

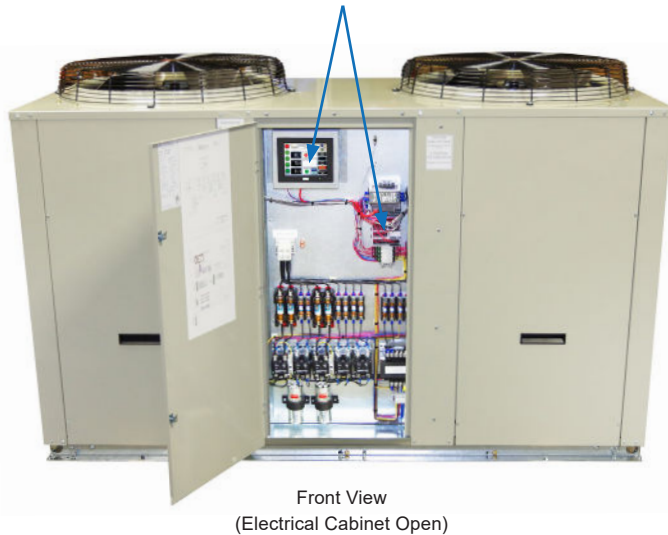
# PRODUCT DATA SHEET

Model: **PZA15D**  
*Packaged Air-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.



Front View  
(Electrical Cabinet Open)



Side/Front  
View

Process  
Fluid Inlet

Process  
Fluid Outlet

**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 22.2 # 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 by-pass capacity control**
- **24V control transformer**
- Direct drive condenser fan motor
- Rust resistant, high CFM, aluminum condenser fan blade
- Condenser(s): copper tube/aluminum fin
- Compressor motor contactor
- Condenser motor and control circuit fusing
- **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 Control (Hot Gas Bypass Removed)**
- **Copeland Digital Scroll Compressor (Hot Gas Bypass Removed)**
- **Remote Idec touchscreen control panel**
- **5 Port Ethernet Switch**
- **BacNet Gateway**
- **STAINLESS STEEL Process Pump**
- **Process Pump VFD Controller**
- 4 year extended compressor warranty
- Casters (factory mounted)
- 115 volt (rain tight) service outlet
- Non Fused Disconnect
- Phase/voltage monitor
- Compressor fusing
- Compressor Sound Cover
- Flooded cond. w/receiver/head pressure control (0°F)
- Flooded cond. w/**Heated** receiver/head pressure control (-20°F)
- Pump suction isolation valve(s)
- Water pressure gauge set
- Copper finned condenser coil (coastal protection)
- Coastal powder coat paint protection
- E-Coat Condenser Coil (coastal protection)
- Water Flow Meter
- Auto city water changeover panel with filter
- Stainless steel, SCH80 PVC or Polypropylene piping for deionize and reverse osmosis water systems
- Door Mounted HMI weather proof cover

# PRODUCT DATA SHEET

**Model: PZA15D**  
*Packaged Air-Cooled*  
*15 Ton Chiller*



Legacy Chillers, Inc.  
 851 Tech Drive  
 Telford, PA 18969  
 Toll-Free: (877) 988-5464

## Dimensional & Electrical Table (Dual Circuit)

| Chiller Model | Nominal BTUH | Length Inches | Width Inches | Height Inches | Power   |       |       | Compressor Qty. | RLA ea. | LRA ea. | Fan Motor |         | MCA | MOP | Chiller Fluid Conn. | Weight Pounds |
|---------------|--------------|---------------|--------------|---------------|---------|-------|-------|-----------------|---------|---------|-----------|---------|-----|-----|---------------------|---------------|
|               |              |               |              |               | Voltage | Phase | Freq. |                 |         |         | Qty.      | FLA ea. |     |     |                     |               |
| PZA15DF7      | 185200       | 85            | 40           | 50            | 208/230 | 3     | 60    | 2               | 30.8    | 195     | 2         | 3.8     | 77  | 100 | 1.25 "FPT           | 985           |
| PZA15DH7      |              |               |              |               | 460     | 3     | 60    |                 | 16      | 95      |           | 39      | 50  |     |                     |               |
| PZA15DI7      |              |               |              |               | 575     | 3     | 60    |                 | 12.2    | 80      |           | 31      | 40  |     |                     |               |

## 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   |
| 15D   | YB51KAE    | 42       | 16.0     | 14.2 | 13.5 | 15.0 | 15.7 | 11.5 | 14.5 | 16.5 | 10.6 | 14.0 | 17.3 | 9.7  | 13.5 | 18.2 | 8.9  |
|       |            | 44       | 16.6     | 14.3 | 14.0 | 15.6 | 15.7 | 11.9 | 15.1 | 16.5 | 11.0 | 14.6 | 17.3 | 10.1 | 14.1 | 18.2 | 9.3  |
|       |            | 45       | 17.0     | 14.3 | 14.3 | 16.0 | 15.7 | 12.2 | 15.4 | 16.5 | 11.2 | 14.9 | 17.4 | 10.3 | 14.4 | 18.3 | 9.4  |
|       |            | 50       | 18.8     | 14.4 | 15.7 | 17.7 | 15.8 | 13.4 | 17.1 | 16.7 | 12.3 | 16.5 | 17.5 | 11.3 | 15.9 | 18.4 | 10.4 |

- 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

