PRODUCT DATA SHEET

Model: PZA52D

Packaged Air-Cooled 52 Ton Chiller



Legacy Chillers, Inc.

851 Tech Drive Telford, PA 18969

Toll-Free: (877) 988-5464



Electrical Cabinet

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

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
- · Door Mounted HMI with weather proof cover

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Dimensional & Electrical Table (Dual Circuit)

| Chiller Models | Length Inches | Width Inches | Height Inches | Power | | | Compressor | | RLA | LRA | Fan Motor | | | | Chiller | Weight |
|-------------------|------------------|-----------------|------------------|----------|-------|-------|------------|----|------|-----|-----------|------|-----|-------|----------------|--------|
| | | | | Voltage | Phase | Freq. | Qty. | НР | ea. | ea. | Qty. | FLA. | MCA | M.O.P | Fluid Conn. | Pounds |
| PZA52DF5 | | 88 | 55 | 208/230V | 3 | 60Hz | 2 | 30 | 109 | 599 | 4 | 7 | 300 | 350 | 3" FPT | 5200 |
| PZA52DH5 | 176.5 | | | 460V | 3 | 60Hz | | | 53.2 | 310 | | 3.5 | 150 | 175 | | |
| PZA52DI5 | | | | 575V | 3 | 60Hz | | | 42.3 | 239 | | 2.8 | 110 | 125 | | |

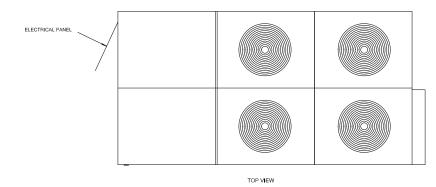
Capacity Table (Refrigerant R407C)

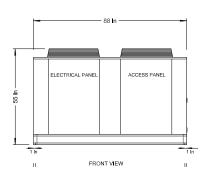
| Model | Compressor | LWT °F | 80°F | | | 90°F | | | 95°F | | | 100°F | | | 105°F | | |
|-------|------------|-----------|------|------|------|------|------|------|----------|----------|---------|-------------------------|----------|---------|-------------------------|---------|---------|
| | | | TONS | KW | EER | TONS | KW | EER | TONS | KW | EER | TONS | KW | EER | TONS | KW | EER |
| 52D | ZR380KCE | 20.0 | 30.8 | 44.0 | 9.3 | 28.3 | 49.6 | 7.7 | Out of C | ompresso | r Range | Out of C | ompresso | r Range | Out of Co | mpresso | r Range |
| | | 25.0 | 35.3 | 44.4 | 10.4 | 32.5 | 49.8 | 8.6 | 31.2 | 53.0 | 7.8 | Out of Compressor Range | | | Out of Compressor Range | | |
| | | 30.0 | 40.2 | 45.0 | 11.5 | 37.2 | 50.4 | 9.6 | 35.7 | 53.2 | 8.8 | 34.2 | 56.4 | 8.0 | Out of Co | mpresso | r Range |
| | | 35.0 | 45.3 | 45.6 | 12.7 | 41.2 | 50.8 | 10.7 | 40.5 | 53.8 | 9.8 | 38.8 | 57.0 | 8.9 | 37.2 | 60.4 | 8.1 |
| | | 42.0 | 53.3 | 48.4 | 11.9 | 49.8 | 53.2 | 10.1 | 48.0 | 56.1 | 9.4 | 46.0 | 58.8 | 8.9 | 44.2 | 61.5 | 8.2 |
| | | 44.0 | 55.7 | 49.1 | 12.1 | 52.1 | 54.1 | 10.3 | 50.2 | 56.7 | 9.6 | 48.2 | 59.3 | 9.0 | 46.2 | 62.0 | 8.4 |
| | | 45.0 | 57.0 | 49.0 | 12.3 | 53.3 | 54.5 | 10.4 | 51.3 | 56.9 | 9.7 | 49.3 | 59.5 | 9.1 | 47.3 | 62.2 | 8.5 |
| | | 50.0 | 63.3 | 50.5 | 12.9 | 59.3 | 55.5 | 11.0 | 57.2 | 58.4 | 10.4 | 55.0 | 59.9 | 9.8 | 52.8 | 63.4 | 9.1 |

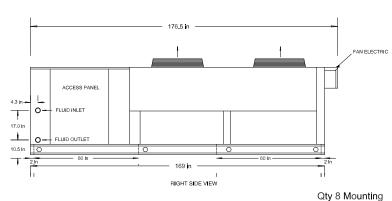
- 1. Capacities on this chart are based on refrigerant R407C. Lower leaving water or low ambient can require the use of a glycol solution or other fluid blends. These solutions affect unit capacities. Please consult the factory on these or other special fluids.
- 2. KW input is for compressor(s) only.
- 3. EER = Energy Efficiency Ratio (BTU/watt-hour). Power inputs include compressor (s), condenser fan motor (s) and control power.

Product Dimensional Drawing









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