PRODUCT DATA SHEET

Model: **PZAT1S**

Packaged Air-Cooled
1 Ton Chiller

Legacy Chiller Systems
851 Tech Drive
Telford, PA 18969

Toll-Free: (877) 988-5464

with Stainless Steel Tank

STANDARD ON ALL LEGACY CHILLER MODELS:
Pentra Microsmart, Programmable Logic Controller (PLC) with HMI Touch Screen Display.

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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
- **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**
- **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**
- **VFD Compressor Control**
- 4 year extended compressor warranty
- Casters (factory mounted)
- 115 volt (rain tight) service outlet
- Non Fused Disconnect
- Phase Monitor, line voltage monitor offering protection against phase loss/reversal, unbalance and High/Low voltage
- Compressor fusing
- Compressor Sound Cover
- Flooded cond. w/receiver/head pressure control (0°F)
- Heated, flooded cond. w/receiver/head pressure Water flow meter control (-20°F)
- Dual process pump with auto changeover
- Pump suction isolation valve
- 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
- Stainless steel, SCH80 PVC or Polypropylene piping for deionize and reverse osmosis water systems
- Storage tank sight glass
- Door Mounted HMI with weather proof cover

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Dimensional & Electrical Table

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.						
PZAT1SE5	36	34	68	208/230V	1	60Hz	1	1.3	8.3	40.3	1	3.8	4.2	20	25	20	1" FPT	550

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
1S	ZR16K5E	***42.0**	.98	1.2	7.5	.90	1.3	6.8	.87	1.4	6.3	.83	1.4	6.0	.80	1.5	5.6
		***44.0**	1.0	1.2	7.7	.95	1.3	6.9	**.91**	**1.4**	**6.5**	.88	1.4	6.2	.84	1.5	5.8
		45.0	1.05	1.2	7.8	.98	1.3	7.0	.94	1.4	6.6	.90	1.4	6.3	.86	1.5	5.9
		50.0	1.2	1.2	8.4	1.1	1.3	7.5	1.05	1.4	7.1	1.01	1.5	6.7	.98	1.6	6.3

***** **= Requires the use of glycol.**

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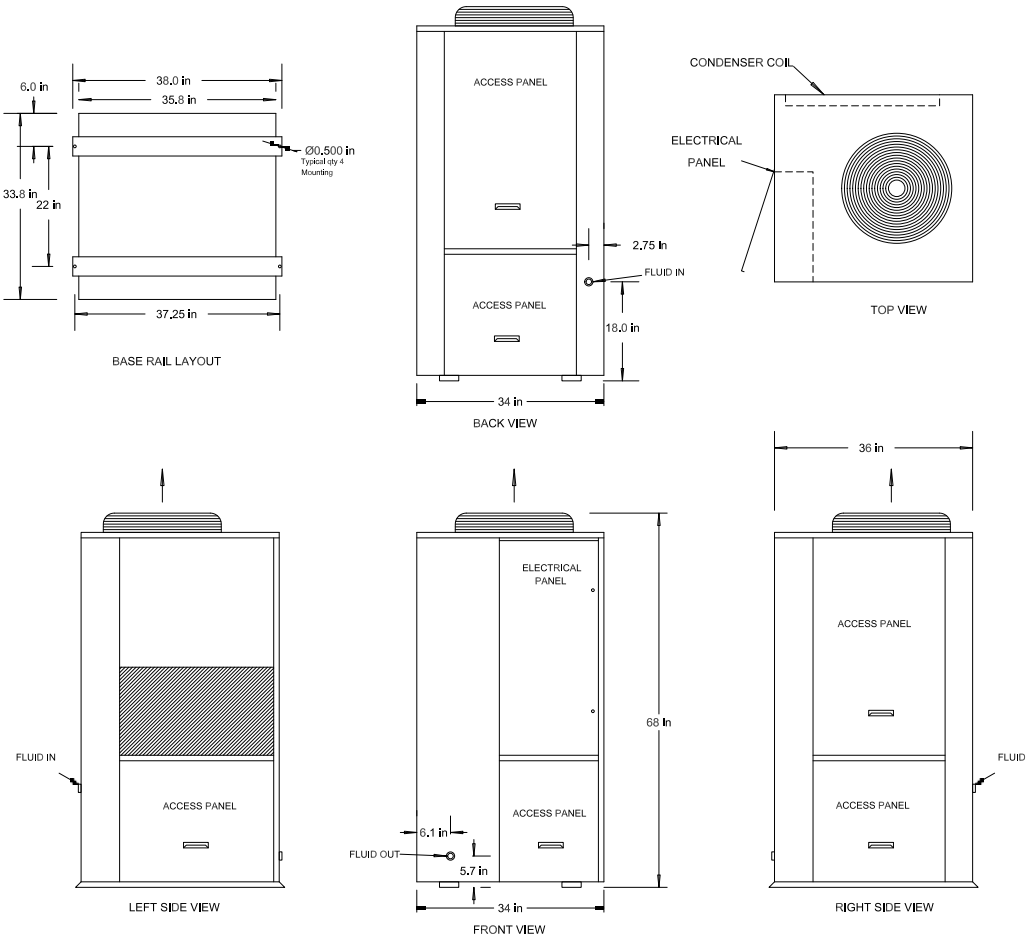
Product Dimensional Drawing



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