

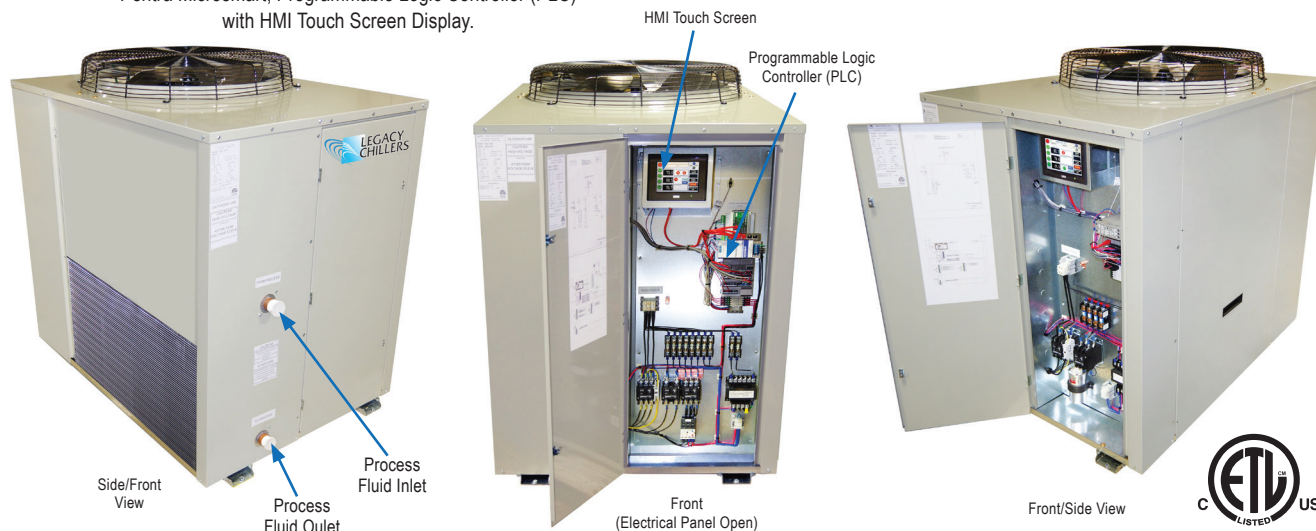
# PRODUCT DATA SHEET

Model: **PZA1S**  
*Packaged Air-Cooled  
1 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.



## Standard Features:

- ETL listed to UL1995 & CAN/CSA C22.2 No. 236-11, 4th edition, 10/14/2011
- 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
- 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
- Liquid line drier, sight glass, solenoid, TXV
- Complete refrigerant charge from factory
- Factory Performance Test prior to shipment

**Easy to Use  
Touch Screen Display  
on all Legacy Chiller  
Models**



## Options:

- Copeland Digital Scroll Compressor (*Hot Gas Bypass Removed*)
- Remote Idec touchscreen control panel
- Industrial VPN Router
- 5 Port Ethernet Switch
- BacNet Gateway
- STAINLESS STEEL Process Pump
- Process Pump VFD Controller
- VFD Compressor Control (*Hot Gas Bypass Removed*)
- 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)
- Dual process pumps with auto changeover
- 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 with weather proof cover

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## Dimensional & Electrical Table (Single Circuit)

| Chiller Models | Length Inches | Width Inches | Height Inches | Power    |       |       | Compressor |     | RLA ea. | LRA ea. | Fan Motor |      | MCA | M.O.P | Chiller Fluid Conn. | Weight Pounds |
|----------------|---------------|--------------|---------------|----------|-------|-------|------------|-----|---------|---------|-----------|------|-----|-------|---------------------|---------------|
|                |               |              |               | Voltage  | Phase | Freq. | Qty.       | HP  |         |         | Qty.      | FLA. |     |       |                     |               |
| PZA1SE5        | 36            | 34           | 44            | 208/230V | 1     | 60Hz  | 1          | 1.3 | 8.3     | 40.3    | 1         | 3.8  | 15  | 20    | 1" FPT              | 260           |

## Capacity Table (Refrigerant R407C)

| Model | Compressor | LWT °F | 80°F |     |     | 90°F |     |     | 95°F |     |     | 100°F |     |     | 105°F |     |     |
|-------|------------|--------|------|-----|-----|------|-----|-----|------|-----|-----|-------|-----|-----|-------|-----|-----|
|       |            |        | TONS | KW  | EER | TONS | KW  | EER | TONS | KW  | EER | TONS  | KW  | EER | TONS  | KW  | EER |
| 1S    | ZR16K5E    | 42.0   | 1.2  | 1.2 | 7.5 | 1.2  | 1.3 | 6.8 | 1.1  | 1.4 | 6.3 | 1.1   | 1.4 | 6.0 | 1.1   | 1.5 | 5.6 |
|       |            | 44.0   | 1.3  | 1.2 | 7.7 | 1.2  | 1.3 | 6.9 | 1.2  | 1.4 | 6.5 | 1.1   | 1.4 | 6.2 | 1.1   | 1.5 | 5.8 |
|       |            | 45.0   | 1.3  | 1.2 | 7.8 | 1.2  | 1.3 | 7.0 | 1.2  | 1.4 | 6.6 | 1.2   | 1.4 | 6.3 | 1.1   | 1.5 | 5.9 |
|       |            | 50.0   | 1.4  | 1.2 | 8.4 | 1.3  | 1.3 | 7.5 | 1.3  | 1.4 | 7.1 | 1.3   | 1.5 | 6.7 | 1.2   | 1.6 | 6.3 |

- Capacities on this chart are based on refrigerant R407C. 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

