FLUIDICS

It's All about Building a Better Product for Our Clients!

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J&M FLUIDICS, INC. – PRODUCT DATA SHEET

Model: PZW1S

Packaged Water-Cooled 1 Ton Chiller

STANDARD ON ALL J&M MODELS:
Pentra Microsmart, Programmable Logic Controller (PLC) with HMI Touch Screen Display.

R454A Refrigerant

Front/Side View

Front View

Standard Features:

- **Conforms to UL 60335-2-40:2022 Ed.4 UL 60335-1:2016 Ed.6**
- **CSA C22.2 # 60335-1:2016 Ed.2**
- **CSA C22.2 # 60335-2-40:2022 Ed.4**
- **Single Point Power Connection**
- **Pentra Microsmart, Programmable Logic Controller (PLC) with easy to use HMI touch screen display**
- **STAINLESS STEEL**, brazed plate evaporator
- Scroll compressor with crankcase heater
- Suction Accumulator
- Liquid line drier, sight glass, solenoid
- Electronic expansion valve
- Manual high pressure cutout
- **Water flow switch**
- **Hot Gas Bypass Capacity Control**
- **24V control transformer**
- Control circuit fusing
- Condenser(s): Coaxial up to PZW21D
- Condenser(s): Shell and Tube on units larger than 21 ton
- Compressor motor contactor
- **Painted - Powder Coated** (up to PZW21D), **galvanized sheet metal cabinet**
- 1/2" insulation on all water and refrigerant lines
- Complete refrigerant charge from factory
- **Factory Performance Test prior to shipment**

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Intertek

Options:

- **VFD Compressor Control**
- **Copeland Digital Scroll Compressor**
- **Remote Idec touchscreen control panel**
- **5 Port Ethernet Switch**
- **BacNet Gateway**
- **Process Pump VFD Controller**
- 4 year extended compressor warranty
- Casters (factory mounted)
- Condenser water regulating valve
- 115 volt (rain tight) service outlet
- Non Fused Disconnect
- Phase Monitor, line voltage monitor offering protection against phase loss/reversal, unbalance and hi/lo voltage
- Compressor fusing
- Compressor Sound Cover
- Factory installed evaporator heat tape freeze protection
- Low flow by-pass valve
- Fused, STAINLESS STEEL process pump
- Dual system pump with manual changeover (some models)
- Dual system pump with auto changeover (some models)
- Pump suction isolation valve
- Water pressure gauge set
- Water Flow Meter
- Auto city water changeover panel with filter
- Stainless steel, SCH80 PVC or Polypropylene piping for deionized and reverse osmosis water systems
- Door Mounted HMI with weather proof cover

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Product Dimensional Drawing

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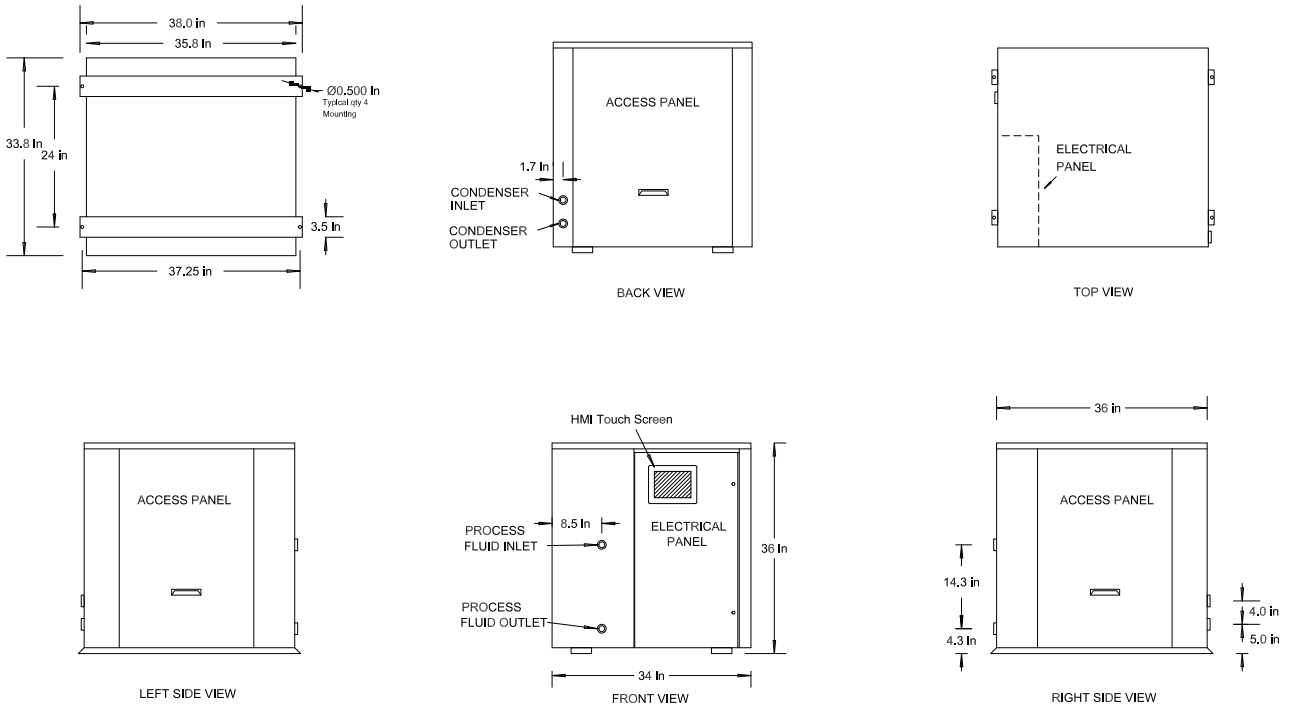
R454A Refrigerant



Dimensional & Electrical Table (Single Circuit)

Chiller Model	Nominal BTUH	Length Inches	Width Inches	Height Inches	Power			Compressor Qty.	RLA ea.	LRA ea.	MCA	MOP	Chiller Fluid Conn	Weight Pounds
					Voltage	Phase	Freq.							
PZW1SE7					208/230	1	60		7.2	47.2	9	15		
PZW1SF7	14000	36	34	36	208/230	3	60	1	4.7	37.8	6	15	1 "FPT	210
PZW1SH7					460	3	60		3	19.6	4	15		

Capacity Table (Refrigerant R454A)

Model	COMPRESSOR	COND(°F)	105		
		LWT (°F)	TONS	KW	EER
1S	YB08KAE	42	1.1	1.1	11.6
		44	1.1	1.1	12.1
		45	1.2	1.1	12.3
		50	1.3	1.2	13.6

1. Capacities on this chart are based on refrigerant R454A. Lower leaving water or low ambient can require the use of a glycol solution or other fluid blends. These solutions affect unit capacities. Please consult the factory on these or other special fluids.
2. KW input is for compressor(s) only.
3. EER = Energy Efficiency Ratio (BTU/watt-hour). Power inputs include compressor (s), condenser fan motor (s) and control power.

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