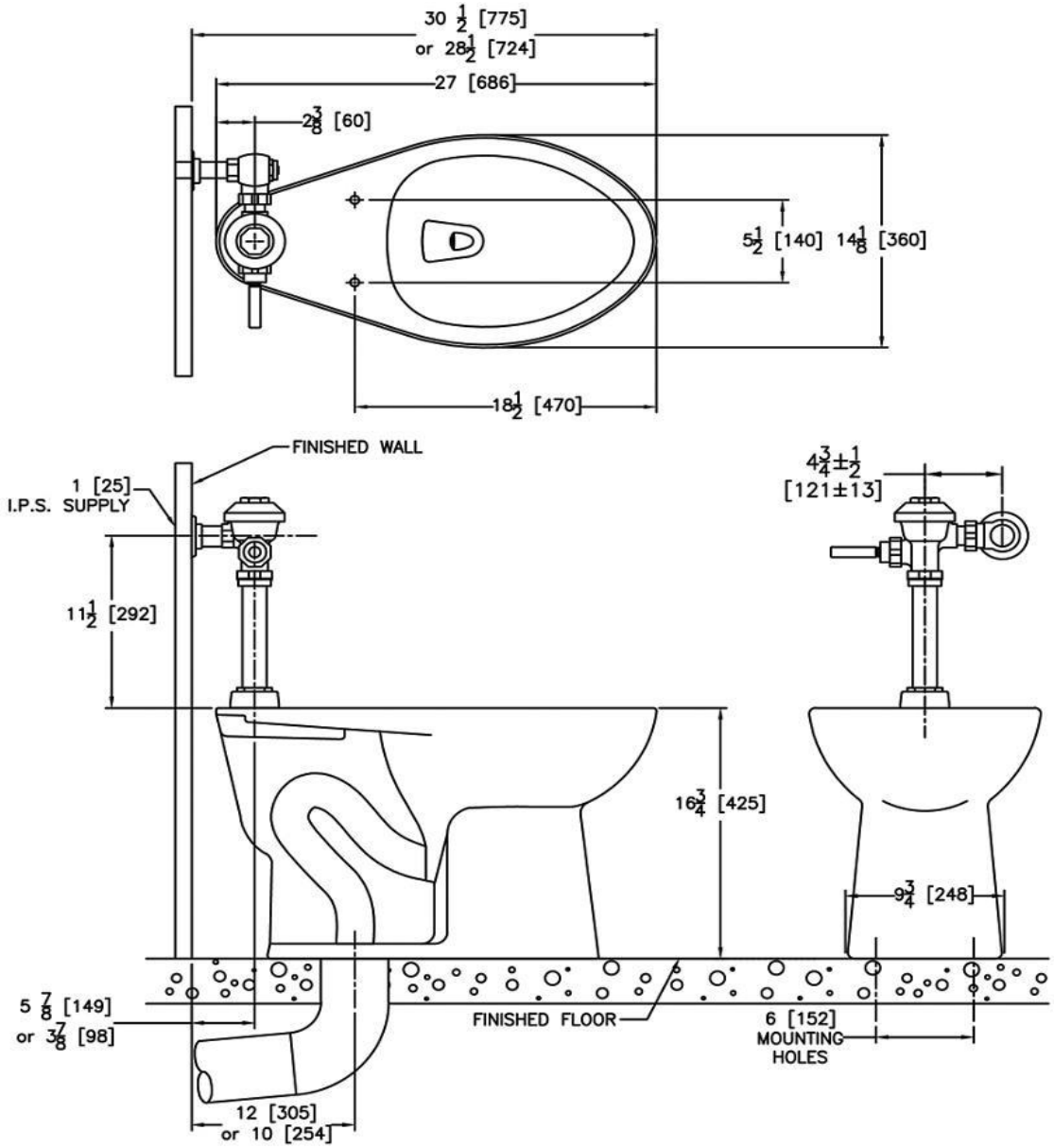
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Model(s) Z5665-BWL1

EcoVantage® Floor-Mount Siphon-Jet Toilet Bowl, ADA Height

TAG_____



NOTE: All dimensions are for reference only. Do not use for pre-plumbing.

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ZTR6200

Battery Powered Exposed Sensor Flush Valve for Water Closets

TAG _____

Architectural/Engineering Specification:

Exposed, quiet piston-type, chrome plated flushometer valve with a polished exterior. Complete with chloramine resistant, filtered piston kit. The valve incorporates a battery powered solenoid actuator, automatic sensor with manual override push button, and robust vandal resistant metal cover with 10 degree angled sensor.

Product Features:

- Proprietary Dezincification resistant low lead brass alloy
- Control Stop has internal siphon-guard protection and vandal resistant stop cap, Sweat solder kit, wall flange with set screw.
- High back pressure Vacuum Breaker with one piece hex coupling nut
- Chloramine resistant Internal seals
- Adjustable tailpiece
- Spud coupling and flange for top spud connection

Compliance and Certification:

- ADA Compliant - Operational Controls

*This product should be used with a WaterSense labeled counterpart with a compatible flush volume to ensure that the entire system meets the requirements for water efficiency and performance.

WHEN INSTALLING IN A HANDICAP STALL:

Per the ADA Guidelines (section 604.9.4) it is recommended that the grab bars be split or shifted to the wide side of the stall. If grab bars must be present over the valve, use the alternate ADA installation as shown on the next page.



Flow Options:

	Flush Volume gpf [Lpf]	Dual Flush	WaterSense Labeled*
☐ **-ONE**	1.1 gpf [4.1 Lpf]		✓
☐ **-EV**	1.28 gpf [4.8 Lpf]		✓
☐ **-WS1**	1.6 gpf [6.1 Lpf]	1.6/1.1 Gpf [6.1/4.1 Lpf]	

Note: Dual Flush feature has 60 second threshold

Suffix Options:

☐ -DF	Dual Flush Option (See Chart Above)
☐ -FM12	Floor Mount 12” Rough In
☐ -LL	10 Year Long Life Battery
☐ -YJ	Split Ring Pipe Support
☐ -YK	Solid Ring Pipe Support

Valve Height Options:

	A
☐ Standard	11 1/2” [292]
☐ -1	16” [406]
☐ -2	24” [610]
☐ -3	27” [686]

Architectural/Engineering Approval

The information contained in this document is subject to change without notice.
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Rev. D | Date: 11/11/22 | C.N. No. 144844 | Prod./Dwg. No. SS ZTR6200

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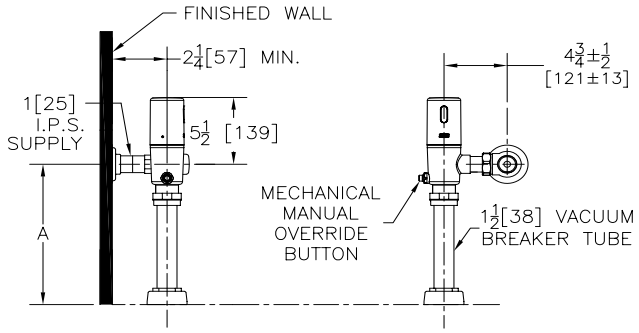
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ZTR6200

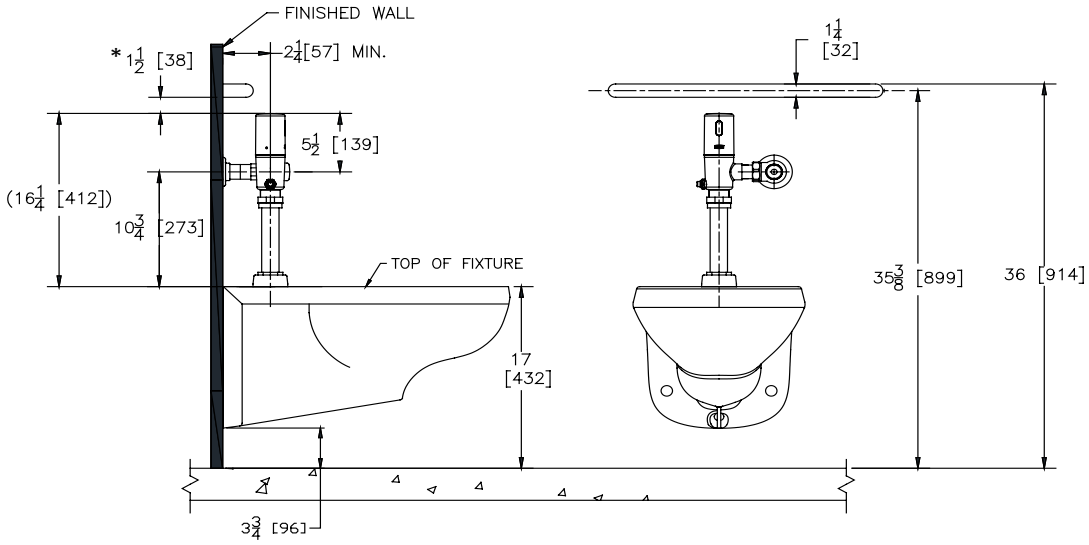
Battery Powered Exposed Sensor Flush Valve for Water Closets

TAG _____

Rough-in/Overview dimensions



Alternate ADA Installation



- Water supply rough-in to 10 3/4” (minimum) with grab bar at 36”.
- ADA compliance met using 1 1/4” grab bar as shown.
- *ADA compliant minimum gap between wall and grab bar 1 1/2”.
- Does not meet California ADA compliance for grab bar height (33” grab bar centerline required)

Rev. D | Date: 11/11/22 | C.N. No. 144844 | Prod./Dwg. No. SS ZTR6200

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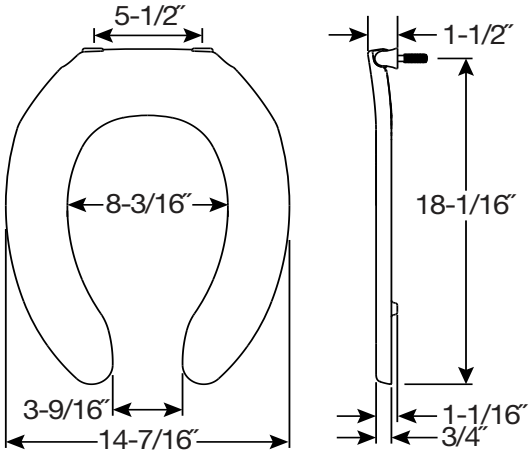
by zurn ELKAY Water Solutions

BEMIS COMMERCIAL

1055 / 1055SSC

COMMERCIAL HEAVY-DUTY
PLASTIC TOILET SEAT





SPECIFICATIONS:

Size: Elongated

Material: Plastic

Style: Open Front less Cover

Ring Bumpers: Two

Hinges: Plastic Non Self-Sustaining Check Hinge (1055) or Self-Sustaining Check Hinge (1055SSC) with Non-Corroding 300 Series Stainless Steel Posts and Pintles

Hardware: Non-Corroding 300 Series Stainless Steel Washers and Nuts

Codes & Standards: Complies with IAPMO/ANSI Z124.5 Performance Standards Heavy-Duty Commercial

Proudly Made in the USA

Eco-Friendly

Bemis Manufacturing Co. reserves the right to make revisions without notice to product specifications.
©2018 0B7012441

Harvey™ No-Seep® No. 1 Wax Gaskets



Harvey™ No-Seep® No. 1 Wax Gaskets are manufactured to fit 3 in. and 4 in. waste lines. These wax rings are recommended for setting any floor mount toilet. For more than 75 years, Harvey™ has offered a wide variety of products for the plumbing sector.

Specifications

Material:	Wax
Brand:	Harvey
Size:	3 or 4 in.
Application:	Floor Mounted Toilet
Product Type:	Wax Gasket with Sleeve
Weight:	0.333 lb.

Key Features & Benefits

- Wax toilet bowl gasket with polyethylene flange
- For setting floor mount toilet bowls with any floor type
- Fits 3 in. and 4 in. waste lines
- Stainless, waterproof and impervious to odors and gases
- Will not dry out, harden or deteriorate

BLUE MONSTER® Closet Bolts



BLUE MONSTER
Advantage™ Closet Bolts



Each kit contains:
- **2 Solid Brass Bolts**
- **2 Brass Hex Nuts**
- **2 Nylon Tinnerman Nuts**
- **2 Brass Open-End Acorn Hex Nuts**
- **4 Stainless Steel Round Washers**

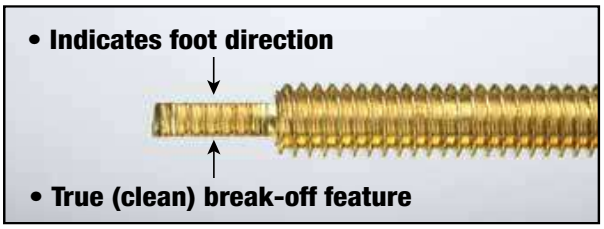
BLUE MONSTER Advantage™ Closet Bolts simplify installation to save time and ensure the job is done right. For the first time since the invention of the closet bolt, installers can tell the direction of the foot while setting the toilet. One quick glance at the unique broached tip design shows the direction of the bolt foot.

Raised knobs on the underside of the foot prevents movement after setting the toilet, simplifying the installation process. BLUE MONSTER Advantage™ Closet Bolts true break-off feature eliminates the need to saw the bolt to the proper length. The bolts are machined to facilitate a clean "break-off" at the desired level with a pair of pliers. This action takes seconds, prevents marking the china with a saw and provides a secure fit for the universal bolt cap. It also allows for easy removal of the nut if disassembly is required.

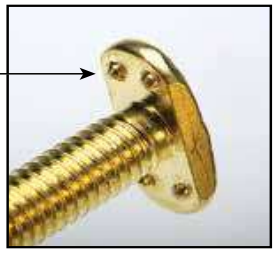


Simplifies Installation!

Patent Pending



- **Larger foot with toes that grip**
- **Easy hold back**
- **Boosts productivity**
- **Ensures proper installation**



Boost productivity with BLUE MONSTER Advantage™ Closet Bolts. Faster installation allows you to spend more time on other activities. If you save 10 minutes a day, five days a week, you've increased your productivity by 42 hours a year.

Using BLUE MONSTER Advantage™ Closet Bolts helps eliminate call-backs because the job is done right the first time.

Cat #	Size	Case Pack	Wgt.
73065	5/16" x 2-1/4"	100	16 lbs
73070	5/16" x 3-1/2"	100	22 lbs
73064	1/4" x 2-1/4"	100	10 lbs
73069	1/4" x 3-1/2"	100	16 lbs

The Mill-Rose Company • Clean-Fit Products
7310 Corporate Blvd., Mentor, OH 44060
To order call toll-free: (800) 321-3598 or Fax (440) 255-1072
Visit our web site at www.CleanFit.com • E-mail: info@CleanFit.com

COMFORT SYSTEMS USA

Quality People. Building Solutions.

Comfort Systems USA (Arkansas), Inc.
P.O. Box 16620
Little Rock, AR 72231
Phone 501-834-3320
Fax 501-834-5416

Date:	07/09/2026
Return Request:	07/30/2026
Project:	Highlands Building at Pinnacle Hills
Supplier:	Comfort Systems USA
Manufacturer:	Various
Submittal:	Emergency Plumbing Fixtures
Submittal Number:	22 50 00-01
Drawing # and Installation:	Plumbing

ARCHITECT
Crafton Tull
Fayetteville, Ar.

ENGINEER
IMEG

GENERAL CONTRACTOR
Clark Contractors
Rogers, Ar.

MECHANICAL SUBCONTRACTOR
Comfort Systems USA (Arkansas), Inc.
116 Commercial Ave.
Lowell, AR 72745
(479) 770.8992

NOTES:

CSUSA PROJECT NO.
26-5034
jzuber@comfortar.com

SUBMITTAL COMMENT SHEET

Project: 1763 - Highlands Building at Pinnacle Hills

Submittal
Spec: 22 45 00
Title: Emergency Plumbing Fixtures

General Notes by Clark:

☐ APPROVED ☑ REVIEWED
☐ APPROVED AS NOTED ☐ REJECTED
☐ REVISE & RESUBMIT

THIS SUBMITTAL HAS BEEN REVIEWED FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS. APPROVAL DOES NOT RELIEVE THE SUBCONTRACTOR/SUPPLIER OF THE RESPONSIBILITY FOR CONFORMANCE TO THE QUALITY STANDARDS AS SET FORTH IN THE CONTRACT DOCUMENTS. NOR DOES IT RELIEVE THE RESPONSIBILITY FOR FIELD VERIFICATION OF ALL CONDITIONS RELATING TO THIS CONTRACT.

OK'D BY: BA DATE: 07/21/26

CLARK CONTRACTORS



2.16 HIGHLANDS BUILDING ROGERS

Datasheets

EWS-1

SPECIFY ORIENTATION WHEN ORDERING

Guardian

Eyewashes

☐ G1849 Eyewash, Deck Mounted, AutoFlow™ 90° Swing-Down



☐ G1849LH-L ☐ G1849LH ☐ G1849LH-R ☐ G1849L ☐ G1849 ☐ G1849R



Application: AutoFlow™ eyewash for mounting on counter. Spray heads swing down from storage to operational position, activating water flow. Available in a variety of spray head configurations to minimize obstructions at a sink. *Note: If unit is not installed at a sink, floor drain should be provided underneath unit to prevent accumulation of water on floor.*

Spray Head Assembly: Two GS-Plus™ spray heads. Each head has a "flip top" dust cover, internal flow control and filter to remove impurities from the water flow.

Valve: 1/2" IPS plug-type valve with PTFE coated O-ring seals. Swinging head assembly down from storage to operational position opens orifice and activates water flow. Unit remains in operation until spray head assembly is returned to storage position.

Strainer: Unit is furnished with in-line strainer to protect valve and spray heads from debris in water line.

Mounting: Valve is installed in chrome plated brass housing. Unit mounts on countertop behind sink. Furnished with mounting hardware for securing unit to counter.

Construction: Polished chrome plated brass.

Supply: 1/2" NPT female inlet.

Sign: ANSI-compliant identification sign.

Quality Assurance: Unit is completely assembled and water tested prior to shipment.

Available Options

☐ **G6020** Thermostatic mixing valve precisely blends hot and cold water to deliver tepid water as required by ANSI Z358.1-2014. Refer to "Thermostatic Mixing Valves" section for complete technical and product selection information.

Guardian Equipment
1140 N North Branch St
Chicago, IL 60642

312 447 8100 TELEPHONE
312 447 8101 FACSIMILE
gesafety.com

Listed 8116. Units have been tested to and comply with ANSI Z358.1-2014 and the Uniform Plumbing Code.

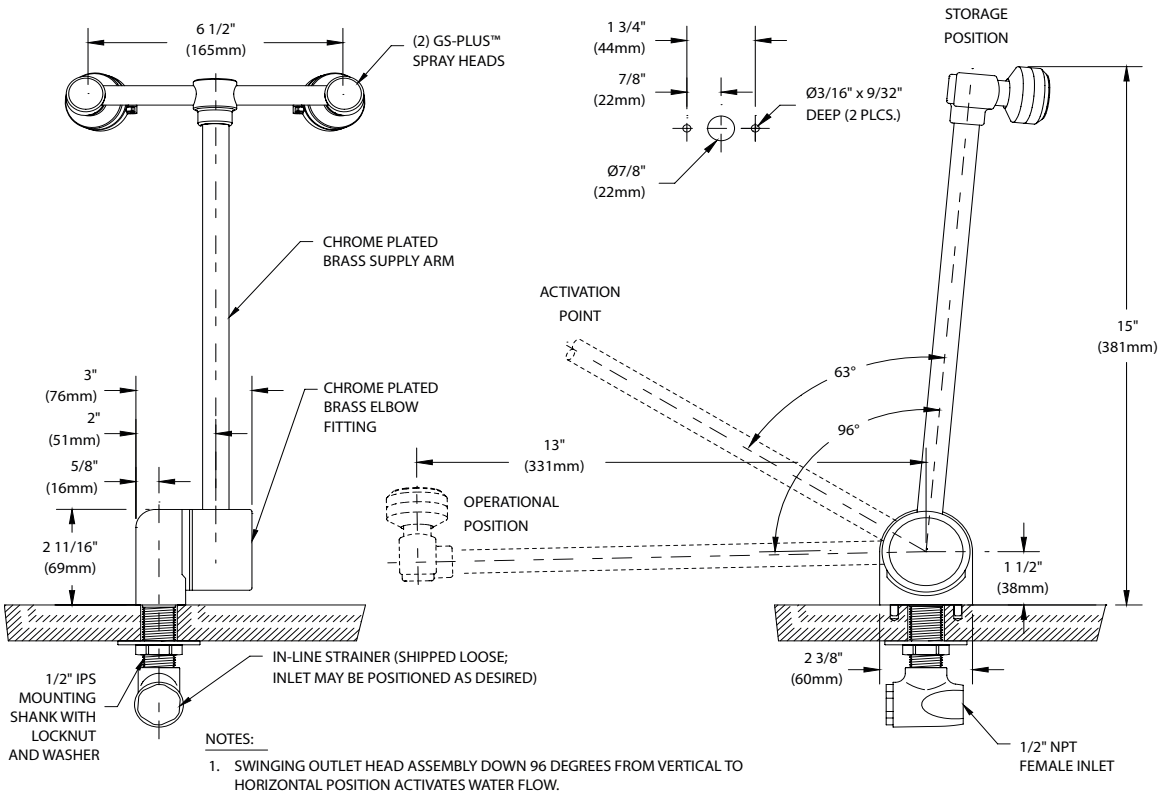
Guardian

Eyewashes

☐ G1849 Eyewash, Deck Mounted, AutoFlow™ 90° Swing-Down



☐ G1849LH-L ☐ G1849LH ☐ G1849LH-R ☐ G1849L ☐ G1849 ☐ G1849R



NOTES:

1. SWINGING OUTLET HEAD ASSEMBLY DOWN 96 DEGREES FROM VERTICAL TO HORIZONTAL POSITION ACTIVATES WATER FLOW.
2. EACH GS-PLUS™ SPRAY HEAD HAS A "FLIP-TOP" DUST COVER, INTERNAL FLOW CONTROL AND FILTER TO REMOVE IMPURITIES FROM THE WATER FLOW.
3. UNIT MOUNTS INTO COUNTERTOPS UP TO 1 1/2" THICK. BASE OF UNIT HAS PINS TO PREVENT UNIT FROM TURNING ON COUNTER.
4. UNIT IS FURNISHED WITH IN-LINE STRAINER TO PROTECT SPRAY HEADS AND VALVE COMPONENTS FROM DEBRIS IN WATER LINE.
5. VALVE BEGINS TO OPEN AT "ACTIVATION POINT" SHOWN ABOVE.

Sign Included



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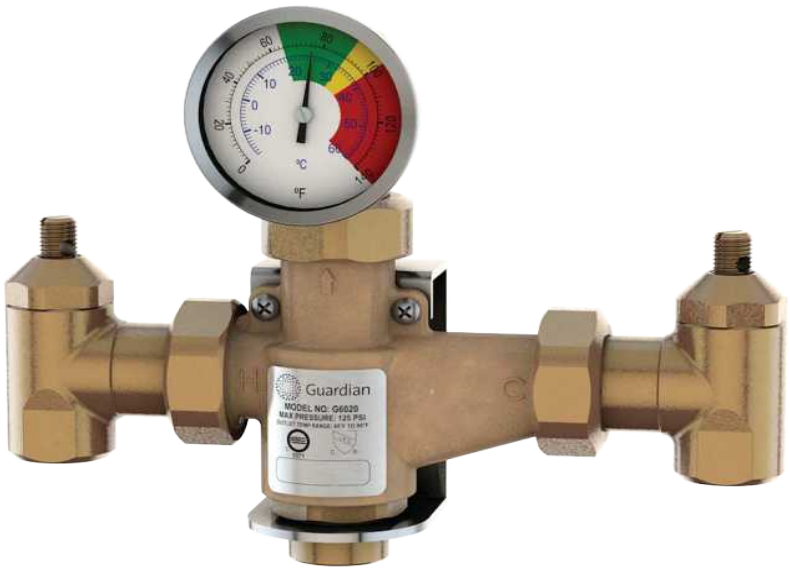
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Listed 8116. Units have been tested to and comply with ANSI Z358.1-2014 and the Uniform Plumbing Code.

Thermostatic Mixing Valves

Guardian

G6020 Thermostatic Mixing Valve, 13 Gallon/49 Liter Capacity



Application: Thermostatic mixing valve to blend hot and cold water to deliver tepid water. Valve has flow capacity of 13 gallons (49 liters) per minute at 30 PSI (2.1 bar) pressure drop. Valve can be used to supply emergency eyewash, eye/face wash or drench hose unit. Depending on water supply size and pressure, valve can supply multiple units.

Mounting: Valve inlets can be positioned on top, back or bottom of valve. Outlet can be on top or bottom. Valve can be configured in the field for any mounting position. Furnished with heavy duty stainless steel mounting bracket.

Temperature Control: Valve has precision thermal actuator that senses incoming water temperature and automatically blends water to preset temperature. Valve is factory set to deliver 85°F (29°C) water. Temperature of tepid water can be adjusted as required and then locked. Furnished with dial temperature gauge as standard to monitor temperature of tepid water.

Cold Water Bypass: If the supply of hot water is restricted or interrupted, an internal bypass allows the valve to deliver cold water only. In bypass mode, the valve delivers 9 GPM (34 L/min) at 30 PSI (2.1 bar) pressure drop.

Hot Water Shutoff: Valve has internal PTFE valve seat. If the supply of cold water is interrupted, the valve will close completely and *not deliver any water at all*, eliminating any possibility of scalding.

Flow Capacity: Refer to table below for flow capacity of valve at specified pressure drops.

Checkstops/Filters: Each inlet has a lockable shutoff valve for maintenance, internal check valve to prevent backflow and stainless steel basket filter to remove debris from the water flow.

Construction: Valve meets the requirements of the U.S. Safe Drinking Water Act as lead-free.

Inlet/Outlet: 1/2" NPT female inlets and outlet as standard.

Quality Assurance: Valve is ASSE certified under ANSI/ASSE 1071. Valve is fully assembled and factory tested prior to shipment.

Water Pressure/Temperature Requirements

Supply Pressure: Maximum incoming water pressure is 125 PSI (8.6 bar). Pressure of hot and cold water supplies can vary up to 25% and still deliver the flow and temperature required by ANSI/ASSE 1071.

Hot Water Supply Temperature: Incoming hot water temperature range is 120° - 180°F (49° - 82°C). Guardian recommends that the hot water temperature not exceed 140°F (60°C).

Cold Water Supply Temperature: Incoming cold water temperature range is 40° - 70°F (4° - 21°C). Cold water temperature must be at least 10°F (5.6°C) less than the temperature of the delivered tepid water.

Tepid Water Temperature: Temperature of tepid water is adjustable within a range of 65° - 95°F (18° - 35°C) and then locks in position. High temperature limit stop is set at 90°F (32°C) to prevent misadjustment.

Thermostatic Mixing Valves

Guardian

G6020 Thermostatic Mixing Valve, 13 Gallon/49 Liter Capacity

Pressure Drop (PSI)	1	5	10	15	20	25	30	35	40
Flow Rate (GPM)	3	5	7	8	10	11	13	13	14
Bypass Flow Rate (GPM)	3	4	5	6	7	8	9	9	10

Pressure Drop (Bar)	0.1	0.3	0.7	1.0	1.4	1.7	2.1	2.4	2.8
Flow Rate (L/min)	11	19	26	30	38	42	49	49	53
Bypass Flow Rate (L/min)	11	15	19	23	26	30	34	34	38

Ordering Information

Models

☐	G6020	Thermostatic Mixing Valve, 13 Gallon/49 Liter Capacity
☐	G6021-XXX	G6020 valve installed in surface mounted powder coated steel cabinet
☐	G6022-XXX	G6020 valve installed in surface mounted stainless steel cabinet
☐	G6023-XXX	G6020 valve installed in recess mounted powder coated steel cabinet
☐	G6024-XXX	G6020 valve installed in recess mounted stainless steel cabinet

Available Options

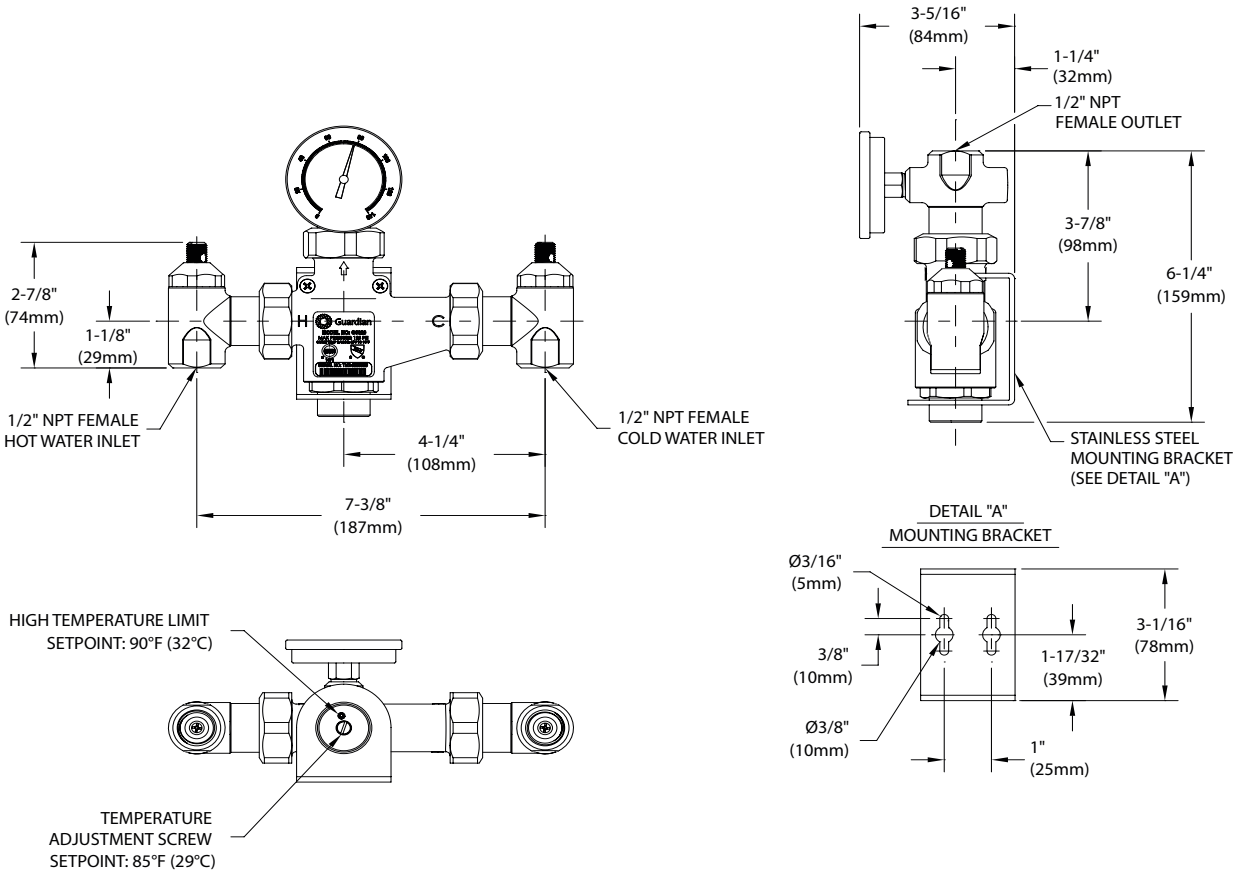
☐	Finish	Chrome plated finish in place of raw brass (add suffix “CP”)
☐	Inlet/Outlet Threads	G1/2 female thread on inlets and outlet (add suffix “G”)
☐	Temperature Gauges	Temperature gauges on hot and cold water inlets (add suffix “IT”)
☐	Pressure Gauges	Pressure gauges on hot and cold water inlets (add suffix “IP”)
☐	Temperature/Pressure Gauges	Temperature and pressure gauges on hot and cold water inlets (add suffix “ITP”)

Note: *Installation of temperature and/or pressure gauges will change rough-in dimensions of valve. Contact factory for catalog drawing.*

Thermostatic Mixing Valves

Guardian

G6020 Thermostatic Mixing Valve, 13 Gallon/49 Liter Capacity



Notes:

1. ANSI Z358.1-2014 states that the water temperature delivered by emergency equipment should be “tepid”. Tepid is defined as 60°F - 100°F (16°C - 38°C). However, in circumstances where a chemical reaction can be accelerated by water temperature, a medical professional should be consulted to determine the optimum water temperature for the application.
2. For thermostatic mixing valves to deliver the required water temperature and volume, the water system must be sized correctly. Please refer to the flow capacity, pressure and temperature requirements herein when designing the tepid water system.
3. Valve is factory set to deliver 85°F (29°C) tepid water. Depending on pressure and temperature of the incoming water supplies, this setting may require adjustment in the field. The adjustment screw is locked in position after adjusting.
4. Thermostatic mixing valves, like all emergency equipment, must be installed in accordance with the manufacturer’s instructions and maintained on a regular basis. Per ANSI Z358.1-2014, all emergency equipment should be activated weekly and inspected at least annually. Thermostatic mixing valves should be treated the same.
5. Per ANSI Z358.1-2014, plumbed emergency equipment must be connected to a potable water supply. This valve meets the requirements of the U.S. Safe Drinking Water Act as lead-free and is safe for use with potable water.
6. This valve is supplied with shutoff valves. Per ANSI Z358.1-2014, if shutoff valves are installed on the water supply to emergency equipment, the valves must be lockable to prevent unauthorized shutoff. Accordingly, each shutoff valve stem on this valve has a hole for installing a lock to secure the stem in the open position.

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2.16 HIGHLANDS BUILDING ROGERS

Datasheets

EWS-2

Guardian

Barrier-Free Units

☐ GBF1724 Barrier-Free WideArea™ Eye/Face Wash, Wall Mounted



Application: Barrier-Free WideArea™ eye/face wash for wall mounting. Bowl is lowered and extended to permit access by wheelchair user. Profile of unit is "flattened" to comply with maximum height and knee clearance requirements.

ADA Compliance: When installed at recommended mounting height, unit complies with ADA requirements for accessibility by handicapped persons (maximum height and reach, minimum knee clearance and distance from obstructions).

Spray Head Assembly: Four GS-Plus™ spray heads. Each head has a "flip top" dust cover, internal flow control and filter to remove impurities from the water flow.

Valve: 1/2" IPS chrome plated brass stay-open ball valve. Valve is US-made with chrome plated brass ball and PTFE seals.

Bowl: 11-1/8" diameter stainless steel.

Mounting: Welded stainless steel wall bracket.

Supply: 1/2" NPT female inlet.

Waste: 1-1/2" OD chrome plated brass tailpiece.

Sign: ANSI-compliant identification sign.

Quality Assurance: Unit is completely assembled and water tested prior to shipment.

Available Options

☐ **G6020** Thermostatic mixing valve precisely blends hot and cold water to deliver tepid water as required by ANSI Z358.1-2014. Refer to "Thermostatic Mixing Valves" section for complete technical and product selection information.

☐ **BC** Stainless steel cover for eye/face wash bowl.

☐ **HS** Auxiliary hand-held drench hose for rinsing eyes, face or body.

☐ **T** Chrome plated brass tailpiece and trap with 1-1/2" IPS waste connection.

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Chicago, IL 60642

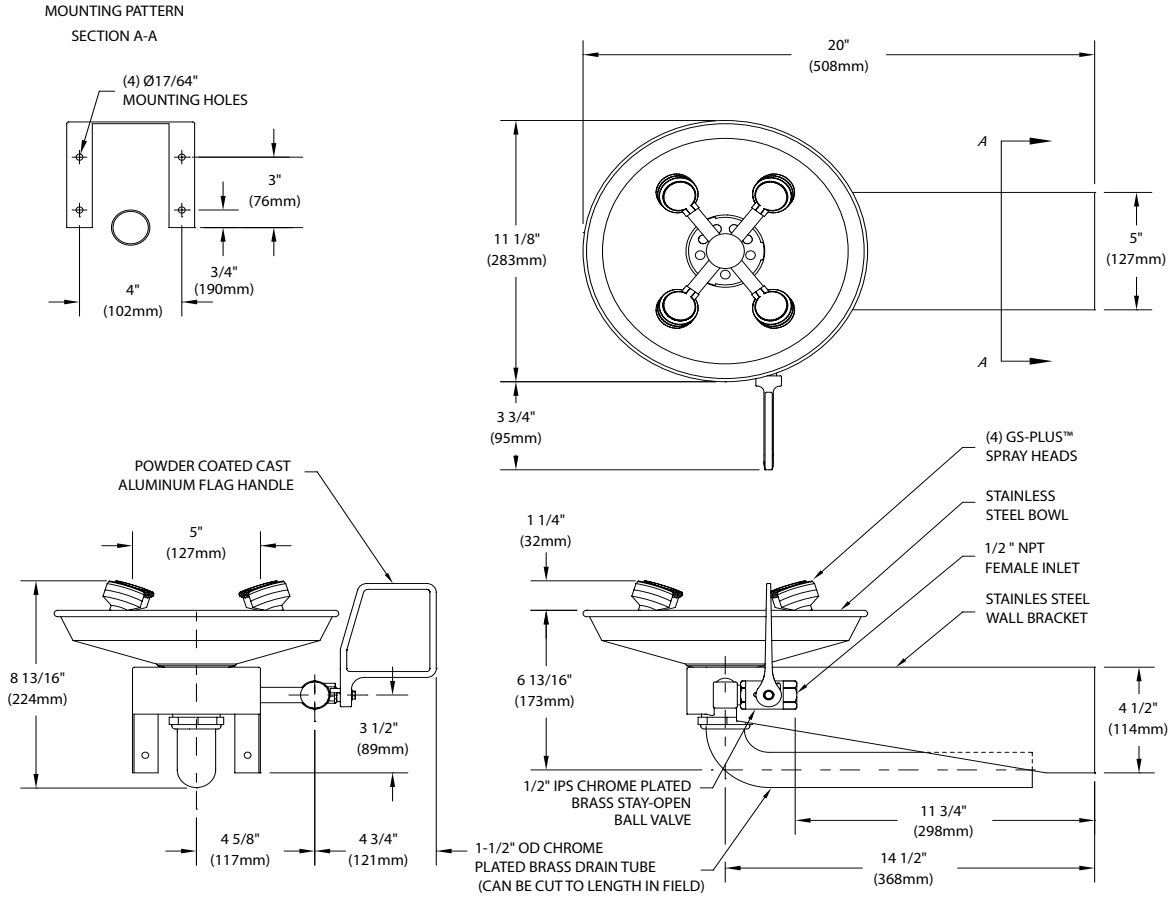
312 447 8100 TELEPHONE
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gesafety.com

Listed 8116. Units have been tested to and comply with ANSI Z358.1-2014 and the Uniform Plumbing Code.

Guardian

Barrier-Free Units

☐ GBF1724 Barrier-Free WideArea™ Eye/Face Wash, Wall Mounted



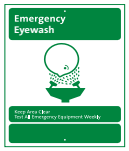
NOTES:

1. EACH GS-PLUS™ SPRAY HEAD HAS A "FLIP-TOP" DUST COVER, INTERNAL FLOW CONTROL AND FILTER TO REMOVE IMPURITIES FROM THE WATER FLOW.
2. UNIT SHOULD BE INSTALLED SO THAT SPRAY HEADS ARE NO MORE THAN 36" ABOVE FINISHED FLOOR.

Rev. 040119

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Sign Included



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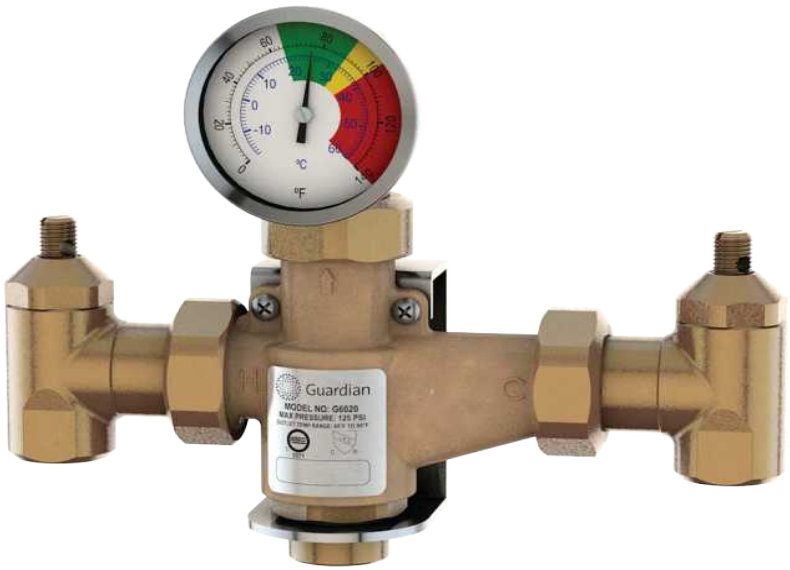
312 447 8100 TELEPHONE
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gesafety.com

Listed 8116. Units have been tested to and comply with ANSI Z358.1-2014 and the Uniform Plumbing Code.

Thermostatic Mixing Valves

Guardian

G6020 Thermostatic Mixing Valve, 13 Gallon/49 Liter Capacity



Application: Thermostatic mixing valve to blend hot and cold water to deliver tepid water. Valve has flow capacity of 13 gallons (49 liters) per minute at 30 PSI (2.1 bar) pressure drop. Valve can be used to supply emergency eyewash, eye/face wash or drench hose unit. Depending on water supply size and pressure, valve can supply multiple units.

Mounting: Valve inlets can be positioned on top, back or bottom of valve. Outlet can be on top or bottom. Valve can be configured in the field for any mounting position. Furnished with heavy duty stainless steel mounting bracket.

Temperature Control: Valve has precision thermal actuator that senses incoming water temperature and automatically blends water to preset temperature. Valve is factory set to deliver 85°F (29°C) water. Temperature of tepid water can be adjusted as required and then locked. Furnished with dial temperature gauge as standard to monitor temperature of tepid water.

Cold Water Bypass: If the supply of hot water is restricted or interrupted, an internal bypass allows the valve to deliver cold water only. In bypass mode, the valve delivers 9 GPM (34 L/min) at 30 PSI (2.1 bar) pressure drop.

Hot Water Shutoff: Valve has internal PTFE valve seat. If the supply of cold water is interrupted, the valve will close completely and *not deliver any water at all*, eliminating any possibility of scalding.

Flow Capacity: Refer to table below for flow capacity of valve at specified pressure drops.

Checkstops/Filters: Each inlet has a lockable shutoff valve for maintenance, internal check valve to prevent backflow and stainless steel basket filter to remove debris from the water flow.

Construction: Valve meets the requirements of the U.S. Safe Drinking Water Act as lead-free.

Inlet/Outlet: 1/2" NPT female inlets and outlet as standard.

Quality Assurance: Valve is ASSE certified under ANSI/ASSE 1071. Valve is fully assembled and factory tested prior to shipment.

Water Pressure/Temperature Requirements

Supply Pressure: Maximum incoming water pressure is 125 PSI (8.6 bar). Pressure of hot and cold water supplies can vary up to 25% and still deliver the flow and temperature required by ANSI/ASSE 1071.

Hot Water Supply Temperature: Incoming hot water temperature range is 120° - 180°F (49° - 82°C). Guardian recommends that the hot water temperature not exceed 140°F (60°C).

Cold Water Supply Temperature: Incoming cold water temperature range is 40° - 70°F (4° - 21°C). Cold water temperature must be at least 10°F (5.6°C) less than the temperature of the delivered tepid water.

Tepid Water Temperature: Temperature of tepid water is adjustable within a range of 65° - 95°F (18° - 35°C) and then locks in position. High temperature limit stop is set at 90°F (32°C) to prevent misadjustment.

Thermostatic Mixing Valves

Guardian

G6020 Thermostatic Mixing Valve, 13 Gallon/49 Liter Capacity

Pressure Drop (PSI)	1	5	10	15	20	25	30	35	40
Flow Rate (GPM)	3	5	7	8	10	11	13	13	14
Bypass Flow Rate (GPM)	3	4	5	6	7	8	9	9	10

Pressure Drop (Bar)	0.1	0.3	0.7	1.0	1.4	1.7	2.1	2.4	2.8
Flow Rate (L/min)	11	19	26	30	38	42	49	49	53
Bypass Flow Rate (L/min)	11	15	19	23	26	30	34	34	38

Ordering Information

Models

☐	G6020	Thermostatic Mixing Valve, 13 Gallon/49 Liter Capacity
☐	G6021-XXX	G6020 valve installed in surface mounted powder coated steel cabinet
☐	G6022-XXX	G6020 valve installed in surface mounted stainless steel cabinet
☐	G6023-XXX	G6020 valve installed in recess mounted powder coated steel cabinet
☐	G6024-XXX	G6020 valve installed in recess mounted stainless steel cabinet

Available Options

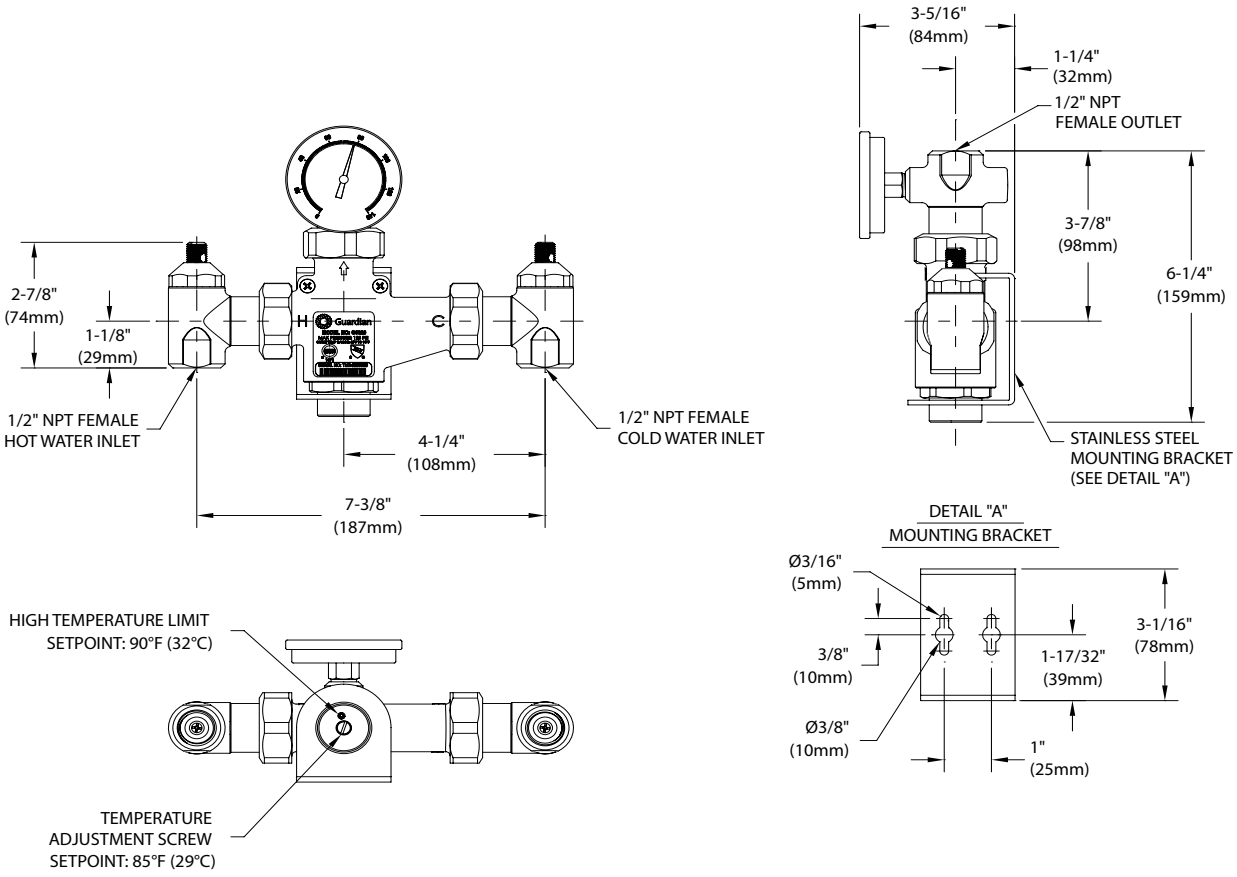
☐	Finish	Chrome plated finish in place of raw brass (add suffix “CP”)
☐	Inlet/Outlet Threads	G1/2 female thread on inlets and outlet (add suffix “G”)
☐	Temperature Gauges	Temperature gauges on hot and cold water inlets (add suffix “IT”)
☐	Pressure Gauges	Pressure gauges on hot and cold water inlets (add suffix “IP”)
☐	Temperature/Pressure Gauges	Temperature and pressure gauges on hot and cold water inlets (add suffix “ITP”)

Note: *Installation of temperature and/or pressure gauges will change rough-in dimensions of valve. Contact factory for catalog drawing.*

Thermostatic Mixing Valves

Guardian

G6020 Thermostatic Mixing Valve, 13 Gallon/49 Liter Capacity



Notes:

1. ANSI Z358.1-2014 states that the water temperature delivered by emergency equipment should be “tepid”. Tepid is defined as 60°F - 100°F (16°C - 38°C). However, in circumstances where a chemical reaction can be accelerated by water temperature, a medical professional should be consulted to determine the optimum water temperature for the application.
2. For thermostatic mixing valves to deliver the required water temperature and volume, the water system must be sized correctly. Please refer to the flow capacity, pressure and temperature requirements herein when designing the tepid water system.
3. Valve is factory set to deliver 85°F (29°C) tepid water. Depending on pressure and temperature of the incoming water supplies, this setting may require adjustment in the field. The adjustment screw is locked in position after adjusting.
4. Thermostatic mixing valves, like all emergency equipment, must be installed in accordance with the manufacturer’s instructions and maintained on a regular basis. Per ANSI Z358.1-2014, all emergency equipment should be activated weekly and inspected at least annually. Thermostatic mixing valves should be treated the same.
5. Per ANSI Z358.1-2014, plumbed emergency equipment must be connected to a potable water supply. This valve meets the requirements of the U.S. Safe Drinking Water Act as lead-free and is safe for use with potable water.
6. This valve is supplied with shutoff valves. Per ANSI Z358.1-2014, if shutoff valves are installed on the water supply to emergency equipment, the valves must be lockable to prevent unauthorized shutoff. Accordingly, each shutoff valve stem on this valve has a hole for installing a lock to secure the stem in the open position.

THIS SPACE FOR ARCHITECT/ENGINEER APPROVAL

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