

PRODUCT DATA SHEET

Model: PZAT1S

Packaged Air-Cooled
1 Ton Chiller



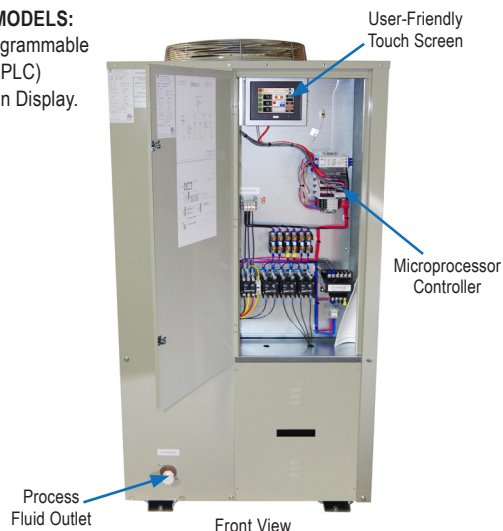
Legacy Chiller Systems

851 Tech Drive
Telford, PA 18969

Toll-Free: (877) 988-5464

with Stainless Steel Tank

**STANDARD ON ALL
LEGACY CHILLER 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
- 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**
- **Extended warranty:** See your quote or latest IOM booklet revision

**Easy to Use
Touch Screen Display
on all Legacy Chiller
Models**



Options:

- Remote Idec touchscreen control panel
- Industrial VPN Router
- 5 Port Ethernet Switch
- BacNet Gateway
- Process Pump VFD Controller
- VFD Compressor Control
- 4 year extended compressor warranty
- Casters (factory mounted)
- 115 volt (rain tight) service outlet
- Non Fused Disconnect
- Phase Monitor, line voltage monitor offering protection against phase loss/reversal, unbalance and High/Low voltage
- Compressor fusing
- Compressor Sound Cover
- Flooded cond. w/receiver/head pressure control (0°F)
- Heated, flooded cond. w/receiver/head pressure Water flow meter control (-20°F)
- Dual process pump with auto changeover
- Pump suction isolation valve
- 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
- Stainless steel, SCH80 PVC or Polypropylene piping for deionize and reverse osmosis water systems
- Storage tank sight glass
- Door Mounted HMI with weather proof cover

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Dimensional & Electrical Table

| 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. | | | | | | |
| PZAT1SE5 | 36 | 34 | 68 | 208/230V | 1 | 60Hz | 1 | 1.3 | 8.3 | 40.3 | 1 | 3.8 | 4.2 | 20 | 25 | 20 | 1" FPT | 550 |

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 |
| 1S | ZR16K5E | *42.0 | .98 | 1.2 | 7.5 | .90 | 1.3 | 6.8 | .87 | 1.4 | 6.3 | .83 | 1.4 | 6.0 | .80 | 1.5 | 5.6 |
| | | *44.0 | 1.0 | 1.2 | 7.7 | .95 | 1.3 | 6.9 | .91 | 1.4 | 6.5 | .88 | 1.4 | 6.2 | .84 | 1.5 | 5.8 |
| | | 45.0 | 1.05 | 1.2 | 7.8 | .98 | 1.3 | 7.0 | .94 | 1.4 | 6.6 | .90 | 1.4 | 6.3 | .86 | 1.5 | 5.9 |
| | | 50.0 | 1.2 | 1.2 | 8.4 | 1.1 | 1.3 | 7.5 | 1.05 | 1.4 | 7.1 | 1.01 | 1.5 | 6.7 | .98 | 1.6 | 6.3 |

* = Requires the use of glycol.



Product Dimensional Drawing

