

# PRODUCT DATA SHEET

Model: **PZAPT10S**  
*Packaged Air-Cooled  
Portable 10 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.

**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
- Noncorrosive polyethylene storage tank with 1/2" insulation
- Fused, **STAINLESS STEEL** Process pump w/ discharge ball valve
- Low flow by-pass valve
- Electronic expansion valve
- Manual high pressure cutout
- Liquid line drier, sight glass, solenoid
- **Water flow switch**
- **Hot Gas Bypass Capacity Control**
- **24V control transformer**
- Fan cycle control (+40°F)
- Direct drive condenser fan motor
- Rust resistant, high CFM, aluminum condenser fan blade
- Condenser (Air cooled): copper tube/aluminum fin
- Compressor motor, Condenser fan and process pump contactors
- Condenser motor, Process pump and control circuit fusing
- Casters (factory mounted)
- **Painted (Powder Coated), galvanized sheet metal cabinet**
- 1/2" insulation on all water and Low pressure refrigerant lines
- Complete refrigerant charge from factory
- **Factory Performance Test prior to shipment**



## Options:

- VFD Compressor Controller
- Remote Idec touchscreen control panel
- 5 Port Ethernet Switch
- BacNet Gateway
- Process Pump VFD Controller
- 4 year extended compressor warranty
- E-Coat condenser coating (Air Cooled Models)
- 115 volt (rain tight) service outlet
- Fused Disconnect
- 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
- Process pump suction isolation valve
- Water pressure gauge set
- Stainless steel, SCH80 PVC or Polypropylene piping for de-ionized and reverse osmosis water systems
- Storage Tank Sight Glass
- Tank low fluid level indicator
- Tank auto city water make up solenoid & auto level switch
- Coastal powder coat paint protection
- **Custom powder coat paint color scheme** (Company Colors & more)
- Weather Proof HMI Cover

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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. | Fan Motor |         | Process Pump |         | MCA | MOP | Reservoir Gal. | Chiller Fluid Conn. | Weight Pounds |
|---------------|--------------|---------------|--------------|---------------|---------|-------|-------|-----------------|---------|---------|-----------|---------|--------------|---------|-----|-----|----------------|---------------------|---------------|
|               |              |               |              |               | Voltage | Phase | Freq. |                 |         |         | Qty.      | FLA ea. | HP           | FLA ea. |     |     |                |                     |               |
| PZAPT10SF7    | 123500       | 75            | 34           | 55            | 208/230 | 3     | 60    | 1               | 38.6    | 239     | 2         | 3.8     | 2            | 6.1     | 62  | 100 | 31             | 1.25 "FPT           | 850           |
| PZAPT10SH7    |              |               |              |               | 460     | 3     | 60    |                 | 18.6    | 125     |           | 1.5     |              | 2.8     | 29  | 45  |                |                     |               |
| PZAPT10SI7    |              |               |              |               | 575     | 3     | 60    |                 | 13.1    | 80      |           | 1.72    |              | 1.5     | 21  | 30  |                |                     |               |

## Capacity Table (Refrigerant R454A)

| Model | COMPRESSOR | AMB (°F) | 80       |      |      | 90   |      |      | 95   |      |      | 100  |      |      | 105  |      |      |
|-------|------------|----------|----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|       |            |          | LWT (°F) | TONS | KW   | EER  | TONS | KW   | EER  | TONS | KW   | EER  | TONS | KW   | EER  | TONS | KW   |
| 10S   | YB68KAE    | 42       | 10.6     | 9.7  | 13.1 | 10.0 | 10.7 | 11.3 | 9.7  | 11.2 | 10.4 | 9.3  | 11.7 | 9.6  | 9.0  | 12.3 | 8.8  |
|       |            | 44       | 11.1     | 9.8  | 13.6 | 10.4 | 10.7 | 11.7 | 10.1 | 11.2 | 10.8 | 9.8  | 11.7 | 10.0 | 9.4  | 12.3 | 9.2  |
|       |            | 45       | 11.3     | 9.8  | 13.9 | 10.6 | 10.7 | 11.9 | 10.3 | 11.2 | 11.0 | 9.9  | 11.7 | 10.1 | 9.6  | 12.3 | 9.3  |
|       |            | 50       | 12.5     | 9.9  | 15.2 | 11.8 | 10.8 | 13.1 | 11.4 | 11.3 | 12.1 | 11.0 | 11.8 | 11.2 | 10.6 | 12.4 | 10.3 |

- Capacities on this chart are based on refrigerant R454C. 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**

