

PRODUCT DATA SHEET

Model: **PZWT15D**
*Packaged Water-Cooled
15 Ton Chiller*



Legacy Chillers, Inc.
851 Tech Drive
Telford, PA 18969

Toll-Free: (877) 988-5464

R454A
Refrigerant

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

with Stainless Steel Tank



Front View



Back/Side
View

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 (Dual 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. | | | | | | | | | |
| PZWT15DF7 | 180000 | 85 | 34 | 70 | 208/230 | 3 | 60 | 2 | 31.9 | 224 | 4.66 | 76 | 100 | 80 | 1.5 "FPT | 1300 |
| PZWT15DH7 | | | | | 460 | 3 | 60 | | 12.6 | 99 | 2.11 | 30 | 40 | | | |
| PZWT15DI7 | | | | | 575 | 3 | 60 | | 10.3 | 82.4 | 1.69 | 25 | 35 | | | |

Capacity Table (Refrigerant R454A)

| Model | COMPRESSOR | COND(°F) | 105 | | |
|-------|------------|----------|------|------|------|
| | | LWT (°F) | TONS | KW | EER |
| 15D | YB50KAE | 42 | 16.4 | 10.0 | 13.1 |
| | | 44 | 16.4 | 10.4 | 13.7 |
| | | 45 | 16.5 | 10.6 | 14.0 |
| | | 50 | 16.5 | 11.2 | 14.9 |

- 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

