

# PRODUCT DATA SHEET

Model: **PZWT15S**  
*Packaged Water-Cooled  
15 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.

**with Stainless Steel Tank**

**R454A  
Refrigerant**



## **Standard Features:**

- Conforms to UL 60335-2-40:2022 Ed.4  
UL 60335-1:2016 Ed.6
- CSA C22.2 # 60335-1:2016 Ed.2
- CSA C22.2 # 60335-2-40:2022 Ed.4
- 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
- Liquid line drier, sight glass, solenoid
- Electronic expansion valve
- Manual high pressure cutout
- Water flow switch
- Hot Gas Bypass Capacity Control
- 24V control transformer
- Control circuit fusing
- Condenser(s): Coaxial up to PZWT21D
- Condenser(s): Shell and Tube on models larger than 21 ton
- Compressor motor contactor
- Painted - Powder Coated (Most Models), galvanized sheet metal cabinet
- 1/2" insulation on all water and refrigerant lines
- Complete refrigerant charge from factory
- Factory Performance Test prior to shipment



## **Options:**

- VFD Compressor Control
- Copeland Digital Scroll Compressor
- Remote Idec touchscreen control panel
- 5 Port Ethernet Switch
- BacNet Gateway
- Process Pump VFD Controller
- 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
- Tank City Water Makeup
- Stainless steel, SCH80 PVC or Polypropylene piping for deionized and reverse osmosis water systems
- Door Mounted HMI weather proof cover

## **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

## **Tank Options**

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

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## Dimensional & Electrical Table (Single Circuit)

| Chiller Model | Nominal BTUH | Length Inches | Width Inches | Height Inches | Power   |       |       | Compressor Qty. | RLA ea. | LRA ea. | Recirculation Pump FLA | MCA | MOP | Reservoir Gal. | Chiller Fluid Conn | Weight Pounds |
|---------------|--------------|---------------|--------------|---------------|---------|-------|-------|-----------------|---------|---------|------------------------|-----|-----|----------------|--------------------|---------------|
|               |              |               |              |               | Voltage | Phase | Freq. |                 |         |         |                        |     |     |                |                    |               |
| PZWT15SF7     | 177500       | 75            | 34           | 70            | 208/230 | 3     | 60    | 1               | 56.5    | 321     | 4.66                   | 75  | 125 | 80             | 1.25 "FPT          | 1300          |
| PZWT15SH7     |              |               |              |               | 460     | 3     | 60    |                 | 24.4    | 179     | 2.11                   | 33  | 50  |                |                    |               |
| PZWT15SI7     |              |               |              |               | 575     | 3     | 60    |                 | 18.8    | 145     | 1.69                   | 25  | 40  |                |                    |               |

## Capacity Table (Refrigerant R454A)

| Model | COMPRESSOR | COND (°F) | 105  |      |      |
|-------|------------|-----------|------|------|------|
|       |            | LWT (°F)  | TONS | KW   | EER  |
| 15S   | YB100KAE   | 42        | 13.9 | 14.0 | 11.9 |
|       |            | 44        | 14.5 | 14.0 | 12.4 |
|       |            | 45        | 14.8 | 14.1 | 12.6 |
|       |            | 50        | 15.7 | 14.1 | 13.4 |

- Capacities on this chart are based on refrigerant R454A. 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

**R454A**  
**Refrigerant**

