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Geo-Flo Corporation

Flo-Link™ Flow Centers

Geo-Flo's most popular flow centers are available in a wide variety of combinations. Flo-Link double O-ring fittings provide leak-free union connections at the flow center, installed without tools. Geo-Flo's full port 3-way flushing and isolation valves are designed for the wide range of temperatures experienced in ground loop applications The GPM series flow centers utilize reliable 3-way valves with the same features and benefits as the Flo-Link valves, but have threaded FPT connections.

PRESSURIZED							
PN	PUMP	# PUMP(S)	SPEED	CONNECTION	VOLUTE	VALVE	CABINET/INSULATED
1294	UPS26-99	1	THREE	Flo-Link	CAST IRON	3-WAY FLUSH/ISO,BR	PLASTIC/ YES
1296	UP26-116	1	SINGLE	Flo-Link	CAST IRON	3-WAY FLUSH/ISO,BR	PLASTIC/ YES
FL1L	UPMXL 25-124	1	VARIABLE	Flo-Link	CAST IRON	3-WAY FLUSH/ISO,BR	PLASTIC/ YES
FL2L	UPMXL 25-124	2	VARIABLE	Flo-Link	CAST IRON	3-WAY FLUSH/ISO,BR	PLASTIC/ YES
FL1N	UPMXL 25-124 INV.	1	VARIABLE	Flo-Link	CAST IRON	3-WAY FLUSH/ISO,BR	PLASTIC/ YES
	Flow ce	enters above	contain a set o	of 1-1/4" PE fusio	on X Flo-Link fitt	ings (loop side)	
1295	UPS26-99	2	THREE	Flo-Link	CAST IRON	3-WAY FLUSH/ISO,BR	PLASTIC/ YES
1297	UP26-116	2	SINGLE	Flo-Link	CAST IRON	3-WAY FLUSH/ISO,BR	PLASTIC/ YES
FL2M	UPS26-99/UPMXL	2	THREE/VS	Flo-Link	CAST IRON	3-WAY FLUSH/ISO,BR	PLASTIC/ YES
FL2P	UPS26-99/UPMXL INV.	2	THREE/VS	Flo-Link	CAST IRON	3-WAY FLUSH/ISO,BR	PLASTIC/ YES
FLXL1D	SuperBrute UPS60-150	1	THREE	Flo-Link XL	CAST IRON	3-WAY FLUSH/ISO,BR	SHEET METAL/ YES
FLXL1E	VersaFlo UPS32-160	1	THREE	Flo-Link XL	CAST IRON	3-WAY FLUSH/ISO,BR	SHEET METAL/ YES
FLXL1F	VersaFlo UPS40-160	1	THREE	Flo-Link XL	CAST IRON	3-WAY FLUSH/ISO,BR	SHEET METAL/ YES
FLXL2D	SuperBrute UPS60-150	2	THREE	Flo-Link XL	CAST IRON	3-WAY FLUSH/ISO,BR	SHEET METAL/ YES
FLXL2E	VersaFlo UPS32-160	2	THREE	Flo-Link XL	CAST IRON	3-WAY FLUSH/ISO,BR	SHEET METAL/ YES
FLXL2F	VersaFlo UPS40-160	2	THREE	Flo-Link XL	CAST IRON	3-WAY FLUSH/ISO,BR	SHEET METAL/ YES

NOTE: For hose kits see pages 19-22

Flo-Link series foamed flow centers:



FLXL1D





FLXL1E



Flo-Link™-Flow Centers

PANEL MOUNT (Variable Speed Pre-Wired Packages-Panel Mounted)							
PN	Flow Center	# PUMP(S)	Control	Connection			
FL1L-PKT	FL1L	1	TEMPERATURE	Hose kit/PE connections			
FL1L-PKB	FL1L	1	TEMPERATURE/FLOW	Hose kit/PE connections			
FL2M-PKT	PKT FL2M 2		TEMPERATURE	Hose kit/PE connections			
FL2M-PKB	PKB FL2M 2 TEMPERATURE/FLOW Hose kit/PE connections						
	Kit includes all of the fittings necessary for connecting to the ground loop (1-1/4" PE fusion) and the heat pump.						
	For Heat pumps with doul	ole O-ring water	r connections, add on 3326 (1" FPT X	(FL double O-ring fitting set.)			



Kit includes all of the fittings necessary for connecting to the ground loop (1-1/4" PE fusion) and the heat pump.

Flo-Link[™]/NP Base-Flow Centers

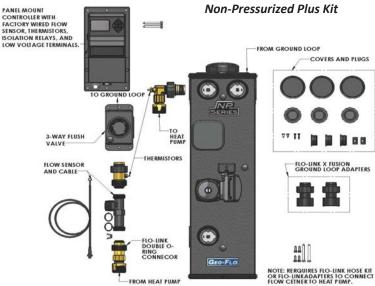
	NON-PRESSURIZED							
PN	PUMP	# PUMP(S)	SPEED	CONNECTION	VOLUTE	VALVE	CABINET/INSULATED	
1271	UPS26-99	1	THREE	Flo-Link	CAST IRON	3-WAY FLUSH/ISO,BR	PLASTIC/ YES	
1273	UP26-116	1	SINGLE	Flo-Link	CAST IRON	3-WAY FLUSH/ISO,BR	PLASTIC/ YES	
NP1L	UPMXL 25-124	1	VARIABLE	Flo-Link	CAST IRON	3-WAY FLUSH/ISO,BR	PLASTIC/ YES	
NP1N	UPMXL 25-124 INV.	1	VARIABLE	Flo-Link	CAST IRON	3-WAY FLUSH/ISO,BR	PLASTIC/ YES	
1272	UPS26-99	2	THREE	Flo-Link	CAST IRON	3-WAY FLUSH/ISO,BR	PLASTIC/ YES	
1274	UP26-116	2	SINGLE	Flo-Link	CAST IRON	3-WAY FLUSH/ISO,BR	PLASTIC/ YES	
NP2M	UPMXL 25-124 + UPS26-99	2	VS/THREE	Flo-Link	CAST IRON	3-WAY FLUSH/ISO,BR	PLASTIC/ YES	
NP2P	UPMXL 25-124 INV.	2	VARIABLE	Flo-Link	CAST IRON	3-WAY FLUSH/ISO,BR	PLASTIC/ YES	
NP2L	UPMXL 25-124	2	VARIABLE	Flo-Link	CAST IRON	3-WAY FLUSH/ISO. BR	PLASTIC/ YES	
			NON-	PRESSURIZED BA	SE			
NPB1A	UPS26-99	1	THREE	1" Swivel	CAST IRON	ISOLATION BALL VLV, BR	PLASTIC/ YES	
NPB2A	UPS26-99	2	THREE	1" Swivel	CAST IRON	ISOLATION BALL VLV, BR	PLASTIC/ YES	
NPB1C	UP26-116	1	SINGLE	1" Swivel	CAST IRON	ISOLATION BALL VLV, BR	PLASTIC/ YES	
NPB2C	PB2C UP26-116		SINGLE	1" Swivel	CAST IRON	ISOLATION BALL VLV, BR	PLASTIC/ YES	
			NON-	PRESSURIZED PL	US			
	(PNs include §	ground loop fi	ittings (PE fusi	on x Flo-Link) and	d an additional	insulated 3-way valve)		
1338	UPS26-99	1	THREE	Flo-Link	CAST IRON	3-WAY FLUSH/ISO,BR	PLASTIC/ YES	
1340	UP26-116	1	SINGLE	Flo-Link	CAST IRON	3-WAY FLUSH/ISO,BR	PLASTIC/ YES	
NPP1L	UPMXL 25-124	1	VARIABLE	Flo-Link	CAST IRON	3-WAY FLUSH/ISO,BR	PLASTIC/ YES	
NPP1N	UPMXL 25-124 INV.	1	VARIABLE	Flo-Link	CAST IRON	3-WAY FLUSH/ISO,BR	PLASTIC/ YES	
1339	UPS26-99	2	THREE	Flo-Link	CAST IRON	3-WAY FLUSH/ISO,BR	PLASTIC/ YES	
1341	UP26-116	2	SINGLE	Flo-Link	CAST IRON	3-WAY FLUSH/ISO,BR	PLASTIC/ YES	
NPP2M	UPS26-99/UPMXL	2	THREE/VS	Flo-Link	CAST IRON	3-WAY FLUSH/ISO,BR	PLASTIC/ YES	
NPP2P	UPS26-99/UPMXL INV.	2	THREE/VS	Flo-Link	CAST IRON	3-WAY FLUSH/ISO,BR	PLASTIC/ YES	
		1	NON-PF	RESSURIZED PLUS	5 КІТ			
NPP1L-CK	B UPMXL 25-124	1	VARIABLE	Flo-Link	CAST IRON	3-WAY FLUSH/ISO,BR	PLASTIC/ YES	
NPP2M-Cł	KB UPS26-99/UPMXL	2	THREE/VS	Flo-Link	CAST IRON	3-WAY FLUSH/ISO,BR	PLASTIC/ YES	
	Kit includes: (Ground loop f	ittings (PE fus	ion x Flo-Link) an	d an additional	insulated 3-way valve		
	Requ	ires: heat pun	np connection	s (See NP Plus H	ose Kits, or Flo-	Link adapters)		

Non-Pressurized Base (NPB) Non-Pressurized (NP)





NOTE: For hose kits see pages 19-22



FROM HEAT PUMP

Flo-Link™-Flow Centers

	NON-PRESSURIZED DUAL								
PN	PUMP	# PUMP(S)	SPEED	CONNECTION	VOLUTE	VALVE	CABINET/INSULATED		
1304	UPS26-99	2	THREE	Flo-Link	CAST IRON	3-WAY FLUSH/ISO,BR	SHEET METAL/ YES		
1307	UP26-116	2	SINGLE	Flo-Link	CAST IRON	3-WAY FLUSH/ISO,BR	SHEET METAL/ YES		
NPD2LA	UPS26-99/UPMXL	2	THREE/VS	Flo-Link	CAST IRON	3-WAY FLUSH/ISO,BR	SHEET METAL/ YES		
NPD2NA	UPS26-99/UPMXL INV.	2	THREE/VS	Flo-Link	CAST IRON	3-WAY FLUSH/ISO,BR	SHEET METAL/ YES		
NPD2LL	UPMXL 25-124	2	VARIABLE	Flo-Link	CAST IRON	3-WAY FLUSH/ISO,BR	SHEET METAL/ YES		
NPD2NN	UPMXL 25-124 INV.	2	VARIABLE	Flo-Link	CAST IRON	3-WAY FLUSH/ISO,BR	SHEET METAL/ YES		
1305	UPS26-99	3	THREE	Flo-Link	CAST IRON	3-WAY FLUSH/ISO,BR	SHEET METAL/ YES		
1308	UP26-116	3	SINGLE	Flo-Link	CAST IRON	3-WAY FLUSH/ISO,BR	SHEET METAL/ YES		
NPD3MA	UPS26-99+UPMXL, UPS26- 99	3	THREE/VS	FLo-Link	CAST IRON	3-WAY FLUSH/ISO, BR	SHEET METAL/ YES		
NPD3ML	UPS26-99 + UPMXL	3	THREE/VS	Flo-Link	CAST IRON	3-WAY FLUSH/ISO,BR	SHEET METAL/ YES		
NPD3PN	UPS26-99 + UPMXL INV.	3	THREE/VS	Flo-Link	CAST IRON	3-WAY FLUSH/ISO,BR	SHEET METAL/ YES		
1306	UPS26-99	4	THREE	Flo-Link	CAST IRON	3-WAY FLUSH/ISO,BR	SHEET METAL/ YES		
1309	UP26-116	4	SINGLE	Flo-Link	CAST IRON	3-WAY FLUSH/ISO,BR	SHEET METAL/ YES		
NPD4LL	UPMXL 25-124	4	VARIABLE	Flo-Link	CAST IRON	3-WAY FLUSH/ISO,BR	SHEET METAL/ YES		
NPD4LA	UPS 26-99 + UPMXL	4	THREE/VS	Flo-Link	CAST IRON	3-WAY FLUSH/ISO, BR	SHEET METAL/ YES		
NPD4MA	UPS26-99 + UPMXL	4	THREE/VS	Flo-Link	CAST IRON	3-WAY FLUSH/ISO, BR	SHEET METAL/ YES		

NOTE: For hose kits see pages 19-22

Non-Pressurized Dual (NPD)



NP REPLACEMENT CAP				
4008	CAP, REPLACEMENT FOR NP SERIES	EACH		

FPT Flow Centers- Insulated & Bracket

PN	PUMP	# PUMP(S)	SPEED	CONNECTION	VOLUTE	VALVE	CABINET/INSULATED
FP1B	UP26-99	1	SINGLE	1" FPT	CAST IRON	3-WAY FLUSH/ISO,BR	PLASTIC/ YES
1027	UPS26-99	1	THREE	1" FPT	CAST IRON	3-WAY FLUSH/ISO,BR	PLASTIC/ YES
1055	UP26-116	1	SINGLE	1" FPT	CAST IRON	3-WAY FLUSH/ISO,BR	PLASTIC/ YES
1077	UP26-116SF	1	SINGLE	1" FPT	STAINLESS	3-WAY FLUSH/ISO,BR	PLASTIC/ YES
1033	UPS26-99 115v	1	THREE	1" FPT	CAST IRON	3-WAY FLUSH/ISO,BR	PLASTIC/ YES
1000	UPS26-99	1	THREE	1" FPT	CAST IRON	3-WAY FLUSH/ISO,BR	ON BRACKET/ NO
1049	UP26-116	1	SINGLE	1" FPT	CAST IRON	3-WAY FLUSH/ISO,BR	ON BRACKET/ NO
1085	UP26-116SF	1	SINGLE	1" FPT	STAINLESS	3-WAY FLUSH/ISO,BR	ON BRACKET/ NO
1004	UPS26-99 115v	1	THREE	1" FPT	CAST IRON	3-WAY FLUSH/ISO,BR	ON BRACKET/ NO
1037	UPS26-99	1	THREE	1" FPT	CAST IRON	ISO. VALVES	ON BRACKET/ NO
1057	UP26-116	1	SINGLE	1" FPT	CAST IRON	ISO. VALVES	ON BRACKET/ NO
1089	UP26-116SF	1	SINGLE	1" FPT	STAINLESS	ISO. VALVES	ON BRACKET/ NO
1069	UPS26-99 115v	1	THREE	1" FPT	CAST IRON	ISO. VALVES	ON BRACKET/ NO
FP2B	UP26-99	2	SINGLE	1" FPT	CAST IRON	3-WAY FLUSH/ISO,BR	PLASTIC/ YES
1028	UPS26-99	2	THREE	1" FPT	CAST IRON	3-WAY FLUSH/ISO,BR	PLASTIC/ YES
1056	UP26-116	2	SINGLE	1" FPT	CAST IRON	3-WAY FLUSH/ISO,BR	PLASTIC/ YES
1076	UP26-116SF	2	SINGLE	1" FPT	STAINLESS	3-WAY FLUSH/ISO,BR	PLASTIC/ YES
1031	UPS26-99 115V	2	THREE	1" FPT	CAST IRON	3-WAY FLUSH/ISO,BR	PLASTIC/ YES
1001	UPS26-99	2	THREE	1" FPT	CAST IRON	3-WAY FLUSH/ISO,BR	ON BRACKET/NO
1050	UP26-116	2	SINGLE	1" FPT	CAST IRON	3-WAY FLUSH/ISO,BR	ON BRACKET/NO
1082	UP26-116SF	2	SINGLE	1" FPT	STAINLESS	3-WAY FLUSH/ISO,BR	ON BRACKET/NO
1005	UPS26-99 115V	2	THREE	1" FPT	CAST IRON	3-WAY FLUSH/ISO,BR	ON BRACKET/NO
1038	UPS26-99	2	THREE	1" FPT	CAST IRON	ISO. VALVES	ON BRACKET/NO
1229	UPS26-99	3	THREE	1" FPT	CAST IRON	3-WAY FLUSH/ISO,BR	PLASTIC/ YES
1231	UP26-116	3	SINGLE	1" FPT	CAST IRON	3-WAY FLUSH/ISO,BR	PLASTIC/ YES
1235	UP26-116SF	3	SINGLE	1" FPT	STAINLESS	3-WAY FLUSH/ISO,BR	PLASTIC/ YES
1233	UPS26-99 115V	3	THREE	1" FPT	CAST IRON	3-WAY FLUSH/ISO,BR	PLASTIC/ YES
1045	UPS26-99	3	THREE	1" FPT	CAST IRON	ISO VALVES	ON BRACKET/NO
1230	UPS26-99	4	THREE	1" FPT	CAST IRON	3-WAY FLUSH/ISO,BR	PLASTIC/ YES
1232	UP26-116	4	SINGLE	1" FPT	CAST IRON	3-WAY FLUSH/ISO,BR	PLASTIC/ YES
1236	UP26-116SF	4	SINGLE	1" FPT	STAINLESS	3-WAY FLUSH/ISO,BR	PLASTIC/ YES
1234	UPS26-99 115V (4	THREE	1" FPT	CAST IRON	3-WAY FLUSH/ISO,BR	PLASTIC/ YES
1046	UPS26-99	4	THREE	1" FPT	CAST IRON	ISO. VALVES	ON BRACKET/NO
1062	UP26-116	4	SINGLE	1" FPT	CAST IRON	ISO. VALVES	ON BRACKET/NO
1092	UP26-116SF	4	SINGLE	1" FPT	CAST IRON	ISO. VALVES	ON BRACKET/NO
1071	UPS26-99 115V	4	THREE	1" FPT	CAST IRON	ISO. VALVES	ON BRACKET/NO

NOTE: For hose kits see pages 19-22

FPT Flow Centers

Bracket flow centers:



GPM-1 UPS26-99, 230V Grundfos (3-speed), cast iron, iso valves

FPT Foamed flow centers:



GPM-1 UPS26-99 115v Grundfos (3-speed), cast iron, On Bracket



GPM-2 UPS26-99 230v Grundfos (3-speed), cast iron, On Bracket



GPM-1 UPS26-99 230v Grundfos (3-speed), cast iron, Foamed



GPM-2 UPS26-99 230v Grundfos (3-speed), cast iron, Foamed



GPM-3 UPS26-99 230v Grundfos (3 Speed), cast iron, Foamed

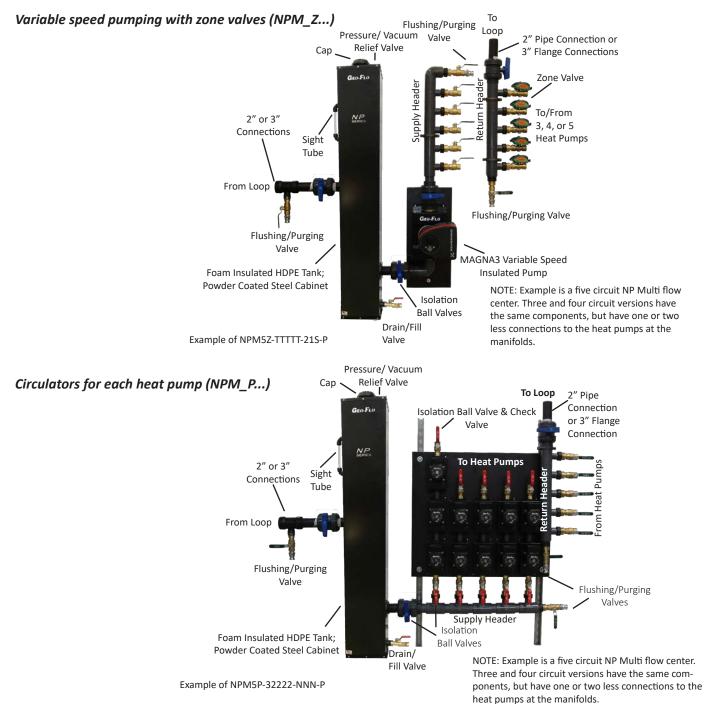
NPM-Flow Centers

Geo-Flo's NP Multi[™] is an engineered solution designed to simplify your geothermal applications for multiple heat pumps by providing virtually all of the piping, flushing/purging valves, and pumps/zone valves for three to five heat pumps as part of a factory assembled package.

Each NP Multi (NPM) flow center consists of a HDPE fluid reservoir (tank) housed in a closed-cell foam-insulated, powder coated steel cabinet. The tank provides a water column to deliver the necessary suction head for the circulator pumps and to ensure a flooded pump volute to prevent the

NP SERIES Multi Circuit

pumps from becoming air-locked. In addition, the reservoir's body is sized to create a low fluid velocity region allowing both air and sediment to separate from the fluid. The sealing cap ensures a closed system while providing integrated pressure and vacuum relief to prevent the reservoir from being over-pressurized or dropping below atmospheric pressure. Union ball valves are included on the tank's supply and return connections for ease of installation and tank isolation during start-up and/or servicing. A fill and drain ball valve at the base of the tank comes standard for initial filling as well as refilling, draining, and sediment removal. The flexible sight tube is useful for quickly determining the fluid level.



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2024 Catalog

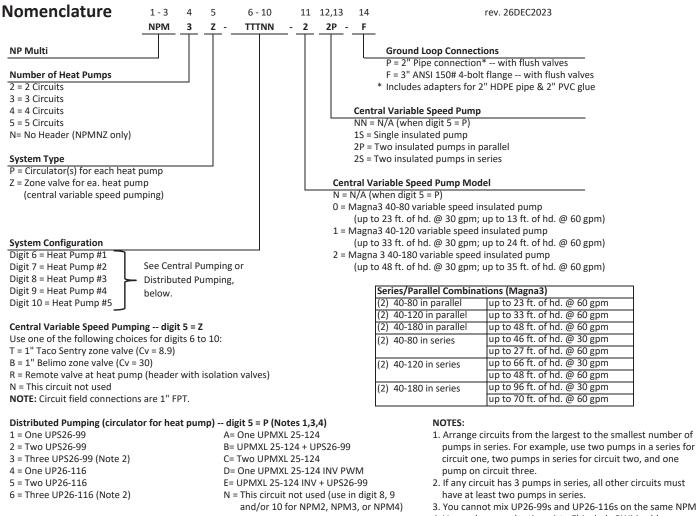
Flow Centers-NPM

Premium Option: Two Pump Configurations





NOTE: Examples on this page are five circuit NP Multi flow centers. Two, three, and four circuit versions have the same components, but have less connections to the heat pumps at the manifolds.



NPM Configuration-Flow Centers

Step #1: Choose Number of Heat Pumps

Number of	
Heat Pumps	Digits 1 to 5
2	NPM2Z
3	NPM3Z
4	NPM4Z
5	NPM5Z

System Configuration Central Variable Speed Pump

NOTE: All connections to heat pumps are 1" FPT (supply & return headers).

Step #2: Choose Zone Valves for Each Circuit

	Digit 6	Digit 7	Digit 8	Digit 9	Digit 10
Zone Valves (Digits 6-10)	Heat Pump 1	Heat Pump 2	Heat Pump 3	Heat Pump 4	Heat Pump 5
T = 1" Taco Geo Sentry (Cv = 8.9)					
B = 1" Belimo, Cv =30	Choose T, B,	Choose T, B,	Choose T, B,	Choose T, B,	Choose T, B,
R = Remote valve	or R for heat	or R for heat	R, or N for	R, or N for	R, or N for
N = Not used (digit 8, 9	pump 1	pump 2	heat pump 3	heat pump 4	heat pump 5
and/or digit 10 for NPM2,	(digit 6)	(digit 7)	(digit 8)	(digit 9)	(digit 10)
NPM3, or NPM4)					

Example: Digits 6 to 10 would be TTTTT for a NPM5Z with a Taco zone valve for each heat pump.

Step #3: Choose Central Pump Type

Pump Type	Digit 11
1 = Magna3 40-120	Choose
2 = Magna3 40-180	1 or 2

Step #4: Choose Pump Configuration

Pump Configuration	Digits 12 & 13
1S = Single Insulated Pump w/Isolation Valves	
2P = 2 Insul. Pmps (Parallel) w/Isol. Valves & Check Vlv	Choose 1S, 2P, or 2S
2S = 2 Insul. Pumps (Series) w/Isolation Valves	

Step #5: Choose Ground Loop Connections

	Ground Loop Connections		
N	3"	2"	
	Digit 14 = F	Digit 14 = P	

NOTE: 2" ground loop connections are HDPE fusion or PVC glue;

3" ground loop connections are ANSI 4-bolt flange type.

Step #6: Create Model number

From steps 1 through 5, model number may be completed (see model nomenclature for added dashes after digits 5, 10, and 13).

ZONING WITH CIRCULATORS

Step #1: Choose number of heat pumps.

Number of	
Heat Pumps	Digits 1 to 5
2	NPM2P
3	NPM3P
4	NPM4P
5	NPM5P

NOTE: All connections to heat pumps are 1" FPT (supply & return headers).

Step #2: Choose pumps for each circuit.

Distributed Pumping	Digit 6	Digit 7	Digit 8	Digit 9	Digit 10	Digits 11, 12,		
(Digits 6-10)	Heat Pump 1	Heat Pump 2	Heat Pump 3	Heat Pump 4	Heat Pump 5	and 13		
1 = One UPS26-99								
2 = Two UPS26-99								
3 = Three UPS26-99								
4 = One UP26-116			Choose 1 to E for heat	Choose 1 to E for heat	Choose 1 to E for heat	Always NNN for		
5 = Two UP26-116	Choose 1 to E for heat pump 1 (digit 6)	oose 1 to Choose 1 to						
6 = Three UP26-116		E for heat						
A = One UPMXL 25-124*					pump 3			Zoning with
B = UPMXL + UPS26-99*		pump 2 (digit 7)	(digit 8)	pump 4 (digit 9)	pump 5 (digit 10)	Circulators		
C = Two UPMXL 25-124*		(uigit 0)		(uigit /)	(uigit o)		(uigit 10)	Circulators
D = One UPMXL INV PWM*								
E = UPMXL INV + UPS26-99*								
N = Not used (digits 8, 9 and/or								
10 for NPM2, NPM3, or NPM4)								

Example: Digits 6 to 10 would be 22222 for a NPM5P with two UPS26-99 pumps per heat pump.

NOTES:

1. Arrange circuits from the the largest to smallest number of pumps in series. For example, use two pumps in series for circuit one, two pumps in series for circuit two, and one pump on circuit three.

2. If any circuit has (3) UP26 pumps in series, all other circuits must have at least two UP26 pumps in series.

3. All UP26 pumps must be in the same family (e.g. all UPS26-99 or all UP26-116).

Step #3: Choose ground loop connections.

Ground Loop Connections					
2" 3"					
Digit 14 = P	Digit 14 = F				

NOTE: 2" ground loop connections are HDPE fusion or PVC glue; 3" ground loop connections are ANSI 4-bolt flange type.

Step #4: Create model number.

From steps 1 through 3, model number may be completed (see model nomenclature for added dashes after digits 5, 10, and 13).

*Use inverted profile for heat pumps with DXM2 controls; use standard profile for heat pumps with AXB controls or 24VAC controls. Heat pumps with 24VAC controls required a controller (P/N 3697 or 3698). Variable speed pumps (options A to E) include PWM cable.

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System Configuration Zoning with Circulators

Insulated Pumps/Bracketed Pumps-Flow Centers

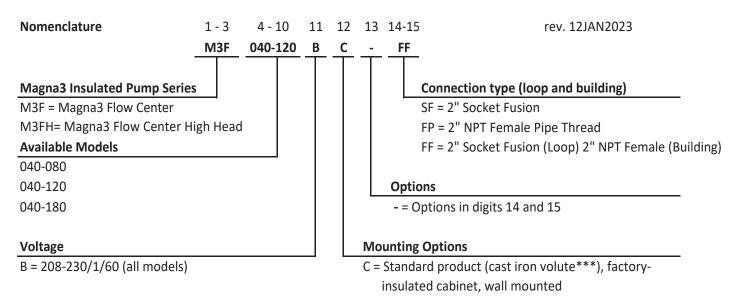
INSULATED PUMPS								
PN	PUMPS	# PUMP(S)	SPEED	VOLUTE	VALVE SET- INCLUDED	CABINET/INSULATED		
1252	UPS26-99	1	THREE	CAST IRON	N/A	SHEET METAL/ YES		
1253	UP26-116	1	SINGLE	CAST IRON	N/A	SHEET METAL/ YES		
1269	UPS26-99 115V	1	THREE	CAST IRON	N/A	SHEET METAL/ YES		
1285	UPS26-99	1	THREE	CAST IRON	ISO. 1"FPT X FL	SHEET METAL/ YES		
1285CV	UPS26-99	1	THREE	CAST IRON	ISO. 1"FPT X FL W/CV	SHEET METAL/ YES		
1286	UPS26-99 115V	1	THREE	CAST IRON	ISO. 1"FPT X FL	SHEET METAL/ YES		
1286CV	UPS26-99 115V	1	THREE	CAST IRON	ISO. 1"FPT X FL W/CV	SHEET METAL/ YES		
1383	UPS26-116	1	THREE	CAST IRON	ISO. 1"FPT X FL	SHEET METAL/ YES		
1384	UPS26-99	1	THREE	CAST IRON	ISO. 1"FPT X FL	SHEET METAL/ YES		
FLP1A-DBC	UPS26-99 (1 PUMP, DBL CABINET)	1	THREE	CAST IRON	N/A	SHEET METAL/ YES		
FLP1L	UPMXL 25-124	1	VARIABLE	CAST IRON	N/A	SHEET METAL/ YES		
FLP1L-4V	UPMXL 25-124	1	VARIABLE	CAST IRON	ISO. 1"FPT X FL	SHEET METAL/ YES		
FLP1N-4V	UPMXL 25-124 INV.	1	VARIABLE	CAST IRON	ISO. 1"FPT X FL	SHEET METAL/ YES		
FLP1L-4V-CV	UPMXL 25-124	1	VARIABLE	CAST IRON	ISO. 1" FPT X FL W/CV	SHEET METAL/ YES		
FLP2A	UPS26-99	2	THREE	CAST IRON	N/A	SHEET METAL/YES		
FLP2A-4V	UPS26-99	2	THREE	CAST IRON	ISO. 1"FPT X FL	SHEET METAL/YES		
FLP2C-4V	UPS26-116	2	THREE	CAST IRON	ISO. 1"FPT X FL	SHEET METAL/ YES		
FLP2M	UPMXL + UPS26-99(2	VS/THREE	CAST IRON	N/A	SHEET METAL/YES		
1360	SuperBrute UPS60-150	1	THREE	CAST IRON	N/A	SHEET METAL/ YES		
FLP2A	UPS26-99	2	THREE	CAST IRON	N/A	SHEET METAL/ YES		
1318	UPS26-99 115V	2	THREE	CAST IRON	N/A	SHEET METAL/ YES		
1319	VersaFlo UPS32-160	1	THREE	CAST IRON	N/A REQUIRES FL XL FITT.	SHEET METAL/ YES		
1320	VersaFlo UPS32-160 3X230	1	THREE	CAST IRON	N/A REQUIRES FL XL FITT.	SHEET METAL/ YES		
	BRA	CKETED F	PUMPS (sh	ips disasse	mbled)			
PN	PUMPS	# PUMP(S)	SPEED	VOLUTE	FLANGE SET- INCLUDED	CABINET/INSULATED		
9102-3F	UPS26-99 115V	1	THREE	CAST IRON	3/4" FPT	ON BRACKET/ NO		
9102-4F	UPS26-99 115V	1	THREE	CAST IRON	1" FPT	ON BRACKET/ NO		
		PUMP I	MOUNTIN	G BRACKET	S			
4244	Single Pump mounting bracket	for UP/UPS :	15&26 pumps	;		EACH		
3817	Double Pump mounting bracke	t for UP/UPS	15&26 pump)S		EACH		
		UF	MXL Add-	On Kits				
PN	PUMPS	# PUMP(S)	SPEED	VOLUTE	FLANGE SET- INCLUDED	CABINET/INSULATED		
9102-3F	UPS26-99 115V	1	THREE	CAST IRON	3/4" FPT	ON BRACKET/ NO		
9102-4F	UPS26-99 115V	1	THREE	CAST IRON	1" FPT	ON BRACKET/ NO		
UP(S)26-99/UPS26-116 UPMXL 25-124 VersaFlo Bracketed Pumps (Ships Disassembled) Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system <								
FLP1L-FLK / FLP1L-FLE Isolation Valves Mounting Brackets 00 14 00 14 0								

Geo-Flo Corporation

2024 Catalog

Magna3 Variable Speed Flow Centers

Our MAGNA3 variable speed (VS) flow center features the highly efficient Grundfos MAGNA3 permanent magnet ECM pump in a foam insulated housing coupled with our reliable 2", 3-way, 4-position flushing and service valve. Each M3F040-* flow center comes with a choice of 2" socket fusion or 2" FPT fittings for the ground loop and interior loop connections. This modular flow center comes with the valves separated from the insulated pump allowing the contractor the choice of where the flush valves are located with respect to the pump while separating the weight of the entire flow center to more manageable pieces.





NOTE: MAGNA3 variable speed (VS) controls see page 37

Part Number	Description
M3F040-080BC-SF	M3 FC 40-80, 208-230V, 2" HDPE SF CONNECTIONS
M3F040-080BC-FP	M3 FC, 40-80, 208-230V, CI, 2" FPT CONNECTIONS
M3F040-080BC-FF	M3 FC, 40-80, 208-230V, CI, 2" FPT BUILDING, 2" SF LOOP CONNECTIONS
M3F040-120BC-SF	M3 FC 40-120, 208-230V, 2" HDPE SF CONNECTIONS
M3F040-120BC-FP	M3 FC, 40-120, 208-230V, CI, 2" FPT CONNECTIONS
M3F040-120BC-FF	M3 FC, 40-120, 208-230V, CI, 2" FPT BUILDING, 2" SF LOOP CONNECTIONS
M3F040-180BC-SF	M3 FC, 40-180, 208-230V, CI, 2" HDPE SF CONNECTIONS
M3F040-180BC-FP	M3 FC, 40-180, 208-230V, CI, 2" FPT CONNECTIONS
M3F040-180BC-FF	M3 FC, 40-180, 208-230V, CI, 2" FPT BUILDING, 2" SF LOOP CONNECTIONS
M3FH040-080BC-SF	M3 FC, DOUBLE PUMP 40-080, 208-230V, CI, 2" HDPE SF
M3FH040-080BC-FP	M3 FC, DOUBLE PUMP 40-080, 208-230V, CI, 2" FPT
M3FH040-080BC-FF	M3 FC, DOUBLE PUMP 40-080, 208-230V, CI, 2" FPT BLDG, 2" SF LOOP
M3FH040-120BC-SF	M3 FC, DOUBLE PUMP 40-120, 208-230V, CI, 2" HDPE SF
M3FH040-120BC-FP	M3 FC, DOUBLE PUMP 40-120, 208-230V, CI, 2" FPT
M3FH040-120BC-FF	M3 FC, DOUBLE PUMP 40-120, 208-230V, CI, 2" FPT BLDG, 2" SF LOOP
M3FH040-180BC-SF	M3 FC, DOUBLE PUMP 40-180, 208-230V, CI, 2" HDPE SF
M3FH040-180BC-FP	M3 FC, DOUBLE PUMP 40-180, 208-230V, CI, 2" FPT
M3FH040-180BC-FF	M3 FC, DOUBLE PUMP 40-180, 208-230V, CI, 2" FPT BLDG, 2" SF LOOP

NOTE: MAGNA3 variable speed (VS) controls see page 37



Magna3 Flow Center with 2" socket fusion connections



Magna3 Flow Center with FPT connections



Magna3 Flow Center with 2" socket fusion loop connections and FPT building connections

Flow Centers-Magna 3 Insulated Pumps

Magna3 Insulated Pump Features:

- Variable speed circulator with integrated controls (ECM motor) for larger installations (models up to 300 GPM)
- Wireless communication to backup pump
- Built-in differential pressure control
- Ready for central pump, primary-secondary, or one-pipe systems
- 2", 3", and 4" connections, depending upon model
- Ball or butterfly isolation valves included (optional check valve for twopump primary/backup installation)
- Dual head models (65, 80 and 100 series)
- Foam insulated cabinet for condensation protection
- Wall mounted for space savings/floor mounting option for larger models
- BMS options (BACnet, LON, Modbus)
- Factory configurable flow direction (larger models)

1 - 3

M3D

065-150

080-100

100-120

configurations (see table, next page).

4 - 10

065-150



Magna3 40 series Insulated Pump with 2" isolation ball valves

Magna3 Insulated Pump Series

M3C = Single insul. pump w/check valve

065-120 *Not all models available in all

A = 115/1/60 (up to 065-120 only)

B = 208-230/1/60 (all models)

M3D = Dual head insulated pumps

M3H = High head insul. pumps (two

pumps in series)

Available Models*

040-080

040-120

040-180

Voltage

M3S = Single insulated pump

Nomenclature



В

11 12 13 14-15

HR

F

LEFT: Magna3 65 series Insulated Pump with 2" isolation ball valves

RIGHT: Magna3 Dual Head Insulated Pump with 3" or 4" isolation butterfly valves (65, 80, 100 series)



Magna3

Pumps

Insulated

rev. 030CT2017

Flow Direction (M3D, M3H only)**

HR = Horz. mounting, flow to the right
HL = Horz. mounting, flow to the left
VR = Vert. mounting, push/pull, "from loop" on the right (M3H models)
VL = Vert. mounting, push/pull, "from

- loop" on the left (M3H models)
- Blank (M3D) = Vertical flow**
- **See table on next page for available models.

Options

- = Options in digits 14 and 15
- = No options (nothing after digit 12)

Mounting Options

- C = Standard product (cast iron volute***), factoryinsulated cabinet, wall mounted
- F = Standard product (cast iron volute***), factoryinsulated cabinet, floor mounting stand++
- ***Call for stainless steel options.
- ++Models 065 and larger only

NOTE: MAGNA3 variable speed (VS) controls see page 37

Geo-Flo Corporation

Magna 3 Insulated Pumps-Flow Centers

	MAGNA3 INSULATED PUMPS							
		M3S	M3C	M3D	МЗН			
		Single Insulated	Single Insulated	Dual Head***	High Head***			
Model	Mounting*	Pump	Pump w/Check Valve**	Insulated Pump	Insulated Pump	Field Connection		
40-80	Wall Mounted	M3S040-080AC	M3C040-080AC		M3H040-080AC			
40-80	wan wounted	M3S040-080BC	M3C040-080BC		M3H040-080BC			
40 1 20		M3S040-120AC	M3C040-120AC		M3H040-120AC			
40-120	Wall Mounted	M3S040-120BC	M3C040-120BC		M3H040-120BC			
40-180	Wall Mounted	M3S040-180AC	M3C040-180AC		M3H040-180AC			
40-180	wan wounted	M3S040-180BC	M3C040-180BC		M3H040-180BC	2″ NPT FEMALE		
	Wall Mounted	M3S065-120AC	M3C065-120AC		M3H065-120AC			
	wan wounted	M3S065-120BC	M3C065-120BC		M3H065-120BC			
65-120					M3H065-120BF-VL			
05-120	Floor Mounted				M3H065-120BF-VR			
	FIODI MOUITEU				M3H065-120BF-HL			
					M3H065-120BF-HR			
	Wall Mounted	M3S065-150BC	M3C065-150BC	M3D065-150BC	M3H065-150BC	M3S, M3C, &		
				M3D065-150BF	M3H065-150BF-VL	M3H065-150 have		
65-150	Floor Mounted				M3H065-150BF-VR	2" NPT FEMALE		
	noor mounted				M3H065-150BF-HL	M3DO65-150 have		
					M3H065-150BF-HR	3" ANSI flange		
	Wall Mounted	M3S080-100BC		M3D080-100BC	M3H080-100BC			
		M3S080-100BF		M3D080-100BF	M3H080-100BF-VL			
80-100	Floor Mounted			M3D080-100BF-HL	M3H080-100BF-VR	3" ANSI flange		
	noor mounted			M3D080-100BF-HR	M3H080-100BF-HL			
					M3H080-100BF-HR			
	Wall Mounted	M3S100-120BC		M3D100-120BC	M3H100-120BC			
		M3S100-120BF		M3D100-120BF	M3H100-120BF-VL			
100-120	Floor Mounted			M3D100-120BF-HL	M3H100-120BF-VR	4" ANSI flange		
	noor mounted			M3D100-120BF-HR	M3H100-120BF-HL			
					M3H100-120BF-HR			

*All insualted pumps with digit 12= "C" include isolation valves and insulated cabinets, designed for wall-mounting. Larger pumps are available with floor stand.

**Check valve required when piping two pumps in parallel. Dual head pumps include built in check valve in volute.

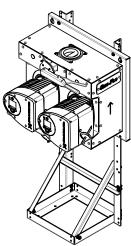
***M3D and M3H insulated pumps with floor stand option may be mounted vertically or horizontally.

Standard configuration for M3D is vertical. Optional configuration is horizontal (HL, HR) except M3D065-150. M3H may be vertical (VL,VR) or horizontal (HL,HR). See flow illustrations on next page.

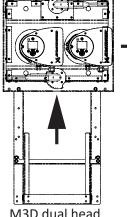
NOTE: MAGNA3 variable speed (VS) controls see page 37



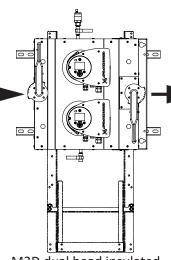
Magna3 Insulated Pump Flow Options



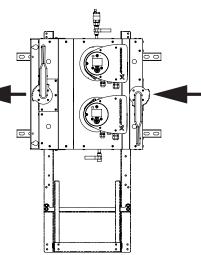




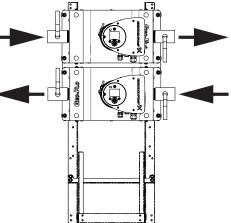
M3D dual head insulated pumps, vertical flow (shown: M3D065-150BF)



M3D dual head insulated pumps, horizontal right flow (shown: M3D100-120BF-HR) NOTE: M3D065-150 not available with HR flow, use P/N 4596 to adapt plumbing to required direction.

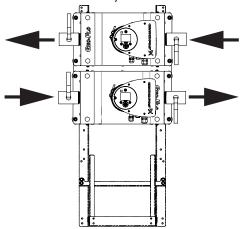


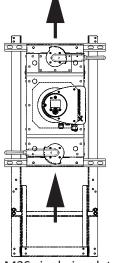
M3D dual head insulated pumps, horizontal left flow (shown: M3D100-120BF-HL)



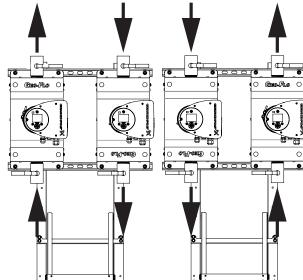
Top: M3H high head insulated pumps, horizontal right flow (shown: M3H065-150BF-HR)

<u>Bottom</u>: M3H high head insulated pumps, horizontal left flow (shown: M3H065-150BF-HL)





M3S single insulated pump with floor stand (shown: M3S080-100BF)



M3H high head insulated pumps, vertical right flow (shown: M3H065-150BF-VR)

M3H high head insulated pumps, vertical left flow (shown: M3H065-150BF-VL)

Geo-Flo Corporation

REPLACEMENT PUMPS 8900/9405/9428 Replacement pump head "NV" It is not normally practical to change the volute in a foamed-in flow center. (No Volute) part numbers PNs with "NV" at the end indicates that the replacement pump is the pump head only and does not include the volute. ΡN PUMP VOLTAGE SPEED VOLUTE UP26-99 208-230V 8900NV SINGLE NONE 208-230V 8900 UP26-99F SINGLE CAST IRON THREE 9425NV UPS26-99 208-230V NONE UPS26-99F 208-230V THREE CAST IRON 9428 8994/9417 9405NV UP26-116 208-230V SINGLE NONE 9457/9458 9405 UP26-116F 208-230V SINGLE CAST IRON 9104NV UPS26-99 115V THREE NONE 9104 UPS26-99F 115V THREE CAST IRON 9440 UP26-99SF SINGLE STAINLESS 115V 9435 UP26-116SF 208-230V SINGLE **STAINLESS** 9417 VersaFlo UPS32-160 230V THREE CAST IRON 9451 UPS15-58FC THREE CAST IRON 115V 9418 Magna3 8994 VersaFlo UPS40-160 230V THREE CAST IRON 9418 SuperBrute XL UPS60-150 208-230V THREE CAST IRON CAST IRON 9457 UPMXL 25-124 208-230V VARIABLE 9458 UPMXL 25-124 INV. 208-230V VARIABLE CAST IRON Magna3 40-80 208-230V VARIABLE CAST IRON 9441 Magna3 40-120 208-230V VARIABLE CAST IRON 9444 VARIABLE CAST IRON 9452 Magna3 40-180 115V VARIABLE CAST IRON 9432 Magna3 40-180 208-230V 9423 9424 9449 208-230V VARIABLE CAST IRON Magna3 65-120 9433 Magna3 65-150 208-230V VARIABLE CAST IRON 208-230V VARIABLE CAST IRON CALL Magna3 80-100 9448 Magna 3 100-120 208-230V VARIABLE CAST IRON VARIABLE 9462 115/230V CAST IRON WILO STRATOS MAXO 1.25x3-35 9463 WILO STRATOS MAXO 1.25x3-52 230V VARIABLE CAST IRON 9464 WILO STRATOS MAXO 1.5x3-52 230V VARIABLE CAST IRON 9465 230V VARIABLE CAST IRON WILO STRATOS MAXO 2x3-35 3479/3480 VARIABLE CAST IRON 9466 WILO STRATOS MAXO 2x3-50 115/230V 9467 WILO STRATOS MAXO 3x3-52 230V VARIABLE CAST IRON VARIABLE CAST IRON 9468 230V WILO STRATOS MAXO 1.25x3-30 **REPAIR KITS** 9469 WILO STRATOS MAXO 1.25x3-20 115/230V VARIABLE CAST IRON 2938 Repair Kit, Composite Valve, Flo-Link Double O-ring **REPLACEMENT PUMP-FLUSH CART** 3518 Repair Kit, Brass Valve, Flo-Link Double O-ring 9424 Munro 1.5 HP 115V/208- 230V SINGLE 3341 Repair Kit, Brass Valve, FPT Connections **REPLACEMENT PUMP-GEO-BOOSTER** 3519 Repair Kit, XL Valve, Flo-Link XL Double O-ring 9423 Geo-Booster replacement pump **BLANK-OFF PLATES** 3341 3518 3519 2938 3480 Blank-off Plate Kit, Flo-Link Double O-ring flow centers 3479 Blank-off Plate Kit, 1" FPT flow centers \sim

Replacement Pumps/Blank Off Plates/Repair Kits-Flow Centers

Hose Kits

Geo-Flo hose kits significantly cut installation time by providing all of the fittings needed to connect a geothermal heat pump to a Geo-Flo flow center. Available in 3/4" to 2" sizes, as well as with Flo-Link and Flo-Link XL fittings.

			HOSE KITS
Heat Pump	Flow Center	PN	KIT CONTENTS
Connection	Connection	PN	KIT CONTENTS
<u>3/4 FPT</u>	<u>1"FPT</u>	1100	 Kit Contains: (1) 12 ft. 1" ID black hose (PN 2950) (2) Insulating boot (PN 3459) (2) Insulating boot cap (PN 3466) (2) 1/4" MPT PT Plug (PN 2143) (2) 1" MPT x 1" hose barb (flow center connection) (PN 2146) (2) Elbow, 3/4" MPT x 1" hose barb w/ PT port (heat pump connection) (PN 2265) (8) Stainless steel hose clamps (PN 2943)
	<u>1"FPT</u>	1101	 Kit Contains: (1) 12 ft. 1" ID black hose (PN 2950) (2) Insulating boot (PN 3459) (2) Insulating boot cap (PN 3466) (2) 1/4" MPT PT Plug (PN 2143) (2) 1" MPT x 1" hose barb (flow center connection) (PN 2146) (2) Elbow, 1" MPT x 1" hose barb w/ PT port (heat pump connection) (PN 3447) (8) Stainless steel hose clamps (PN 2943) Notes: Kit available without hose (PN 3813)
		1101CV	1101 hose kit with check valve at flow center connection
<u>1" FPT or</u> <u>1" Swivel</u>	<u>Flo-Link</u>	1181 1181CV	 Kit Contains: (1) 12 ft. 1" ID black hose (PN 2950) (2) Insulating boot (PN 3459) (2) Insulating boot cap (PN 3466) (2) 1/4" MPT PT Plug (PN 2143) (2) Flo-Link x 1" hose barb (flow center connection) (PN 2913) (2) Elbow, 1" MPT x 1" hose barb w/ PT port (heat pump connection) (PN 3447) (8) Stainless steel hose clamps (PN 2943) Notes: 1. For heat pumps with 3/4" connections use swivel adapter fitting (PN 3731) 2. Kit available without hose (PN 3814) 1181 hose kit with check valve at flow center connection
		110100	
<u>Flo-Link</u>		1354	 Kit Contains: (1) 12 ft. 1" ID black hose (PN 2950) (2) Insulating boot (PN 3459) (2) Insulating boot cap (PN 3466) (2) 1/4" MPT PT Plug (PN 2143) (2) Flo-Link x 1" hose barb (flow center connection) (PN 2913) (2) Elbow, Flo-Link x 1" hose barb w/ PT port (heat pump connection) (PN 3263) (8) Stainless steel hose clamps (PN 2943)
		1354CV	1354 hose kit with check valve at flow center connection

Hose Kits

Heat Pump	Flow Center	PN	KIT CONTENTS
Connection <u>1" FPT or</u> <u>1" Swivel</u>	Connection <u>Flo-Link</u>	1347	 Kit Contains: (1) 12 ft. 1" ID black hose (PN 2950) (3) Insulating boot (PN 3459) (3) Insulating boot cap (PN 3466) (2) 1/4" MPT PT Plug (PN 2143) (2) 1/4" brass plug (PN 3711) (1) Flo-Link x 1" hose barb (flow center connection) (PN 3384) (1) Flo-Link elbow x 1" hose barb (flow center connection) (PN 3262) (2) Elbow, 1" MPT x 1" hose barb w/ PT port (heat pump connection) (PN 3447) (8) Stainless steel hose clamps (PN 2943) Notes: Compatible with NP Plus flow centers and heat pumps with 1" FPT connections
<u>Flo-Link</u>	<u>Flo-Link</u>	1346	 Kit Contains: (1) 12 ft. 1" ID black hose (PN 2950) (3) Insulating boot (PN 3459) (3) Insulating boot cap (PN 3466) (2) 1/4" MPT PT Plug (PN 2143) (2) 1/4" brass plug (PN 3711) (1) Flo-Link x 1" hose barb (flow center connection) (PN 3384) (1) Flo-Link elbow x 1" hose barb (flow center connection) (PN 3362) (2) Elbow, Flo-Link x 1" hose barb w/ PT port (heat pump connection) (PN 3263) (8) Stainless steel hose clamps (PN 2943) Notes: Compatible with NP Plus flow centers and heat pumps with Flo-Link double O-ring connections.
<u>1" FPT or</u>	<u>PE FUSION</u>	1263	 Kit Contains: (1) 12 ft. 1" ID black hose (PN 2950) (2) Insulating boot (PN 3459) (2) Insulating boot cap (PN 3466) (2) 1/4" MPT PT Plug (PN 2143) (2) 1-1/4" PE Fusion x 1" hose barb (flow center connection) (PN 3665) (2) Elbow, 1" MPT x 1" hose barb w/ PT port (heat pump connection) (PN 3447) (8) Stainless steel hose clamps (PN 2943)
<u>1" Swivel</u>	<u>1-1/4" PVC</u>	1291	 Kit Contains: (1) 12 ft. 1" ID black hose (PN 2950) (2) Insulating boot (PN 3459) (2) Insulating boot cap (PN 3466) (2) 1/4" MPT PT Plug (PN 2143) (2) 1-1/4" PVC socket x 1" hose barb (flow center connection) (PN 3831) (2) Elbow, 1" MPT x 1" hose barb w/ PT port (heat pump connection) (PN 3447) (8) Stainless steel hose clamps (PN 2943)

Hose Kits

	<u>1" MPT</u>	1280	 Kit Contains: (1) 12 ft. 1" ID black hose (PN 2950) (2) Insulating boot (PN 3459) (2) Insulating boot cap (PN 3466) (2) 1/4" MPT PT Plug (PN 2143) (2) 1/4" brass plug (PN 3711) (2) 1" MPT x 1" hose barb w/ PT port (flow center connection) (PN 3929) (2) Elbow, 1" MPT x 1" hose barb w/ PT port (heat pump connection) (PN 3447) (8) Stainless steel hose clamps (PN 2943)
<u>1" FPT or</u> <u>1" Swivel</u>	<u>Flo-Link</u>	1281	 Kit Contains: (1) 12 ft. 1" ID black hose (PN 2950) (2) Insulating boot (PN 3459) (2) Insulating boot cap (PN 3466) (2) 1/4" MPT PT Plug (PN 2143) (2) Flo-Link x 1" HB w/ PT port w/ 1/4" brass plug (flow center connection) (PN 3385) (2) Elbow, 1" MPT x 1" hose barb w/ PT port (heat pump connection) (PN 3447) (8) Stainless steel hose clamps (PN 2943)
	<u>1-1/4" PE W/VALVES</u>	1337	 Kit Contains: (1) 12 ft. 1" ID black hose (PN 2950) (2) Insulating boot (PN 3459) (2) Insulating boot cap (PN 3466) (2) 1/4" MPT PT Plug (PN 2143) (2) 1-1/4" PE x 1" hose barb with iso. valve (flow center connection) (PN 4580) (2) Elbow, 1" MPT x 1" hose barb w/ PT port (heat pump connection) (PN 3447) (8) Stainless steel hose clamps (PN 2943)

	<u>1-1/4" FPT</u>	1251	Kit Contains: (1) 12 ft. 1-1/4" ID black hose (PN 3559) (2) 1/4" MPT PT Plug (PN 2143) (2) 1-1/4" MPT x 1-1/4" HB (flow center connection) (PN 3557) (2) Elbow, 1-1/4" MPT x 1-1/4" hose barb w/ PT port (heat pump connection) (PN 3556) (8) Stainless steel hose clamps (PN 4524)
<u>1-1/4" FPT</u>	<u>Flo-Link</u>	1385	Kit Contains: (1) 12 ft. 1-1/4" ID black hose (PN 3559) (2) 1/4" MPT PT plug (PN 2143) (2) Flo-Link x 1-1/4" HB (flow center connection) (PN 2942) (2) Elbow, 1-1/4" MPT x 1-1/4" hose barb w/ PT port (heat pump connection) (PN 3556) (8) Stainless steel hose clamps (PN 4524)
	<u>Flo-Link XL</u>	1261	 Kit Contains: (2) 8 ft. 1-1/4" ID black hose (PN 3559) (2) 1/4" MPT PT Plug (PN 2143) (2) Flo-Link XL x 1-1/4" HB (flow center connection) (PN 3652) (2) Elbow, 1-1/4" MPT x 1-1/4" hose barb w/ PT port (heat pump connection) (PN 3556) (8) Stainless steel hose clamps (PN 4524) Notes: Compatible with SuperBrute XL, VersaFlo, and Magna3 flow centers

Bulk Hose and Clamps

Heat Pump Connection	Flow Center Connection	PN	KIT CONTENTS
	<u>Flo-Link XL</u>	3477	 Kit Contains: (2) 8 ft. 2" ID black hose (PN 3418) (2) 1/4" MPT PT Plug (PN 2143) (2) Flo-Link XL x 2" hose barb (flow center connection) (PN 3397) (2) Elbow, 2" MPT x 2" hose barb w/ PT port (heat pump connection) (PN 3449) (10) Stainless steel hose clamps (PN 3417) Notes: Compatible with SuperBrute XL, VersaFlo, and Magna3 flow centers
			3477 hose kit with check valve at flow center connection 3477 hose kit with 2" MPT at flow center connection
<u>2" FPT</u>	<u>Flo-Link XL</u>	3478	 Kit Contains: (2) 8 ft. 2" ID wire-reinforced hose (PN 3418) (2) 1/4" MPT PT Plug (PN 2143) (1) Flo-Link XL x 2" hose barb (flow center connection) (PN 3475) (1) Flo-Link XL x 2" MPT (flow center to strainer connection) (PN 3476) (1) 2" Wye strainer (PN 3462) (1) 2" MPT x 2" hose barb (PN 3416) (2) Elbow, 2" MPT x 2" hose barb w/ PT port (heat pump connection) (PN 3449) (8) Stainless steel hose clamps (PN 3417) Notes: Compatible with SuperBrute XL, VersaFlo, and Magna3 flow centers

	BULK HOSE							
<u>Part Number</u>	Description	<u>U.O.M</u>						
2945	1" ID Black 150 psi hose, 10 ft. length	LENGTH						
2950	1" ID Black 150 psi hose, 12 ft. length	LENGTH						
3216	1" ID Black 150 psi hose, 50 ft. length	LENGTH						
3418	2" ID Black 200 psi hose, 8 ft. length	LENGTH						
2139	1" ID Black 150 psi hose, 450 ft. roll	ROLL						
3559	1-1/4" ID Black 150 psi hose, 400 ft. roll	ROLL						
4499	1" ID Red 200 psi hose, 450 ft. roll	ROLL/LENGTH						
4519	1-1/4" ID Red 200 psi hose, 400 ft. roll	ROLL/ LENGTH						



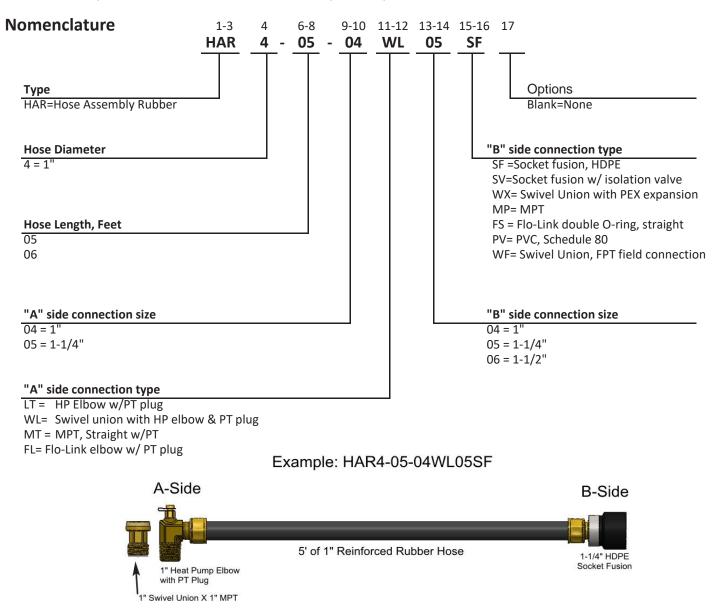
	HOSE CLAMPS (STAINLESS STEEL)						
	3540	SIZE 06 (5/16"-7/8")	EACH				
STAINLESS	2943	SIZE 20 (3/4"-1-3/4")	EACH				
STEEL	3558	SIZE 28 (1-1/4"-2-1/4")	EACH				
	3417	SIZE 40 (2"-3")	EACH				



Pre-assembled hose kits are the fast and professional way to provide a flexible connection between a geothermal heat pump and flow center or any other piping connection. The assemblies consist of reinforced rubber hose with factory crimped brass ferrules on your choice of adapter fittings. These assemblies are similar to stainless steel hose kits used in commercial applications without the high cost and additional stiffness.

	ASSEMBLED HOSE KITS								
Part	Hose	Hose length	"A" Connection	"A" Connection	"B" Connection	"B" Connection			
Number	Diameter (in)	(ft)	Size	Туре	Size	Туре			
HAR4-05-04LT04MP					1″	МРТ			
HAR4-05-04LT06WX				HP Elbow w/PT plug	1-1/2"	Swivel Union w/Pex			
HAR4-05-04WL05SF					1-1/4"	Socket Fusion, HDPE			
HAR4-05-04WL05SV	1″	5′	1"		1-1/4"	Socket Fusion w/ iso. Valve			
HAR4-05-04WL06SF				Swivel union w/HP elbow &	1-1/2"	Socket Fusion, HDPE			
HAR4-05-04WL06SV		v		PT plug	1-1/2"	Socket Fusion w/ iso. Valve			
HAR4-05-04WL06WX					1-1/2"	Swivel Union w/Pex			

NOTE: Not all options are available. Call for items not specifically listed.



Flo-Link[™]-Fittings

	FLO-LINK FITTINGS			FLO-LINK FITTINGS			Flo-Link fittings provide a reliable way to connect Flo-
PN	DESCRIPTION	U.O.M.	MATERIAL	Link double O-ring flow centers and heat pumps. The			
2913	FL X 1″ HOSE BARB	SET		fittings are simply inserted into the female port and			
3490	FL X 1" HOSE BARB W/CHECK VALVE	SET]	secured by hand-tightening the nut. These fittings			
3490-HALF	FL X 1" HOSE BARB W/CHECK VALVE	EACH]	are available in a variety of materials and styles to al-			
3385	FL X 1" HOSE BARB W/1/4" FPT PORT	SET]	low connection to any type of hose or pipe.			
2942	FL X 1-1/4" HOSE BARB	SET]	*PT Plug Not Included			
3769	FL X 1-1/4" HOSE BARB W/1/4" FPT PORT	SET]				
3072	FL X 1" MPT	SET]				
3389	FL X 1" MPT W/1/4" FPT PORT	SET]				
3498	FL (FEMALE) X 1" MPT	SET					
3326	FL X 1" FPT	SET					
3471	FL (FEMALE) X 1" MPT	EACH					
4143	FL X 1" FPT W/CHECK VALVE	SET	BRASS				
4143-HALF	FL X 1" FPT W/CHECK VALVE	EACH					
3885	FL X 1-1/4" FPT	SET					
3144	FL X 1-1/8" SWEAT W/1/4" FPT PORT*	SET					
4720	FL X 1-1/2" PEX EXP	SET					
2914	FL X MALE CAM ADAPTER	SET					
3203	FL X MALE GARDEN HOSE ADAPTER	SET]				
4742	FL X FL COUPLER	EACH]				
3248	FL X FEMALE GARDEN HOSE ADAPTER	SET]				
3263	FL ELBOW X 1" HOSE BARB W/1/4" FPT PORT*	SET					
3255	FL ELBOW X 1" MPT W/1/4" FPT PORT*	SET					
3433	FL Coupler	EACH					
3924	FL ELBOW X 1" PE FUSION W/1/4" FPT PORT*	SET]				
3096	FL X 3/4" PE SOCKET FUSION	SET					
2912	FL X 1" PE PE SOCKET FUSION	SET					
2911	FL X 1-1/4" PE SOCKET FUSION	SET	HDPE				
2911-10X	FL X 1-1/4" PE SOCKET FUSION BULK PACK	10 SETS]				
3917	FL X 1-1/4" PE PIPE	SET]				
3243	FL X 40MM PIPE	SET					
3425	FL X 1-1/4" PVC SOCKET	SET	PVC				



3072

4143

2914

3490

3263

3433

2913/2942



2911/2912/3096/2911-10X

Geo-Flo Corporation

3917/3243

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3389

Fittings-Flo-Link[™] XL

Flo-Link XL fittings provide a reliable way to connect Flo-Link XL double O-ring products including SuperBrute XL, VersaFlo, and Magna3 insulated pumps and flow centers. The fittings are simply inserted into the female port and secured by hand-tightening the nut. These fittings are available in a variety of materials and styles to allow connection to any type of hose or pipe.

	FLO-LINK XL FITTINGS					
PN	DESCRIPTION	U.O.M.	MATERIAL			
3652	FL XL X 1-1/4" HOSE BARB	SET				
3397	FL XL X 2" HOSE BARB	SET				
3655	FL XL X 1-1/4" MPT	SET	BRASS			
3476	FL XL X 2" MPT	EACH	BRASS			
3318	FL XL X 2" FPT	SET				
3395	FL XL X 2" SWEAT	SET				
3380	FL XL X 1" CAM	SET				
3486	FL XL X 1-1/2" CAM	SET	ALUMINIUM			
3485	FL XL X 1″ FEMALE GARDEN HOSE ADAPTER	SET				
3463	FL XL X 1-1/4" PE SOCKET FUSION	SET				
3464	FL XL X 1-1/2" PE SOCKET FUSION	SET	HDPE			
3465						
4772	FL XL X FL XL	EACH				



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		HOSE BARB (HB)		
	Flo-Link (FL)			
	2913	FL X 1" HB	SET	
	3490	FL X 1" HB W/CHECK VALVE	SET	
	3385	FL X 1" HB W/1/4" FPT PORT	SET	Flo-Link XL X Hose Barb
DDACC	2942	FL X 1-1/4" HB	SET	
BRASS	3769	FL X 1-1/4" HB W/ PT PORT	SET	
	Flo-Link XL (FL XL)		·	
	3652	FL XL X 1-1/4" HB	SET	
	3397	FL XL X 2" HB	SET	
	Hose Barb			
BRONZE	4738	1" HB X 1-1/4" HB	EACH	MPT X Hose Barb
	MPT			
BRASS	4310	3/4" MPT X 3/4" HB	EACH	
BRONZE	4739	3/4" MPT X 1" HB	EACH	
	2146	1" MPT X 1" HB	EACH	
	3929	1" MPT X 1" HB W/1/4" FPT PORT	EACH	
	4505	1" MPT X 1" HB W/CHECK VALVE	EACH	PVC Glue X Hose Barb
BRASS	2147	1" MPT X 1-1/4" HB	EACH	
	3557	1-1/4" MPT X 1-1/4" HB	EACH	
	4514	1-1/4" MPT X 1-1/4" HB W/ CHECK VALVE	EACH	
	3416	2" MPT X 2" HB	EACH	
	<u>PVC</u>			
PVC	3831	1-1/4" PVC Glue X 1" HB	SET	
	·	MPT		Flo-Link X MPT
	Flo-Link (FL)			
	3072	FL X 1" MPT	SET	
	3389	FL X 1" MPT W/1/4" FPT PORT	SET	
	3498	FL (FEMALE) X 1" MPT	SET	
	Flo-Link XL (FL XL)			
	3655	FL XL X 1-1/4" MPT	SET	
	3476	FL XL X 2" MPT	EACH]
BRASS	SWIVEL			Swivel X MPT
	3731	1" SWIVEL X 3/4" MPT	SET	
	3732	1" SWIVEL X 1" MPT	SET	
	3726	1-1/4" SWIVEL X 1-1/4" MPT	SET	
	3771	1-1/4" SWIVEL X 1-1/4" MPT	EACH	
	4323	1-1/4" SWIVEL X 1" MPT	SET	
	4544	1" SWIVEL X 1/2" MPT	SET	
		WATER HEATER ADAPTERS		CAM X MPT
BRASS	3721	1" Straight Mechanical Thread X 1" Female SWIVEL	SET	Boo
	CAM			8.410
ALUMINUM	3666	1" CAM X 1" MPT -Note: For Flushing	EACH	
<u></u>	•	•		-

ALL FITTINGS

DESCRIPTION

Fittings

MATERIAL

ΡN



Flo-Link X Hose Barb

U.O.M.



Fittings

		<u>FPT</u>	
	Flo-Link (FL)		
	3326	FL X 1" FPT	SET
	4143	FL X 1" FPT W/CHECK VALVE	SET
BRASS	3885	FL X 1-1/4" FPT	SET
	Flo-Link XL (FL XL)		
	3318	FL XL X 2" FPT	SET
		SWEAT	
	Flo-Link (FL)		
	3144	FL X 1-1/8" SWEAT W/1/4" FPT PORT	SET
	Flo-Link XL (FL XL)		
BRASS	3395	FL XL X 2" SWEAT	SET
DRASS	SWIVEL		-
	3844	1" SWIVEL X 7/8" SWEAT *REQUIRES GASKET PN 3717	SET
	3845	1" SWIVEL X 1-1/8" SWEAT *REQUIRES GASKET PN 3717	SET
		CAM	
	Flo-Link (FL)		_
HDPE	2914	FL X MALE CAM ADAPTER	SET
	Flo-Link XL (FL XL)		_
ALUMINUM	3380	FL XL X 1" CAM	SET
ALOWINOW	3486	FL XL X 1-1/2" CAM	SET
		GARDEN HOSE	
	Flo-Link (FL)		_
	3203	FL X MALE GARDEN HOSE ADAPTER	SET
BRASS	3248	FL X FEMALE GARDEN HOSE ADAPTER	SET
BRASS	Flo-Link XL (FL XL)		_
	3485	FL XL X 1" FEMALE GARDEN HOSE ADAPTER	SET
		<u>ELBOWS</u>	
		PT PLUGS	
	2143	1/4" PT PLUG	EACH
BRASS	2144	1/2" PT PLUG	EACH
DIA00	3711	1/4" PLUG	EACH
		Note: Use w/ FL or threaded fittings that have a 1/4" FPT port, where a PT plug is not no	eeded.



Elbows-Fittings

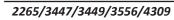
	Flo-Link (FL)		
DDACC	3263	FL ELBOW X 1" HB W/1/4" FPT PORT	SET
BRASS	3255	FL ELBOW X 1" MPT W/1/4" FPT PORT	SET
PE/BRASS	3924	FL ELBOW X 1" PE FUSION W/1/4" FPT PORT	SET
	MPT		
	4309	3/4" MPT X 3/4" HB W/1/4" FPT PORT	EACH
	2265	3/4" MPT X 1" HB W/1/4" FPT PORT	EACH
	3447	1" MPT X 1" HB W/1/4" FPT PORT	EACH
	3481	1" MPT X 1" FPT W/1/4" PT PLUGS	SET
	3448	1" MPT X 1" FPT W/ PT PORT	EACH
BRASS	3556	1-1/4" MPT X 1-1/4" HB W/1/4" FPT PORT	EACH
	3660	1-1/4" MPT X 1-1/4" HB W/1/4" PT PLUGS	SET
	3500	1-1/4" MPT X 1-1/4" FPT W/1/4" FPT PORT	SET
	3499	1-1/4" MPT X 1-1/4" FPT W/1/4" FPT PORT	EACH
	3449	2" MPT X 2" HB W/1/4" FPT PORT	EACH
	3482	2" MPT X 2" HB W/1/4" PT PLUGS	SET
FOAM	3461	INSULATING BOOT SET FOR 1" ELBOWS	SET

3255



3924

3461











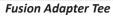
PE FUSION				
	Flo-Link (FL)			
	3096	FL X 3/4" PE FUSION	SET	
	2912	FL X 1" PE FUSION	SET	
	2911	FL X 1-1/4" PE FUSION	SET	
HDPE	2911-10X	FL X 1-1/4" PE FUSION BULK PACK	10 SETS	
	Flo-Link XL (FL XL)			
	3463	FL XL X 1-1/4" PE FUSION	SET	
	3464	FL XL X 1-1/2" PE FUSION	SET	
	3465	FL XL X 2" PE FUSION	SET	

Fittings-PE Fusion

		PE FUSION ADAPTERS	
	HOSE BARB		
	PFA34HB	3/4" SOCKET FUSION X 1" HB	EACH
	PFA44HB	1" SOCKET FUSION X 1" HB	EACH
HDPE/BRASS	PFA54HB	1-1/4" SOCKET FUSION X 1" HB	EACH
	PFA64HB	1-1/2" SOCKET FUSION X 1" HB	EACH
	MPT		
	PFA33M	3/4" SOCKET FUSION X 3/4" MPT	EACH
	PFLA33M	ELBOW, 3/4" SOCKET FUSION X 3/4" MPT	EACH
	PFA34M	3/4" SOCKET FUSION X 1" MPT	EACH
	PFLA34M	ELBOW, 3/4" SOCKET FUSION X 1" MPT	EACH
	PFA44M	1" SOCKET FUSION X 1" MPT	EACH
	PFA53M	1-1/4" SOCKET FUSION X 3/4" MPT	EACH
HDPE/BRASS	PFA54M	1-1/4" SOCKET FUSION X 1" MPT	EACH
	PFA54M-CV	1-1/4" SOCKET FUSION X 1" MPT W/ CHECK VALVE	EACH
	PFA55M	1-1/4" SOCKET FUSION X 1-1/4" MPT	EACH
	PFA64M	1-1/2" SOCKET FUSION X 1" MPT	EACH
	PFA66M	1-1/2" SOCKET FUSION X 1-1/2" MPT	EACH
	PFA88M	2" SOCKET FUSION X 2" MPT	EACH
	<u>FPT</u>		
	PFA31F	3/4" SOCKET FUSION X 1/4" FPT	EACH
	PFA32F	3/4" SOCKET FUSION X 1/2" FPT	EACH
HDPE/BRASS	PFLA33F	ELBOW, 3/4" SOCKET FUSION X 3/4" FPT	EACH
	PFA88F	2" SOCKET FUSION X 2" FPT	EACH
		PE FUSION ADAPTERS TEES	
	PFTA332F	3/4" FUSION X 3/4" FUSION X 1/2" FPT	EACH
	PFTA442F	1" FUSION X 1" FUSION X 1/2" FPT	EACH
	PFTA4MS2F4	1" MPS X 1/2" FPT X 1" FUSION	EACH
	PFTA4MS32F	1" MPT X 3/4" FUSION X 1/2" FPT	EACH
HDPE/BRASS	PFTA4MS42F	1" MPT X 1" FUSION X 1/2" FPT	EACH
	PFTA551F	1-1/4" FUSION X 1-1/4" FUSION X 1/4" FPT	EACH
	PFTA881F	2" FUSION X 2" FUSION X 1/4" FPT	EACH
	PFTA854M	2" FUSION X 1-1/4" FUSION X 1" MPT	EACH
	PFTA884M	2" FUSION X 2" FUSION X 1" MPT	EACH
	•		·

Socket Fusion X Hose Barb









Socket Fusion X FPT



Socket Fusion X Flo-Link





Socket Fusion Elbows

Geo-Flo Corporation

PE Fusion/Elbows-Fittings

		FUSION COUPLINGS	
	PFC33	3/4" X 3/4"	EACH
	PFC43	1" X 3/4"	EACH
	PFC44	1" X 1"	EACH
	PFC53	1-1/4" X 3/4"	EACH
	PFC54	1-1/4" X 1"	EACH
	PFC55	1-1/4" X 1-1/4"	EACH
	PFC64	1-1/2" X 1"	EACH
HDPE	PFC65	1-1/2" X 1-1/4"	EACH
	PFC66	1-1/2" X 1-1/2"	EACH
	PFC84	2" X 1"	EACH
	PFC85	2" X 1-1/4"	EACH
	PFC86	2" X 1-1/2"	EACH
	PFC88	2" X 2"	EACH
	3895	BUTT FUSION REDUCER, 3" X 2" IPS	EACH
	4254	BUTT FUSION REDUCER, 4" X 3" IPS	EACH
		FUSION ELBOWS	
	PFL33	3/4" X 3/4"	EACH
	PFL33S	3/4" X 3/4" STREET	EACH
	PFL43	1" X 3/4"	EACH
	PFL44	1" X 1"	EACH
	PFL44-45	1" X 1″ 45°	EACH
	PFL44S	1" X 1" STREET	EACH
	PFL53	1-1/4" X 3/4"	EACH
HDPE	PFL54	1-1/4" X 1"	EACH
	PFL55	1-1/4" X 1-1/4"	EACH
	PFL55-45	1-1/4" X 1-1/4" 45°	EACH
	PFL55S	1-1/4" X 1-1/4" STREET	EACH
	PFL66	1-1/2" X 1-1/2"	EACH
	PFL66-45	1-1/2" X 1-1/2" 45°	EACH
	PFL88	2" X 2"	EACH
		FUSION CAPS	
	PFP3	3/4"	EACH
	PFP4	1"	EACH
HDPE	PFP5	1-1/4"	EACH
	PFP6	1-1/2"	EACH
	PFP8	2″	EACH

Fusion Coupling

Fusion Caps

Fusion Elbow, Street

Fusion Elbow









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Fittings-Fusion

		FUSION TEES	
	PFT333	3/4" X 3/4" X 3/4"	EACH
	PFT444	1" X 1" X 1"	EACH
	PFT533	1-1/4" X 3/4" X 3/4"	EACH
	PFT544	1-1/4" X 1" X 1"	EACH
	PFT553	1-1/4" X 1-1/4" X 3/4"	EACH
	PFT554	1-1/4" X 1-1/4" X 1"	EACH
	PFT555	1-1/4" X 1-1/4" X 1-1/4"	EACH
	PFT664	1-1/2" X 1-1/2" X 1"	EACH
HDPE	PFT666	1-1/2" X 1-1/2" X 1-1/2"	EACH
	PFT853	2" X 1-1/4" X 3/4"	EACH
	PFT854	2" X 1-1/4" X 1"	EACH
	PFT855	2" X 1-1/4" X 1-1/4"	EACH
	PFT864	2" X 1-1/2" X 1"	EACH
	PFT883	2" X 2" X 3/4"	EACH
	PFT884	2" X 2" X 1"	EACH
	PFT885	2" X 2" X 1-1/4"	EACH
	PFT888	2" X 2" X 2"	EACH
	·	PRE-ASSEMBLED FUSION HEADERS	
	PH53X3	1-1/4" X (3) 3/4" circuits	EACH
	PH54X3	1-1/4" X (4) 3/4" circuits	EACH
HDPE	PH55X3	1-1/4" X (5) 3/4" circuits	EACH
	PH56X3	1-1/4" X (6) 3/4" circuits	EACH
		<u>PE PIPE</u>	
	<u>Flo-Link (FL)</u>		
HDPE	3917	FL X 1-1/4" PE PIPE	SET
		<u>PVC</u>	
	Flo-Link (FL)		
	3425	FL X 1-1/4" PVC GLUE	SET
PVC	3425-10X	FL X 1-1/4" PVC GLUE BULK PACK	10 SETS
		COMPRESSION FITTINGS	
HDPE	PCA55F	1-1/4" Compression X 1-1/4" FPT	EACH
HDPE/PVC	PCC55PVC	1-1/4" HDPE Compression X 1-1/4" PVC Compression	EACH

Pre-Assembled Fusion Headers

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Compression Fittings



Geo-Flo Corporation

Valves

	VAL	VES				
	BRASS, FULL PO	RT BALL VALVES				
3543	3543 1/4" FPT X 1/4" FPT					
4848	1/4" FPT X 1/4" MPT					
3705	3705 1/2" FPT X 1/2" MPT					
4312	3/4" FPT X 3/4" MPT					
3968	1" FPT X 1" FPT					
3786	1" FPT X 1" MPT					
3787	1-1/4" FPT X 1-1/4" MPT					
3576	1-1/2" FPT X 1-1/2" FPT					
3706	1-1/2" FPT X 1-1/2" MPT					
3575	2" FPT X 2" FPT					
3707	2" FPT X 2" MPT					
4676	1" FPT X 1" CAM					
4016	2" ISOLATION W/CHECK, 2" FPT X FLO-L	INK XL				
4580	VALVE, 1" FULL PORT, 1-1/4" SOCKET FU	JSION X 1" HOSE BARB				
	FUSION BA	LL VALVES				
PFV33	3/4" X 3/4"					
PFV44	1" X 1"					
PFV55	1-1/4" X 1-1/4"					
PFV88	2" X 2"					
PFV55U	1-1/4" X 1-1/4", true union					
PFV88U	2" X 2", true union					
	BUTTERFL	<u>Y VALVES</u>				
3919	Valve, Butterfly, 3" flange, CI Body, Al B	rnz Disc, NBR Seat				
3925	Valve, Butterfly, 4" flange, CI Body, Al B	rnz Disc, NBR Seat				
Note: Valve des	gn eliminates the need for a gasket					
	<u>CHECK</u>	VALVES				
3918	Check Valve, 2" FPT, Spring, Brass, NBR	Seat				
3490	Fitting set, FL X 1" HB w/check valve					
4143	Fitting set, FL X 1" FPT w/ check valve					
4505	Fitting, 1" MPT X 1" HB w/ Check Valve					
5185	Fitting, 1" HB x 1" HB w/ check valve					
PFA54M-CV	Fusion adapter (each), 1-1/4" SF X 1" N	IPT w/ check valve				
Brass Ball Valves	5185 3490	4143	PFV88	Butterfly Valves		
		R S	- T ()>			

	STAINLESS FULL PORT BALL VALVES AND ASSEMBLIES	
BV4-4H4H-SS	VALVE, 1" FULL PORT, 1" HB X 1" HB, STAINLESS	
BV5-5H5H-SS	VALVE, 1-1/4" FULL PORT, 1-1/4" HB X 1-1/4" HB, STAINLESS	
BV4-PF-4B4B-SS	VALVE, 1" STAINLESS, POLY FUSION 1" X 1" PE PIPE	
BV5-PF-5B5B-SS	VALVE, 1-1/4" STAINLESS, POLY FUSION 1-1/4" X 1-1/4" PE PIPE	
BV4-PF-4S4S-SS	VALVE, 1" STAINLESS, POLY FUSION 1" SOCKET FUSION X 1" SOCKET FUSION	Band
BV5-PF-5S5S-SS	VALVE, 1-1/4" STAINLESS, POLY FUSION 1-1/4" SOCKET FUSION X 1-1/4" SOCKET FUSION	and t

Geo-Flo Corporation

Valves

FLO-LINK ISOLATION VALVES					
SETS	3790	FL X 1" FPT	3790: 1" FPT 4066: 1" FPT w/chk vlv 3875: 1¼" FPT		
	4144	FL X 1" FPT W/CHECK VALVE (SINGLE ASSEMBLY)			
	4066	FL X 1" FPT W/CHECK VALVE (SET)			
	3875	FL X 1-1/4" FPT			
	3792	FL XL X 2" FPT			
	2534	1" FPT Isolation Valve, Standard Port, no handle			
	2535	1-1/4" FPT Isolation Valve, Standard Port, no handle			
	2270	1" FPT Isolation Valve, Flanged, Full Port			
	4500	Valve, Flange X 1" FPT, Brass			
DUAL UNIT	3970	FL Dual Unit Connection Kit] •		
CONNECTION KITS	4243	FL XL Dual Unit Connection Kit			
FLANGE ADAPTERS					
CETC	2135	1" FPT, Cast Iron, Black			
SETS	2238	1-1/4" FPT, Cast Iron, Black			
	3494	1-1/4" SWT, UP15&UP26			
	3495	1-1/2" SWT, UP15&UP26			
KITS	3445	1-1/2" SWT, UPS40			
	3446	2" SWT, UPS40			
	3528	1" FPT, Cast Iron, Wilo			
	3893	2" flange x 2" IPS DR11 HDPE pipe*			
FUSION	3896	3" flange x 3" IPS DR11 HDPE pipe*			
	4252	4" flange x 4" IPS DR11 HDPE pipe*			
*Requires backup ring and gasket/hardware kit					
	3894	Back up ring for 2" flange (3893)			
BACK UP RING	3897	Back up ring for 3" flange (3896)			
	4253	Back up ring for 4" flange (4252)			
HARDWARE	CALL	Gasket/Hardware kit for 2" flange (3893)			
	CALL	Gasket/Hardware kit for 3" flange (3896)			
	CALL	Gasket/Hardware kit for 4" flange (4252)			
	4244	Single Pump mounting bracket for UP/UPS 15&26 pumps			
	3817	Double Pump mounting bracket for UP/UPS 15&26 pt	umps		

Dual Unit Connection KitsMounting BracketsFusion Flange Adapter
(shown with backup ring)22702135/22382534/253545003445/3494/34953446CONSTRANTCONSTRANTCONSTRANTCONSTRANTCONSTRANTCONSTRANTCONSTRANTCONSTRANTCONSTRANTCONSTRANT

		FLUSH VALVES AND ASSEMBLIES				
MOUNTING HARDWARE INCLUDED	4702	Single, 3-way, 4 position flush/iso. Valve, Insulated cab., Brass	Flo-Link Connections			
	3514	Single, 3-way, 4 position flush/iso. Valve, Insulated cab., Composite (Req	uires 2 FL adapter fittings and FL			
	3522	Double, 3-way, 4 position flush/iso. Valve, Insulated cab., Brass flush adapters)				
	1199	2", 3-way, 4 position flush/iso. Valve, Insulated cab. Brass (Requires:(2) FL XL adapter fittings & FL XL flush adapt.)				
	FLC32S	3" flushing assembly				
	FLC42S	4" flushing assembly				
-	2480	2480 Underground Flushing Kit Contains:				
		(2) Brass 3-way flushing valve				
		(1) Pro series box with lid				
		(4) Socket fusion coupling, 1-1/4"				
		(4) Socket fusion fittings, 1" MPT x 1-1/4" fusion				
		(4) PE pipe nipples, 1-1/4" long	28 100V			
		ZONE VALVES				
	VMT3F-OP Taco geo open loop vlv, brass 3/4" FPT, 24V w/end switch, Cv = 10.3**		Recommended			
	VMT3F-CL	Taco geo closed loop vlv, brass 3/4" FPT, 24V w/end switch, Cv = 10.3**	U.S. GPM Minimum Cv 3 2 to 3			
	VMT4F-OP	Taco geo open loop vlv, brass 1" FPT, 24V w/end switch, Cv = 8.9**	4.5 3 to 4			
	VMT4F-CL	Taco geo closed loop vlv, brass 1"" FPT, 24V w/end switch, Cv = 8.9**	6 4 to 6 7.5 6 to 8			
VMSPR		Powerhead for older (orange) VMSBZ Valves	9 7 to 9			
-	VMBBN4F-SR	Belimo B225+LFR24-S+NC/FO motorized ball vlv, nickle plated brass 1" FPT,	10 8 to 10 12 9 to 12			
		spring rtrn, 24V w/end sw, Cv=30**	15 11 to 15			
	VMBBN5F-SR	Belimo B232+AFR24-S+NC/FO motorized ball vlv, nickle plated brass 1-1/4"	FPT 18 13 to 18			
		spring rtrn, 24V w/end sw, Cv=37**	Table 1: Recommend Min. Cv Higher Cv = lower pressure drop			
	**Choose valve b	ased upon Cv (Flow Coefficient) for flow rate (see Table 1). Higher Cv = low	ver pressure drop.			

FLOW REGULATORS FOR OPEN LOOP SYSTEMS				
3/4" FPT x 3/4" FPT	VFR33F-2	2 GPM		
	VFR33F-3	3 GPM		
	VFR33F-4	4 GPM		
	VFR33F-5	5 GPM		
	VFR33F-6	6 GPM		
	VFR33F-7	7 GPM		
	VFR33F-8	8 GPM		
	VFR33F-9	9 GPM		

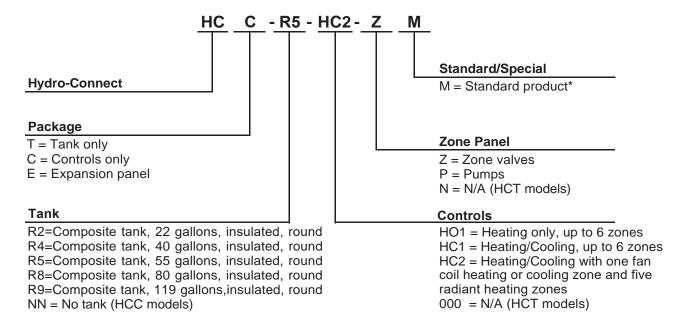


3-way, 4 position flush/iso.valve



Buffer Tanks

Geo-Flo's HCT Buffer Tanks are used with geothermal water-to-water heat pumps, air-to-water heat pumps, boilers, and other hot- and chilled-water hydronic systems requiring a buffer tank. These HCT's feature a composite tank that will never corrode, and factory installed, brass, union fluid connections. The tank is insulated with a high R-value urethane foam and covered with a high-impact plastic jacket that resists scratches, dents and condensation formation.



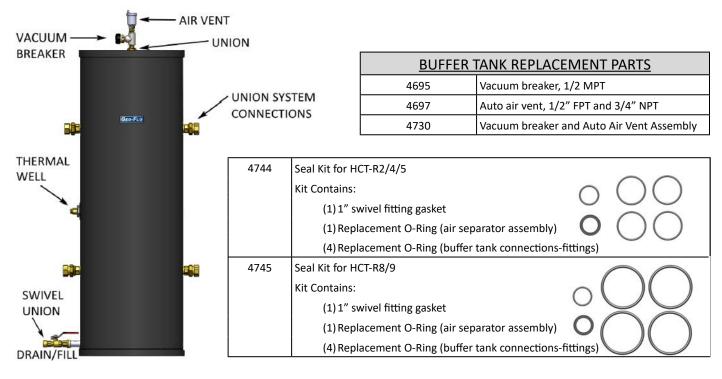
Nomenclature: Buffer Tanks and Hydronic Controls

* Standard HCC and HCE products provided with controls mounted on a melamine composite panel. All HCE products provided with controls mounted on a melamine composite panel.

BUFFER TANKS					
	HCT-R2-000-NM HC Buffer Tank, 22 gallon				
	HCT-R4-000-NM	HC Buffer Tank, 40 gallon			
HCT TANK	HCT-R5-000-NM	HC Buffer Tank, 55 gallon			
	HCT-R8-000-NM	HC Buffer Tank, 80 gallon			
	HCT-R9-000-NM	HC Buffer Tank, 119 gallon			



Hydro-Connect Controls (HCC)-Controls



CONTROL PANEL



HYDRO-CONNECT CONTROLS					
	HCC-NN-HO1-PM	Heating Only, Pump Controls			
	HCC-NN-HO1-ZM	Heating Only, Zone Valve Controls			
HCC CONTROLS	HCC-NN-HC1-PM	Heating/Cooling, Pump Controls			
HCC CONTROLS	HCC-NN-HC1-ZM	Heating/Cooling, Zone Valve Controls			
	HCC-NN-HC2-PM	Heating/Cooling with Fan Coil, Pump Controls			
	HCC-NN-HC2-ZM	Heating/Cooling with Fan Coil, Zone Valve Control			
EXPANSION PANELS					
	HCE-NN-HO1-PM	HC Expansion Panel for HO1, Pump Controls			
	HCE-NN-HO1-ZM	HC Expansion Panel for HO1, Zone Valve Controls			
HCE EXPANSION	HCE-NN-HC1-PM	HC Expansion Panel for HC1, Pump Controls			
PANELS	HCE-NN-HC1-ZM	HC Expansion Panel for HC1, Zone Valve Controls			
	HCE-NN-HC2-PM	HC Expansion Panel for HC2, Pump Controls			
	HCE-NN-HC2-ZM	HC Expansion Panel for HC2, Zone Valve Controls			
		HBX CONTROLLER			
HBX CONTROLLER	HBX CONTROLLER 5005 CONTROLLER, HBX ECO-0600				

Controls-Multi Pump, VS Pump, & Magna3

EXTERNAL CONTROLLER FOR MAGNA3 4062 UPC GEO external controller, 0-10VDC output Use external controller for Magna3 Delta-T control for primary-secondary applications to provide heating and cooling Delta-T set 3986 10k thermistor, 1/4" NPT insertion type (4062 controller requires two thermistors) 3760 AC wall adapter for 4062 (Optional if 24VAC is available near 4062 controller location) 3807 Barrel connector for 3760 (Optional if 24VAC is available near 4062 controller location) 3807 BAIREL CONTROLLES FOR MAGNA3/ DONGLE FOR GRUNDFOS GO CIM100 LonWorks Network Interface Module CIM200 Modbus RTU Network Interface Module CIM300 BACnet MS/TP Network Interface Module PUMP ENABLE CONTROL-Pump off unless at least one heat pump is calling	MAGNA 3 EXTERNAL CONTROLLER AND ACCESSORIES				
Use external controller for Magna3 Delta-T control for primary-secondary applications to provide heating and cooling Delta-T set 3986 10k thermistor, 1/4" NPT insertion type (4062 controller requires two thermistors) 3760 AC wall adapter for 4062 (Optional if 24VAC is available near 4062 controller location) 3807 Barrel connector for 3760 (Optional if 24VAC is available near 4062 controller location) <u>BMS INTERFACE MODULES FOR MAGNA3/ DONGLE FOR GRUNDFOS GO</u> CIM100 LonWorks Network Interface Module CIM200 Modbus RTU Network Interface Module CIM300 BACnet MS/TP Network Interface Module	EXTERNAL CONTROLLER FOR MAGNA3				
3986 10k thermistor, 1/4" NPT insertion type (4062 controller requires two thermistors) 3760 AC wall adapter for 4062 (Optional if 24VAC is available near 4062 controller location) 3807 Barrel connector for 3760 (Optional if 24VAC is available near 4062 controller location) 3807 Barrel connector for 3760 (Optional if 24VAC is available near 4062 controller location) CIM100 LonWorks Network Interface Module CIM100 LonWorks Network Interface Module CIM300 BACnet MS/TP Network Interface Module	4062	UPC GEO external controller, 0-10VDC output			
3760 AC wall adapter for 4062 (Optional if 24VAC is available near 4062 controller location) 3807 Barrel connector for 3760 (Optional if 24VAC is available near 4062 controller location) BMS INTERFACE MODULES FOR MAGNA3/ DONGLE FOR GRUNDFOS GO CIM100 LonWorks Network Interface Module CIM200 Modbus RTU Network Interface Module CIM300 BACnet MS/TP Network Interface Module		Use external controller for Magna3 Delta-T control for primary-secondary applications to provide heating and cooling Delta-T set points.			
3807 Barrel connector for 3760 (Optional if 24VAC is available near 4062 controller location) BMS INTERFACE MODULES FOR MAGNA3/ DONGLE FOR GRUNDFOS GO CIM100 LonWorks Network Interface Module CIM200 Modbus RTU Network Interface Module CIM300 BACnet MS/TP Network Interface Module	3986	10k thermistor, 1/4" NPT insertion type (4062 controller requires two thermistors)			
BMS INTERFACE MODULES FOR MAGNA3/ DONGLE FOR GRUNDFOS GO CIM100 LonWorks Network Interface Module CIM200 Modbus RTU Network Interface Module CIM300 BACnet MS/TP Network Interface Module	3760	AC wall adapter for 4062 (Optional if 24VAC is available near 4062 controller location)			
CIM100 LonWorks Network Interface Module CIM200 Modbus RTU Network Interface Module CIM300 BACnet MS/TP Network Interface Module	3807	3807 Barrel connector for 3760 (Optional if 24VAC is available near 4062 controller location)			
CIM200 Modbus RTU Network Interface Module CIM300 BACnet MS/TP Network Interface Module	BMS INTERFACE MODULES FOR MAGNA3/ DONGLE FOR GRUNDFOS GO				
CIM300 BACnet MS/TP Network Interface Module	CIM100	LonWorks Network Interface Module			
	СІМ200	Modbus RTU Network Interface Module			
PUMP ENABLE CONTROL-Pump off unless at least one heat pump is calling	СІМЗОО	BACnet MS/TP Network Interface Module			
	PUMP ENABLE CONTROL-Pump off unless at least one heat pump is calling				
3808 Pump enable control (up tp 5 units w/ one insulated pump or flow center", NEMA enclosed	3808	Pump enable control (up tp 5 units w/ one insulated pump or flow center", NEMA enclosed			
MAGNA 3 ACCESSORIES					
4313 Temperature sensor, Grundfos, RPI w/1/2" adapter for delta T	4313	Temperature sensor, Grundfos, RPI w/1/2" adapter for delta T			



VARIABLE SPEED CONTROLLER KITS				
3697 Temperature Control - (2) 1/4" MPT immersion thermistors included				
2608	Flow and Temperature Control -Hose barb			
3698	Hose kit connections 1"HB (also available as 1" MPT) (Thermistors and flow sensor included)			
2766	Flow and Temperature Control -PVC Glue			
3766	PVC connections 1" PVC Glue (also available as 1" MPT) (Thermistors and flow sensor included)			

Variable Speed Controller Kits

Temperature



Temperature & Flow - Hose Barb



	0-10V TO PWM CONTROLLER				
4841	4841 Controller, ECM, 0-10 VDC to PWM, W/ enclosure				
	DUAL UNIT KIT/FLOW CENTER SHARING/PUMP ENABLE RELAY				
356	51 Pump sharing relay (2 units; 1 flow center)				
3562	52 Pump sharing relay (2 units; 1 flow center) w/ NEMA enclosed				

Geo-Flo Corporation

Geo-Booster/Geo-Prime/Geo-Gooser-Air, Dirt, and Pressure Management

	AIR, DIRT, AND PRESSURE MANAGEMENT		
	<u>GEO-BOOSTER</u>	Geo	o-FLC
3551	Geo-Booster (loop pressurization system, 35 psig)		
9423	Geo-Booster replacement pump		
3535	Geo-Booster power supply		
3432	Cap, 2-1/4, GEO-BOOSTER & GEO-PRIME		

	WYE STRAINER- Bronze- #20 mesh, 304 SS strainer
3656	1-1/4" FPT
3462	2" FPT

	<u>GEO-GOOSER</u>	
3502	Geo- Gooser loop pressurization device	

	<u>GEO-PRIME</u>	1
1245	Geo-Prime Tank	

	GHS HYDRAULIC SEPARATOR					
All flange connections are standard ANSI Class 150 flanges. (gaskets and hardware not included)						
Flow rate on each	Flow rate on each side of hydralic separator, not combined flow					
Part Number	Left Connections	Right Connections	Max. Flow Rate			
GHS-06-2F2F		2" Flange				
GHS-06-2F2N	2" Flange	2" NPT female				
GHS-06-2F2P		2" HDPE pipe				
GHS-06-2N2F		2" Flange				
GHS-06-2N2N	2" NPT female	2" NPT female	40 U.S. GPM			
GHS-06-2N2P		2" HDPE pipe				
GHS-06-2P2F		2" Flange				
GHS-06-2P2N	2" HDPE pipe	2" NPT female				
GHS-06-2P2P		2" HDPE pipe				
GHS-06-3F3F	3" Flange	3" Flange	90 U.S. GPM			

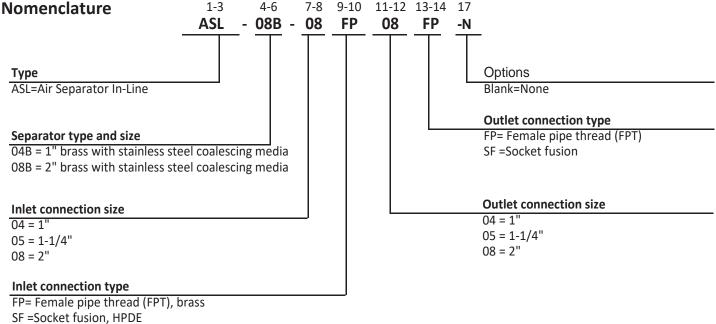






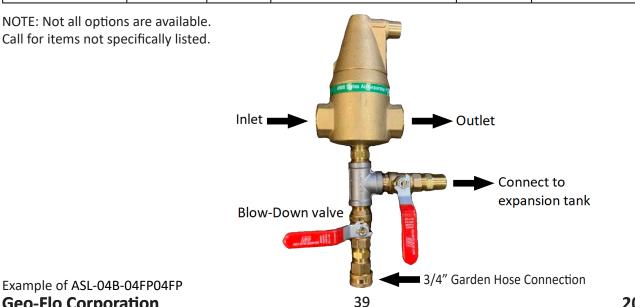
Air, Dirt, and Pressure Management-Air Separators

Geo-Flo's air separators eliminate any air that remains in the loop after system startup or maintenance. The stainless steel coalescing media inside the separator even traps small micro-bubbles and vents all air to the atmosphere preventing issues with system performance including noise and pump damage. The factory assembled air separators include a blow-down valve to allow dirt particles captured in the media to be removed, and a convenient connection for an expansion tank or water/anti-freeze make-up system such as the Geo-Booster.



SV=Socket fusion with isolation valve

AIR SEPARATORS					
Dort Number	Separator	Inlet conn.	Inlet conn.	Outlet conn.	Outlet conn.
Part Number	Type and Size	Size	Туре	Size	Туре
ASL-04B-04FP04FP	1″	1″	FPT	1″	FPT
ASL-04B-05SF05SF	1″	1-1/4"	Socket Fusion	1-1/4"	Socket Fusion
ASL-04B-05SV05SF	1″	1-1/4"	Socket Fusion W/ISO. Valve	1-1/4"	Socket Fusion
ASL-08B-08FP08FP	2″	2″	FPT	2″	FPT
ASL-08B-08SF08SF	2″	2″	Socket Fusion	2″	Socket Fusion



Geo-Flo Corporation

Expansion Tanks-Air, Dirt, and Pressure Management

Expansion tanks are typically used on geothermal systems to prevent the system pressure from dropping too low when the HDPE loop pipe expands during cooling season (heat rejected to the loop). Geo-Flo recommends installing a thermal break between the system connection and any steel expansion tank to prevent the tank from sweating and corroding. For more detailed information on expansion tanks for geothermal systems, see the Literature link on our website www. geo-flo.com.

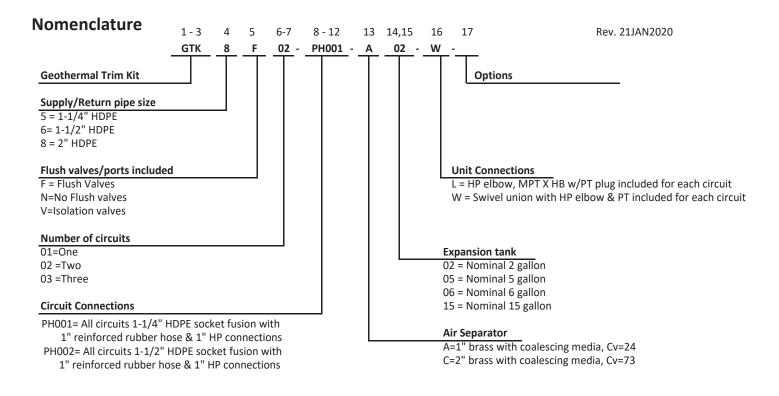
EXPANSION TANKS					
PN	DESCRIPTION	CAPACITY (GALLONS)	CONNECTION SIZE		
3230	Expansion Tank, HDPE, .75 GAL	.75	1-1/4" socket fusion		
ETN-FX-HTX15	Expansion Tank, NON-ASME, 2.1 GAL	2.1			
ETN-FX-HTX30	Expansion Tank, NON-ASME, 4.8 GAL	4.8	1/2" MPT		
ETN-FX-HTX60	Expansion Tank, NON-ASME, 6 GAL	6			
ETN-FX-HTX90	Expansion Tank, NON-ASME, 15 GAL	15	3/4" MPT		



	MOUNTING KITS				
PN	Description	Compatible Expansion Tank			
4579	Expansion Tank Mounting Kit	ETN-FX-HTX15			
		ETN-FX-HTX30			
4680	Expansion Tank Mounting Kit. 4.4-7.6G	ETN-FX-HTX60			
		ETN-FX-HTX90			
	CONNECTION HOSES				
		ETN-FX-HTX15			
4645	Hose, 1/2" FIP X 1/2" FIP, 30" long, PVC core, Stainless Steel braid	ETN-FX-HTX30			
		ETN-FX-HTX60			

Geothermal Trim Kits

Geothermal Trim Kits (GTKs) are assemblies of all of the components necessary to properly maintain a geothermal system. These GTKs include flush/isolation valves, an air separator, an expansion tank, and required fittings to connect to the ground loop and heat pump. The multi-circuit GTKs include factory fused and assembled headers with check valves saving hours of field labor.



Notes:

1. Circuits on return header have check valve included.

2. All circuits have isolation valves on supply and return headers.

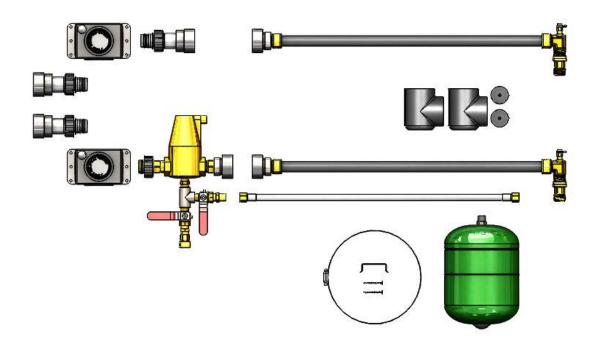
3. HP Elbow size based on circuit connections.

4. GTK5 & 6 use 1" 3-way valves, and 1" air separator; GTK8 uses 2" 3-way valves and 2" air separator

	GEOTHERMAL TRIM KITS (GTK)						
PART NUMBER	SUPPLY/RETURN	FLUSH VALVES/	# OF	CIRCUIT	AIR	EXPANSION	UNIT
PART NUIVIBER	PIPE SIZE	PORTS INCLUDED	CIRCUITS	CONNECT.	SEPARATOR	TANK	CONNECT.
GTK5F01-PH001-A02-W	1-1/4" HDPE	FLUSH VALVES		1-1/4" HDPE			
GTK5V01-PH001-A02-W	1-1/4" HDPE	ISO. VALVES]	SOCKET			SWIVEL
GTK6F01-PH001-A02-W	1-1/2" HDPE	FLUSH VALVES		FUSION	1″	2 GAL	UNION W/
GTK6F01-PH002-A02-W	1-1/2" HDPE	FLUSH VALVES		1-1/2" HDPE SF		Z GAL	HP ELBOW
GTK6V01-PH001-A02-W	1-1/2" HDPE	ISO. VALVES		1-1/4" HDPE SF			& PT INCLU-
GTK6V01-PH002-A02-W	1-1/2" HDPE	ISO. VALVES		1-1/2" HDPE SF			DED PER
GTK8F02-PH001-C05-W	2" HDPE	FLUSH VALVES	2	1-1/4" HDPE	2	E CAL	CIRCUIT
GTK8F03-PH001-C05-W	2" HDPE	FLUSH VALVES	3	SOCKET FUSION	2	5 GAL	

NOTE: Not all options are available. Call for items not specifically listed.

Example of GTK6F01-PH002-A02-W



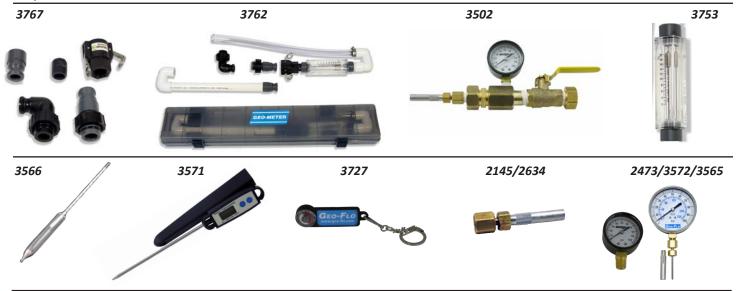
Example of GTK8F02-PH001-C05-W **Expansion Tank** Pipe mounting kit Elbow insulation 0 Flush adapter Return Header Caps for elbow insulation Supply Header 3-way, 4-postion valve CE. Expansion tank mounting kit Air separator with blow down valve and expansion Flex hose for tank connection expansion tank

Geo-Flo Corporation

Tools-Loop

		TOOLS	
		LOOP TOOLS AND ACCESSORIES	
	3762	Mechanical (variable area) flow meter tool	EACH
	Contains:	Tool with fittings, 90° CAM X FL adapter, straight CAM X FL adapter, competitor adapter, and carrying case	
Loop Tools	3767	Adapter kit for competitor flow meter tool (allows competitor tool to be used with NP flow centers)	EACH
	3753	Variable area flow meter, 2 to 20 GPM, 1" FPT	EACH
	3502	Geo- Gooser loop pressurization device	EACH
		PRESSURE GAUGES, 0-100 PSIG	
	2473	2" dial	EACH
0-100 psig	5171	3.5″ dial	EACH
	3565	3.5" dial w/ PT adapter	EACH
		GAUGE ADAPTER PT PLUG W/GUARD	
	2634	1/16" Gauge adapter PT Plug with guard	EACH
	2145	1/8" Gauge adapter PT Plug with guard	EACH
	3571	Thermometer, digital w/case	EACH
	3566	Hydrometer	EACH
	3727	AC Magnetic Field indicator	EACH

Loop Tools and Accessories



Flushing and Service Kits-Tools

		FLUSHING AND SERVICE KITS	
		Geo-Gooser and flush kit	КІТ
		Includes:	
	3509	(1) Geo-Gooser <i>(PN 3502)</i>	
		(2) FL X Garden hose (female) adapter (PN 3248)	
		(2) 1" MPT X FL female (PN 3471)	
		Geo-Gooser and flush kit with CAM elbows	КІТ
		Includes:	
	3553	(1) Geo-Gooser <i>(PN 3502)</i>	
	5555	(2) FL X Garden hose (female) adapter (PN 3248)	
		(2) 1" MPT X FL female <i>(PN 3471)</i>	
		(1) Set of CAM level male 90° (flush fitting) (PN 2914)	
		Geo service kit	КІТ
Flushing and Service		Includes:	
Kits	3798	(1) Geo-Gooser <i>(PN 3502)</i>	
	5750	(1) Pressure gauge with needle adapter (PN 3585)	
		(1) Thermometer <i>(PN 3571)</i>	
		(1) Hydrometer (alcohols) with case (PN 3566)	
		Geo-Service and flush kit	KIT
		Includes:	
		(1) Geo-Gooser <i>(PN 3502)</i>	
		(2) FL X Garden hose (female) adapter (PN 3248)	
	3564	(2) 1" MPT X FL female <i>(PN 3471)</i>	
		(1) Pressure gauge with needle adapter (PN 3565)	
		(1) Thermometer <i>(PN 3571)</i>	
		(1) Hydrometer (alcohols) with case (PN 3566)	
Fluching Comulae Kit		(1) Set of CAM level male 90° (flush fitting) (PN 2914)	

Flushing Service Kits







3798





3553

Tools-Flush Cart

The Geo-Flo Flush Cart is the professional's choice to purge air and flush debris from residential and light commercial geothermal ground loops. The Flush Cart includes all the important features required to safely flush and purge the loop including power flushing, power draining, pump and dump, and debris filtering. Its compact design utilizes standard components which allows for easy field service. The 1.5 HP self-priming 115V pump is mounted above the cart's axle, providing a well balanced system that is easy to maneuver.

		FLUSH CART	
Flush Carts	3789	Flush Cart w/ 10ft. hoses, 1" CAM fittings (loop side) & 1-1/4" ball valves	EACH
	3783	Note: Available without ball valves (pn 3563)	LACH
		FLUSH CART ACCESSORIES	
	3639	(2) 10ft hoses, 1" CAM fittings (loop side)	EACH
Flush Cart	3788	(2) 10ft hoses, 1" CAM fittings (loop side), 1-1/4" ball valves	EACH
Hose Assemblies	4786	(2) 10ft rubber hoses, 1" CAM fittings (loop side), 1-1/4" ball valves	EACH
	3793	(2) 20ft hoses, 1-1/2" CAM fittings (loop side)	EACH
		Note: Ships with (2) CAM male X male adapters. 20 ft hose assembly set may be used as an extension set or with FL XL flow centers	
Filter here	3832	1 micron	EACH
Filter bags	3594	100 micron	EACH
Fittings (for flushing)	3666	1" CAM X 1" MPT	EACH
Pump Motor	4967	MOTOR, MUNRO LP150BG, 1-1/2 HP, 1 x 115/230 V, 2 CAP	EACH
Gasket Kit (Munro)	4970	GASKET KIT, SQUARE AND DIFFUSER, MUNRO LP SERIES	EACH



Flush Cart **Geo-Flo Corporation**

Flush cart hoses with 1-1/4" ball valves



3666



Flush cart accessories/replacements

Filter Bags



Fusion Tool Kits-Tools

Geo-Flo assembles professional fusion tool kits, and provides all the tools necessary for a successful geothermal heat pump installation. Geo-Flo's socket fusion tools, designed for fusing polyethylene piping and fittings, offer reliability, compact design and temperature control for success in the heat fusion process. Features include a precision machined heater body, well-insulated handle, temperature adjustment and thermometer.



		FUSION TOOL KITS	
		3/4" and 1-1/4"	КІТ
	TFK35	Includes: Complete fusion tool set (3/4" and 1-1/4")	
	11 135	Heating tool with bag, socket faces, cold rings, chamfer tools,	
		tool box, 1-1/4" ratchet cutter, digital thermometer, thermocouple	
		1" and 1-1/4"	КІТ
	TFK45	Includes: Complete fusion tool set (1" and 1-1/4")	
	11145	Heating tool w/ cover, socket faces, cold rings, chamfer tool,	
		tool box, 1-1/4" ratchet cutter, digital thermometer, thermocouple	
	TFK358	3/4", 1-1/4", and 2"	КІТ
Fusion tool kit		Complete fusion tool set (3/4", 1-1/4", and 2")	
Pusion tool kit		Heating tool with bag, socket faces, cold rings, chamfer tools, tool box,	
		up to 2" ratchet cutter, digital thermometer, thermocouple	
		3/4", 1", and 1-1/4"	КІТ
	TFK345	Includes: Complete fusion tool set (3/4", 1", and 1-1/4")	
	11 K345	Heating tool with bag, socket faces, cold rings, chamfer tools,	
		tool box, 1-1/4" ratchet cutter, digital thermometer, thermocouple	
		3/4", 1", 1-1/4", 1-1/2" and 2"	КІТ
	TFK34568	Includes: Complete fusion tool set (3/4", 1", 1-1/4", 1-1/2" and 2")	
	111034308	Heating tool with bag, socket faces, cold rings, chamfer tools, tool box,	
		up to 2" ratchet cutter, digital thermometer, thermocouple	

Tools-Fusion

		FUSION TOOLS	
	TFH1	Heat Fusion Tool- single face	EACH
	TFH1-R	Heat Fusion Tool- single face, Reconditioned	EACH
	TFH2	Heat Fusion Tool- double face	EACH
	TFH2-R	Heat Fusion Tool- double face, Reconditioned	EACH
	TFHB	Fusion tool heater bag	EACH
Fusion Heater Tools/ Accessories	TFT	Fusion Timer	EACH
Accessores	ТМВ	Fusion tool mounting bracket	EACH
	TFHK-H	Fusion Iron Tool- double handle	EACH
	5206	Digital Thermometer, thermocouple, dual channel	EACH
	5208	Thermocouple, Type K, flat probe	EACH
	TTDT1	Digital thermometer and Thermocouple- Kit	EACH
	TFHK-1	Heat fusion tool kit - Rebuild single face	EACH
Fusion Rebuild Kit	TFHK-2	Heat fusion tool kit - Rebuild double face	EACH
	Solution The annual control of the free state of the control of the con	EACH	
	TSF3	3/4" IPS	SET
	TSF4	1" IPS	SET
Socket Faces	TSF5	1-1/4" IPS	SET
	TSF6	1-1/2" IPS	SET
	TSF8	2" IPS	SET
	TCR3	3/4″ IPS	EACH
Cold Ring	TCR4	1" IPS	EACH
Vice	TCR5	1-1/4" IPS	EACH
Grip Clamp	TCR6	1-1/2" IPS	EACH
	TCR8	2″ IPS	EACH
	TCG3	3/4" IPS	EACH
	TCG4	1" IPS	EACH
Chamfer Tool	TCG5	1-1/4" IPS	EACH
	TCG6	1-1/2" IPS	EACH
	TCG8	2″ IPS	EACH
Replacement Blades	TCGB	Replacement blade for all depth gauge/chamfer tools	EACH
	TPC4	PE, PEX, & rubber hose cutter - up to 1"	EACH
Pipe Cutters	TPC5	PE ratchet cutter, up to 1-1/4""	EACH
	TPC8	PE ratchet cutter, up to 2"	EACH













Miscellaneous

MISCELLANEOUS

POND LOOP SPACED COIL

3647 Pond loop spaced coil, 3/4" PE X 300'

Spaced coils are designed to enhance convective flow through the coil via factory-installed spacers. The assembly is bound with nylon ties, and strapped to pallet for shipping. These coils are typically 0.5 to 1 ton [1.76 to 3.52 kW] of heat rejection/heat absorption capacity per coil (must be verified with Pond Coil Calculator at www.geo-flo.com).



	EQUIPMENT PADS- high density rubber equipment pads		
4055	4055 24" x 36", boxed- individual		
4056	28" x 36", boxed- individual		
4027	24" x 36", bulk- 30 piece minimum/multiples-pallet		
4028	28" x 36", bulk- 30 piece minimum/multiples-pallet		

Geo-Flo's geothermal equipment pads are made of high density SBR recycled rubber, which provides a high degree of vibration and sound absorption for compressor-bearing units installed indoors.

Equipment Pad Features:

- Absorbs low frequency sound/vibration (particularly suited for compressors)
- Environmentally friendly recycled material (SBR bonded black recycled rubber)
- High density (60 lbs/cu. ft.)
- Anti-skid texture
- Non-porous, both sides
- Rated for packaged unit weight (very little compression)



Geothermal System Design Calculators are available free of charge on the website at www.geo-flo.com. This comprehensive suite of calculators provides geothermal and hydronic design tools, concentrating on the hydronic portions of the system. From pressure drop calculation to pump sizing to flushing requirements, the design suite is just the starting point for services continually being developed. Calculators available on the website are as follows:

Geo-Flo Calculators

ALL PRESSURE DROP CALCUL	ATORS PUMP SIZING CALCULATORS	S SERVICE CALCULATORS	GENERAL CALCULATORS			
	PRESSURE DROP CALCULATORS					
SINGLE UNIT	TWO UNIT (NPD) FLOW CENTER	SINGLE UNIT INSIDE HEADER	TWO UNITS ONE FLOW CENTER			
MULTI-UNIT, CENTRAL PUMPING	MULTI-UNIT NPM FLOW CENTER	PIPE SEGMENT	MULTI-UNIT, DISTRIBUTED PUMPING			
LOAD SIDE CALCULATOR	RADIANT FLOOR CALCULATOR					
		PUMP SIZING CALCULATORS				
PUMP SIZING CALCULATOR	PUMP SIZING MAGNA3					
		SERVICE CALCULATORS				
CV CALCULATOR	FLUSH CART CALCULATOR	HEAT PUMP FLOW RATE CALCULATOR	HE-HR CALCULATOR			
FLOW RATE-PRESSURE DROP	REYNOLDS NUMBER	ANTIFREEZE ADDITION CALCULATOR	R ANTIFREEZE CALCULATOR			
		GENERAL CALCULATORS				
BUFFER TANK CALCULATOR	EXPANSION TANK SIZING-GEO	EXPANSION TANK SIZING-RADIANT SYSTEM	POND COIL CALCULATOR			

GEO-FLO CORPORATION WARRANTY STATEMENT

Geo-Flo Corporation produces flow centers for many O.E.M. customers (geothermal heat pump manufacturers), as well as for HVAC distributors and commercial representatives. Warranties vary by O.E.M., and are not stated in this document. For warranty coverage and details, owners should contact their installing contractor. Contractors should contact their HVAC distributor, commercial representative, or heat pump manufacturer for warranty information. THIS PAGE INTENTIONALLY LEFT BLANK



2024 Catalog

Doc # N/A 2024 Catalog REV.0/8JAN2024		
Geo-Flo Corporation	Main Number:	812-275-8513
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Bedford, Indiana 47421, U.S.A.	Fax:	888-477-8829

Geo-Flo Corporation is continually working to improve its products. As a result, the design and specifications of products in this catalog may change without notice and may not be as described herein. For the most up-to-date information, please visit our website, or contact our Customer Service department. Statements and other information contained in this document are not express warranties and do not form the basis of any bargain between the parties, but are merely Geo-Flo's opinion or commendation of its products.

REV.0/8JAN2024

Geo-Flo Corporation

Updates Table

Date	Description of Changes	Pages
	Updated photo for PN 3565	43
	Replaced PN 4514 with 5185 on the table, & 3918 pic with 5185	32
	Removed (OBSOLETE) PN 3920, added 4500 to the table and pic	33
	Updated pic and added PN FLC32S/FLC42S	34
	Updated pics for PNs 3760 & 3807	37
MAR2024	Updated pic for PN ASL-04B-04FP04FP	39
	Updated pic for PN 4579	40
	Updated Geothermal Trim Kits (GTKs) Nomenclature	41
	Added individual PNs to Flushing and Service Kits	44
	Updated photo for the Fusion Tool Kits, added to the tablePN TFK45	46
	Added Fusion Rebuild Kit to the table PNs TFHK-1, TFHK-2, TFHK, TFK- TB, TFT, TFHK-H, 5090 & pics of PNs TFHK-2, 5090, TFKTB on the side	47
	Changed to 2024 cover page	Cover
	Removed PN FL2N	2
	Added PNs NPB1C & NPB2C	4
	Update NMP Nomenclature	9
	Added on FLP1L-FLE & FLP1L-FLK table and photos, Removed PN 1317 (OBSOLETE) replaced with FLP2A	12
	Moved page title from the left to the right of the page	13
	Moved page title from the right to the left of the page	14
	Corrected second PN from M3H065-120AC to M3H065-120BC	16
	Removed PN 8951 from pic, added PN 9452 & discription to table	18
	Added individual PNs to kit contents items, added connectionto text	19-22
	Corrected hose size from 10ft to 12ft for PN 1181	19
FEB2024	On PN 1281, added brass plug with Flo-Link x 1" HB w/PT port for PN 3385, added photos for PNs 1280 & 1281	21
	Corrected hose from 1-1/4" to 2" for PN 3477, corrected elbow count from 1 to 2 and hose clamps from 8 to 10 for PN 3478	22
	Updated the HAR Hose Assembly Rubber nomenclature, added PNs HAR4-05-04LT06WX & HAR4-05-04WL06WXto the table	23
	Added PNs 3433 & 4143-HALF to the table, & 3433 photo	24
	Added PN 3771 to table	26
	Removed from table (OBSOLETE) PN 3320	27
	Removed from table and photos (OBSOLETE) PN 3450 & 3483	28
	Corrected PN from PFAL33M to PFLA33M & PFAL33F to PFLA33F, Removed from table (OBSOLETE) PN PFTA4M32F & PFTA4M42F and replaced them with PFTA4MS32F & PFTA4MS42F, then added to the table PN PFTA4MS2F4, PFA64HB, PFA34M, PFLA34M, PFA54M & PFA66M	29
	Added PNs PFC64, PFC66, PFC86, PFL44-45, PFL54, PFL66, PFL66-45, PFP6 to the table	30

FEB2024	Added PNs PFT664, PFT666, PFT853, PFT854, PFT864, PFT883, Moved Fusion Caps table and photo to page 30, Added 3721 photo	31
JAN2024	Updated all dates and REV from 2023 to 2024	Various
Oct2023	Corrected description of the 1297 from UP26-99 to UP26-116.	2
SEPT2023	Updated images of the 3766, 3698, 3697	37
3LF12023	Flipped descriptions between PN 3726 & 4323	26
	Added hose kit PNs 1280, 1281, 1337, 3477CV, 3477-MPT	21,22
	Added valve PNs 4144, 4580, BV4-4H4H-SS, BV5-5H5H-SS, BV4-PF- 4B4B-SS, BV5-PF-5B5B-SS, BV4-PF-4S4S-SS, BV5-PF-5S5S-SS	32,33
	Added Flow Center PNs FL1N, FL2L, FLP1A-DBC, FLP1L, FLP2M, FLP2A, FLP2A-4V, FLP2C-4V, FP1B, FPP1U-115-4V, NPD4LL	12
	Added Magna3 Flow Center High Head Option PNs	14,16
	Added Wilo Stratus Pumps PN (9462-9469)	18
FEB2023	Added Flush Cart PNs 4786, 4967, 4970	45
	Added fusion fittings- PFA31F, PFC65, PFV55	Various
	Added misc. PNs 4008, 3817, 4730, 4772, 5005	Various
	Updated Flush Cart to black	45
	Updated fusion product pictures	46,47
	Updated catalog cover	Cover
	Added PN 4841 Controller, Ecm, 0-10 Vdc To Pwm, W/ Enclosure	37
	Added PN 4848 Valve, 1/4" MPT X 1/4" FPT, Brass	32
	Added NP Basic line	4
	Added PNs TFK345 AND TFK34568	46
FEB2021	Added PNs 9102-3F and 9102-4F	12
	Added Magna3 Variable Speed Low Centers	1+
	Changed layout	Various
	Updated cover design	Cover
JUL2020	Obsoleted PNs 9104-3/4F; Replaced with 9102-3/4F	15
	Updated NPM graphics	7
MAY2020	Updated NPM nomenclature	8
	Added PNs VMT3F-CL and VMT4F-CL	31
MAR/ APR2020	Updated descriptions of fittings w/ 1/4" PT plug or w/1/4" FPT ports	21, 23-25
	Corrected descriptions of PNs NP2M/NP2P	6
	Added PNs PFEAB54M, PFTA854M, FLP1L-4V-CV	Various
14FEB2020	Replaced CAD graphics	Various
	Corrected descriptions for PNs 3318 and 3320	22

	Lindated catalog to reflect LIDMAY (Magna Coo switch over) (a ni a u a
16JAN2020	Updated catalog to reflect UPMXL/Magna Geo switch over	Various
	Added Assembled Hose Kit line to catalog	19-20
	Updated Buffer Tanks and Hydro Connect Controls	32-33
	Added Air Separator line to catalog	36
	Added Geothermal Trim Kit line to catalog	38-39
	Total catalog update (formatting)	All
	Removed PICCV valves from catalog	41
	Added hose kit 1263	46
	Updated hose clamp description to stainless steel	45,46,47
	Removed part numbers 9451-3F and 9451-4F from catalog	63
	Updated various product pictures	Various
	Removed M3D065-150 BF-HL from catalog	38,39
	Added note for horizontal flow (use pn 4596)	38,39
44402040	Updated "flo-link" to "FL"-added note to reflect	48,50,51
14JAN2019	Added note indicating XL FL Fittings are not included	59
	Updated Belimo Zone Valve pictures	41
	Removed "NEW" from parts no longer considered "new"	Various
	Changed "triton style" to "electrofusion style"	48
	Updated Controller kits with new flow sensor	8
	Updated product pictures	Various
	Formatting changes, new color scheme, new cover	Various
	Updated index to reflect above changes	73-78

	Formatting changes, new valves section, product updates	Various
	Misc. corrections to typos, part # updates	Various
	Add Magna GEO options to NP Multi with circulators	21,23
	Reformatted Magna3 section, added drawings & accessories	37
	Added 3" & 4" flushing assemblies	40
	Added commercial accessories (expansion tanks, air separators, etc.)	44
	Updated Flo-Link x Flo-Link hose kit part #; added hose kit w/check vlv	45
	Updated 1/4" brass plug to hex drive (changed P/N from 3027 to 3711)	51
	Added 1" MPT x 1-1/4" swivel adapter set	51
14NOV2017	Updated picture of 2146 1" MPT x 1" hose barb	52
	Added 3/4" thread x hose barb adapter and elbow	51,52
	Added 1-1/4" and 2" union fusion ball valves	52
	Added pump mounting brackets for UP/UPS 15 & 26 pumps	53
	Added 1-1/4" FPT flange set	53
	Added HDPE tee, 2" fusion x 2" fusion x 1" MPT (MPT is on tee side)	55
	Added fusion x thread elbows	55
	Added SuperBrute insulated pump	59,62
	Added bracketed pumps for heating only systems	63
	Updated table for heat pump controls to reflect NP series product updates (addition of NP Plus and NPV Plus Kit)	8
	Added NP Plus flow centers	13,14
	Removed 1326 and 1327 NPV Kits (replaced by NPV Plus Kits)	14
	Added 1285CV (insulated pump w/built-in check valve)	39
	Pricing updates on Belimo valves	39
	Added 4" flange x HPDE fusion adapter and backup ring	43
	Corrected P/N of Flo-Link x Flo-Link hose kit (changed to 3278)	
	Discontinued NP hose kit, p/N 3829 (replaced by NP Plus and stan- dard hose kit)	46
30DEC2016	Added hose kits 1346 & 1347 for NP Plus	46
	Added 4066 Flo-Link x 1" FPT isolation valve set with check valve	47
	Added 3769 Flo-Link x 1-1/4" hose barb w/fitting for P/T port	47
	Added 4243 Dual unit connection kit for Flo-Link XL flow centers	50
	Added 5254, Butt fusion coupling, 4" x 3" IPS	52
	Added PFA32F, fusion adapter, 3/4" socket fusion x 1/2" FPT	53
	Pricing updates on pond coils	53
	Updated picture of 3514 valve box	54
	Updated picture of flush cart hoses	61
	Added Magna GEO inverse profile replacement pump	65

	Updated NP Multi options to include two circuit version	18-22
	Updated header picture for NP Multi with 2 pumps in series	19
	Added Magna3 High Head Options (M3H)	36,37
	Part # of 10k thermistor changed from 3684 to 3986	37
	Updated picture of 1284 insulated pump	38,55,58
	Added new hose kit, P/N 3279 (Flo-Link dbl O-ring @ heat pump)	43
	Moved additional hose lengths/rolls from page 49 to page 45	45,49
08JUN2016	Added Flo-Link x 1" FPT adapter set with check valve (P/N 4143)	46
	Moved dual unit connection kit from page 53 to page 49.	40.50
	Moved swivel x MPT connectors from page 53 to page 49.	49,53
	Added 1-1/4" fusion x 3/4" MPT adapter (P/N PFA53M)	52
	Added Magna3 replacement pumps	65
	Updated Calculators information to include new additions	67
	Updated index to reflect above changes	70
	Updated "about Geo-Flo"	4
	Added NP Multi Series flow centers	18
	Added Dual Head Magna3 pump curves	29
	Added 1/4", 1/2", 1", and 1-1/4" ball valves	42
	Updated picture of Flo-Link XL to 1" CAM adapter to latest picture	48
	Updated picture of 1" MPT x 1-1/4" barb to latest picture	50
	Added 1-1/4" MPT x 1-1/4" barb and 2" MPT x 2" barb adapters	50
30DEC2015	Added 2 to 20 gpm flow meter	50,61
	Updated picture of flow regulator to latest picture	50
	Updated part number of insulated pump from 1338 to 1286CV	59
	Updated flush cart features (added feature allows loop pressure drop measurement)	60
	Added Geo Service Kit and Geo Service/Flush Kit to Tools section	61
	Added Geo-Booster replacement pump and power supply	64
	Updated Calculators information to include new additions	66
	Updated index to reflect above changes	69

26JUN2015	Updated Geo-Booster picture with new black cabinet	6,11
	Added compatibility chart/info. for variable speed flow centers	8
	Added inverse profile variable speed flow centers	8,10,14,17
	Moved Magna GEO flow center var. spd. controllers to one page	8,10,14,17
	Added NP Dual variable speed flow centers	17
	Updated Magna3 pictures	31
	Added external controller for Delta-T for primary-secondary applic.	32
	Added dongle for iPhone/Android for use with Grundfos GO	32
	Updated Belimo valve offering	33
	Updated pictures of various items	37,41,47,48
	Added 1/4" brass plug	44
	Added equipment mounting pads	49
	Added Hydro-Connect Integrated buffer tank and accessories	51-54
	Updated bronze replacement pump to stainless steel	59
	Updated Design Calculators with new information	61
	Added index	64
	Updated 115V UP26-99 (sngl spd) pumps to UPS26-99 (3-spd)	Various
	Added note about transition to black cabinet for Geo-Booster	6, 10
	Added NPV Kits	12
	Added pump curves for NPD series flow centers	19
	Added commercial application section	25
	Added Grundfos Magna3 part numbers/model nomenclature	29
	Added insulated pumps/zone valves to commercial section	31
	Added GHS series hydraulic separators	32
	Added commercial fittings/adapters to commercial section	35
	Added Flo-Link x 1-1/4" pipe (use with Triton style fittings)	39
30DEC2014	Added Flo-Link x 1" fusion elbow w/PT tap	
	Part # change from 3390 to 3929 (1" MPT x 1" hose barb w/PT ftg)	42
	Added 3" x 2" butt fusion coupling	44
	Added 2" fusion ball valve and 2" fusion x 2" FPT adapter	45
	Added 1-1/4" compression fittings	46
	Added dual unit connection kit for Flo-Link flow centers	
	Added pressure gauge with 2" dial	49
	Added gauge adapter with 1/16" diam. needle	
	Added UPS26-99 3-speed 115V replacement pump	52
	Added UP26-116SF (stainless steel volute) replacement pump	
	Updated Design Calculators to include new commercial Calculators	54

	Updated 230V UP26-99 (sngl spd) pumps to UPS26-99 (3-spd)	Various
03APR2014	Updated insulated pumps to black cabinets	7, 10, 36
	Flow center P/Ns 1294 through 1299 now include a set of 1-1/4" PE fusion by Flo-Link adapters.	9
	New lower price for Geo-Booster (P/N 3551)	10, 23
	Added NP series with bronze volute option (1 & 2 pump versions)	12
	Added Flo-Link x 1-1/4" FPT adapter set (P/N 3885)	28
	Added Flo-Link x 1-1/4" isolation valve set (P/N 3875)	28
	Changed 1" hose roll (P/N 2139) from 400 ft. to 450 ft. roll (price per foot did not change)	31
	Added Taco Geo Sentry motorized ball valves	32
	Added PFA34HB (3/4" socket fusion x 1" hose barb)	34
	Added isolation valve set and flange set pictures	42
	Misc. formatting changes, typo fixes, minor updates	Various
	Added Flo-Link Service Kits	29
27DEC2013	Added 1-1/4" fitting sets (P/N 3660 & 3556)	31
	Updated flush cart replacement filter description	37
	Added warranty statement	45
	Added important note about white to black cabinet changeover and UP26-99 single speed to UPS26-99 3-speed pump changeover	1
	Updated "About Geo-Flo" time line	4
	Updated pressurized flow centers to black cabinet	5-9
	Updated Geo-Prime tank to black cabinet	7, 10
	Added panel mount variable speed flow center	8
	P/Ns 1027, 1028, 1229, and 1230 changed from single speed to 3-speed pump (UPS26-99)	9
	P/Ns 1000, 1001, 1023, and 1252 changed from single speed to 3-speed pump (UPS26-99)	10
	Added NP series dual circuit flow center	13
150CT2013	Added Grundfos Magna3 Performance curves	19
	Added info. about new Magna3 insulated pumps	24
	Corrected typo in gray headers (FPT>MPT)	25, 26
	Added 1-1/4" wye strainer	31
	Added FPT version of motorized solenoid valve	
	Removed grout as a Geo-Flo product offering	34
	P/Ns 1037, 1038, 1045, 1046 changed from single speed to 3-speed pump (UPS26-99)	35
	Added info. on ETL listing for flush cart	36
	Corrected typo for UPS26-99 replacement pump part number	40
	Added blank-off plates (for converting from 2 to 1 pump flow cntr)	41

Date	Description of Changes	Pages
	Added note about transition to black cabinets	Various
	Added product pictures	8, 9
	Added 50Hz NP series flow centers	11
	Added Wilo Stratos 2 x 3-35 commercial flow center	19
	Added insulating boot set	
	Added NP series hose kit	23
	Added Flo-Link x 40mm PE pipe adapter set	24
	Added Flo-Link XL isolation valve sets	25
08JLUL2013	Added new 1-1/4" PVC glue x 1" hose barb set	
	Corrected VFR part numbers	27
	Updated isolation flange module pictures (new powder-coated rails)	
	Added large insulated pumps for load-side of water-to-water units	31
	Added one (1) micron filter to flush cart options	32
	Updated picture of item # 3727	33
	Added new replacement pumps without volutes	36
	Added additional flange kits and flow center valve repair kits	37
	Updated Calculator information to include new Calculators	38
	Discontinued digital flow meter tool	10, 11
	Added Wilo Stratos insulated pumps with isolation valves	
	Added 2" valve box	20
	Added connection kits without hose (listed with 1101 & 1181)	21
	Added Flo-Link x 1" FPT isolation valve set	23
	Added fusion adapter tee, 2" fusion x 2" fusion x 1/4" FPT	
	Added fusion adapter, 1" socket fusion x 1" MPT	28
11APR2013	Added pump enable relay (up to 5 units)	
	Added Wilo external off interface module	29
	Updated insulated pumps to include isolation valves	
	Added Magna GEO insulated (var. spd.) pump with isolation valves	30
	Corrected part number for water heater adapters	
	Added hose assembly with 1-1/2" loop side CAM fittings	31
	Added AC Magnetic Field Indicator tool	32
	Added Wilo replacement pumps	35
	Added hoses with 1-1/4" ball valves for flush cart	31
	Added gauge adapter for P/T plug	32
	Added 1" MPT x 1" CAM adapter	32
30JAN2013	Added replacement blade for chamfer tools	33
	Added UPS26-99 to replacement pump section	35
	Added flange sets	35
14JAN2013	First published	All