# PRODUCT DATA SHEET

Model: PSA45D

Packaged Air-Cooled 45 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)



Access Door



**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

Access Door

Access Door

- 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 booket 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<sup>™</sup> 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)**

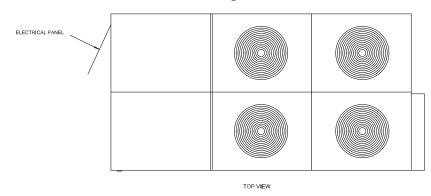
Chiller Models	Length Inches	Width Inches	Height Inches	Power			Compressor		RLA	LRA	Fan Motor				Chiller	Weight
				Voltage	Phase	Freq.	Qty.	НР	ea.	ea.	Qty.	FLA.	MCA	M.O.P	Fluid Conn.	Pounds
PSA45DF5		88	55	208/230V	3	60Hz	2	20	96.2	428	4	7	250	300	2.5" FPT	5100
PSA45DH5	176.5			460V	3	60Hz			48.1	214		3.5	125	150		
PSA45DI5				575V	3	60Hz			34.8	172		2.8	90	110		

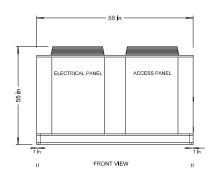
## **Capacity Table (Refrigerant R407C)**

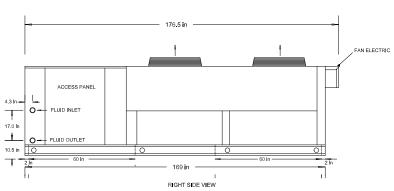
Model	Compressor	LWT °F	80°F			90°F			95°F			100°F			105°F		
			TONS	KW	EER	TONS	KW	EER	TONS	KW	EER	TONS	KW	EER	TONS	KW	EER
45D	6DBNR32ME	42.0	50.8	48.0	10.7	46.8	51.6	9.2	45.2	53.4	8.6	43.8	55.4	8.1	42.7	57.4	7.6
		44.0	52.8	48.2	11.0	48.8	52.2	9.5	47.2	54.2	8.9	45.8	56.2	8.3	44.7	58.4	7.8
		45.0	53.8	48.4	11.2	49.8	52.4	9.7	49.0	54.4	9.0	46.7	56.6	8.5	45.7	58.8	8.0
		50.0	58.5	48.8	12.1	54.3	53.4	10.4	52.8	55.8	9.7	51.5	58.4	9.1	50.0	61.0	8.6

# **Product Dimensional Drawing**









Qty 8 Mounting .438 Dia