

PRODUCT DATA SHEET

Model: **PZA43D**
Packaged Air-Cooled
43 Ton Chiller



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



Access Door

STANDARD ON ALL LEGACY CHILLER MODELS:

Pentra Microsmart, Programmable Logic Controller (PLC) with HMI Touch Screen Display. (Located inside front electrical cabinet)



Access Door

Electrical Cabinet

Access Door

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
- 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**

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
- Door Mounted HMI with weather proof cover

Easy to Use
Touch Screen Display
on all Legacy Chiller
Models



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Dimensional & Electrical Table (Dual Circuit)

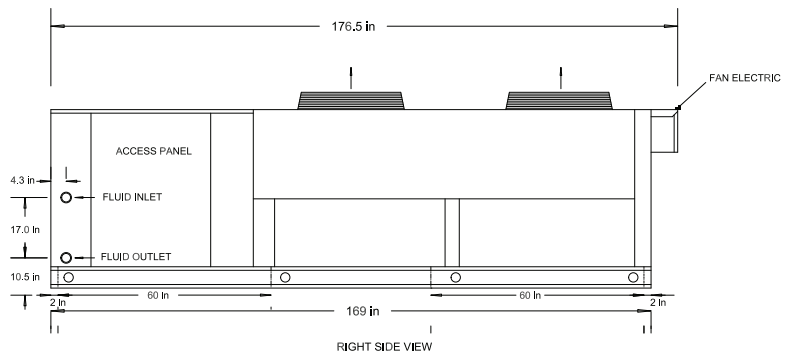
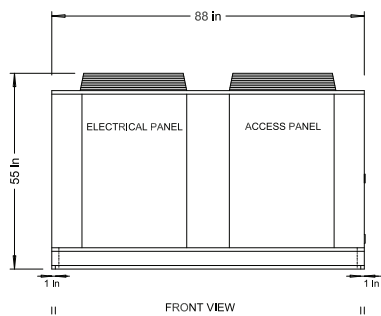
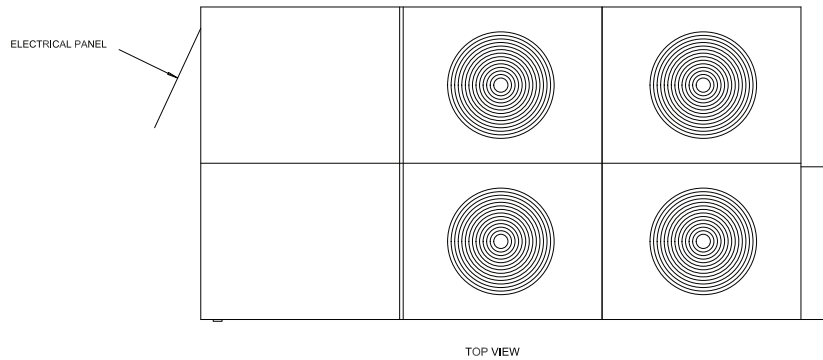
| Chiller Models | Length Inches | Width Inches | Height Inches | Power | | | Compressor | | RLA ea. | LRA ea. | Fan Motor | | MCA | M.O.P | Chiller Fluid Conn. | Weight Pounds |
|----------------|---------------|--------------|---------------|----------|-------|-------|------------|----|---------|---------|-----------|------|-----|-------|---------------------|---------------|
| | | | | Voltage | Phase | Freq. | Qty. | HP | | | Qty. | FLA. | | | | |
| PZA43DF5 | 176.5 | 88 | 55 | 208/230V | 3 | 60Hz | 2 | 25 | 89.7 | 500 | 4 | 7 | 250 | 300 | 2.5" FPT | 4900 |
| PZA43DH5 | | | | 460V | 3 | 60Hz | | | 43.6 | 250 | | 3.5 | 125 | 150 | | |
| PZA43DI5 | | | | 575V | 3 | 60Hz | | | 32.7 | 198 | | 2.8 | 90 | 110 | | |

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 |
| 43D | ZR300KCE | 42.0 | 42.8 | 37.7 | 11.5 | 41.1 | 41.4 | 10.2 | 40.2 | 43.4 | 9.6 | 39.3 | 45.4 | 9.0 | 38.4 | 47.7 | 8.4 |
| | | 44.0 | 44.2 | 38.1 | 11.8 | 42.5 | 41.8 | 10.5 | 41.6 | 43.7 | 9.8 | 40.8 | 45.8 | 9.3 | 39.8 | 48.1 | 8.7 |
| | | 45.0 | 45.0 | 38.3 | 11.9 | 43.3 | 42.0 | 10.6 | 42.3 | 74.0 | 10.0 | 41.8 | 46.0 | 9.4 | 40.4 | 18.3 | 8.8 |
| | | 50.0 | 48.8 | 39.4 | 12.6 | 46.8 | 43.0 | 11.2 | 45.8 | 44.9 | 10.6 | 44.9 | 46.8 | 10.0 | 43.8 | 49.2 | 9.4 |

- 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



Qty 8 Mounting
 .438 Dia