



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

J&M Fluidics, Inc.
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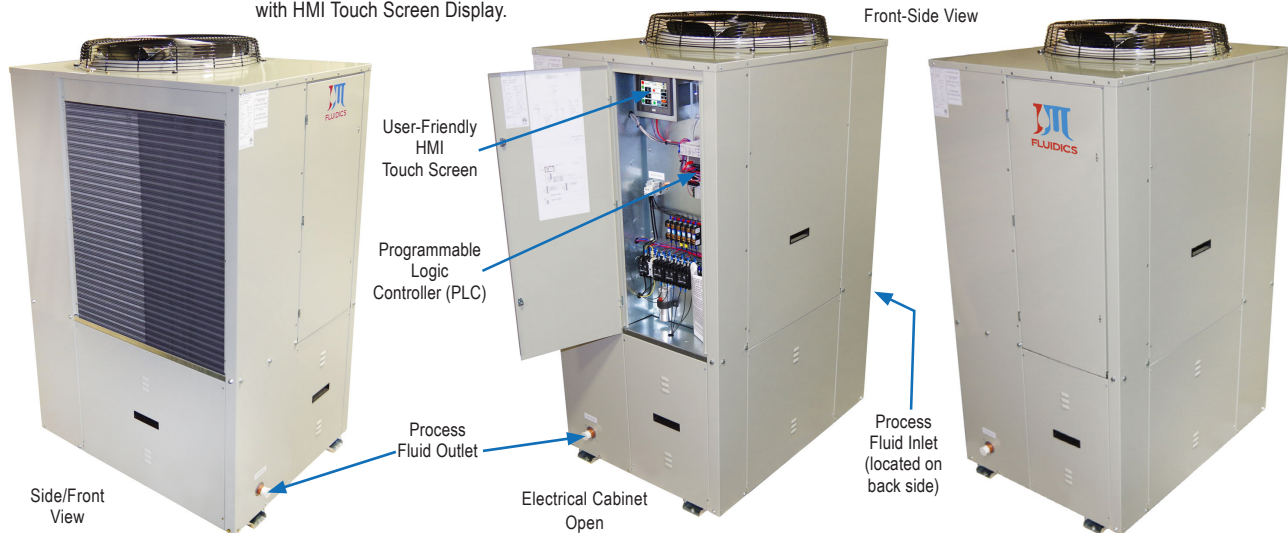
Model: PZAT4S

Packaged Air-Cooled 4 Ton Chiller

with Stainless Steel Tank

STANDARD ON ALL J&M MODELS:

Pentra Microsmart, Programmable Logic Controller (PLC)
with HMI Touch Screen Display.



Standard Features:

- ETL listed to UL1995 & CAN/CSA C22.2 No. 236-11, 4th edition, 10/14/2011
- Single point power connection
- Pentra Microsmart, Programmable Logic Controller (PLC) with easy to use HMI touch screen display
- **STAINLESS STEEL** Tank
- Fused, **STAINLESS STEEL** recirculation pump for tank
- **STAINLESS STEEL**, brazed plate evaporator
- Scroll compressor with crankcase heater
- Suction accumulator
- Water flow switch
- Hot gas by-pass capacity control
- 24V control transformer
- Direct drive condenser fan motor
- Rust resistant, high CFM, aluminum condenser fan blade
- Condenser(s): copper tube/aluminum fin
- Compressor motor contactor
- Condenser motor and control circuit fusing
- **Painted (Powder Coated), galvanized sheet metal cabinet**
- 1/2" insulation on all water and Low pressure refrigerant lines
- Liquid line drier, sight glass, solenoid, TXV
- Complete refrigerant charge from factory
- **Factory Performance Test prior to shipment**



Options:

- Copeland Digital Scroll Compressor (*Hot Gas Bypass Removed*)
- Remote Idec touchscreen control panel
- Industrial VPN Router
- 5 Port Ethernet Switch
- BacNet Gateway
- **STAINLESS STEEL** Process Pump
- Process Pump VFD Controller
- VFD Compressor Control (*Hot Gas Bypass Removed*)
- 4 year extended compressor warranty
- Casters (factory mounted)
- 115 volt (rain tight) service outlet
- Non Fused Disconnect
- Phase/voltage monitor
- Compressor fusing
- Tank Sight Glass
- Compressor Sound Cover
- Flooded cond. w/receiver/head pressure control (0°F)
- Flooded cond. w/**Heated** receiver/head pressure control (-20°F)
- Dual process pumps with auto changeover
- Pump suction isolation valve(s)
- Water pressure gauge set
- Copper finned condenser coil (coastal protection)
- Coastal powder coat paint protection
- E-Coat Condenser Coil (coastal protection)
- Water Flow Meter
- Auto city water make up solenoid & auto level switch
- Auto city water changeover panel with filter
- Door Mounted HMI with weather proof cover



**Easy to Use
Touch Screen Display
on ALL J&M Chiller
Models**

J&M FLUIDICS, INC. – PRODUCT DATA SHEET



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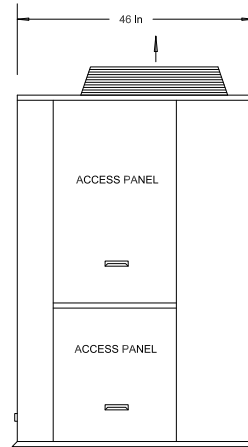
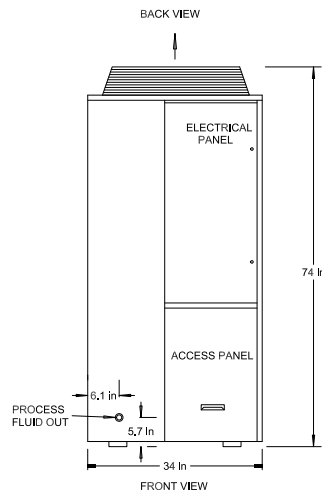
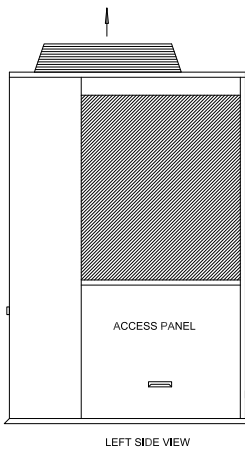
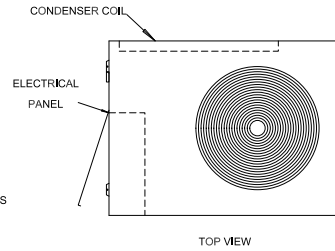
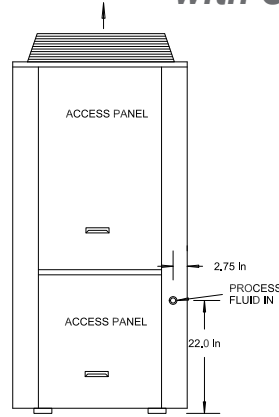
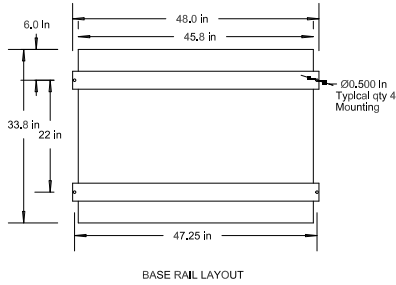
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Model: PZAT4S

Packaged Air-Cooled 4 Ton Chiller

Product Dimensional Drawing
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with Stainless Steel Tank



Dimensional & Electrical Table (Single Circuit)

| Chiller Models | Length Inches | Width Inches | Height Inches | Power | | | Compressor | | RLA ea. | LRA ea. | Fan Motor | | Recirculation Pump FLA | MCA | M.O.P. | Reservoir Gal. | Chiller Fluid Conn. | Weight Pounds |
|----------------|---------------|--------------|---------------|----------|-------|-------|------------|----|---------|---------|-----------|------|------------------------|-----|--------|----------------|---------------------|---------------|
| | | | | Voltage | Phase | Freq. | Qty. | HP | | | Qty. | FLA. | | | | | | |
| PZAT4SE5 | 46 | 34 | 74 | 208/230V | 1 | 60Hz | 1 | 5 | 27.1 | 175 | 1 | 3.8 | 4.2 | 45 | 60 | 50 | 1" FPT | 850 |
| PZAT4SF5 | | | | 208/230V | 3 | 60Hz | | | 18.6 | 128 | | 3.8 | 4.2 | 35 | 45 | | | |
| PZAT4SH5 | | | | 460V | 3 | 60Hz | | | 8.0 | 63 | | 1.5 | 0.9 | 15 | 20 | | | |
| PZAT4SI5 | | | | 575V | 3 | 60Hz | | | 6.3 | 50 | | 1.72 | 0.72 | 15 | 15 | | | |

* = Requires the use of glycol.

Capacity Table (Refrigerant R407C)

| Model | Compressor | LWT °F | 80°F | | | 90°F | | | 95°F | | | 100°F | | | 105°F | | |
|-------|------------|--------|------|-----|------|------|-----|------|------|-----|------|-------|-----|-----|-------|-----|-----|
| | | | TONS | KW | EER | TONS | KW | EER | TONS | KW | EER | TONS | KW | EER | TONS | KW | EER |
| 4S | ZB38KCE | *42.0 | 4.0 | 4.0 | 10.9 | 3.7 | 4.4 | 9.5 | 3.7 | 4.6 | 8.9 | 3.5 | 4.8 | 8.3 | 3.4 | 5.1 | 7.7 |
| | | *44.0 | 4.1 | 4.0 | 11.2 | 3.9 | 4.4 | 9.8 | 3.8 | 4.6 | 9.2 | 3.7 | 4.9 | 8.6 | 3.6 | 5.1 | 8.0 |
| | | 45.0 | 4.2 | 4.0 | 11.3 | 4.0 | 4.4 | 9.9 | 3.9 | 4.7 | 9.3 | 3.8 | 4.9 | 8.7 | 3.7 | 5.2 | 8.1 |
| | | 50.0 | 4.6 | 4.2 | 12.1 | 4.5 | 4.6 | 10.6 | 4.4 | 4.8 | 10.0 | 4.2 | 5.0 | 9.4 | 4.1 | 5.3 | 8.7 |

- Capacities on this chart are based on refrigerant R407C. 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.
- KW input is for compressor(s) only.
- EER = Energy Efficiency Ratio (BTU/watt-hour). Power inputs include compressor (s), condenser fan motor (s) and control power.