

HB, HP, HS, HW

Geothermal Heat Pump Accessory Components

SUBJECT TO CHANGE WITHOUT NOTICE

Note: For a complete catalog of accessories including nomenclature, photos and pump curves, see the Geothermal System Components catalog.

RESIDENTIAL FLOW CENTERS

Flo-Link Series (Double O-ring) Pressurized Flow Centers

PART NUMBER	DESCRIPTION	NOTES
Flo-Link Foamed Cabinet (Double O-ring Connections -- Brass Valves)		
FCP11BD	FL1-99 UPS26-99, 3-speed, 230V, Grundfos	
FCP12BD	FL1-116 UP26-116, single speed, 230V Grundfos	
FCP13BD	FLV1, UPS32-140 (variable speed), 230V, Grundfos*	
FCP21BD	FL2-99 UPS26-99, 3-speed, 230V, Grundfos, Qty 2	
FCP22BD	FL2-116 UP26-116, single speed, 230V, Grundfos, Qty 2	
FCP24BD	FLV2, one UPS32-140 (variable speed) and one UPS26-99 (3-speed), 230V, Grundfos*	

NOTE: Each unit contains: Mounting hardware and one set of Flo-Link by 1-1/4 in. fusion fittings (loop side).

* Variable speed flow centers require a controller package see Accessory section of Geothermal System Components Catalog.

PART NUMBER	DESCRIPTION	NOTES
Flo-Link Foamed Cabinet (Double O-ring Connections -- Composite Valves)		
FCP11CD	FL1-99 UPS26-99, 3-speed, 230V Grundfos	
FCP21CD	FL2-99 UPS26-99, 3 speed, 230V, Grundfos, Qty 2	

NOTE: Each unit contains: Mounting hardware and one set of Flo-Link by 1-1/4 in. fusion fittings (loop side).

Panel Mount Variable Speed Flow Centers

PART NUMBER	DESCRIPTION			NOTES
	Variable Speed Pre-wired Packages (Panel Mounted)			
	Flow Center	Control	Connections	
FCM13BDT	Single pump, brass valves	Temperature Difference	Hose kit / PE fusion *	
FCM13BDF		Flow & Temperature Control		
FCM24BDT	Two pump, brass valves	Temperature Difference		
FCM24BDF		Flow & Temperature Control		

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

GPM Series (FPT) Pressurized Flow Centers

PART NUMBER	DESCRIPTION	NOTES
GPM-1 with Foamed Cabinet (FPT Connections)		
FCP11BF	GPM-1 UPS26-99, 3-speed, 230V, Grundfos	
FCP12BF	GPM-1 UP26-116, single speed 230V, Grundfos	
GPM-2 with Foamed Cabinet (FPT Connections)		
FCP21BF	GPM-2 UPS26-99, 3-speed, 230V, Grundfos, Qty 2	
FCP22BF	GPM-2 UP26-116, single speed 230V, Grundfos, Qty 2	
GPM-3 with Foamed Cabinet (FPT Connections)		
FCP31BF	GPM-3 UPS26-99, 3-speed, 230V, Grundfos, Qty 3	
FCP32BF	GPM-3 UP26-116, single speed 230V, Grundfos, Qty 3	
GPM-4 with Foamed Cabinet (FPT Connections)		
FCP41BF	GPM-4 UPS26-99, 3-speed, 230V, Grundfos, Qty 4	
FCP42BF	GPM-4 UP26-116, single speed 230V, Grundfos, Qty 4	

NOTE: Each unit contains mounting hardware.

NP Series Non-Pressurized Flow Center

PART NUMBER	DESCRIPTION	NOTES
NP¹ with Foamed Cabinet (Flo-Link Double O-Ring Connections)		
FCN11CD	NP ¹ UPS26-99, 3-speed, 230V, Grundfos	
FCN12CD	NP ¹ UP26-116, single speed, 230V, Grundfos	
NP² with Foamed Cabinet (Flo-Link Double O-Ring Connections)		
FCN21CD	NP ² UPS26-99, 3-speed, 230V, Grundfos, Qty 2	
FCN22CD	NP ² UP26-116, single speed, 230V, Grundfos, Qty 2	
NP^V & NP^{V2} w/Foamed Cabinet (Flo-Link Double O-Ring Connections)		
FCN13CD	NP ^V Magna GEO (variable speed), 230V, Grundfos*	
FCN24CD	NP ^{V2} One Magna GEO (variable speed) & one UPS26-99 (constant speed), 230V, Grundfos*	

NOTE: Requires Flo-Link adapter sets for all connections or connector kit.

* Variable speed flow centers require a controller package.

HOSE KITS

PART NUMBER	DESCRIPTION	NOTES
1-in Hose Kit (MPT @ Flow Center & Heat Pump)		
HK4MM	Hose kit contents:	Qty 1: 12 ft. 1-in. ID black hose
		Qty 2: Insulating boot
		Qty 2: Insulating boot caps
		Qty 2: PT plug, 1/4 in. MPT
		Qty 2: Fitting, 1-in. MPT x 1-in. hose barb (flow center connection)
		Qty 2: Elbow, 1-in. MPT x 1-in. hose barb w/PT port (heat pump connection)
		Qty 8: Hose clamps
1-in Hose Kit (Flo-Link Double O-ring @ Flow Center; MPT @ HP)		
HK4DM	Hose kit contents:	Qty 1: 12 ft. 1-in. ID black hose
		Qty 2: Insulating boot
		Qty 2: Insulating boot caps
		Qty 2: PT plug, 1/4 in. MPT
		Qty 2: Fitting, Flo-Link x 1-in. hose barb (flow center connection)
		Qty 2: Elbow, 1-in. MPT x 1-in. hose barb w/PT port (heat pump connection)
		Qty 8: Hose clamps

FITTINGS

PART NUMBER	DESCRIPTION	NOTES
PE and PVC Adapters		
FIS4D5U	Flo-Link x 1-1/4 in. PE Fusion	
FIS4D4U	Flo-Link x 1 in. PE Fusion	
FIS4D5P	Flo-Link x 1-1/4 in. PVC Glue	
Brass Adapters - Hose Barb		
FIS4D4B	Flo-Link x 1 in. Hose Barb	
FIS4D4V	Flo-Link x 1 in. Hose Barb (w/check valve)	
FIS4D5B	Flo-Link x 1-1/4 in. Hose Barb	
Brass Adapters - Threaded		
FIS4D4M	Flo-Link x 1 in. MPT	
FIS4D4F	Flo-Link x 1 in. FPT	
FIS4E4M	Flo-Link (Female) x 1 in. MPT	
FIS4D4J	Flo-Link x 1 FPT full port isolation valves	
FIN4M4F	Flo-Link 1 in. MPT x 1 in. FPT 45° angle	
Brass Adapters with Fitting for PT Port		
FIS4T4B	Flo-Link x 1 in. Hose Barb w/fitting for PT port	
FIE4T4B	Flo-Link Elbow x 1 in. Hose Barb w/fitting for PT port	
FIS4T4M	Flo-Link x 1 in. MPT w/fitting for PT port	
FIE4T4M	Flo-Link Elbow x 1 in. MPT w/fitting for PT port	
FIS4DSS	Flo-Link x 1-1/8 in. Sweat w/fitting for PT port	
FIE4M4F	Flo-Link 1 in. MPT x 1 in. FPT Elbow w/PT plugs and port	

FITTINGS Cont.

Installation/Service Adapters	
FIE4D4C	Flo-Link x Male Cam Adapter
FIS4D3G	Flo-Link by Male Garden Hose Adapter
FIS4D3H	Flo-Link x Female Garden Hose Adapter
Threaded Fittings, Adapters, and Other Fitting Components	
FIE4M4B	1 in. MPT Elbow x 1 in. Hose Barb w/fitting for PT port
FIS4M5B	1 in. MPT x 1-1/4 in. Hose Barb
FIE4A4A	Insulating boot set for 1 in. elbows
FIS4Z4W	Water Heater Adapter (use ASME rated water heater as buffer tank)
FIS4M4C	1 in. MPT x 1 in. CAM, Aluminum

GEOTHERMAL ACCESSORIES

PART NUMBER	DESCRIPTION	NOTES
Loop Pressurization		
ACPB	Pressure Battery (polyethylene expansion tank) -- up to 6 tons	
ACGB	Geo-Booster (loop pressurization system -- 35 psig)	
ACGP	Geo-Prime Tank *	
Pressure/Temperature Plugs		
ACPTP1	1/4-in P/T Plug (each)	
ACPTP2	1/2-in. P/T Plug (each)	
Controllers for Variable Speed Flow Centers		
ACVCT	Grundfos Magna GEO Controller (for NPV & NPV2) -- Temperature Control (hose kit or PVC connections - 1/4-in. MPT immersion thermistors included)	
ACVCFHB	Grundfos Magna GEO Controller (for NPV & NPV2) -- Temperature and Flow Control for hose kit connections	
ACVCFPVC	Grundfos Magna GEO Controller (for NPV & NPV2) -- Temperature and Flow Control for PVC connections	
Two Heat Pump Flow Center Sharing Control		
ACPSRN	Pump sharing relay (2 units; 1 flow center) w/NEMA encl.	

* Use with Flo-Link flow centers or insulated pumps. May also be used with GPM flow centers with Flo-Link female x 1-in MPT adapter.

NP Series Connector Kit

PART NUMBER	DESCRIPTION	NOTES
NP Series Hose Kit with 3-way Flushing/Purging Valve		
ACCKNP	Hose kit contents:	
	Qty 1 : 12 ft. 1-in. ID black hose. 150 psi	
	Qty 4: Insulating boot	
	Qty 2 Elbow, 1-in. MPT x 1-in. hose barb w/PT port (heat pump connections)	
	Qty 2: Pt Plug, 1/4-in. MPT	
	Qty 2: Elbow with 1/4-in. plugs, Flo-Link x 1-in hose barb (flow center connections)	
	Qty 1: 3-way Valve, Single, Composite, Flo-Link fittings	
	Qty 1: 1-1/4-in. PE fusion x Flo-Link (3-way Valve connection to ground loop)	
	Qty 1: Flo-Link x 1 in. hose barb (3-way Valve connection to heat pump)	
	Qty 1: 1-1/4-in. PE fusion x 1 in. hose barb (ground loop connection to hose at flow center, RH side)	
Qty 12: Hose clamps		

Compatible with NP series flow centers and heat pumps with 1-in. FPT connections.

Unit Mounting Pad

PART NUMBER	DESCRIPTION	NOTES
ACMP2436	3/4" high density rubber equipment pad, 24" x 36"	
ACMP2836	3/4" high density rubber equipment pad, 28" x 36"	

OPEN LOOP ACCESSORIES

PART NUMBER	DESCRIPTION	NOTES
Motorized Solenoid Valves		
MVBR3F	Valve, motorized solenoid, forged brass 3/4-in. FPT, 24V w/end sw	
MVBR4F	Valve, motorized solenoid, forged brass 1-in. FPT, 24V w/end sw	
Flow Regulator Valves		
FR2	Valve, flow regulator, 3/4-in. FPT x 3/4-in. FPT, 2 GPM	
FR3	Valve, flow regulator, 3/4-in. FPT x 3/4-in. FPT, 3 GPM	
FR4	Valve, flow regulator, 3/4-in. FPT x 3/4-in. FPT, 4 GPM	
FR5	Valve, flow regulator, 3/4-in. FPT x 3/4-in. FPT, 5 GPM	
FR6	Valve, flow regulator, 3/4-in. FPT x 3/4-in. FPT, 6 GPM	
FR7	Valve, flow regulator, 3/4-in. FPT x 3/4-in. FPT, 7 GPM	
FR8	Valve, flow regulator, 3/4-in. FPT x 3/4-in. FPT, 8 GPM	
FR9	Valve, flow regulator, 3/4-in. FPT x 3/4-in. FPT, 9 GPM	

FUSION AND SERVICE TOOLS

PART NUMBER	DESCRIPTION	NOTES
Flush Cart & Accessories		
TLFLC2	Flush cart*	
TLFLH1	Hose assy, flush cart (set of 2, 10 ft.) -- 1-in CAM ftgs (loop side)	
TLFLH2	Hose assy, flush cart (set of 2, 10 ft.) -- w/ 1-1/4 in. ball valves	
TLFFLH3	Hose assembly (set of 2, 20 ft.) -- 1-1/2-in CAM ftgs (loop side)**	
TLFB100	Filter bag, 100 micron, for flush cart (each)	
TLFB001	Filter bag, One (1) micron, for flush cart (each)	
Loop Tools & Accessories		
TLGG0	Geo-Gooser loop pressurization device	
TLDTH	Thermometer, digital w/case	
TLPG1	Pressure gauge, 0-100 psig, 3.5 in. dial w/PT adapter	
TLGAD	Gauge adapter P/T plug w/guard	
TLHYD	Hydrometer, alcohols	
TLMFI	AC Magnetic Field Indicator (check pump operation)	
TLFLK	Loop Service and Flush Kit	

*Ships with hose set with 1-1/4 in. ball valve.

** Ships with 2-CAM male x male adapters. May be used as an extension set or with Flo-Link XL flow centers.

Fusion and Service Tools for NP Series

PART NUMBER	DESCRIPTION	NOTES
GEO-METER Flow Meter Tool		
TLNPFMT	Mechanical (variable area) flow meter tool	
TLNPBDA	Adapter kit for B & D flow meter tool (allows B & D tool to be used with NP series flow centers)	

Flow meter tool 3762 contains: Tool with fittings, 90° cam x double O-ring adapter, straight cam x double O-ring adapter, B & D adapter, and carrying case.

FUSION AND SERVICE TOOLS (CONT)

PART NUMBER	DESCRIPTION	NOTES
Fusion Tools		
TLHFD	Heat fusion tool - double face	
TLFKT	Fusion tool kit 3/4 in., 1-1/4 in., & 2 in. -- includes: Complete fusion tool set (3/4 in., 1-1/4 in. and 2 in.) Heating tool w/cover, socket faces, cold rings, 1-1/4 in. & 2 in. chamfer tools, tool box Timer, temple sticks, up to 2 in. ratchet cutter	
Socket Faces		
TLSF3	3/4 in. IPS socket face set	
TLSF4	1 in. IPS socket face set	
TLSF5	1-1/4 in. IPS socket face set	
TLSF6	1-1/2 in. IPS socket face set	
TLSF8	2 in. IPS socket face set	
Cold Rings Vice Grip Clamp		
TLCR3	3/4 in. IPS cold ring Vice Grip clamp	
TLCR4	1 in. IPS cold ring Vice Grip clamp	
TLCR5	1-1/4 in. IPS cold ring Vice Grip clamp	
TLCR6	1-1/2 in. IPS cold ring Vice Grip clamp	
TLCR8	2 in. IPS cold ring Vice Grip clamp	
Depth Gauge/ChamferTool		
TLDG3	3/4 in. IPS depth gauge/chamfer tool	
TLDG4	1 in. IPS depth gauge/chamfer tool	
TLDG5	1-1/4 in. IPS depth gauge/chamfer tool	
TLDG6	1-1/2 in. IPS depth gauge/chamfer tool	
TLDG8	2 in. IPS depth gauge/chamfer tool	
Fusion Tools		
TLFHO	Fitting holder - 2 in. IPS	
TLFTI	Fusion timer	
TLTS5	Temp stick - PE, 500°F	
TLMBR	Mounting bracket for fusion tool	
TLFHB	Fusion tool heater bag	
Pipe Cutters		
TLPC4	PE cutter - up to 1 in.	
TLPC5	PE ratchet cutter - up to 1-1/4 in.	
TLPC8	PE ratchet cutter - up to 2 in.	

AUXILIARY HEATERS

PART NUMBER	DESCRIPTION	USED WITH	NOTES
KWBEH0101N05	Non-fused 5 Kw	HP 024-036, HB 018-036	
KWBEH0101N10	Non-fused 10 Kw	HP 024-036, HB 024-060	
KWBEH0101B15	Breaker 15 Kw	HP 048-072, HB 036-060	
KWBEH0101B20	Breaker 20 Kw	HP 060-072, HB 048-060	