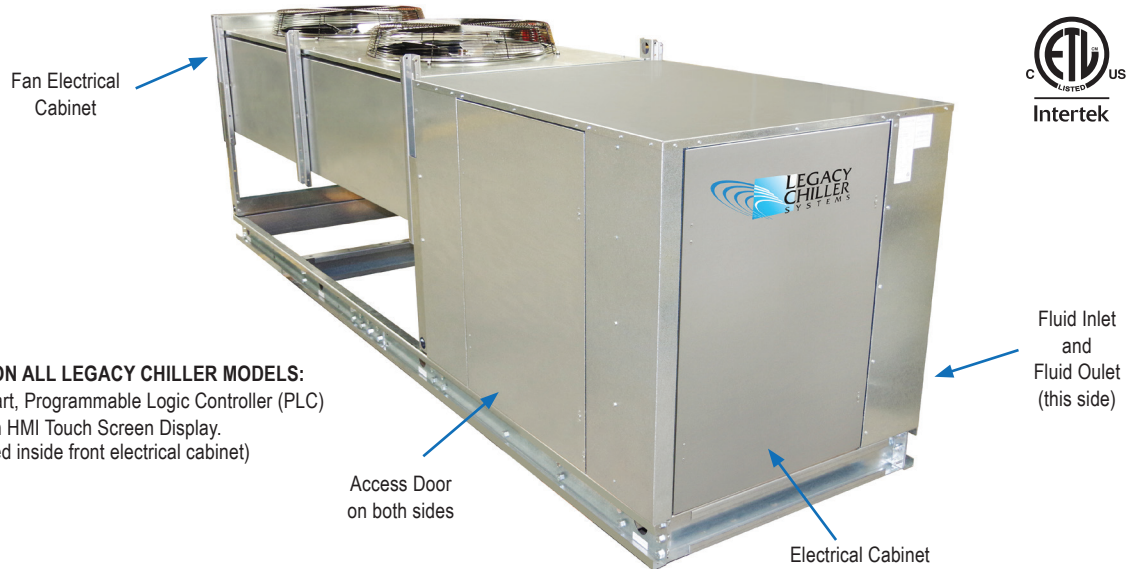


PRODUCT DATA SHEET

Model: **PZA18M**
Packaged Air-Cooled
18 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.
(Located inside front 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**
- Data Recording Memory Card
- **STAINLESS STEEL**, brazed plate evaporator
- **Scroll** compressor with crankcase heater
- **Suction accumulator**
- **Water flow switch**
- **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
- Galvanized sheet metal cabinet & frame
- Complete refrigerant charge from factory
- **Factory Performance Test prior to shipment**

Options:

- **Remote Idec touchscreen control panel**
- **Industrial VPN Router**
- **5 Port Ethernet Switch**
- **BacNet Gateway**
- **Process Pump VFD Controller**
- **VFD Compressor Control** on primary compressor
- EC Condenser Fan Motors (micro processor controlled)
- Non Fused Disconnect
- 4 year extended compressor warranty
- 115 volt (rain tight) service outlet
- Non Fused Disconnect
- Phase Monitor, line voltage monitor offering protection against phase loss/reversal, unbalance and hi/lo voltage
- Hot gas by-pass capacity control
- Compressor fusing
- Compressor Sound Cover
- Flooded cond. w/receiver/head pressure control (0°F)
- Heated, flooded cond. w/receiver/head pressure control (-20°F)
- Factory installed evaporator heat tape freeze protection
- Fused, STAINLESS STEEL process pump
- Dual process pump with manual changeover
- Dual process pump with auto changeover
- Pump suction isolation valve
- Water pressure gauge set
- Water Flow Meter
- Copper finned condenser coil (coastal protection)
- BohnGuard™ coated condenser coil (coastal protection)
- Epoxy or Phenolic coated fins (coastal protection)
- 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

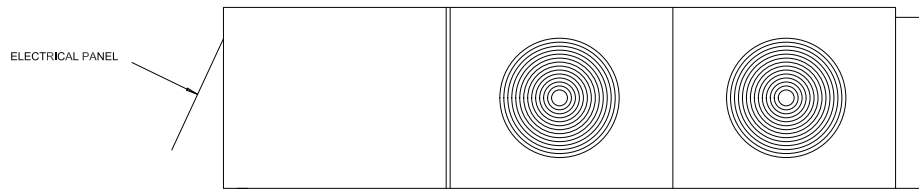
| Chiller Models | Length Inches | Width Inches | Height Inches | Power | | | Compressor | | RLA ea. | LRA ea. | Fan Motor | | MCA | M.O.P | Chiller Fluid Conn. | Weight Pounds |
|----------------|---------------|--------------|---------------|----------|-------|-------|------------|----|---------|---------|-----------|------|------|-------|---------------------|---------------|
| | | | | Voltage | Phase | Freq. | Qty. | HP | | | Qty. | FLA. | | | | |
| PZA18MF5 | 176.5 | 45.5 | 55 | 208/230V | 3 | 60Hz | 4 | 5 | 18.6 | 128 | 2 | 7 | 93.1 | 110 | 1.5" FPT | 3400 |
| PZA18MH5 | | | | 460V | 3 | 60Hz | | | 8.0 | 63 | | 3.5 | 41.0 | 45 | | |
| PZA18MI5 | | | | 575V | 3 | 60Hz | | | 6.3 | 50 | | 2.8 | 32.4 | 35 | | |

Capacity Table (Refrigerant R407C)

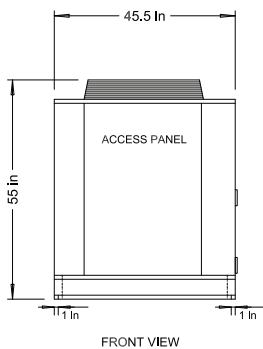
| Model | Compressor | LWT °F | 80°F | | | 90°F | | | 95°F | | | 100°F | | | 105°F | | |
|-------|------------|--------|------|------|------|------|------|------|-------------|-------------|-------------|-------|------|------|-------|------|-----|
| | | | TONS | KW | EER | TONS | KW | EER | TONS | KW | EER | TONS | KW | EER | TONS | KW | EER |
| 18M | ZB38KCE | 20.0 | 10.4 | 14.3 | 7.2 | | | | | | | | | | | | |
| | | 25.0 | 11.8 | 14.4 | 8.1 | 11.0 | 16.2 | 6.9 | | | | | | | | | |
| | | 30.0 | 13.2 | 14.5 | 9.0 | 12.4 | 16.3 | 7.8 | 12.0 | 17.3 | 7.2 | | | | | | |
| | | 35.0 | 14.8 | 14.6 | 10.0 | 13.9 | 16.4 | 8.7 | 13.4 | 17.4 | 8.1 | 13.0 | 18.4 | 7.4 | 12.5 | 19.6 | 7.2 |
| | | 42.0 | 17.3 | 14.8 | 11.8 | 16.3 | 16.5 | 10.3 | 15.8 | 17.5 | 9.5 | 15.2 | 18.6 | 8.8 | 14.7 | 19.7 | 8.2 |
| | | 44.0 | 18.0 | 14.8 | 12.3 | 17.0 | 16.6 | 10.7 | 16.5 | 17.6 | 10.0 | 15.9 | 18.6 | 9.3 | 15.3 | 19.8 | 8.6 |
| | | 45.0 | 18.3 | 14.8 | 12.5 | 17.3 | 16.6 | 10.9 | 16.8 | 17.6 | 10.2 | 16.3 | 18.6 | 9.4 | 15.7 | 19.8 | 8.7 |
| 50.0 | 20.3 | 15.0 | 13.7 | 19.3 | 16.7 | 12.0 | 18.6 | 17.7 | 11.2 | 18.1 | 18.8 | 10.4 | 17.5 | 19.9 | 9.7 | | |

- 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.

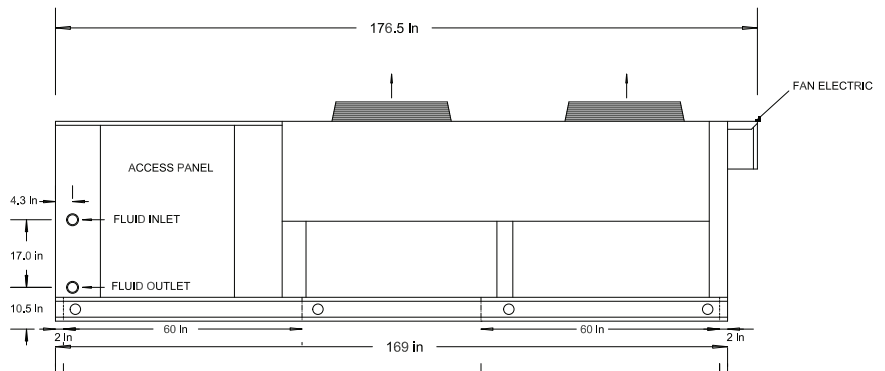
Product Dimensional Drawing



TOP VIEW



FRONT VIEW



RIGHT SIDE VIEW