

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 two-pump 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)

Magna3 Insulated Pumps



Magna3 40 series Insulated Pump with 2" isolation ball valves



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)



Nomenclature

1 - 3 4 - 10 11 12 13 14-15

rev. 03OCT2017

M3D 065-150 B F - HR

Magna3 Insulated Pump Series

M3S = Single insulated pump
 M3C = Single insul. pump w/check valve
 M3D = Dual head insulated pumps
 M3H = High head insul. pumps (two pumps in series)

Available Models*

040-080	065-150
040-120	080-100
040-180	100-120
065-120	*Not all models available in all configurations (see table, next page).

Voltage

A = 115/1/60 (up to 065-120 only)
 B = 208-230/1/60 (all models)

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

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

Magna 3 Insulated Pumps-Flow Centers

MAGNA3 INSULATED PUMPS						
Model	Mounting*	M3S	M3C	M3D	M3H	Field Connection
		Single Insulated Pump	Single Insulated Pump w/Check Valve**	Dual Head*** Insulated Pump	High Head*** Insulated Pump	
40-80	Wall Mounted	M3S040-080AC	M3C040-080AC		M3H040-080AC	2" NPT FEMALE
		M3S040-080BC	M3C040-080BC		M3H040-080BC	
40-120	Wall Mounted	M3S040-120AC	M3C040-120AC		M3H040-120AC	
		M3S040-120BC	M3C040-120BC		M3H040-120BC	
40-180	Wall Mounted	M3S040-180AC	M3C040-180AC		M3H040-180AC	
		M3S040-180BC	M3C040-180BC		M3H040-180BC	
65-120	Wall Mounted	M3S065-120AC	M3C065-120AC		M3H065-120AC	
		M3S065-120BC	M3C065-120BC		M3H065-120BC	
	Floor Mounted				M3H065-120BF-VL	
					M3H065-120BF-VR	
					M3H065-120BF-HL	
					M3H065-120BF-HR	
65-150	Wall Mounted	M3S065-150BC	M3C065-150BC	M3D065-150BC	M3H065-150BC	
	Floor Mounted			M3D065-150BF	M3H065-150BF-VL	
					M3H065-150BF-VR	
					M3H065-150BF-HL	
				M3H065-150BF-HR		
80-100	Wall Mounted	M3S080-100BC		M3D080-100BC	M3H080-100BC	
	Floor Mounted	M3S080-100BF		M3D080-100BF	M3H080-100BF-VL	
				M3D080-100BF-HL	M3H080-100BF-VR	
				M3D080-100BF-HR	M3H080-100BF-HL	
					M3H080-100BF-HR	
100-120	Wall Mounted	M3S100-120BC		M3D100-120BC	M3H100-120BC	
	Floor Mounted	M3S100-120BF		M3D100-120BF	M3H100-120BF-VL	
				M3D100-120BF-HL	M3H100-120BF-VR	
				M3D100-120BF-HR	M3H100-120BF-HL	
					M3H100-120BF-HR	

*All insulated 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.

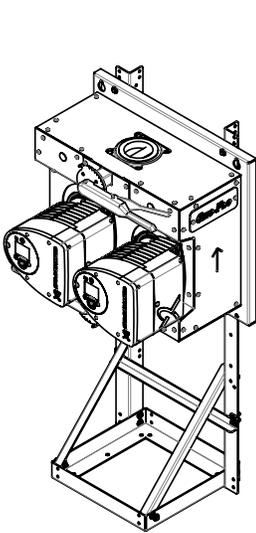
Standard configuration for M3D is vertical. Optional configuration is horizontal (HL, HR) except M3D065-150.

M3H may be vertical (VL,VR) or horizontal (HL,HR). See flow illustrations on next page.

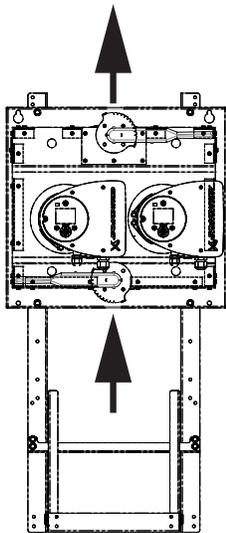
NOTE: MAGNA3 variable speed (VS) controls see page 37



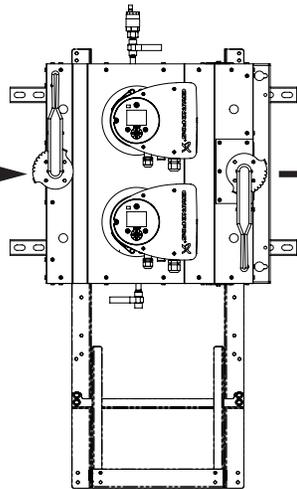
Magna3 Insulated Pump Flow Options



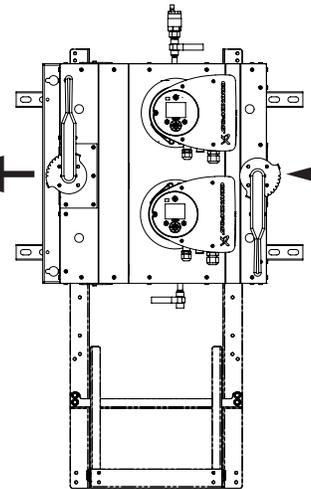
Isometric view of Magna3 insulated pump with floor stand (shown: M3D065-150BF)



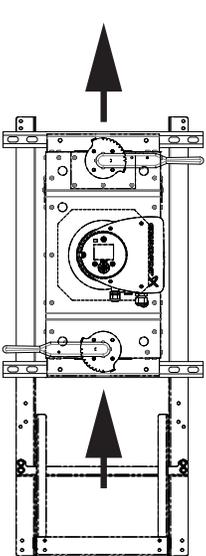
M3D dual head insulated pumps, vertical flow (shown: M3D065-150BF)



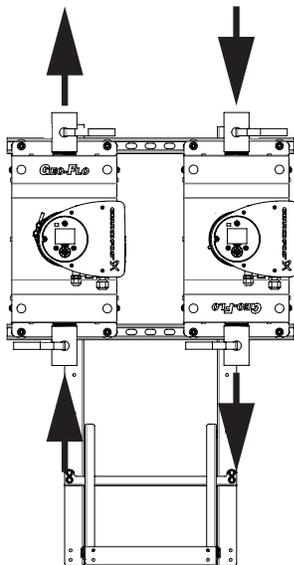
M3D dual head insulated pumps, horizontal right flow (shown: M3D100-120BF-HR) NOTE: M3D065-150 not available with HR flow, use P/N 4596 to adapt plumbing to required direction.



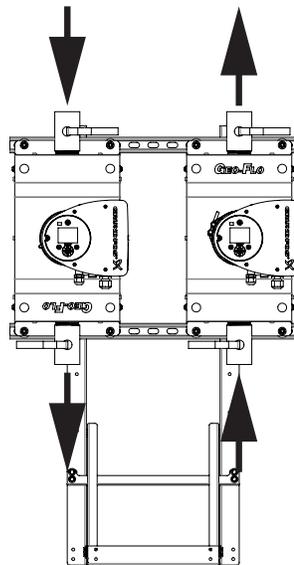
M3D dual head insulated pumps, horizontal left flow (shown: M3D100-120BF-HL)



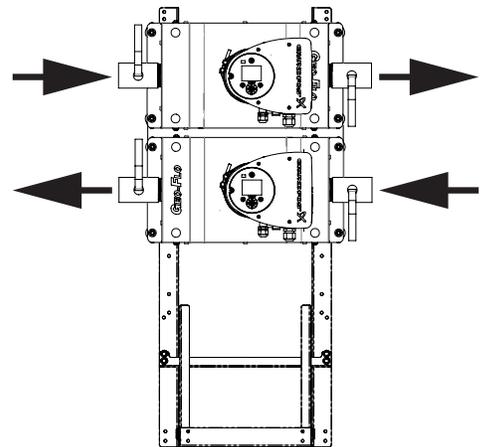
M3S single insulated pump with floor stand (shown: M3S080-100BF)



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



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



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

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

