

# PRODUCT DATA SHEET

Model: PZWT22D

Packaged Water-Cooled  
22 Ton Chiller



Legacy Chiller Systems

851 Tech Drive  
Telford, PA 18969

Toll-Free: (877) 988-5464



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

with Stainless Steel Tank



Idec Microprocessor  
Controller



Connections on Back:  
(2) Condenser Water Inlets  
(2) Condenser Water Outlets  
(1) Process Fluid Inlet  
(1) Process Fluid Outlet

## 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, brazed plate evaporator
- Scroll compressor with crankcase heater
- Suction Accumulator
- Water flow switch
- Hot Gas Bypass Capacity Control
- 24V control transformer
- Control circuit fusing
- Condenser(s): Coaxial up to PZW22D
- Compressor motor contactor
- Painted - Powder Coated (Most Models), galvanized sheet metal cabinet
- 1/2" insulation on all water and 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

## Tank

- STAINLESS STEEL storage tank with 1/2 inch insulation
- Fused, STAINLESS STEEL re-circulation pump for tank operation with ball valve and cleanable strainer
- Tank pressure relief valve, vent and drain hose bibs

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)
- 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

## Tank Options

- Storage tank sight glass
- Tank low liquid level indicator with dry contacts

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## Dimensional & Electrical Table (Dual Circuit)

| Chiller Models | Length Inches | Width Inches | Height Inches | Power    |       |       | Compressor |    | RLA ea. | LRA ea. | Recirculation Pump FLA | MCA | M.O.P | Reservoir Gal. | Chiller Fluid Conn. | Weight Pounds |
|----------------|---------------|--------------|---------------|----------|-------|-------|------------|----|---------|---------|------------------------|-----|-------|----------------|---------------------|---------------|
|                |               |              |               | Voltage  | Phase | Freq. | Qty.       | HP |         |         |                        |     |       |                |                     |               |
| PZWT22DF5      | 85            | 34           | 70            | 208/230V | 3     | 60Hz  | 2          | 12 | 49.4    | 300     | 5.6                    | 150 | 175   | 120            | 2" FPT              | 1600          |
| PZWT22DH5      |               |              |               | 460V     | 3     | 60Hz  |            |    | 23.1    | 150     | 2.8                    | 60  | 80    |                |                     |               |
| PZWT22DI5      |               |              |               | 575V     | 3     | 60Hz  |            |    | 19.2    | 109     | 1.8                    | 50  | 60    |                |                     |               |

## Capacity Table (Refrigerant R407C)

| Model | Compressor | LWT °F | 105°F Condensing |      |      |
|-------|------------|--------|------------------|------|------|
|       |            |        | TONS             | KW   | EER  |
| 22D   | ZB95KCE    | *42.0  | 19.6             | 16.0 | 13.9 |
|       |            | *44.0  | 20.5             | 16.1 | 14.5 |
|       |            | 45.0   | 21.0             | 16.1 | 14.8 |
|       |            | 50.0   | 23.5             | 16.2 | 16.3 |

\* = Requires the use of glycol.



## Product Dimensional Drawing

