

# PRODUCT DATA SHEET

Model: PZW4.5S

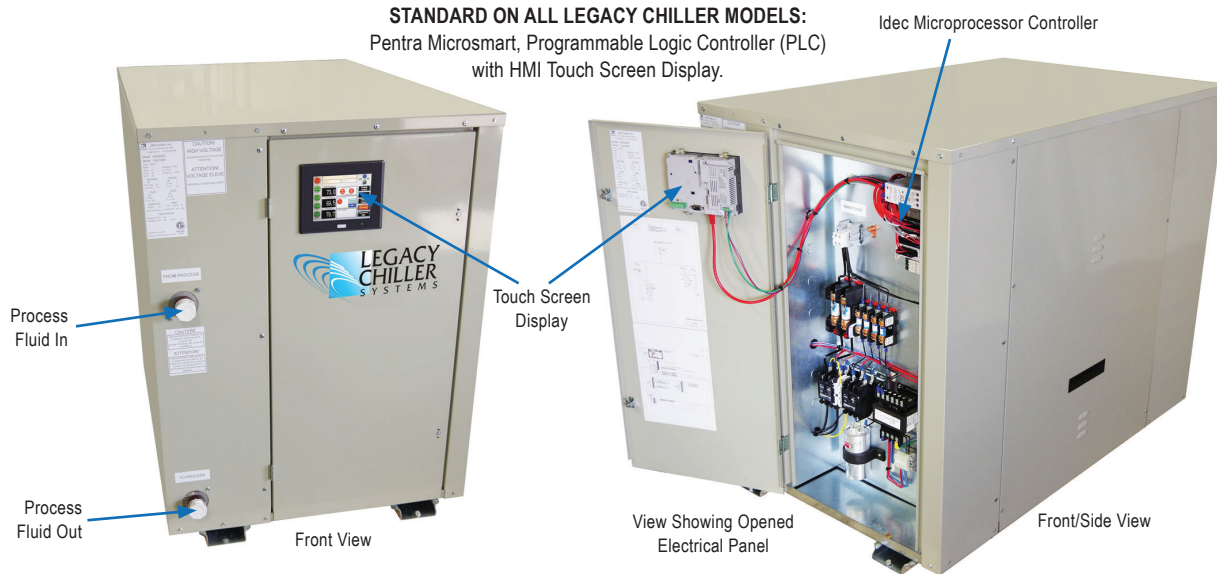
Packaged Water-Cooled  
4.5 Ton Chiller



Legacy Chillers, Inc.

851 Tech Drive  
Telford, PA 18969

Toll-Free: (877) 988-5464



## 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**

**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

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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 |         |         |     |       |                     |               |
| <b>PZW4.5SE5</b> | 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  |
| <b>4.5S</b> | ZB42KCE    | <b>42.0</b> | 4.46             | 4.64 | 12.0 |
|             |            | <b>44.0</b> | 4.63             | 4.63 | 12.4 |
|             |            | <b>45.0</b> | 4.71             | 4.40 | 11.6 |
|             |            | <b>50.0</b> | 5.17             | 4.61 | 13.9 |

1. Capacities on this chart are based on refrigerant R407C. Lower leaving water or low ambient can require the use of a glycol solution or other fluid blends. These solutions affect unit capacities. Please consult the factory on these or other special fluids.
2. KW input is for compressor(s) only.
3. EER = Energy Efficiency Ratio (BTU/watt-hour). Power inputs include compressor (s), condenser fan motor (s) and control power.



## Product Dimensional Drawing

