

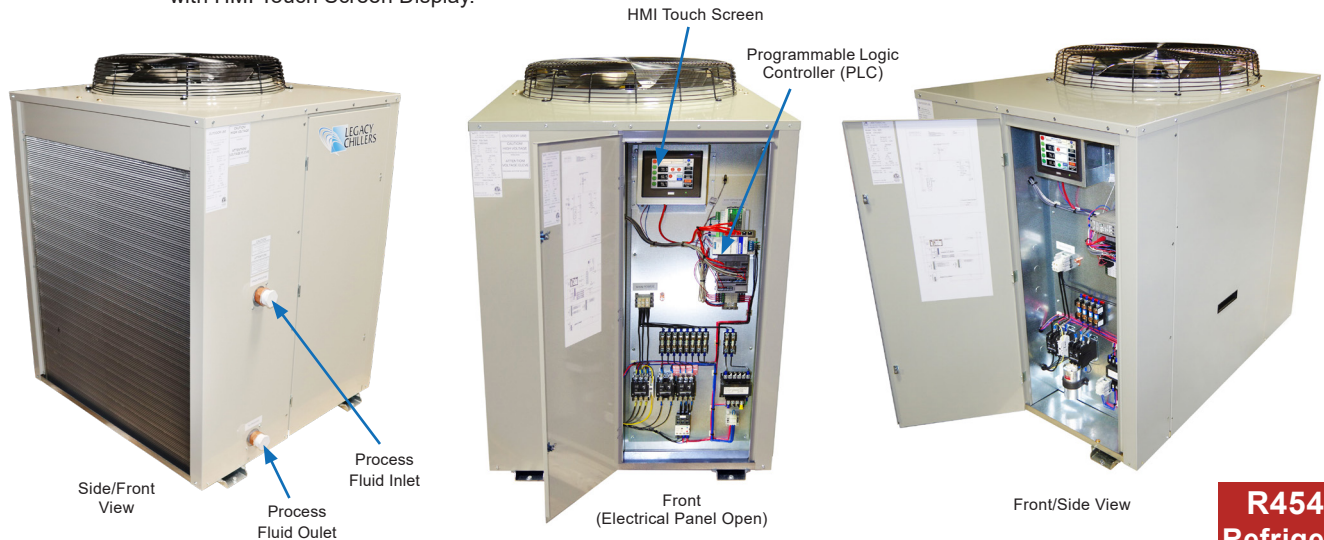
# PRODUCT DATA SHEET

Model: **PZA2S**  
*Packaged Air-Cooled  
2 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.



**R454C  
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

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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 |         | MCA | MOP | Chiller Fluid Conn. | Weight Pounds |
|---------------|--------------|---------------|--------------|---------------|---------|-------|-------|-----------------|---------|---------|-----------|---------|-----|-----|---------------------|---------------|
|               |              |               |              |               | Voltage | Phase | Freq. |                 |         |         | Qty.      | FLA ea. |     |     |                     |               |
| PZA2SE8       | 23700        | 36            | 34           | 44            | 208/230 | 1     | 60    | 1               | 16      | 73      | 1         | 3.8     | 24  | 35  | 1 "FPT              | 265           |
| PZA2SF8       |              |               |              |               | 208/230 | 3     | 60    |                 | 9       | 63      |           | 3.8     | 15  | 20  |                     |               |
| PZA2SH8       |              |               |              |               | 460     | 3     | 60    |                 | 4.5     | 31      |           | 1.5     | 7   | 15  |                     |               |

## Capacity Table (Refrigerant R454C)

| 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  |
| 2S    | YB15KSE    | 42       | 2.0      | 2.4  | 10.4 | 1.9 | 2.6  | 8.9  | 1.9 | 2.7  | 8.3 | 1.8 | 2.8  | 7.7 | 1.7 | 2.9  | 7.1 |
|       |            | 44       | 2.1      | 2.4  | 10.8 | 2.0 | 2.6  | 9.3  | 1.9 | 2.7  | 8.6 | 1.9 | 2.8  | 8.0 | 1.8 | 2.9  | 7.4 |
|       |            | 45       | 2.2      | 2.4  | 11.0 | 2.0 | 2.6  | 9.5  | 2.0 | 2.7  | 8.8 | 1.9 | 2.8  | 8.2 | 1.8 | 2.9  | 7.6 |
|       |            | 50       | 2.4      | 2.4  | 12.2 | 2.3 | 2.6  | 10.5 | 2.2 | 2.7  | 9.8 | 2.1 | 2.8  | 9.1 | 2.1 | 2.9  | 8.4 |

- 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

**R454C  
 Refrigerant**

