

P Series

Self-Contained for Growth
5–60 Ton Modules

Robust, Customizable Platform

This water or air cooled modular pressurized chiller system with an 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 and 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 80,000 BTU/hr to 800,000 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

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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

Options*

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

*Not all options are available in all sizes.

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 DIMENSIONS (L*W*H)	CRATED WEIGHT	PUMP STANDARD ¹		PUMP PRESSURE 50 PSI UPGRADE ²		PUMP FLOW UPGRADE ³	
INDOOR	BTU/HR	BTU/HR			HP	INCH	GAL	INCH	LBS	GPM	PSI	GPM	PSI	GPM	PSI
PVO-5000-M	80,000	53,000	460/3/60	16.4	5	2	30	47*38*66	950	15	30	15	50	25	30
PVO-7500-M	100,000	71,000	460/3/60	19.1	7.5	3	30	55*44*66	900	25	30	25	50	40	30
PVO-10000-M	137,000	88,000	460/3/60	23.2	10	3	30	55*44*66	900	30	30	30	50	50	30
PVO-15000-M	200,000	142,000	460/3/60	39.4	7.5 *2	3	35	55*52*107	2200	45	30	45	50	60	30
PVO-20000-M	260,000	176,000	460/3/60	53.3	10 *2	4	35	68*52*107	2200	60	30	60	50	80	30
PVO-30000-M	400,000	264,000	460/3/60	63.6	10 *3	4	35	95*52*107	3200	90	30	90	50	110	30
PVO-40000-M	500,000	352,000	460/3/60	92.2	10 *4	6	60	67*96*107	4400	120	30	120	50	150	30
PVO-60000-M	800,000	528,000	460/3/60	150.0	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 80 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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