

earth^o safe

Fuel Systems for Critical Power

Simplex Pump M210

Single Tank Mount or Wall Mount Pump
Regulated Flow and Pressure Pump System



General Description

The M210 Simplex Pump is a high performance pump system for tank top mounting.

High Performance Characteristics include:

- Rated for Continuous Duty
- Regulated Flow of 5-30 GPM (20-120 LPM)
- Regulated Pressure up to 150 PSI (1000 kPa)
- Integrated suction side check valve
- Outlet Pressure and Inlet Vacuum Gauges

The compact pump is used for a wide variety of applications:

Gen Tank Return Flow Pump. The pump mounted on a generator tank may be operated for (a) high level overflow protection, (b) for thermal high temperature fuel re-circulation, and (c) lowering tank levels for commissioning and periodic testing.

Tank Mounted Generator or Boiler Fuel Supply: The regulated flow and high pressure capabilities of the pump allow for improved performance over low pressure / high flow submersible pumps.

Tank Mounted Filtration / Polishing: The tank mounted pump may be coupled to a tank mounted filter unit to provide a simple fuel / polishing loop.

Ordering Information

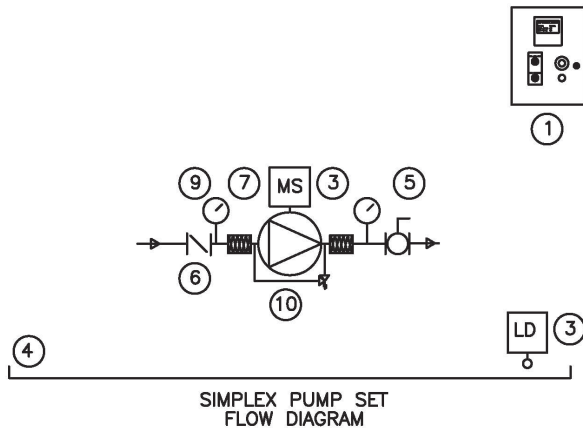
M210.MM.XX Simplex Pump

MM=05 05 GPM (20LPM)
MM=10 10 GPM (40LPM)
MM=15 15 GPM (60LPM)
MM=20 20 GPM (80LPM)
MM=30 30 GPM (100LPM)

XX=11 120 VAC – 1 PH
XX=21 208 VAC – 1 PH
XX=23 240 VAC – 3 PH
XX=43 480 VAC – 3 PH

M210 Simplex Pump

Dimensions	12" L x 12" W x 24" H (300x300x600)				
Mounting	2" or 4" MNPT (50-100)				
Flow Capacity (GPM)	5 – 10 – 15 – 20 – 30 (20-40-60-80-100 LPM)				
Pressure Rating	150 PSI (1000 kPa)				
Pump Type	Viking Positive Displacement Iron Body Pump				
Motor	Close Coupled TEFC Motor 120 – 208 VAC / 1 Phase 240 – 480 VAC / 3 Phase				
Horsepower	GPM	LPM	HP@50 PSI Standard	HP@100 PSI Optional	KW @ 340 kPa Standard
	05	20	0.50	1.00	0.37
	10	40	0.75	1.50	0.55
	15	60	1.00	2.00	0.75
	20	80	1.50	3.00	1.10
	30	100	2.00	4.00	1.50
Accessories	Bypass Relief Valve Adjustable Inlet Vacuum Gauge Outlet Pressure Gauge Inlet Check Valve Outlet Ball Valve Motor Starter / Disconnect				
Construction	Welded Steel Construction Industrial Enamel Finish Color RAL7035 Light Gray				
Inlet / Outlet Connections	1.50" MNPT (38) Optional: Butt Weld, Socket Weld, or Flange				
Controls	C820 OmniPlex Controller or C900 CentraPlex Master Controller				
Motor Disconnect / Drives	C20 Single Critical Service C233 Single Standard Service C235 SingleVFD Drive				
Optional Equipment	01 Explosion-proof Motor 02 Less OmniPlex Controller (CentraPlex System Control) 03 Add Electronic Meter 04 Add Flow Switch 05 Add Pressure Switch 06 Add Pressure Transducer				



MARK	QTY	DESCRIPTION
1	1	OMNIPLEX CONTROL PANEL
2	1	PUMP CONTROL PANEL
3	1	LEAK SENSOR
4	1	PUMP CONTAINMENT
5	1	BALL VALVE
6	1	CHECK VALVE
7	2	FLEX CONNECTOR
8	0	STRAINER
9	2	PRESSURE / VACUUM GAUGE
10	1	PUMP - MAIN TRANSFER
11	1	PRESSURE RELIEF VALVE

Simplex Pump:

The pump is used as a generator tank return flow pump or for other fuel transfer functions. The control panel monitors the relevant systems for a pump on / fuel request signal. The pump is started and is monitored for a current sense signal from the motor starter indicating operation. When the pump on / fuel request signal ceases, then the pump shuts down after a 10 second delay that prevents short cycling.

The pump mounting includes a check valve at the suction inlet to maintain prime. Inlet vacuum and outlet pressure gauges are mounted on the pump body for a visual indication of pump function. The pump includes an adjustable pressure relief valve to allow the setting of the discharge pressure and to allow operation against a closed discharge valve.

The controller display indicates for the pump: (a) normal / alarm status, (c) overload alarm condition, (d) current sense fail condition, (e) not-in-auto status, (f) pump run time meter. A common alarm output relay and a serial data interface are provided for BMS integration.