

PRODUCT DATA SHEET

Model: PZW1.5S

*Packaged Water-Cooled
1.5 Ton Chiller*



Legacy Chillers, Inc.

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.

User-Friendly
Touch Screen
Display



Front/Side View



Front 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**

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 | | | | | | |
| PZW1.5SE5 | 36 | 34 | 36 | 208/230V | 1 | 60Hz | 1 | 2.0 | 13.5 | 68 | 20 | 30 | 1" FPT | 215 |
| PZW1.5SF5 | | | | 208/230V | 3 | 60Hz | | | 8.0 | 58 | 15 | 15 | | |
| PZW1.5SH5 | | | | 460V | 3 | 60Hz | | | 4.2 | 29 | 15 | 15 | | |
| PZW1.5SI5 | | | | 575V | 3 | 60Hz | | | 3.1 | 24 | 15 | 15 | | |

Capacity Table (Refrigerant R407C)

| Model | Compressor | LWT °F | 105°F Condensing | | |
|-------|------------|--------|------------------|------|------|
| | | | TONS | KW | EER |
| 1.5S | ZS15KAE | 42.0 | 1.77 | 1.73 | 12.7 |
| | | 44.0 | 1.84 | 1.72 | 13.3 |
| | | 45.0 | 1.88 | 1.72 | 13.5 |
| | | 50.0 | 2.07 | 1.69 | 15.2 |

- 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.
- KW input is for compressor(s) only.
- EER = Energy Efficiency Ratio (BTU/watt-hour). Power inputs include compressor (s), condenser fan motor (s) and control power.



Product Dimensional Drawing

