



*It's All about Building a
Better Product for Our Clients!*

J&M Fluidics, Inc.
851 Tech Drive
Telford, PA 18969
Toll-Free: (888) 539-1731
Email: info@jmchillers.com

Model: PZA100M

Packaged Air-Cooled 100 Ton Chiller



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
- Door Mounted HMI with weather proof cover
- Data Recording Memory Card
- **STAINLESS STEEL**, brazed plate evaporator
- **Scroll** compressor with crankcase heater
- **Suction accumulator**
- **Water flow switch**
- **24V control transformer**
- Direct drive condenser fan motor
- EC Condenser Fan Motors (micro processor controlled)
- Rust resistant, high CFM condenser fan blade
- Condenser(s): copper tube/aluminum fin
- Compressor motor contactor
- Condenser motor and control circuit fusing
- 1/2" insulation on all water & Low pressure refrigerant lines
- Liquid line drier, sight glass, solenoid, TXV
- Galvanized sheet metal cabinet & frame
- Complete refrigerant charge from factory
- **Factory Performance Test prior to shipment**



Options:

- Remote Idec touchscreen control panel
- 5 Port Ethernet Switch
- BacNet Gateway
- Process Pump VFD Controller
- VFD Compressor Control on primary compressor
- Non Fused Disconnect
- 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 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
- Bronze Glow coated condenser coil (coastal protection)



**Easy to Use
Touch Screen Display
on ALL J&M Chiller
Models**

J&M FLUIDICS, INC. – PRODUCT DATA SHEET



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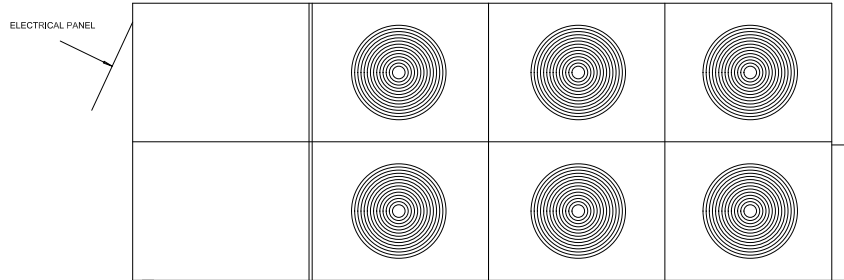
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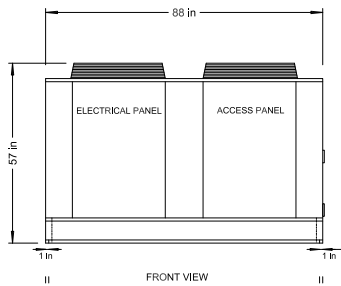
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Product Dimensional Drawing

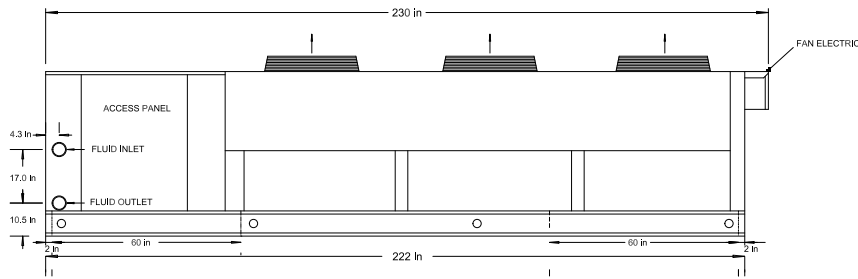
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TOP VIEW



FRONT VIEW



RIGHT SIDE VIEW

Qty 8 Mounting
.438 Dia

Dimensional & Electrical Table (Four 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.				
PZA100MF5ECM	230	88	57	208/230V	3	60Hz	4	30	109	599	6	7	505.3	600	4" FPT	8000
PZA100MH5ECM				460V	3	60Hz			53.2	310		3.5	247.1	300		
PZA100MI5ECM				575V	3	60Hz			42.3	239		2.8	196.6	225		

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
100M	ZR380	15	54.3	92.4	5.9	50.0	104.4	4.9									
		20	62.3	93.2	6.8	57.7	105.2	5.6	55.0	112.0	5.1	52.7	118.8	4.6			
		30	80.7	95.2	8.6	75.0	107.2	7.2	72.0	114.0	6.6	69.0	120.8	6.0	66.0	128.4	5.4
		35	91.0	99.2	9.4	85.0	108.4	8.1	81.7	114.8	7.4	78.3	122.0	6.7	75.0	129.6	6.1
		44	114.0	98.4	11.8	106.7	110.0	10.0	102.7	116.8	9.2	98.7	124.0	8.4	94.7	131.6	7.6
		45	116.3	98.4	12.0	109.0	110.4	10.2	105.0	116.8	9.4	101.0	124.0	8.6	96.7	131.6	7.8
		50	126.7	99.2	13.0	118.7	111.2	11.1	114.3	117.6	10.2	110.0	124.8	9.3	101.0	132.4	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.
- 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.