



PRODUCTION ENGINEERING
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P-SERIES Pressurized Model

5-60 Ton Modules
Self-Contained for Growth



Chiller That Grows with Your Cooling Needs

Modular pressurized chiller system, water or air cooled, with integral pump, reservoir and header piping in each module provides a self-contained, yet scalable system. The control system's design permits a single module to operate as a stand-alone chiller with the ability to add modules and a master controller as cooling capacity needs grow. The oxygen-free system prevents evaporation and biological growth in water-only systems, limits acid build-up to extend coolant life for water-glycol systems. The series is configurable to support N+1 system designs.

Product Features

- Pressurized system enables adding pumps and reservoirs without field retrofitting balancing systems
- Capacities from 60,000 BTU/hr to 720,000 BTU/hr per module
- Water or Water/Glycol Operations
- Dual refrigeration circuits in each module with multiple scroll compressors for improved uptime through redundancy (40 tons & larger)
- Energy efficient controls automatically match system cooling output to part-load demand
- Master control with independent pressure and flow sensors for process level control and alarms
- Individual modules provide local control and alarms
- Multiple building communication protocols available



BASE CONFIGURATION

Scroll Compressors
Pump in Each Module
Ferrous & Non-ferrous wetted surfaces
Expansion Tank
Manual Bypass Valve
Header Flange Connections
Pressurized Tank
Pressure Gauge
UL 1995
18 Month Warranty

**Not all options are available in all sizes.*

OPTIONS*

Non-ferrous Wetted Surfaces
Stainless Steel Wetted Surfaces
Master Controller (with sensors) for N+1 systems
Remote Display
Auto Make-up Valve
Motorized Hot Gas Bypass
Flow and Pressure Pump Upgrades
cUL Certification
Service/Maintenance Packages

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MODEL	CAPACITY 65°F fluid setpoint and 95°F ambient	CAPACITY 44°F fluid setpoint and 100°F ambient	VOLTAGE	FLA ^a	COMPRESSOR	INLET/OUTLET PORT SIZE	TANK CAPACITY	UNIT DIMEN- SIONS (L*W*H)	CRATED WEIGHT	PUMP STANDARD ¹		PUMP PRESSURE 50 PSI UPGRADE ²		PUMP FLOW UPGRADE ³	
INDOOR	BTUs/HR	BTUs/HR			HP	INCH	GAL	INCH	LBS	GPM	PSI	GPM	PSI	GPM	PSI
PVO-5000-M	60,000	53,000	460/3/60	19.8	5	2"	30	47*38*66	950	15	30	15	50	25	30
PVO-7500-M	90,000	71,000	460/3/60	22.5	7.5	3"	30	55*44*66	900	25	30	25	50	40	30
PVO-10000-M	120,000	88,000	460/3/60	28.0	10	3"	30	55*44*66	900	30	30	30	50	50	30
PVO-15000-M	180,000	142,000	460/3/60	44.2	7.5 *2	3"	35	55*52*107	2200	45	30	45	50	60	30
PVO-20000-M	240,000	176,000	460/3/60	60.9	10 *2	4"	35	68*52*107	2200	60	30	60	50	80	30
PVO-30000-M	360,000	264,000	460/3/60	74.6	10 *3	4"	35	95*52*107	3200	90	30	90	50	110	30
PVO-40000-M	480,000	352,000	460/3/60	106.2	10 *4	6"	60	67*96*107	4400	120	30	120	50	150	30
PVO-60000-M	720,000	528,000	460/3/60	159.2	10 *6	6"	60	97*96*107	5000	180	30	180	50	200	30

Fluid temperatures and ambients can vary. Consult factory for the effect on capacity.

a) Estimation, does not include pump upgrade

1) Pump Standard - Centrifugal pump providing the minimum flow requirements for the chiller.

2) Pump Pressure PSI Upgrade - in higher pressure applications this option is selected to allow pressure up to 75 psi. Pressure relief bypass must be added with this option.

3) Pump Flow Upgrade - allows for increased amount of flow; please note the PSI may change with the flow changes.

Additional Options:

Auto Water Fill - automatically maintains the water level of the reservoir. Customer needs to supply pressurized water line to the automatic valve.

Motorized Hot Gas Bypass - provides tighter temperature control of process fluid temperature; prevents short cycling due to low cooling loads.

Phase Monitor - monitors the incoming voltage and phase imbalance between the incoming legs of power.

Master Remote Box - Remotely mounted master control box. 1 is required when using 2 or more modules.

Voltage - transformers and fusing installed to get noted incoming voltage.

CSA Compliant - Chiller is built to CSA specification but is not labeled. CSA inspection is required to be CSA certified. Model number changes from "-M" to "-MC-M"

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