



Quality People. Building Solutions.

Comfort Systems USA (Arkansas), Inc.

P.O. Box 16620

LittleRock, AR 72231

Phone 501-834-3320

Fax 501-834-5416

Date: 9/29/2025

Return Request: 10/10/2025

Project: Hot Springs National Park – Rehabilitate Bathhouses – Buckstaff Bathhouse

Supplier: Boone & Boone

Manufacturer: Thermal Solutions

Submittal: Boilers (B-1 and B-2)

Submittal Number: 235216-1.2A

Spec Section: Plan Page M7-1 (Gas-Fired Condensing Boiler Schedule)

Drawing # and Installation Location: M4-1

ARCHITECT

Kenneth Hahn Architects, Inc.

1343 S. 75th Street

Omaha, Nebraska 68124

(402)391-2111

GENERAL CONTRACTOR

Tepa, LLC

2345 Grand Blvd, Suite 700

Kansas City, Missouri 64108

(816)708-1110

ENGINEER

Alvine Engineering

1201 Cass Street

Omaha, Nebraska 68102

(402)346-7007

MECHANICAL SUBCONTRACTOR

Comfort Systems USA (Arkansas), Inc.

9924 Landers Road

North Little Rock, Arkansas 72117

(501)834-3320

Comments:

CSUSA PROJECT NO.

25-7065

joe@comfortar.com

9924 Landers Road
No. LittleRock, AR 72117



SUBMITTAL DATA SHEET

JOB NAME: Buckstaff Bathhouse HVAC Tag: B-1, B-2 DATE: _____

LOCATION: _____

ENGINEER: Alvine Engineering

REPRESENTATIVE: Boone & Boone Sales Salesman: Mark Eley 501-940-7747

CONTRACTOR: Comfort Systems, USA

SUBMITTED TO: _____

MODEL: AMP-500 FUEL: GAS



CHECK ONE: _____ REFERENCE (NOT FOR PRODUCTION)

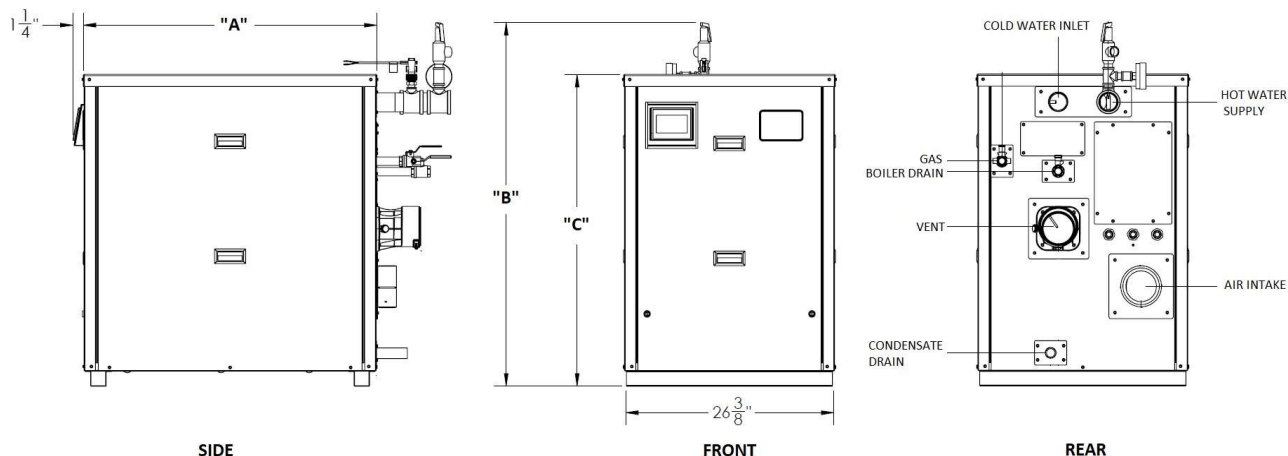
_____ APPROVED (IMMEDIATE PRODUCTION)

_____ APPROVED WITH CHANGES NOTED (IMMEDIATE PRODUCTION)

RATINGS AND TECHNICAL DATA

AMP-L MODELS	INPUT		GROSS	THERMAL	HEATING	WATER	*FUEL		SHIPPING
	MIN	MAX	OUTPUT	EFFICIENCY	SURFACE	CONTENT	NAT. GAS	PROPANE	WEIGHT
	(MBH)	(MBH)	(MBH)	(%)	(SQ/FT)	(GAL.)	MIN / MAX	MIN / MAX	(LBS)
AMP-400	40	399	387	97.0%	35	3.8	4"/14"wc	8"/14"wc	460
AMP-500	50	500	485	97.0%	39	4.3	4"/14"wc	8"/14"wc	470
AMP-650	65	650	631	97.0%	52	5.6	4"/14"wc	8"/14"wc	530
AMP-800	80	800	776	97.0%	61	6.6	4"/14"wc	8"/14"wc	560
AMP-1000L	100	999	969	97.0%	75	8.1	4"/14"wc	8"/14"wc	600

DIMENSIONS



	"A"	WIDTH	"B"	"C"	VENT / AIR INTAKE			SUPPLY	RETURN
	LENGTH		O/A HGT.	HEIGHT	SIZE	EQUIV.	GAS	OUTLET	INLET
AMP-L MODELS	(Inches)	(Inches)	(Inches)	(Inches)	(Inches)	LENGTH (Ft.)	(Inches)	NPT Female	NPT Male
AMP-400	37 3/4	26 3/8	46 7/8	38 1/2	4	Up to 200	3/4 NPT	2	2
AMP-500	37 3/4	26 3/8	46 7/8	38 1/2	4	Up to 200	3/4 NPT	2	2
AMP-650	53 7/8	26 3/8	66 3/8	38 1/2	6	Up to 200	1 NPT	2	2
AMP-800	53 7/8	26 3/8	66 3/8	38 1/2	6	Up to 200	1 NPT	2	2
AMP-1000L	53 7/8	26 3/8	66 3/8	38 1/2	6	Up to 200	1 NPT	2	2



SUBMITTAL DATA SHEET

STANDARD EQUIPMENT

PRESSURE VESSEL DESIGN

Stainless Steel Heat Exchanger
 ASME Section IV Certified, "H" Stamp
 MAWP 160 PSIG & Max Temp 210°F
 Setpoint range is 60-185°F
 Adjustable, manual reset high limit setting of $\leq 200^\circ\text{F}$.
 ASME H stamp MAWT is 210°F for the vessel.
 (For max setpoint, see Setpoint range.)
 Ten Year Limited Pressure Vessel Warranty

COMBUSTION DESIGN

Stainless Steel Pre-Mix Burner
 Low NOx Emissions (< 10 ppm)
 Full Modulation, 10:1 Turndown
 Natural Gas or Propane
 4" wc (8" wc Propane) to 14" wc inlet gas pressure
 Direct Spark Ignition System
 High/Low gas pressure switches, manual reset
 Variable Speed Combustion Blower
 Blocked Vent Switch

VENTING

Category II or IV Venting
 Individual or Common (Engineered) Vent System
 Vertical or Horizontal
 3-in-1 Vent Connector
 Acceptable venting materials: CPVC, PP or SS Venting
 Built-in vent gas sensor test port
 Combustion Air Intake - Sealed or Room

* Flue system material shall be capable of continuous operation at 210°F or higher and shall be certified to UL 1738 – venting system for gas-burning appliances cat II, III and IV.

BOILER EQUIPMENT

Concert™ Control (24 Vac)
 High Limit Temp Control, Manual Reset
 Low water cutoff, manual reset
 Water Flow Switch
 Supply & Return Water Temperature Sensors
 Flue Gas Temperature Sensor
 Condensate trap
 Blocked Condensate Switch
 Pressure & Temperature Gauge
 ASME Relief Valve
 (Available 30, 50, 60, 75, 100, 125 or 150 psig)

ELECTRICAL DESIGN

Models 400-500:

- 120 VAC Only
 Amp Draw: 7.0 Amps

Models 650-1000L:

- 120 VAC Only
 Amp Draw: 8.0 Amps
 - PCB (Printed Circuit Board) Fused Connections
24VAC/5VDC - Low Voltage PCB
 - EMS Communications
 (Dual RJ45 Jacks for Peer-To-Peer or ModBus)
 - Boiler Options (Sensors)
 - Pumps (Boiler, DHW, System) & Auxiliary Devices

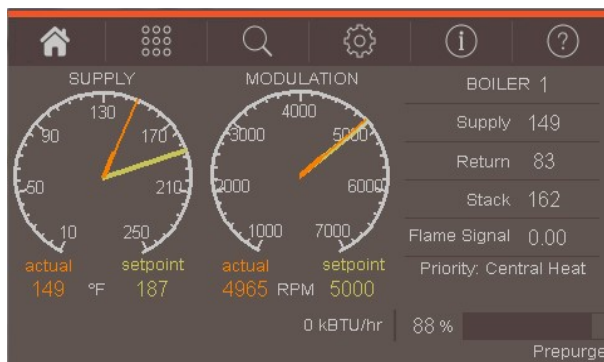
OPTIONAL EQUIPMENT

☒	Hydronic Kit (Boiler Circulation Pump, Pump Flange Kit and Condensate Neutralizer)			
☒	External High Limit Temperature Control, Manual Reset			
	Condensate Neutralizer			
☒	Supply Header Temperature Sensor:	☐	Direct Immersion	☐ Well Immersion (with Well)
	Outdoor Air Temperature Sensor:	☐	Wired	☐ Wireless
	EMS Signal Converter Kit (Converts Energy or Building Management System 0-10v signal to 4-20mA)			
	Motorized Isolation Valves			
☒	Alarm Buzzer with Silencing Switch			
	PVC Starter Kit			
☒	Universal Communications Gateway (BACnet, Metasys, Modbus or Lonworks)			
	Conductor Sequencing Panel			
	The Conductor manages multiple condensing & non-condensing, small & large heat output, new and/or existing boilers (full modulation or on-off), and steam or hot water applications. It helps improve system efficiency by selecting and modulating the right boiler to match operating conditions. The Conductor offers a single point boiler plant Energy Management System (EMS) interface including Modbus TCP/IP, Modbus RTU RS485, BACnet/IP and BACnet MSTP standard. If Lonworks needed, add for the separate Lonworks gateway.			
	Extended Warranty	☐ 3 Year Parts	☐ 5 Year Parts	☐ 10-Year Parts
			☐ 5-Yr. Prts/Lbr.	☒ 10 Yr. Prts/Lbr



SUBMITTAL DATA SHEET

CONCERT CONTROL FEATURES



Dashboard - Color Touchscreen Display, 4"

- Intuitive Icon Navigation
- "Quick" Setup Menus
- *Real Time BTU/H Display

Two (2) Temperature Demand Inputs

- Outdoor Air Reset Curve for Each Input
- Time of Day Setback Capability
(Envirocom Thermostat must be installed)

Three (3) Pump Control

- Boiler Pump With On/Off or Variable Speed Control
- Domestic Hot Water (DHW) Pump
- System Pump
- Alternative Control to Combustion
Air Damper or Standby Loss Damper
- Pump Overrun for Heat Dissipation
- Pump Exercise
- Pump Rotor Seizing Protection

Peer-to-Peer Boiler Communications

- Multiple Size Boiler Sequencing Up to 8 Units
- *Two (2) Boiler Start/Stop Trigger
- Lead Boiler Automatic Rotation

Energy Management System (EMS) Interface

- *Firing Rate and Water Temperature Based Algorithms for Multiple Boilers; loss of EMS signal defaults to local boiler settings
- 4-20mA Input/Output (0-10Vdc Optional Converter)
- ModBus Input/Output (BACnet or LonWorks Optional Gateway)
- Simultaneous Interface with Peer-to-Peer

*USB Data Port Transfer

- Upload Settings Between Boilers
- Download Parameters for Troubleshooting
- Import Data into .CRV Formatted Files for Performance Analysis

* Unique to Concert

Energy Efficiency Enhancer

- Anti-Cycling Technology
- Multiplier boiler base load common rate
- Outdoor Air Temperature Reset Curve
- Warm Weather Shutdown
- Boost Temperature & Time
- Ramp Delay
- Over-Temperature Safeguarding

Self-Guiding Diagnostics

- Identifies Fault
- Describes Possible Problems
- Provides Corrective Actions
- *Time/Date Stamp on Alarms and Lockouts

Unmatched Archives

- Historical Trends - Collects Up to 4 months Data
- Event History - Up to 3000 Alarms, Lockouts and Cycle & Run Times
- Alarm - Limit String Faults, Holds, Lockouts and Others
- Cycle & Run Time - Boilers & Pumps
- Resettable (Lockouts/Alarms/Cycles & Run Time)

Domestic Hot Water Priority

- DHW Tank Piped With Priority in the Boiler Loop
- DHW Tank Piped as a Zone in the System With the Pumps Controlled by the Concert Control
- DHW Modulation Limiting
- Status Screens
- Sensor Monitoring and Control

Other Features

- *Factory Default Settings
- Three Level Password Security
- Frost Protection
- Contractor Contacts (Up to 3)
- Low Water Flow Safety Control & Indication
- Proportion Integral Derivative (PID) Parameters for Central Heat, DWH, Sequencer and Fan
- Built-in Brown-Out Protection





Submittal Data Information

2400 Series High Capacity Circulators

101-134

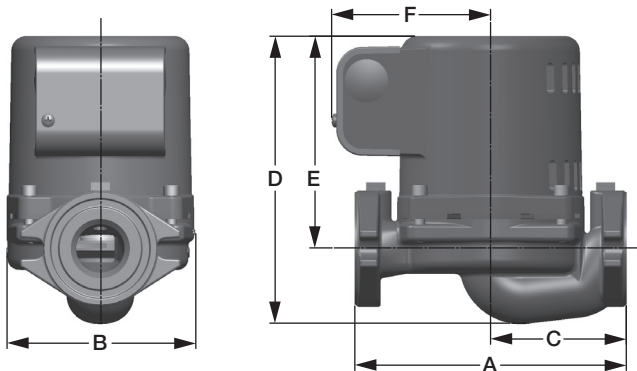
EFFECTIVE: December 3, 2024

SUPERSEDES: March 1, 2015

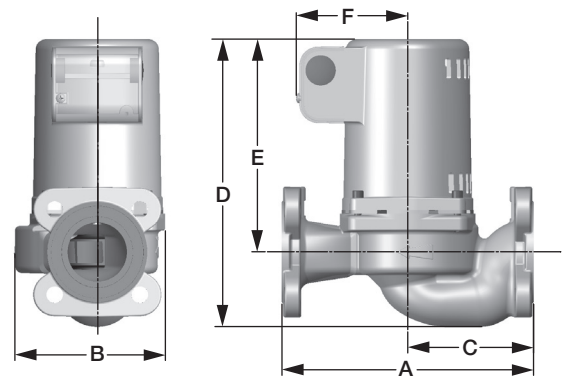
JOB _____ ENGINEER _____ CONTRACTOR _____ REP. _____

ITEM	MODEL NO.	G.P.M.	HEAD (FT.)	H.P.	ELEC. CHAR.
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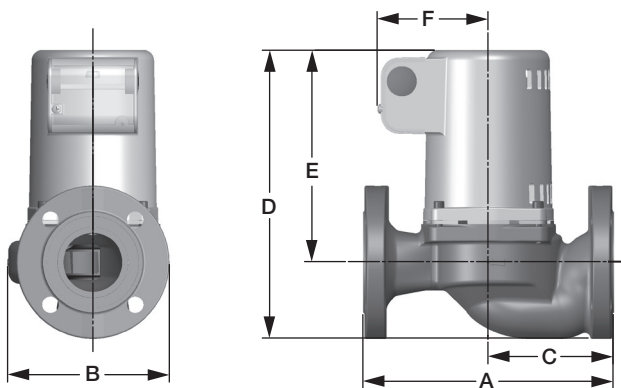
Models 2400-10-3P thru 2400-50S/2-3P



Models 2400-60-3P thru 2400-70S-3P



Models 2400-70/3-3P and 2400-70S/3-3P



PUMP DIMENSIONS & WEIGHTS

All dimensions and weights are approximate.

CAST IRON MODEL	STAINLESS STEEL MODEL	A		B		C		D		E		F		SHIP WEIGHT	
		IN.	MM	IN.	MM	IN.	MM	IN.	MM	IN.	MM	IN.	MM	LBS.	KG
2400-10-3P	2400-10S-3P	6 ³ / ₈	162	4 ¹ / ₂	114	3 ³ / ₁₆	82	6 ⁷ / ₈	175	5	127	3 ³ / ₄	95	11.5	5.3
2400-20-3P	2400-20S-3P	6 ³ / ₈	162	4 ¹ / ₂	114	3 ³ / ₁₆	82	6 ⁷ / ₈	175	5	127	3 ³ / ₄	95	12.0	5.5
2400-30-3P	2400-30S-3P	8 ¹ / ₂	216	4 ³ / ₄	121	4 ¹ / ₄	108	8	203	5 ¹ / ₄	133	3 ³ / ₄	95	14.5	6.6
2400-40-3P	2400-40S-3P	8 ¹ / ₂	216	4 ³ / ₄	121	4 ¹ / ₄	108	8	203	5 ¹ / ₄	133	3 ³ / ₄	95	14.5	6.6
2400-45-3P	2400-45S-3P	6 ³ / ₈	162	4 ⁵ / ₈	119	3 ³ / ₁₆	82	8 ³ / ₄	222	6 ⁷ / ₈	175	3 ³ / ₄	95	15.0	6.8
2400-50-3P	2400-50S-3P	6 ³ / ₈	162	4 ⁵ / ₈	119	3 ³ / ₁₆	82	8 ³ / ₄	222	6 ⁷ / ₈	175	3 ³ / ₄	95	16.0	7.3
2400-50/2-3P	2400-50S/2-3P	6 ³ / ₈	162	5 ¹ / ₄	133	3 ³ / ₁₆	82	8 ³ / ₄	222	6 ⁷ / ₈	175	3 ³ / ₄	95	16.5	7.5
2400-60-3P	2400-60S-3P	8 ¹ / ₂	216	5 ³ / ₁₆	132	4 ¹ / ₄	108	7 ⁷ / ₈	200	5 ¹ / ₄	133	3 ³ / ₄	95	18.0	8.2
2400-65-3P	2400-65S-3P	8 ¹ / ₂	216	5 ¹ / ₂	140	4 ¹ / ₄	108	9 ⁷ / ₈	251	7 ¹ / ₄	184	3 ³ / ₄	95	22.0	10.0
2400-70-3P	2400-70S-3P	8 ¹ / ₂	216	5 ¹ / ₂	140	4 ¹ / ₄	108	9 ⁷ / ₈	251	7 ¹ / ₄	184	3 ³ / ₄	95	23.0	10.4
2400-70/3-3P	2400-70S/3-3P	8 ¹ / ₂	216	6 ⁵ / ₈	168	4 ¹ / ₄	108	10 ¹ / ₂	267	7 ¹ / ₄	184	3 ³ / ₄	95	29.0	13.2

MATERIALS OF CONSTRUCTION

Casing: Cast Iron or Stainless Steel
 Seal Face Plate: Stainless Steel
 Motor Housing: Aluminum
 Impeller: 30% Glass-filled Noryl® *
 Impeller Insert: Stainless Steel
 Shaft: Stainless Steel
 Mechanical Seal: Carbon/Silicon-Carbide

Motor Bearings: Permanently lubricated ball bearing
 O-Ring/Flange Gaskets: EPDM

* Noryl is a registered trademark of General Electric Co.

MODEL NOMENCLATURE

S – Stainless Steel, Flanged
 Y – 230V/60/1 Motor

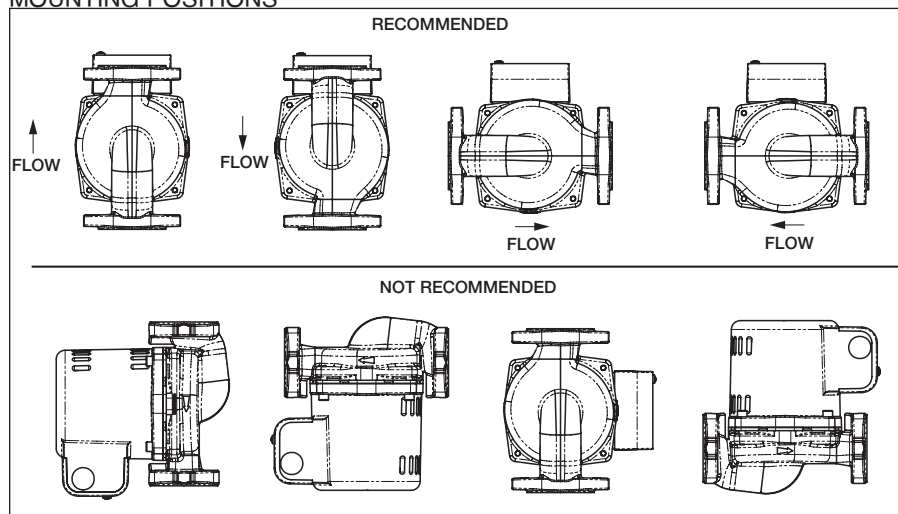
PERFORMANCE DATA

Maximum Flow: 90 GPM
 Maximum Head: 46 Feet
 Minimum Fluid Temp: 40°F (4°C)
 Maximum Fluid Temp: 225°F (107°C)
 Maximum Working Pressure: 150psi

ELECTRICAL DATA

Model Number	Hz	Ph	Amps		RPM	HP
			115 V	230 V		
2400-10-3P	60	1	1.4	0.54	3450	1/10
2400-20-3P			1.9	1.0		1/6
2400-30-3P			1.9	1.0		1/6
2400-40-3P			1.9	1.0		1/6
2400-45-3P			3.6	1.7		1/3
2400-50-3P			4.9	2.4		1/2
2400-60-3P			1.9	1.0		1/6
2400-65-3P			3.6	1.7		1/3
2400-70-3P			4.9	2.4		1/2
Motor Type	Open drip proof, permanent split capacitor, thermally protected					

MOUNTING POSITIONS



2400 SERIES COMPANION FLANGE SETS

Models	CONNECTION	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"
2400-10/10S-3P	Iron NPT	110-251F	110-252F	110-253F	110-254F	—	—	—
2400-20/20S-3P	S. Steel NPT	110-251SF	110-252SF	110-253SF	110-254SF	—	—	—
2400-45/45S-3P	Bronze SWT	110-523BSF	110-524BSF	110-525BSF	110-526BSF	—	—	—
2400-50/50S-3P	Shut-Off NPT	SF-075T	SF-100T	SF-125T	SF-150T	—	—	—
	Shut-Off SWT	SF-075S	SF-100S	SF-125S	SF-150S	—	—	—
2400-50/50S/2-3P 2", 2 bolt	Iron NPT	—	—	—	—	194-2124F	—	—
	S. Steel NPT	—	—	—	—	194-2124SF	—	—
2400-30/30S-3P 2400-40/40S-3P	Iron NPT	—	—	194-1540F	194-1542F	—	—	—
	S. Steel NPT	—	—	194-1540SF	194-1542SF	—	—	—
	Shut-Off NPT	—	—	SF-125T-0012	SF-150T-0012	—	—	—
	Shut-Off SWT	—	—	SF-125S-0012	SF-150S-0012	—	—	—
2400-60/60S-3P	Iron NPT	—	—	—	—	185-086C	—	—
2400-65/65S-3P	—	—	—	—	—	—	—	—
2400-70/70S-3P	Bronze NPT	—	—	—	—	185-086B	—	—

Taco Comfort Solutions™ A Taco Group Company

Taco, Inc., 1160 Cranston Street, Cranston, RI 02920 | Tel: (401) 942-8000

Taco (Canada), Ltd., 8450 Lawson Road, Suite #3, Milton, Ontario L9T 0J8 | Tel: (905) 564-9422

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2400 Series High Capacity Circulators

Taco 2400 Series High Capacity Circulators are specifically designed for quiet, efficient, dependable operation in a wide range of medium to high flow/head hydronic heating, chilled water cooling and hot water recirculation applications. The space saving, close-coupled, maintenance free motor with permanently lubricated, sealed-for-life bearings, Noryl® impeller and durable, carbon/silicon-carbide mechanical seal provide unmatched reliability. Available in Cast Iron or Stainless Steel construction.



Features & Benefits

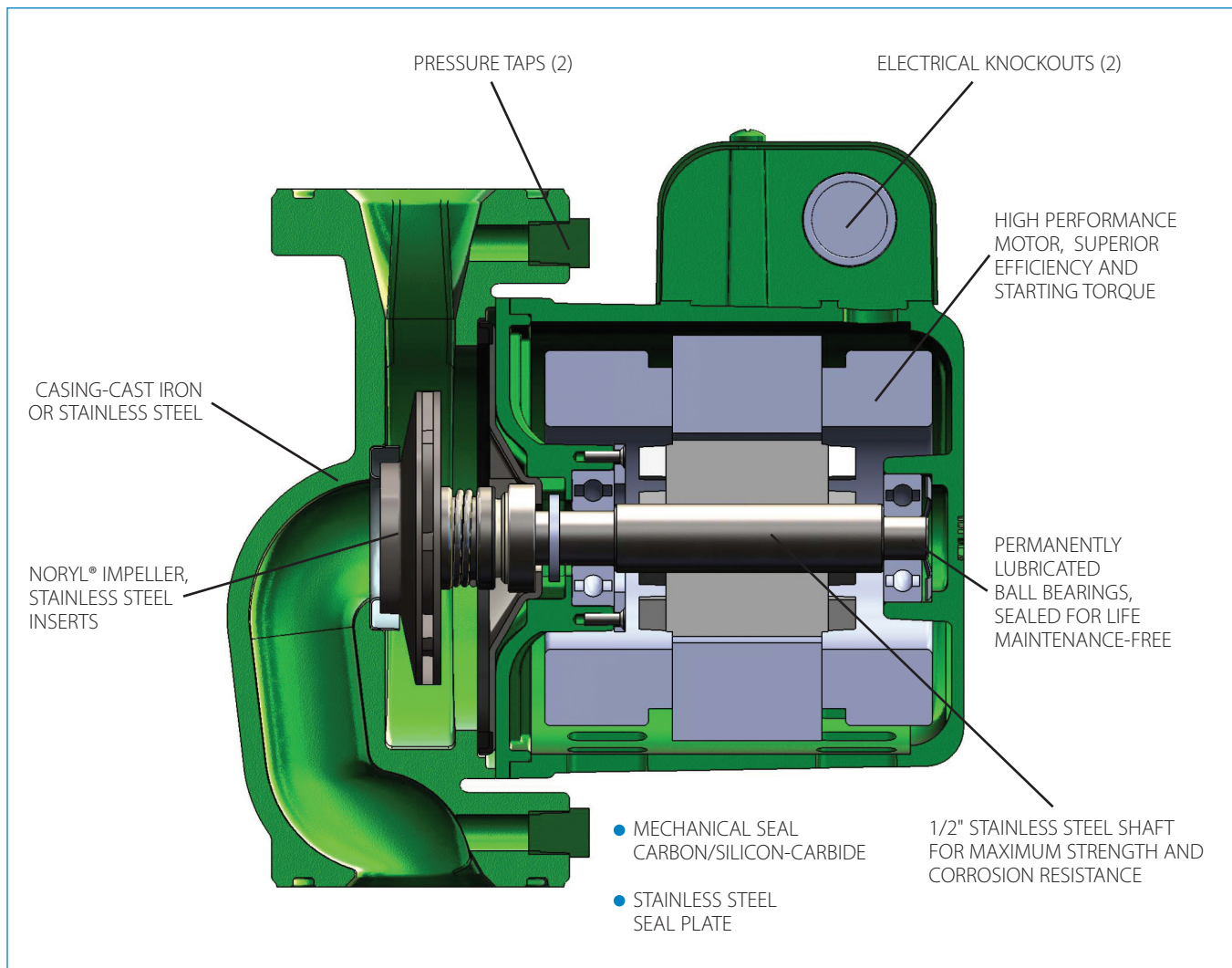
2400 Series High Capacity Circulators

Features

- Compact, space saving design
- Powerful close-coupled, maintenance free motor
- Superior efficiency, high starting torque
- Permanently lubricated, sealed for life bearings
- Rugged 1/2" Stainless Steel Shaft
- Carbon/Silicon-Carbide mechanical seal for long life
- Universal flange to flange dimensions — Ideal for retrofits
- Anti-Condensate design for chilled water
- Dual electrical knock-outs
- Dual pressure taps, suction/discharge

Application

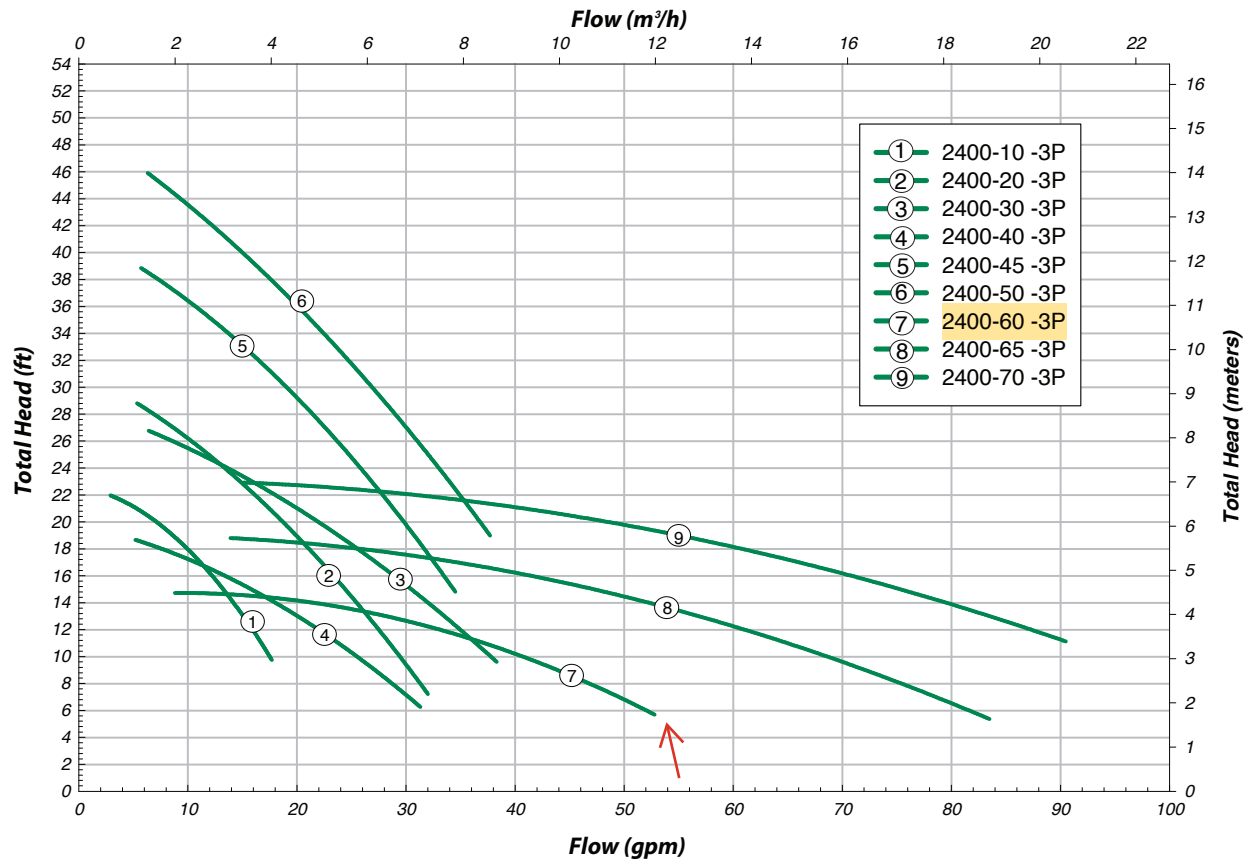
The compact 2400 Series High Capacity Circulators are designed for quiet, efficient, maintenance-free operation in a wide range of larger residential and commercial hydronic systems. Typical applications include hydronic heating, in-floor radiant, snow melt, high pressure drop boilers, outdoor wood boilers, chilled water cooling, geothermal heat pumps, primary/secondary loops and hydro air fan coils. The Stainless Steel 2400 Series should be used for open, domestic water recirculation systems. The carbon/silicon-carbide mechanical seal is easy to service in only a few minutes.



Performance Curves 2400 Series High Capacity Circulators



2400 Series High Capacity Circulators



Submittal Data Information 2400 Series High Capacity Circulators

Submittal Data # 101-134
Supersedes: 03/02/15

Effective: 05/17/16

Materials of Construction

Casing: Cast Iron or Stainless Steel
Seal Face Plate: Stainless Steel
Motor Housing: Aluminum
Impeller: 30% Glass-filled Noryl®
Impeller Insert: Stainless Steel
Shaft: Stainless Steel
Mechanical Seal (3-piece rotating):
Carbon/Silicon-Carbide
Motor Bearings:
Permanently lubricated ball bearing
O-Ring/Flange Gaskets: EPDM

Model Nomenclature

S — Stainless Steel, Flanged
Y — 230V/60/1 Motor

Performance Data

Maximum Flow: 90 GPM
Maximum Head: 46 Feet
Minimum Fluid Temp: 40°F (4°C)
Maximum Fluid Temp: 225°F (107°C)
Maximum Working Pressure: 150 psi



FOR INDOOR USE ONLY



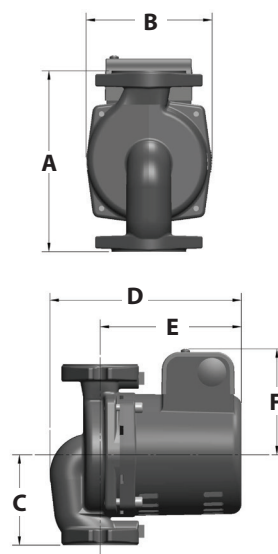
Low-Lead Compliant

Stainless Steel models only

Pump Dimensions & Weights

All dimensions and weights are approximate.

Cast Iron	Stainless Steel	A		B		C		D		E		F		Ship Wt.	
		in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	Kg
2400-10 -3P	2400-10S -3P	6-3/8	162	4-1/2	114	3-3/16	82	6-7/8	175	5	127	3-3/4	95	11.5	5.3
2400-20 -3P	2400-20S -3P	6-3/8	162	4-1/2	114	3-3/16	82	6-7/8	175	5	127	3-3/4	95	12.0	5.5
2400-30 -3P	2400-30S -3P	8-1/2	216	4-3/4	121	4-1/4	108	8	203	5-1/4	133	3-3/4	95	14.5	6.6
2400-40 -3P	2400-40S -3P	8-1/2	216	4-3/4	121	4-1/4	108	8	203	5-1/4	133	3-3/4	95	14.5	6.6
2400-45 -3P	2400-45S -3P	6-3/8	162	4-5/8	119	3-3/16	82	8-3/4	222	6-7/8	175	3-3/4	95	15.0	6.8
2400-50 -3P	2400-50S -3P	6-3/8	162	4-5/8	119	3-3/16	82	8-3/4	222	6-7/8	175	3-3/4	95	16.0	7.3
2400-50/2 -3P	2400-50S/2 -3P	6-3/8	162	5-1/4	133	3-3/16	82	8-3/4	222	6-7/8	175	3-3/4	95	16.5	7.5
2400-60 -3P	2400-60S -3P	8-1/2	216	5-3/16	132	4-1/4	108	7-7/8	200	5-1/4	133	3-3/4	95	18.0	8.2
2400-65 -3P	2400-65S -3P	8-1/2	216	5-1/2	140	4-1/4	108	9-7/8	251	7-1/4	184	3-3/4	95	22.0	10.0
2400-70 -3P	2400-70S -3P	8-1/2	216	5-1/2	140	4-1/4	108	9-7/8	251	7-1/4	184	3-3/4	95	23.0	10.4
2400-70/3 -3P	2400-70S/3 -3P	8-1/2	216	6-5/8	168	4-1/4	108	10-1/2	267	7-1/4	184	3-3/4	95	29.0	13.2

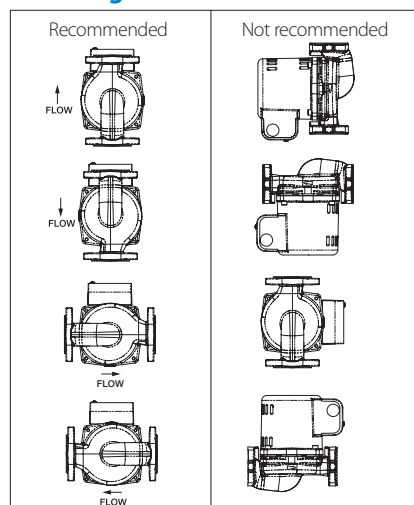


Electrical Data

Model No.	Hz	Ph	115V Amps	230V Amps	RPM	HP
2400-10 -3P	60	1	1.4	.54	3450	1/10
2400-20 -3P	60	1	1.9	1.0	3450	1/6
2400-30 -3P	60	1	1.9	1.0	3450	1/6
2400-40 -3P	60	1	1.9	1.0	3450	1/6
2400-45 -3P	60	1	3.6	1.7	3450	1/3
2400-50 -3P	60	1	4.9	2.4	3450	1/2
2400-60 -3P	60	1	1.9	1.0	3450	1/6
2400-65 -3P	60	1	3.6	1.7	3450	1/3
2400-70 -3P	60	1	4.9	2.4	3450	1/2
Motor Type		Open Drip Proof, Permanent Split Capacitor, Thermally Protected				

Noryl® is a registered trademark of General Electric Co.

Mounting Positions



2400 Series Companion Flange Sets

Models	Connection	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"
2400-10/10S -3P	Iron NPT	110-251F	110-252F	110-253F	110-254F	---	---	---
2400-20/20S -3P	S. Steel NPT	110-251SF	110-252SF	110-253SF	110-254SF	---	---	---
2400-45/45S -3P	Bronze SWT	110-523BSF	110-524BSFL	110-525BSF	110-526BSFL	---	---	---
2400-50/50S -3P	Shut-Off NPT	SF-075T	SF-100T	SF-125T	SF-150T	---	---	---
	Shut-Off SWT	SF-075S	SF-100S	SF-125S	SF-150S	---	---	---
2400-50/50S/2 -3P	Iron NPT	---	---	---	---	194-2124F	---	---
	S. Steel NPT	---	---	---	---	194-2124SF	---	---
2400-30/30S -3P	Iron NPT	---	---	194-1540F	194-1542F	---	---	---
2400-40/40S -3P	S. Steel NPT	---	---	194-1540SF	194-1542SF	---	---	---
	Shut-Off NPT	---	---	SF-125T-0012	SF-150T-0012	---	---	---
	Shut-Off SWT	---	---	SFL-125S-0012	SF-150S-0012	---	---	---
2400-60/60S -3P	Iron NPT	---	---	---	---	185-086C	---	---
2400-65/65S -3P	S. Steel, NPT	---	---	---	---	185-086S	---	---
2400-70/70S -3P								
	4-Bolt							
2400-70/70S/3 -3P	Iron NPT	---	---	---	---	---	185-112C	185-113C
	S. Steel, NPT	---	---	---	---	---	185-112S	185-113S



A Taco Group Company

Taco Inc., 1160 Cranston Street, Cranston, RI 02920 / (401) 942-8000 / Fax (401) 942-2360
Taco (Canada) Ltd., 8450 Lawson Road, Unit #3, Milton, Ontario L9T 0J8 / (905) 564-9422 / Fax (905) 564-9436
www.TacoComfort.com

Project Data

Project No:	Tag: B-1, B-2	Project Name:	Buck Staff Bath House
System No:	345283	Location:	Hot Springs, AR
Date:	5/22/2025	Layout/BOM No:	345283.01.00
Prepared for:	Boone & Boone Sales Mark Eley	Layout/BOM Title:	2 - Thermal Solutions AMP 500
Prepared by:	CENTROTHERM Eco System, L.L.C. Dylan Valikonis	Product(s):	InnoFlue SW Commercial, InnoFlue SW Residential

Quote

Qty	Item No	Description
2	IACE50	Centrocerin 50ml
1	IASJBVS	Short John Ball Valve Siphon
2	ISVCA04	4" (DN110) Flanged Adaptor for Damper.
2	ISAALE0404	4" Appliance Adaptor PVC to PPs Long - EXTENDED MALE
10	IASCM04	4" Metal Support Clamp
2	ISVL041*	4" x 12" Vent Length
10	IANS04	4" Connector Ring
2	ISTCD04	4" Tee Cap w/Drain
2	IST04	4" Tee
4	ISVL046*	4" x 72" Vent Length
2	ISELL0487	4" x 87 Elbow
16	IASCM06	6" Metal Support Clamp
1	ISVL061	6" x 12" Vent Length
1	ISHDF06	6" Horizontal Drain Fittings
2	ISBT060436	6" x 36" Branch Tee w/ 4" Feeder
1	ISVL062	6" x 24" Vent Length
7	ISVL066	6" x 72" Vent Length
2	ISEL0687	6" x 87 Elbow
2	ISVL063	6" x 36" Vent Length
1	ISBS0687	6" Base Support
1	IASPP06	6" Bird Screen PPs-UV Black
1	ISEP0639	6" x 39" End Pipe PPs-UV Black

Section Legend

Section	Product	Dia/Cross Dim	Vertical	Horizontal	Length
01	InnoFlue SW Residential	ø4	0' 0" (0")	1' 0" (12")	1' 0" (12")
02	InnoFlue SW Residential	ø4	4' 7" (55")	0' 0" (0")	4' 7" (55")
03	InnoFlue SW Residential	ø4	0' 4½" (4½")	7' 0⅛" (84⅛")	7' 0¼" (84¼")
04	InnoFlue SW Residential	ø4	0' 0" (0")	1' 0" (12")	1' 0" (12")
05	InnoFlue SW Residential	ø4	4' 9¾" (57¾")	0' 0" (0")	4' 9¾" (57¾")
06	InnoFlue SW Residential	ø4	0' 4½" (4½")	7' 0⅛" (84⅛")	7' 0¼" (84¼")
07	InnoFlue SW Commercial	ø6	0' 2½" (2½")	3' 10¾" (46¾")	3' 10⅞" (46⅞")

08	InnoFlue SW Commercial	ø6	0' 2¾" (2¾")	4' 4¾" (52¾")	4' 4⅞" (52⅞")
09	InnoFlue SW Commercial	ø6	0' 7" (7")	11' 2" (134")	11' 2⅛" (134⅛")
10	InnoFlue SW Commercial	ø6	0' 3¾" (3¾")	6' 0" (72")	6' 0⅛" (72⅛")
11	InnoFlue SW Commercial	ø6	0' 2" (2")	3' 0" (36")	3' 0" (36")
12	InnoFlue SW Commercial	ø6	30' 3½" (363½")	0' 0" (0")	30' 3½" (363½")
Total			41' 11¼" (503¼")	44' 5¾" (533¾")	84' 2¾" (1010¾")

Order of Install

Section	Qty	Item No	Description
01	1	IASCM04	4" Metal Support Clamp
01	1	ISVL041*	4" x 12" Vent Length
01	1	IANS04	4" Connector Ring
02	1	ISTCD04	4" Tee Cap w/Drain
02	1	IST04	4" Tee
02	1	IASCM04	4" Metal Support Clamp
02	1	ISVL046*	4" x 72" Vent Length
02	2	IANS04	4" Connector Ring
03	1	ISELL0487	4" x 87 Elbow
03	3	IASCM04	4" Metal Support Clamp
03	1	ISVL046*	4" x 72" Vent Length
03	2	IANS04	4" Connector Ring
04	1	IASCM04	4" Metal Support Clamp
04	1	ISVL041*	4" x 12" Vent Length
04	1	IANS04	4" Connector Ring
05	1	ISTCD04	4" Tee Cap w/Drain
05	1	IST04	4" Tee
05	1	IASCM04	4" Metal Support Clamp
05	1	ISVL046*	4" x 72" Vent Length
05	2	IANS04	4" Connector Ring
06	1	ISELL0487	4" x 87 Elbow
06	3	IASCM04	4" Metal Support Clamp
06	1	ISVL046*	4" x 72" Vent Length
06	2	IANS04	4" Connector Ring
07	2	IASCM06	6" Metal Support Clamp
07	1	ISVL061	6" x 12" Vent Length
07	1	ISHDF06	6" Horizontal Drain Fittings
07	1	IASJBVS	Short John Ball Valve Siphon
08	1	ISBT060436	6" x 36" Branch Tee w/ 4" Feeder
08	2	IASCM06	6" Metal Support Clamp
08	1	ISVL062	6" x 24" Vent Length
09	1	ISBT060436	6" x 36" Branch Tee w/ 4" Feeder
09	2	ISVL066	6" x 72" Vent Length
09	4	IASCM06	6" Metal Support Clamp
10	1	ISEL0687	6" x 87 Elbow
10	2	IASCM06	6" Metal Support Clamp
10	1	ISVL066	6" x 72" Vent Length
11	1	ISEL0687	6" x 87 Elbow
11	1	IASCM06	6" Metal Support Clamp
11	1	ISVL063	6" x 36" Vent Length
12	1	ISBS0687	6" Base Support
12	4	ISVL066	6" x 72" Vent Length
12	1	ISVL063	6" x 36" Vent Length

12	5 IASCM06	6" Metal Support Clamp
12	1 IASPP06	6" Bird Screen PPs-UV Black
12	1 ISEP0639	6" x 39" End Pipe PPs-UV Black

Last revised on 5/22/2025 3:33:24 PM. This layout was processed using Boiler/WH Application Rules.

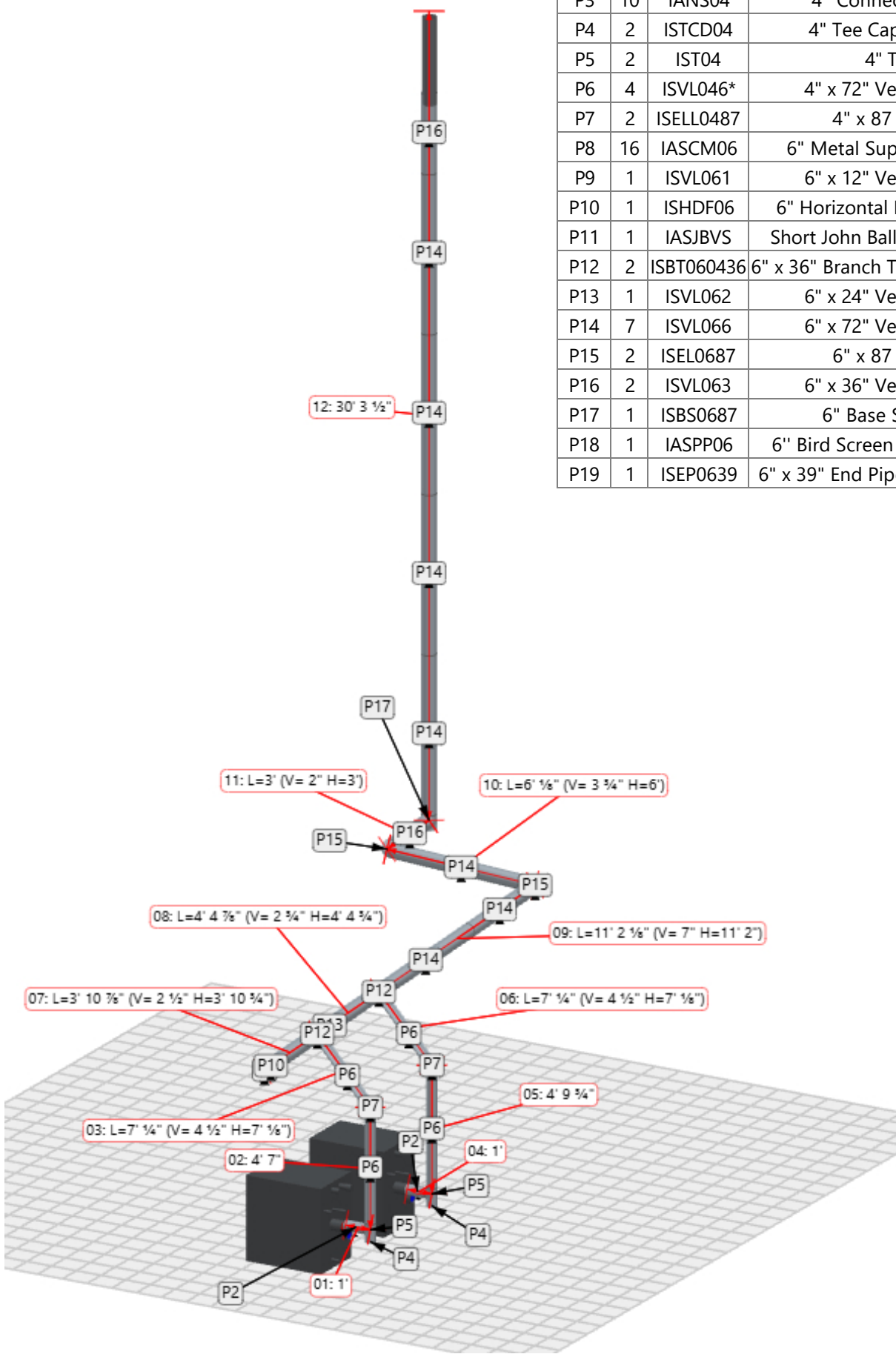
This bill of materials and proposed vent system layout is based on information provided by the customer. Installer is responsible for reading and following all InnoFlue® installation instructions, adhering to all local codes, and verifying accuracy of vent system drawing including layout and dimensions prior to placing order and installation.

Quote valid for 30 days.

Please Note: ISVL0210, ISVL0310, ISVL0410, ISVL0610, ISVL0810 ship only in carton quantities.

Contact Centrotherm for more details.

Label	Qty	Item No	Description
P1	10	IASCM04	4" Metal Support Clamp
P2	2	ISVL041*	4" x 12" Vent Length
P3	10	IAN504	4" Connector Ring
P4	2	ISTCD04	4" Tee Cap w/Drain
P5	2	IST04	4" Tee
P6	4	ISVL046*	4" x 72" Vent Length
P7	2	ISELL0487	4" x 87 Elbow
P8	16	IASCM06	6" Metal Support Clamp
P9	1	ISVL061	6" x 12" Vent Length
P10	1	ISHDF06	6" Horizontal Drain Fittings
P11	1	IASJBVS	Short John Ball Valve Siphon
P12	2	ISBT060436	6" x 36" Branch Tee w/ 4" Feeder
P13	1	ISVL062	6" x 24" Vent Length
P14	7	ISVL066	6" x 72" Vent Length
P15	2	ISEL0687	6" x 87 Elbow
P16	2	ISVL063	6" x 36" Vent Length
P17	1	ISBS0687	6" Base Support
P18	1	IASPP06	6" Bird Screen PPs-UV Black
P19	1	ISEP0639	6" x 39" End Pipe PPs-UV Black





Centrotherm
solutions beyond

Customer Boone & Boone Sales		
Project Buck Staff Bath House		
Layout 2 - Thermal Solutions AMP 500		
Date 5/22/2025	By Dylan Valikonis	
System No 345283	Ref.No	Scale None