

# PRODUCT DATA SHEET

Model: PZAT22D

Packaged Air-Cooled  
22 Ton Chiller



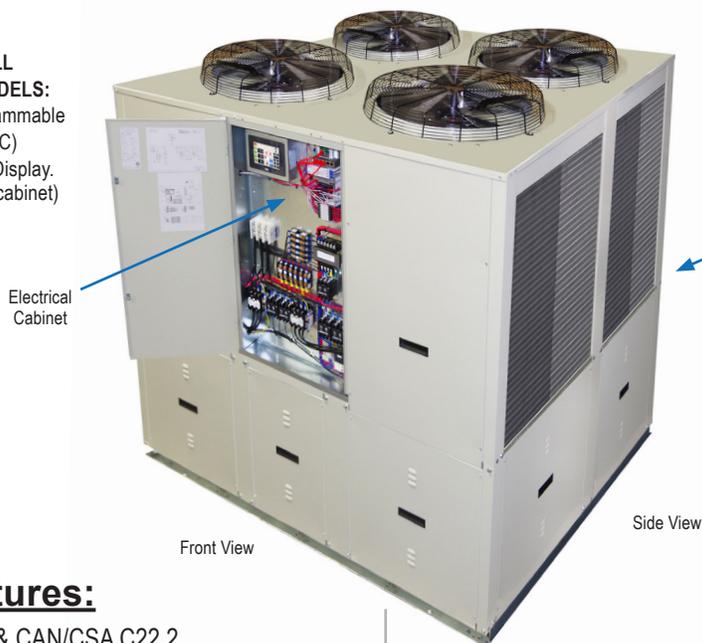
Legacy Chillers, Inc.

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 electrical cabinet)



Process Fluid In &  
Process Fluid Out Connections  
located on the back side.

with  
Stainless Steel  
Tank

## 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 Tank
- Fused, STAINLESS STEEL recirculation pump for tank
- STAINLESS STEEL, brazed plate evaporator
- Scroll compressor with crankcase heater
- Suction accumulator
- Water flow switch
- Hot gas by-pass capacity control
- 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
- Painted (Powder Coated), galvanized sheet metal cabinet
- 1/2" insulation on all water and Low pressure refrigerant lines
- Liquid line drier, sight glass, solenoid, TXV
- Complete refrigerant charge from factory
- Factory Performance Test prior to shipment

## Options:

- Copeland Digital Scroll Compressor (Hot Gas Bypass Removed)
- Remote Idec touchscreen control panel
- Industrial VPN Router
- 5 Port Ethernet Switch
- BacNet Gateway
- STAINLESS STEEL Process Pump
- Process Pump VFD Controller
- VFD Compressor Control (Hot Gas Bypass Removed)
- 4 year extended compressor warranty
- Casters (factory mounted)
- 115 volt (rain tight) service outlet
- Non Fused Disconnect
- Phase/voltage monitor
- Compressor fusing
- Tank Sight Glass
- Compressor Sound Cover
- Flooded cond. w/receiver/head pressure control (0°F)
- Flooded cond. w/Heated receiver/head pressure control (-20°F)
- Dual process pumps with auto changeover
- Pump suction isolation valve(s)
- Water pressure gauge set
- Copper finned condenser coil (coastal protection)
- Coastal powder coat paint protection
- E-Coat Condenser Coil (coastal protection)
- Water Flow Meter
- Auto city water make up solenoid & auto level switch
- Auto city water changeover panel with filter
- Door Mounted HMI with weather proof cover

Easy to Use  
Touch Screen Display  
on all Legacy Chiller Models



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*with Stainless Steel Tank*

**Dimensional & Electrical Table (Dual Circuit)**

Chiller Models	Length Inches	Width Inches	Height Inches	Power			Compressor		RLA ea.	LRA ea.	Fan Motor		Recirculation Pump FLA	MCA	M.O.P	Reservoir Gal.	Chiller Fluid Conn.	Weight Pounds	
				Voltage	Phase	Freq.	Qty.	HP			Qty.	FLA.							
PZAT22DF5	75	66	76	208/230V	3	60Hz	2	13	40.4	300	4	3.8	8.6	114.7	150	120	1.5" FPT	2200	
PZAT22DH5				460V	3	60Hz			22.4	150		1.5		60					80
PZAT22DI5				575V	3	60Hz			18.2	109		1.72		50					60

\* = Requires the use of glycol.

**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
22D	ZB95KCE	42.0	20.9	18.0	12.0	20.0	19.8	10.5	19.4	20.8	9.8	18.9	21.8	9.2	18.5	23.0	8.5
		44.0	21.7	18.2	12.3	20.7	20.0	10.7	20.1	21.0	10.0	19.7	22.0	9.4	19.2	23.2	8.8
		45.0	22.1	18.2	12.5	21.0	20.1	10.9	20.5	21.1	10.2	20.0	22.2	9.6	19.6	23.3	8.9
		50.0	23.8	18.8	13.1	22.8	20.6	11.6	22.1	21.6	10.8	21.7	22.6	10.2	21.3	23.7	9.5

- 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

\*Changes or Modifications Subject to Factory Discretion.

