

# PRODUCT DATA SHEET

Model: **PZAT8S**  
*Packaged Air-Cooled  
8 Ton Chiller*



**Legacy Chiller Systems**  
851 Tech Drive  
Telford, PA 18969  
Toll-Free: (877) 988-5464

*with Stainless Steel Tank*



Side/Front View

**STANDARD ON ALL  
LEGACY CHILLER MODELS:**  
Pentra Microsmart, Programmable  
Logic Controller (PLC)  
with HMI Touch Screen Display.



Back View

## 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 (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. |                        |     |       |                |                     |               |
| PZAT8SF5       | 75            | 34           | 76            | 208/230V | 3     | 60Hz  | 1          | 9  | 30.1    | 225     | 2         | 3.8  | 6.6                    | 60  | 80    | 80             | 1.25" FPT           | 1150          |
| PZAT8SH5       |               |              |               | 460V     | 3     | 60Hz  |            |    | 15.5    | 114     |           | 1.5  | 1.7                    | 25  | 35    |                |                     |               |
| PZAT8SI5       |               |              |               | 575V     | 3     | 60Hz  |            |    | 12.1    | 80      |           | 1.72 | 1.5                    | 25  | 30    |                |                     |               |

**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 |
| 8S    | ZB66KCE    | *42.0  | 6.7  | 7.1 | 10.9 | 6.5  | 7.8 | 9.7  | 6.3        | 8.2        | 9.1        | 6.1   | 8.6 | 8.5 | 5.9   | 9.0 | 8.0 |
|       |            | *44.0  | 7.1  | 7.2 | 11.2 | 6.8  | 7.9 | 9.9  | <b>6.6</b> | <b>8.3</b> | <b>9.3</b> | 6.4   | 8.6 | 8.8 | 6.2   | 9.1 | 8.2 |
|       |            | 45.0   | 7.2  | 7.2 | 11.4 | 7.0  | 7.9 | 10.1 | 6.8        | 8.3        | 9.5        | 6.5   | 8.7 | 8.9 | 6.3   | 9.1 | 8.4 |
|       |            | 50.0   | 8.0  | 7.4 | 12.0 | 7.8  | 8.1 | 10.7 | 7.5        | 8.5        | 10.1       | 7.3   | 8.8 | 9.6 | 7.1   | 9.3 | 8.9 |

\* = Requires the use of glycol.



## Product Dimensional Drawing

