

# PRODUCT DATA SHEET

Model: **PZA52D**  
*Packaged Air-Cooled*  
*52 Ton Chiller*



**Legacy Chiller Systems**  
851 Tech Drive  
Telford, PA 18969  
**Toll-Free: (877) 988-5464**



Access Door

## 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

Access Door

## 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 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
- 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 booklet revision

## 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
- 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
- Door Mounted HMI with weather proof cover

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



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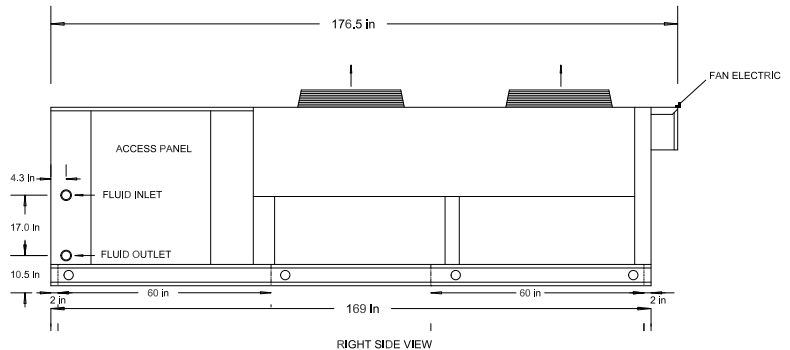
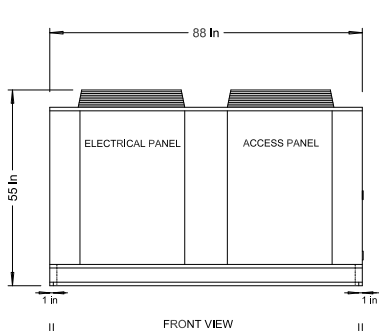
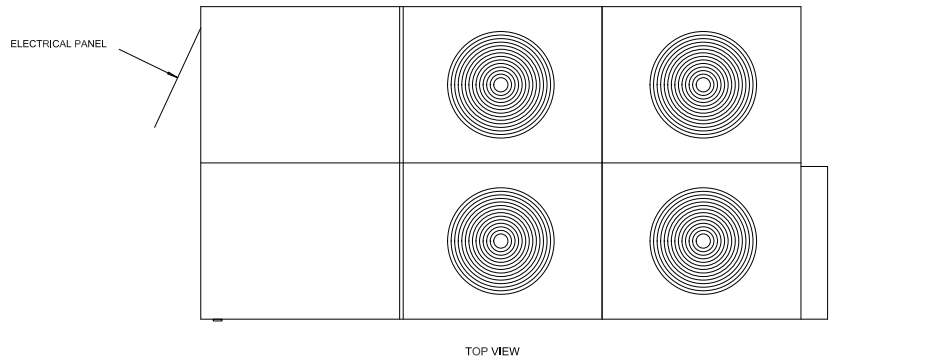
## Dimensional & Electrical Table (Dual Circuit)

Chiller Models	Length Inches	Width Inches	Height Inches	Power			Compressor		RLA ea.	LRA ea.	Fan Motor		MCA	M.O.P	Chiller Fluid Conn.	Weight Pounds
				Voltage	Phase	Freq.	Qty.	HP			Qty.	FLA.				
PZA52DF5	176.5	88	55	208/230V	3	60Hz	2	30	109	599	4	7	300	350	3" MPT	5200
PZA52DH5				460V	3	60Hz			53.2	310		3.5	150	175		
PZA52DI5				575V	3	60Hz			42.3	239		2.8	110	125		

## 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
52D	ZR380KCE	20.0	30.8	44.0	9.3	28.3	49.6	7.7	Out of Compressor Range			Out of Compressor Range			Out of Compressor Range		
		25.0	35.3	44.4	10.4	32.5	49.8	8.6	31.2	53.0	7.8	Out of Compressor Range			Out of Compressor Range		
		30.0	40.2	45.0	11.5	37.2	50.4	9.6	35.7	53.2	8.8	34.2	56.4	8.0	Out of Compressor Range		
		35.0	45.3	45.6	12.7	41.2	50.8	10.7	40.5	53.8	9.8	38.8	57.0	8.9	37.2	60.4	8.1
		42.0	53.3	48.4	11.9	49.8	53.2	10.1	48.0	56.1	9.4	46.0	58.8	8.9	44.2	61.5	8.2
		44.0	55.7	49.1	12.1	52.1	54.1	10.3	<b>50.2</b>	<b>56.7</b>	<b>9.6</b>	48.2	59.3	9.0	46.2	62.0	8.4
		45.0	57.0	49.0	12.3	53.3	54.5	10.4	51.3	56.9	9.7	49.3	59.5	9.1	47.3	62.2	8.5
		50.0	63.3	50.5	12.9	59.3	55.5	11.0	57.2	58.4	10.4	55.0	59.9	9.8	52.8	63.4	9.1

## Product Dimensional Drawing



Qty 8 Mounting  
 .438 Dia