PRODUCT DATA SHEET

Model: PSA33D

Packaged Air-Cooled 33 Ton Chiller



Legacy Chillers, Inc.

851 Tech Drive Telford, PA 18969

Toll-Free: (877) 988-5464



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
- **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



Easy to Use Touch Screen Display on all Legacy Chiller Models

Options:

- · Compressor Cylinder Unloading
- 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

Electrical Cabinet

- · 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	LRA	Fan Motor				Chiller	Weight
				Voltage	Phase	Freq.	Qty.	НР	ea.	ea.	Qty.	FLA.	MCA	M.O.P	Fluid Conn.	Pounds
PSA33DF5		88	55	208/230V	3	60Hz	2	17	76.9	374	4	7	225	250	2" FPT	4700
PSA33DH5	176.5			460V	3	60Hz			38.5	187		3.5	110	125		
PSA33DI5				575V	3	60Hz			30.1	135		2.8	80	100		

Capacity Table (Refrigerant R407C)

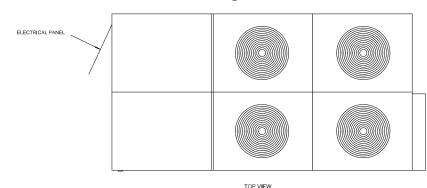
Model	Compressor	LWT °F	80°F			90°F			95°F			100°F			105°F		
			TONS	KW	EER	TONS	KW	EER	TONS	KW	EER	TONS	KW	EER	TONS	KW	EER
33D	4DBNR20ME	42.0	35.7	33.9	10.0	32.5	36.7	8.5	31.0	38.1	7.9	29.5	39.4	7.3	28.1	40.8	6.7
		44.0	37.3	34.2	10.4	34.2	37.2	8.8	32.5	38.6	8.2	31.0	40.0	7.6	29.4	41.4	7.0
		45.0	38.2	34.3	10.6	34.8	37.4	9.0	33.3	38.8	8.3	31.8	40.2	7.7	30.2	41.6	7.1
		50.0	42.7	34.7	11.7	39.2	38.1	9.9	37.5	39.7	9.2	35.7	41.4	8.4	34.0	42.8	7.8

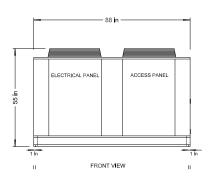
^{1.} Capacities on this chart are based on refrigerant R407C. Lower leaving water or low ambient can require the use of a glycol solution or other fluid blends. These solutions affect unit capacities. Please consult the factory on these or other special fluids.

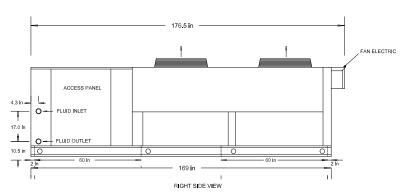
2. KW input is for compressor(s) only.

Product Dimensional Drawing









Qty 8 Mounting 438 Dia

^{3.} EER = Energy Efficiency Ratio (BTU/watt-hour). Power inputs include compressor (s), condenser fan motor (s) and control power.