

SUBMITTAL DATA

Date: March 26, 2025

Project: CMAID

Contractor: Comfort Systems **Engineer:** Clarks Enersen

PUMPS & HYDRONIC ACCESSORIES

Qty of one (1) Pump tagged: HRP-1

Qty of one (1) 3" x 2" Suction Diffuser

Oty of one (1) 3" Triple Duty Valve

Qty of two (2) 3" Flexible Pump Connectors

Oty of one (1) Chemical Feed Unit tagged: CF-1

Qty of one (1) High Efficiency 3" Air/Dirt Eliminator tagged: AS-1

Oty of one (1) Expansion Tank tagged: ET-1

Oty of one (1) Glycol Feed System tagged: GF-1





Project name : Default Tag Number : 001
Consulting engineer : Service :

Customer : Model : SD3020-125

Customer . Sp3020-

Customer ref. / PO : Quantity : 1

Quote Number / ID : 74588 Grundfos Partner : FLUID SOLUTIONS INC

Date last saved : 03/26/2025 2:03 PM Quoted By (Sales Engineer) : James Dayer

Construction

Nozzle	Size (in.)	Nozzle Configuration	Pos'n
Inlet	3	-	Тор
Outlet	2	-	Side

Difuser Body : Cast Iron, ASTM-A126, CL B

Hardware : Steel, ASTM A-283C

Internal Magnet : -

Strainer : SS 304, ASTM-A240, 3.5MM Holes
Mesh Grid (Startup strainer) : SS 304, ASTM-A240, (#20 Mesh)

Strainer Cover : Cast Iron, ASTM-A126, CL B

O Rings : EPDM

Coating : Standard Manufacturers Paint

Construction Code/Part Number : 97523149

Weights (Approx.)

Estimated Shipping gross weight : 27.00 lb



Description

Grundfos Series SD, Suction diffuser provides and ensures a uniform flow pattern to the suction side of the pump ensuring a stable NPSH. Suction diffuser makes it possible to install the pump in a very narrow spacing as no long bends are necessary.

The suction diffuser incorporates a cylindrical strainer preventing impurities from entering the pump. Additional feature includes an adjustable support for mounting.

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General Arrangement

: Default

.

Tag Number

: 001

: 1

Consulting engineer
Customer

Project name

_

Service Model

: SD3020-125

Customer ref. / PO

.

Quantity of pumps

EL LUD 001 LITI

Quote Number / ID

: 74588

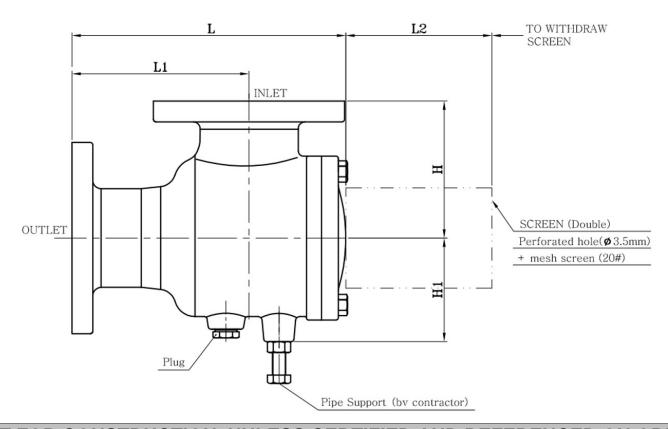
Grundfos Partner

: FLUID SOLUTIONS INC

Date last saved : 03/26/2025 2:03 PM

Quoted By (Sales Engineer)

: James Dayer



NOT FOR CONSTRUCTION, UNLESS CERTIFIED AND REFERENCED ON ORDER

Units	Inlet (in)	Outlet (in)	Strainer Area (sq in)	L (in)	L1 (in)	L2 (in)	H1 (in)	H (in)	Weight (lbs)	Purge
inches	3	2	38	10.50	7.10	5.60	3.70	5.60	27.00	1/2" NPT



Project name : Default Tag Number : 001
Consulting engineer : Service :

Customer : Model : CV30-125

Customer ref. / PO : Quantity : 1

Quote Number / ID : 74588 Grundfos Partner : FLUID SOLUTIONS INC

Date last saved : 03/26/2025 2:04 PM Quoted By (Sales Engineer) : James Dayer

Construction

Nozzle	Size (in.)	Nozzle Configuration	Pos'n
Inlet	3	-	Side
Outlet	3	-	Side

Valve Body : ASTM A395

Seat Guide : -

Disc : Bronze ASTM B124 C37700

Spring : Stainless Steel, ASTM A240-304

Packing Gland : Bronze ASTM B124 C37700

Stem Packing : -

Yoke : Steel ASTM A283-C

Indicator : -

Hand wheel : Ductile iron A395

Construction Code/Part Number : 96877844

Weights (Approx.)

Estimated Shipping gross weight : 52.00 lb

Grundros Combination valves



Description

Grundfos Series CV, Combination valve combines three valves in one: shut-off valve, balancing valve, and check valve. The combination valve makes it possible to reduce the overall system pressure drop since fewer individual components are needed when installing a pump.

The combination valve provides the feature of changing the flange orientation to allow 90° pipe connection. Additional feature includes a built-in bypass valve allowing for drainage of water upstream of the check valve.

-



General Arrangement

: Default Project name

Tag Number

: 001

Consulting engineer

Service Model

: CV30-125

Customer ref. / PO

Customer

Quantity of pumps

: 1

Quote Number / ID

: 74588

Grundfos Partner

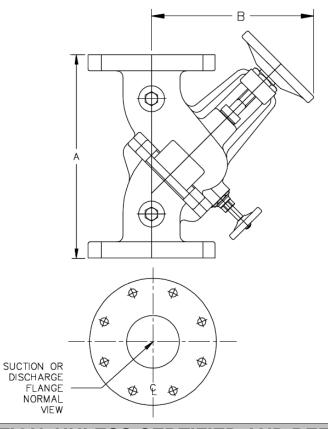
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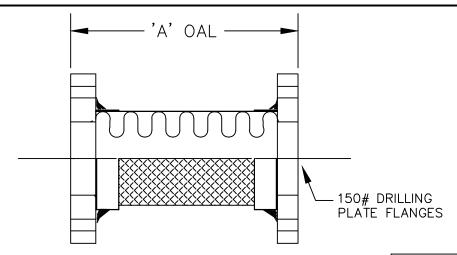
Quoted By (Sales Engineer)

: James Dayer



NOT FOR CONSTRUCTION, UNLESS CERTIFIED AND REFERENCED ON ORDER

Units	Inlet (in)	Outlet (in)	A (in)	B (in)	Weight (lbs)
inches	3	3	11.65	9.61	52.00



BILL OF MATERIAL:

HOSE: BRAID: T-321 STN STL T-304 STN STL

FLANGE:

CARBON STEEL

MAXIMUM LATERAL DEFLECTION = 1/8"

FOR ABOVE	
TEMP. F	FACTOR
70	1.00
200	0.94
300	0.88
400	0.83
500	0.78
600	0.74

TAG #	LOCATION	HOSE DIA[IN]	KEFLEX PART #	PRES @ 70°F	'A' OAL
		2 "	F020SKSSPCF	400	9"
		2 1/2"	F024SKSSPC	320	9"
Pumps	Qty 2	3"	F030SKSSPC	310	9"
		4"	F040SKSSPC	250	9"
		5"	F050SKSSPC	185	11"
		6"	F060SKSSPC	165	11"
		8"	F080SKSSPC	150	12"
		10"	F100SKSSPC	150	13"
		12"	F120SKSSPC	120	14"

NOTE: FOR SAFE WORKING PRESSURE MULTIPLY PRESSURE RATING AT 70 F° BY THE APPLICABLE CORRECTION FACTOR.

CUSTOMER: Comfort Systems
PROJECT: CAMID
ENGINEER: ______
ARCHITECT: ______

DRAWN	DG		k	(EFLE	X PRODU	CTS	
DATE	12 NOV 01				5 LAKE AVENUE ODSTOCK, ILLINOIS 60	098	
CHECKED		TITLE	CII \/E	D 0E	DIEC CT/	AINLESS STEEL	
APPROVED	DG	P				# PLATE FLANG	GES
QC			FSCM NO.		DWG NO.	,	REV
FILE	SUBSFLG4.DWG	Α	877	38	SUBMITTAL	_ DRAWING	-
JOB	SUBMITTAL	SCALE	NONE			SHEET 1 OF 1	



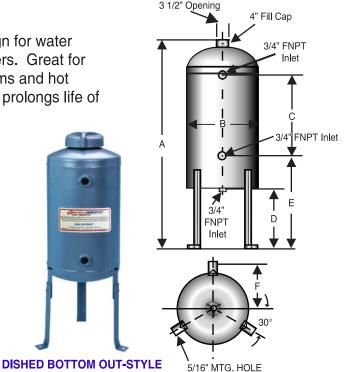
VFT Series Chemical By-Pass Feeder Tank

The Wheatley Chemical By-Pass Feeder Tank is design for water treatment in closed circulating water systems and boilers. Great for use with chilled water treatment such as cooling systems and hot water treatment in heating systems. This series assist prolongs life of heating and cooling systems.

Features:

- Carbon Steel Construction
- Self Supported Bottom
- Coarse Thread with 2 1/2 turn design
- Working pressure rated at 300 PSI
- Caps are Easy Quick Opening
- Cap is Cast Iron with Buna N Ring Wide Mouth
- Bottom of cap is epoxy coated for liquid
- F Models Includes built in support for filter assembly





	PART	VOL.	HGT	DIAM.					WGT
	NUMBER	GALS.	A (IN.)	B (IN.)	C (IN.)	D (IN.)	E (IN.)	F (IN.)	(LBS)
	VFT-002-O	2	31 1/4"	6"	12 3/4"	8 5/8"	13 1/4"	4 1/8"	23
	VFT-002-F	2	31 1/4"	6"	12 3/4"	8 5/8"	13 1/4"	4 1/8"	23
>	VFT-005-O	5	29 3/4"	10"	10 1/2"	8"	13"	6 1/8"	38
	VFT-005-F	5	29 3/4"	10"	10 1/2"	8"	13"	6 1/8"	38





All packaging materials, thread protectors, plastic plugs and caps must be removed before installation. Dimensions are subject to change without notice, please confirm actual dimensions with factory at time of order.

JOB NAME	CAMID
LOCATION	
CONTRACT CONTRACT	OR OR P.O. NO

ITEMS	QUANTITY

nerican WHEATLEY **HVAC PRODUCTS**

2701 W. Concord Street **Broken Arrow, OK 74012** Toll Free: 866-204-5229 PH: 918-317-0401 FAX: 918-317-0407 www.wheatleyhvac.com

e-mail: sales@globalflowproducts.com



SUBMITTAL DATA

AIR ELIMINATOR & DIRT SEPARATOR STANDARD VELOCITY WITH REMOVABLE or FIXED COVER 2" - 24" Flanged Connections

Standard Features

1. Air Vent

2. Flanged Connections

- 3. Blow Down Valve
- 4. Skim Valve
- 5. Removable or Fixed Head
- 6. ASME Nameplate
- 7. Sight Glass (4)*
- 8. Gauge Tap (2)*

*Less Options:

Minus Sight Glass x4 Minus Gauge Tap x2

MATERIALS OF CONSTRUCTION

Coalescing Media	Stainless Steel			
Shell	Carbon Steel			
Blow Down Valve	Bronze			
Skim Valve	Bronze			
Air Vent	Model 720			

NOTE: IF REQUIRED, THE LOWER HEAD AND COALESCING MEDIA ARE REMOVABLE FOR CLEANING ON THE 'R' TYPE HEAD.

MAXIMUM OPERATING CONDITIONS

Maximum Working Pressure (2"-12")	175 PSIG				
Maximum Working Pressure (14"-24")	150 PSIG				
Maximum Working Temperature	250° F				





DISTANCE REQUIRED TO REMOVE BUNDLE

Separation Type
A=Air Only
D=Dirt Only
B=Both Air and Dirt
4=Hydraulic Separator Velocity



7

Head Type

- 5

- 3





Options W=with options X=less options

DIMENSIONS

MODEL	CONNECTION	(INCHES)						WEIGHT	WEIGHT
MODEL	SIZE**	А	В	D	W	Н	(GPM)	(LBS.) GBSR	(LBS.) GBSF
GBS*-020-*	2"	12.00	24.50	11.00	15.25	26.50	65	150	120
GBS*-025-*	2.5"	12.00	24.50	11.00	15.75	26.50	95	150	120
GBS*-030-*	3"	12.00	24.50	11.00	20.25	26.50	150	150	120
GBS*-040-*	4"	15.00	29.00	13.50	20.63	33.00	250	250	200
GBS*-050-*	5"	19.00	39.00	16.00	27.75	44.00	380	310	240
GBS*-060-*	6"	19.00	41.00	19.00	27.75	44.00	560	375	265
GBS*-080-*	8"	24.00	49.00	23.50	33.63	54.50	970	700	530
GBS*-100-*	10"	33.00	63.00	27.50	37.50	75.00	1510	1000	730
GBS*-120-*	12"	38.00	78.00	32.00	42.50	90.00	2130	1500	1110
GBS*-140-*	14"	43.00	94.00	35.00	45.00	104.00	2880	1950	1670
GBS*-160-*	16"	56.00	118.00	35.00	50.00	141.00	3760	2325	2045
GBS*-180-*	18"	55.00	121.00	41.62	56.00	138.00	4760	3250	2800
GBS*-200-*	20"	68.00	145.00	41.62	61.50	175.00	5880	4575	4125
GBS*-240-*	24"	73.00	150.00	55.00	72.00	175.00	8460	7250	6370

**ANSI B16.5 150 PSI FLANGE

DESIGNED AND CONSTRUCTED PER ASME SECTION VIII, DIV. 1

Job Name	CAMID
Location	
Engineer	
Architect	
Sales Rep.	
Contractor	Comfort Systems

Model Num	GBSF-030-L	
Temperatui	re	
Capacity	150 GPM	
Liquid		
Notes		



SUBMITTAL

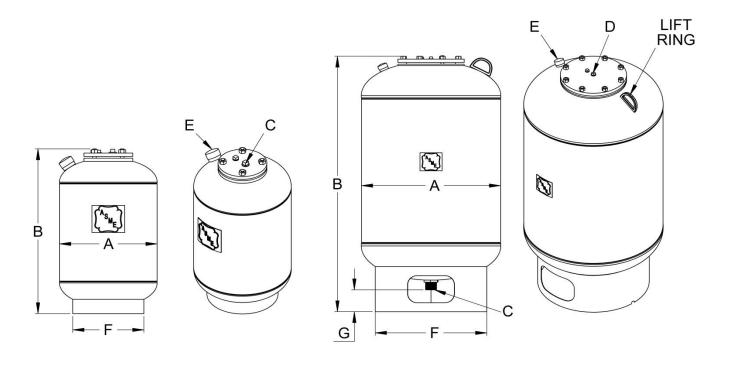
GNLA-SERIES

HYDRONIC EXPANSION TANKS

Models: GNLA- 35 thru GNLA-800L

				Submittal Sheet No. A-1010A	Date: 1/18
Job Na	me			Submitted By	Date
Locatio				Approved By	Date
				Order No.	
 Engine				Notes	
				110103	
Sales	Кер				
bladder They and constain compate contain butyl waterlo	os GNLA To type pre- are designed ontrol the particles. The systible with ed in a bladder that agging problem	to absorb the operation to absorb the operation to absorb the operation to a second the operation the operation to a second the operation to a second the operation theorem the operation theorem the operation the op	pansion tan expansion force heating/cooli ed water (fu mixtures) nce heavy-du c corrosion a expansion tan	ks. Bladder: Heavy Duty Butyl System Connection: Carbo System Connection: Carbo Performance Limitation Maximum Design Tempera Maximum Design Pressure	ns ture: 240°F
	Model Number	Part Number	Tank Volume (Gallons)	Tagging Information	Quantity
	GNLA-35	99397643	10		
	GNLA-50	99397644	13		
\longrightarrow	GNLA-85	99397645	23	ET-1	
	GNLA-130	99397646	35		
	GNLA-200	99397647	53		
	GNLA-300	99397648	79		
	GNLA-400	99397649	106		
	GNLA-500	99397650	132		
	GNLA-600	99397651	158		
	GNLA-800L	99397652	211		
Furnish (high) connec the tar	pre-charged st tions and a 0.3 lk to meet sys	s shown on pl eel expansion 302"-32 chargin stem requirem	tank with hea g valve conned ents. The tal	gallon" diamence of the stank shall and the stank shall be constructed in accordance oiler and Pressure Vessel Code.	II have NPT system e on-site charging of

Each tank shall be Grundfos model number GNLA-_____ or approved equal.



GNLA-35 and GNLA-50

GNLA-85 thru GNLA-800L

Dimensions & Weights

Dimensions in Inches								
Model Number			System Connection		Charging Valve			Approx. Ship Wt. (lbs)
	Α	В	С	D	Е	F	G	(1.55)
GNLA-35	12	23 1/2	3/4	-		10	-	40
GNLA-50	14	24	3/4	-		10	-	50
GNLA-85	16	37	1	1/2		12	E 1/0	90
GNLA-130	20	31	ı	1/2		16	5 1/2	125
GNLA-200	24	43			0.302" -	20		210
GNLA-300	24	55			32NC	20		225
GNLA-400		49	4.4/0	3/4			E 1/1	300
GNLA-500	30	57	1 1/2	3/4		24	5 1/4	335
GNLA-600		65						360
GNLA-800L	32	76				28		475

Notes

- Tanks are factory pre-charged at 12 psi and field adjustable.
- California code-sight glass is available upon request.
- Both top and bottom connections (C and D) access the bladder.
- Available with mounting clips.



SUBMITTAL

GGMPT-SERIES

TWIN GLYCOL MAKE-UP PACKAGE

Models: GGMPT-33050 thru GGMPT-35100
Submittal Sheet No. I-1104B Date: 4/16

Job Name	Submitted By	Date
Location	Approved By	Date
	Order No.	Date
Engineer	Notes	
Contractor		
Sales Rep		

Description

The twin GGMPT unit is designed automatically supply a pressurized solution, such as glycol and water, to a combined two unit closed loop heating, chilled water, snowmelt, radiant heating, sprinkler, or process control system to ensure minimum system pressure requirements are These systems are equipped with two alternating fail-safe motors, pumps, and HOA controls that allow one pump to operate if the other pump These units are also equipped malfunctions. with an adjustable pressure reducing valve (PRV), pressure gauge, and low level alarm that cuts power to the pumps and actuates an audible and visual alarm when solution levels are too low.

Performance Limitations

Maximum Temperature: 160°F

Factory Discharge Pressure Setting: 12 PSIG Maximum Discharge Pressure: 70 PSIG*

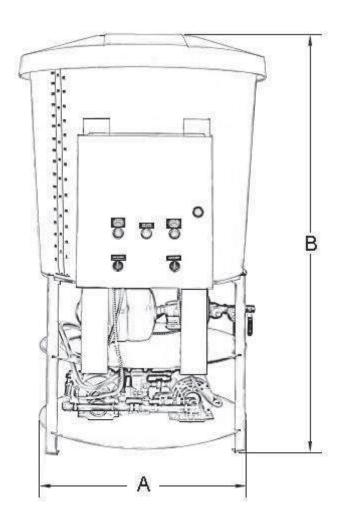
*Higher Discharge pressures available.

Available Options

- High level alarm
- Protective skirt

Model Number	Part Number	Tank Volume (Gallons)	Tagging Information	Quantity
GGMPT-33050	07103170	50	GF-1	1
GGMPT-33100	07103175	100		
GGMPT-35050	07103180	50		
GGMPT-35100	07103185	100		

Typical Specification



GGMPT-33050 thru GGMPT-35100

Dimensions & Weights

	Dimensions In Inches			Pressure	Make-Up	Approx
Model Number	Α	В	HP	Range (psi)	Capacity (gpm @ psi)	Shipping Weight (lbs)
GGMPT-33050	28	55	1/3	10-70	1.8 @ 70	153
GGMPT-33100		78	1/3			166
GGMPT-35050		55	1/2			153
GGMPT-35100		78	1/2			166