

PRODUCT DATA SHEET

Model: PZAT3S

Packaged Air-Cooled
3 Ton Chiller



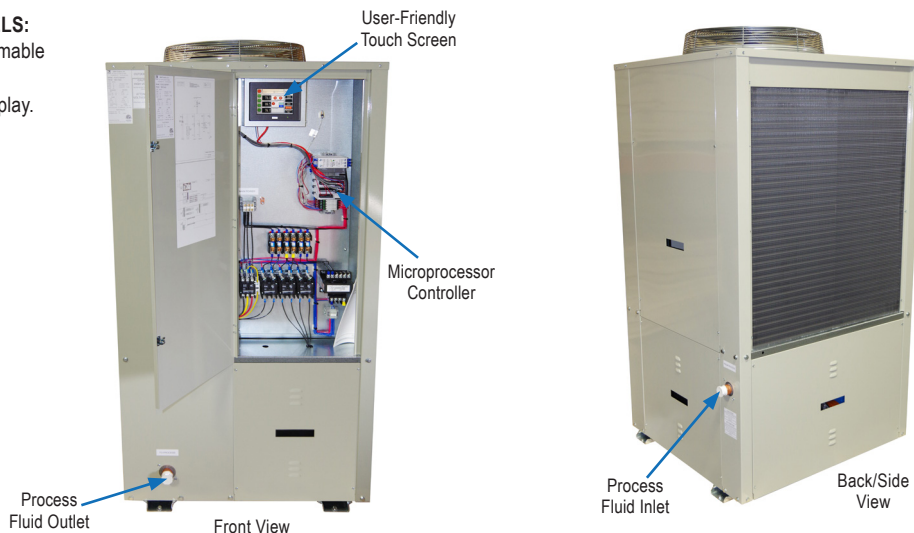
Legacy Chiller Systems

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:

- Copeland Digital Scroll Compressor
- 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. | | | | | | | | | | |
| PZAT3SE5 | 36 | 34 | 68 | 208/230V | 1 | 60Hz | 1 | 4 | 21.8 | 137 | 1 | 3.8 | 4.2 | 40 | 50 | 20 | 1" FPT | 800 | | | | |
| PZAT3SF5 | | | | 208/230V | 3 | 60Hz | | | 15.4 | 114 | | | | | | | | | 3.8 | 4.2 | 30 | 40 |
| PZAT3SH5 | | | | 460V | 3 | 60Hz | | | 7.1 | 58 | | | | | | | | | 1.5 | 0.9 | 15 | 20 |
| PZAT3SI5 | | | | 575V | 3 | 60Hz | | | 5.2 | 43 | | | | | | | | | 1.72 | 0.72 | 15 | 15 |

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 |
| 3S | ZS29KAE | *42.0 | 3.1 | 3.4 | 10.3 | 2.9 | 3.8 | 9.2 | 2.9 | 3.9 | 8.6 | 2.8 | 4.1 | 8.1 | 2.7 | 4.3 | 7.6 |
| | | *44.0 | 3.3 | 3.5 | 10.6 | 3.1 | 3.8 | 9.4 | 3.0 | 4.0 | 8.8 | 2.9 | 4.1 | 8.4 | 2.8 | 4.4 | 7.8 |
| | | 45.0 | 3.5 | 3.5 | 10.8 | 3.2 | 3.8 | 9.6 | 3.1 | 4.0 | 9.0 | 3.0 | 4.2 | 8.5 | 2.9 | 4.4 | 7.9 |
| | | 50.0 | 3.7 | 3.6 | 11.4 | 3.5 | 3.9 | 10.2 | 3.4 | 4.1 | 9.6 | 3.3 | 4.3 | 9.1 | 3.2 | 4.5 | 8.5 |

* = Requires the use of glycol.



Product Dimensional Drawing

