

PRODUCT DATA SHEET

Model: **PSA37D**

*Packaged Air-Cooled
37 Ton Chiller*



Legacy Chiller Systems

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
- **SEMI-HEMETIC** compressor with crankcase heater and vibration spring mounting kit
- Compressor discharge and suction pipe vibration eliminators
- Suction Accumulator
- Liquid sight-glass, solenoid, TXV and replaceable core drier
- Water flow switch
- 24V control transformer
- Fan cycle control (+40°F)
- Direct drive condenser fan motor
- Rust resistant, high CFM, aluminum condenser fan blade
- Condenser(s): copper tube/aluminum fin, Floating Tube™
- **5 year condenser warranty against tube sheet leaks**
- Compressor motor contactor
- Individual condenser motor contactors and fusing
- Condenser control panel with factory mounted door interrupt disconnect switch
- Galvanized steel sheet metal cabinet
- 1/2 inch insulation on all water and refrigerant lines
- Operating Refrigerant charge from factory
- **Factory Performance Test prior to shipment**
- **Extended warranty:** See your quote or latest IOM booklet revision



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

Options:

- **Remote Idec touchscreen control panel**
- **Industrial VPN Router**
- **5 Port Ethernet Switch**
- **BacNet Gateway**
- **Process Pump VFD Controller**
- 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
- 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

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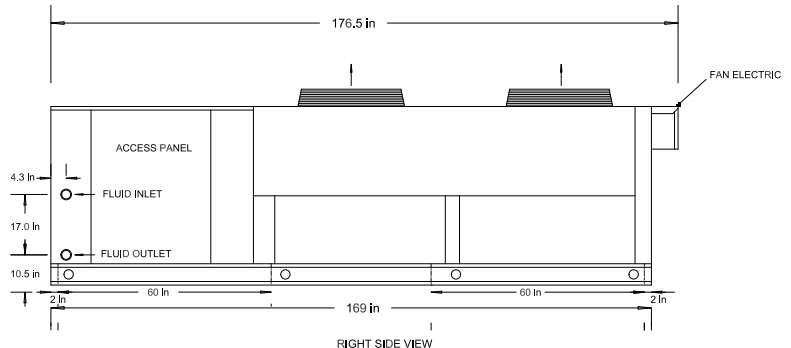
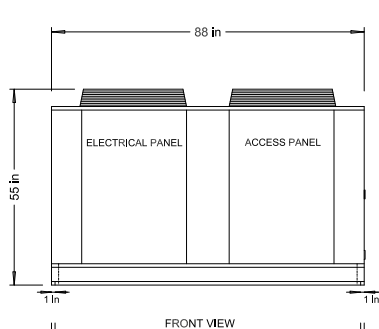
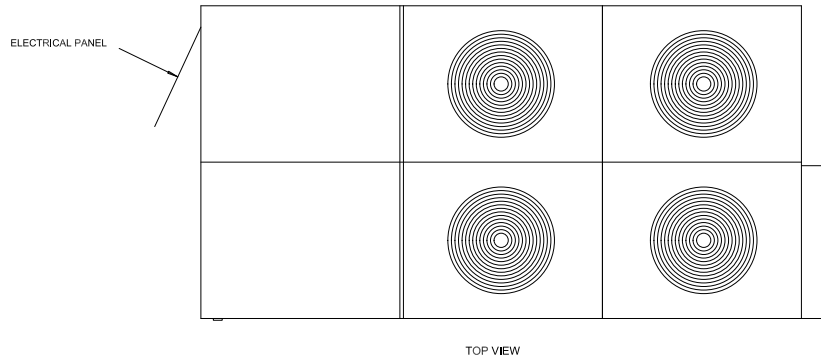
Dimensional & Electrical Table (Dual Circuit)

| 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. | | | | |
| PSA37DF5 | 176.5 | 88 | 55 | 208/230V | 3 | 60Hz | 2 | 20 | 96.2 | 428 | 4 | 7 | 250 | 300 | 2" FPT | 4900 |
| PSA37DH5 | | | | 460V | 3 | 60Hz | | | 48.1 | 214 | | 3.5 | 125 | 150 | | |
| PSA37DI5 | | | | 575V | 3 | 60Hz | | | 34.8 | 172 | | 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 |
| 37D | 4DHNR22ME | 42.0 | 41.0 | 37.5 | 10.6 | 36.8 | 40.2 | 9.0 | 34.8 | 41.4 | 8.3 | 32.8 | 42.6 | 7.6 | 31.1 | 43.8 | 7.0 |
| | | 44.0 | 43.2 | 38.0 | 11.0 | 38.7 | 40.8 | 9.3 | 36.5 | 42.0 | 8.6 | 34.3 | 43.4 | 7.8 | 32.5 | 44.6 | 7.2 |
| | | 45.0 | 44.2 | 38.3 | 11.2 | 39.5 | 41.0 | 9.5 | 37.3 | 42.4 | 8.7 | 35.2 | 43.6 | 8.0 | 33.3 | 44.8 | 7.4 |
| | | 50.0 | 50.2 | 40.8 | 12.3 | 44.7 | 42.6 | 10.3 | 42.0 | 44.0 | 9.5 | 39.5 | 45.4 | 8.7 | 37.2 | 46.6 | 8.0 |

Product Dimensional Drawing



Qty 8 Mounting
 .438 Dia