

# PRODUCT DATA SHEET

Model: PZWT18D

Packaged Water-Cooled  
18 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.

with Stainless Steel Tank



Idec Microprocessor  
Controller



Connections on Back:  
(2) Condenser Water Inlets  
(2) Condenser Water Outlets  
(1) Process Fluid Inlet  
(1) Process Fluid Outlet

## 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
- Scroll compressor with crankcase heater
- Suction Accumulator
- Water flow switch
- Hot Gas Bypass Capacity Control
- 24V control transformer
- Control circuit fusing
- Condenser(s): Coaxial up to PZW22D
- Compressor motor contactor
- Painted - Powder Coated (Most Models), galvanized sheet metal cabinet
- 1/2" insulation on all water and 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 booklet revision

## Tank

- STAINLESS STEEL storage tank with 1/2 inch insulation
- Fused, STAINLESS STEEL re-circulation pump for tank operation with ball valve and cleanable strainer
- Tank pressure relief valve, vent and drain hose bibs

**Easy to Use  
Touch Screen Display  
on all Legacy Chiller  
Models**



## Options:

- Copeland Digital Scroll Compressor
- 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)
- Condenser water regulating valve
- 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
- Factory installed evaporator heat tape freeze protection
- Low flow by-pass valve
- Fused, STAINLESS STEEL process pump
- Dual system pump with manual changeover (some models)
- Dual system pump with auto changeover (some models)
- Pump suction isolation valve
- Water pressure gauge set
- Water Flow Meter
- Auto city water changeover panel with filter
- Stainless steel, SCH80 PVC or Polypropylene piping for deionized and reverse osmosis water systems
- Door Mounted HMI with weather proof cover

## Tank Options

- Storage tank sight glass
- Tank low liquid level indicator with dry contacts

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## Dimensional & Electrical Table (Dual Circuit)

Chiller Models	Length Inches	Width Inches	Height Inches	Power			Compressor		RLA ea.	LRA ea.	Recirculation Pump FLA	MCA	M.O.P	Reservoir Gal.	Chiller Fluid Conn.	Weight Pounds
				Voltage	Phase	Freq.	Qty.	HP								
PZWT18DF5	85	34	70	208/230V	3	60Hz	2	10	37.2	239	5.6	100	125	120	1.5" FPT	1450
PZWT18DH5				460V	3	60Hz			17.2	125	2.8	50	60			
PZWT18DI5				575V	3	60Hz			12.4	80	1.8	35	45			

## Capacity Table (Refrigerant R407C)

Model	Compressor	LWT °F	105°F Condensing		
			TONS	KW	EER
18D	ZB76KCE	*42.0	15.9	16.0	13.9
		*44.0	16.7	16.1	14.5
		45.0	17.0	16.1	14.8
		50.0	18.9	16.2	16.3

\* = Requires the use of glycol.



## Product Dimensional Drawing

