

# PRODUCT DATA SHEET

Model: PZW4.5S

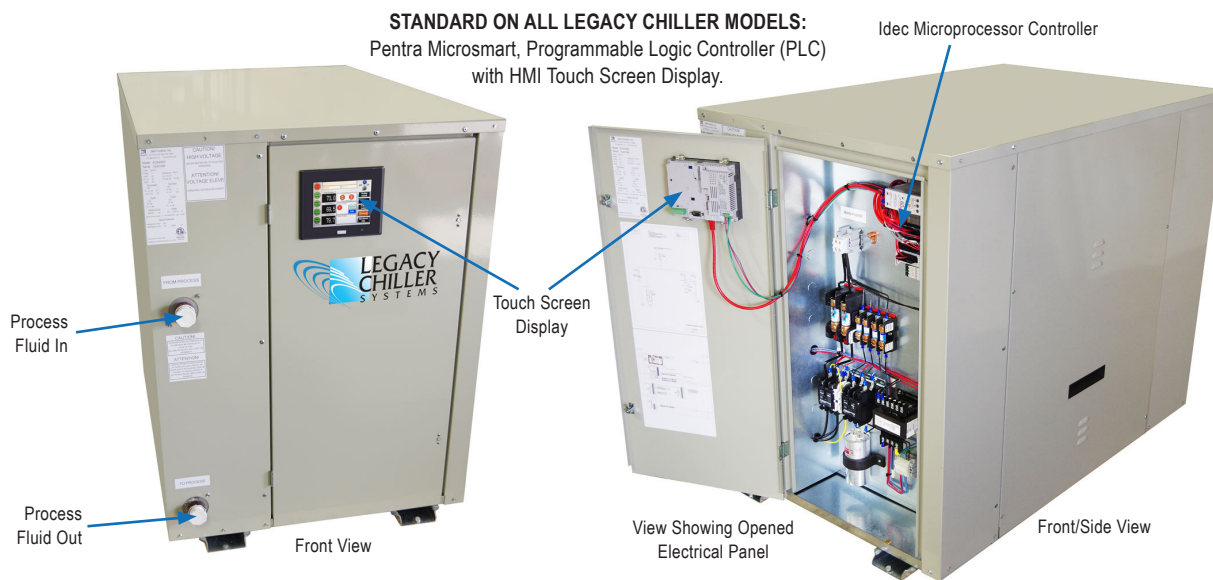
Packaged Water-Cooled  
4.5 Ton Chiller



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.

Idec Microprocessor Controller

Process  
Fluid In

Process  
Fluid Out

Front View

Touch Screen  
Display

View Showing Opened  
Electrical Panel

Front/Side 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**, 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
- Condenser(s): Shell and Tube PZW26D through PZW52D
- Compressor motor contactor
- **Painted - Powder Coated** (up to PZW22D), **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

## 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

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



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## Dimensional & Electrical Table (Single Circuit)

| Chiller Models | Length Inches | Width Inches | Height Inches | Power    |       |       | Compressor |    | RLA ea. | LRA ea. | MCA | M.O.P | Chiller Fluid Conn. | Weight Pounds |
|----------------|---------------|--------------|---------------|----------|-------|-------|------------|----|---------|---------|-----|-------|---------------------|---------------|
|                |               |              |               | Voltage  | Phase | Freq. | Qty.       | HP |         |         |     |       |                     |               |
| PZW4.5SE5      | 46            | 34           | 36            | 208/230V | 1     | 60Hz  | 1          | 5  | 25.0    | 129     | 35  | 50    | 1" FPT              | 425           |

## Capacity Table (Refrigerant R407C)

| Model | Compressor | LWT °F | 105°F Condensing |      |      |
|-------|------------|--------|------------------|------|------|
|       |            |        | TONS             | KW   | EER  |
| 4.5S  | ZB42KCE    | 42.0   | 4.46             | 4.64 | 12.0 |
|       |            | 44.0   | 4.63             | 4.63 | 12.4 |
|       |            | 45.0   | 4.71             | 4.40 | 11.6 |
|       |            | 50.0   | 5.17             | 4.61 | 13.9 |



## Product Dimensional Drawing

