

PRODUCT DATA SHEET

Model: **PSA88D**

*Packaged Air-Cooled
88 Ton Chiller*



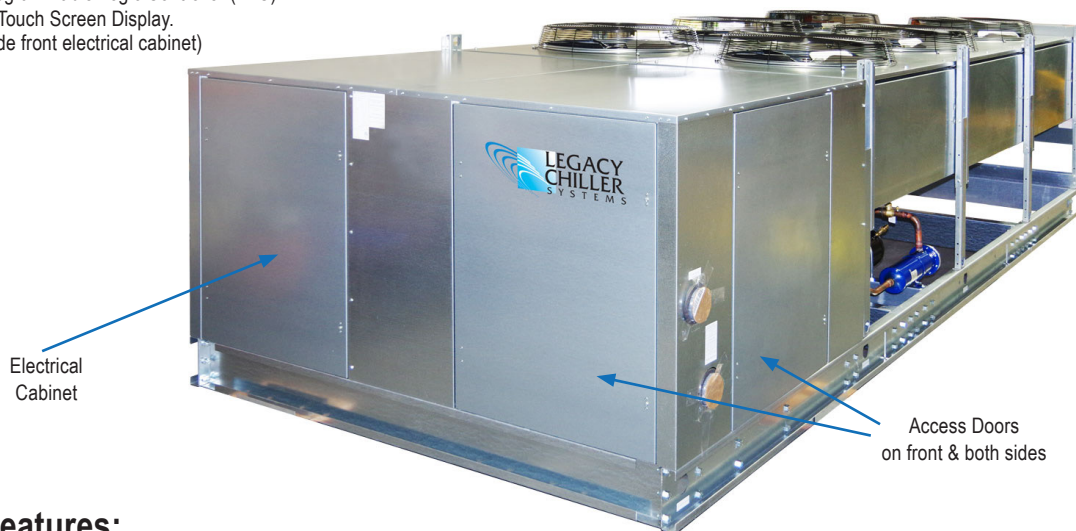
Legacy Chiller Systems

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
- 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 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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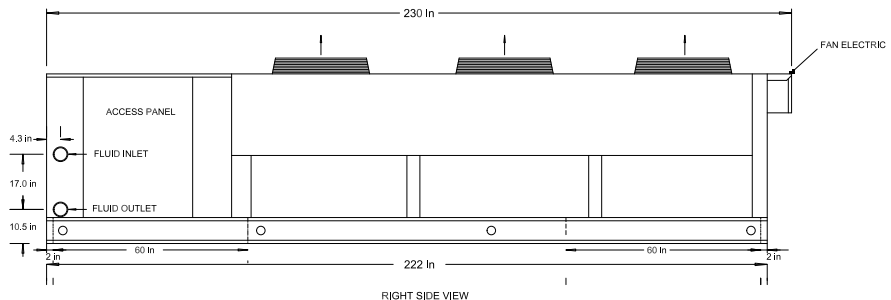
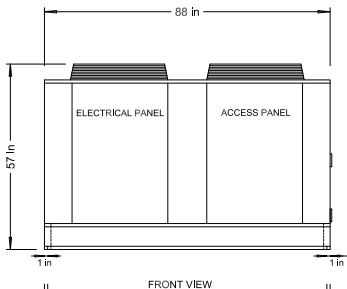
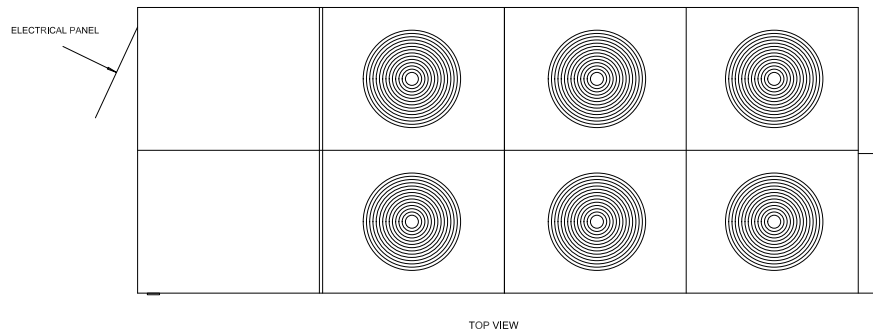
Dimensional & Electrical Table (Dual Circuit)

| 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. | | | | |
| PSA88DF5 | 230 | 88 | 57 | 208/230V | 3 | 60Hz | 2 | 60 | 201.3 | 1070 | 6 | 7 | 500 | 600 | 4" FPT | 6700 |
| PSA88DH5 | | | | 460V | 3 | 60Hz | | | 100.6 | 535 | | 3.5 | 250 | 300 | | |
| PSA88DI5 | | | | 575V | 3 | 60Hz | | | 71.8 | 405 | | 2.8 | 200 | 250 | | |

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 |
| 88D | 8DS3R67M | 42.0 | 94.3 | 100.0 | 9.9 | 88.2 | 107.4 | 8.7 | 85.2 | 111.0 | 8.3 | 82.3 | 114.6 | 7.6 | 79.4 | 117.8 | 7.2 |
| | | 44.0 | 98.2 | 101.0 | 10.2 | 92.0 | 109.0 | 8.9 | 88.8 | 112.6 | 8.5 | 85.9 | 116.2 | 7.9 | 82.9 | 119.8 | 7.3 |
| | | 45.0 | 100.3 | 101.6 | 10.3 | 93.8 | 109.6 | 9.1 | 90.7 | 113.4 | 8.7 | 87.6 | 117.2 | 8.0 | 84.6 | 120.8 | 7.4 |
| | | 50.0 | 100.5 | 104.0 | 11.1 | 95.7 | 113.0 | 9.7 | 100.1 | 117.2 | 9.1 | 96.8 | 121.4 | 8.5 | 93.7 | 125.7 | 7.9 |

Product Dimensional Drawing



Qty 8 Mounting
 .438 Dia