

PRODUCT DATA SHEET

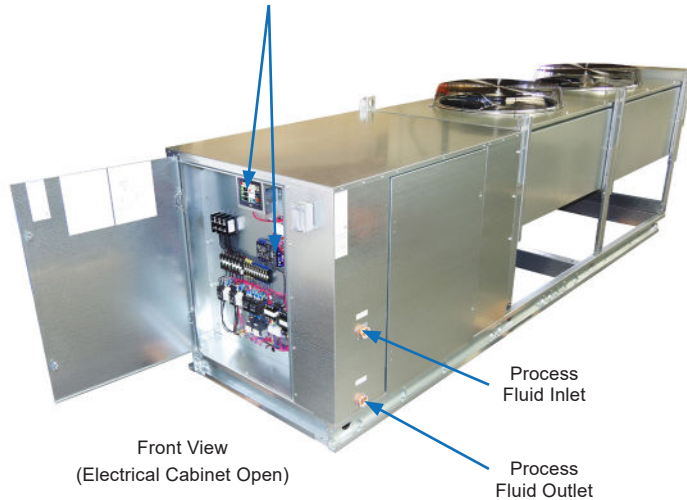
Model: **PZA20M**
*Packaged Air-Cooled
20 Ton Chiller*



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.

**R454A
Refrigerant**



Front View
(Electrical Cabinet Open)

Process
Fluid Inlet

Process
Fluid Outlet



Back/Side
View

Standard Features:

- Conforms to UL 60335-2-40:2022 Ed.4
- UL 60335-1:2016 Ed.6
- CSA C22.2 # 60335-1:2016 Ed.2
- CSA 22.2 # 60335-2-40:2022 Ed.4
- 4 independent refrigerant circuits
- 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**
- Liquid line drier, sight glass, solenoid
- Electronic expansion valve
- Manual high pressure cutout
- **Water flow switch**
- **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
- **Galvanized sheet metal cabinet**
- 1/2" insulation on all water and Low pressure refrigerant lines
- Complete refrigerant charge from factory
- **Factory Performance Test prior to shipment**



Options:

- VFD Compressor Control
- Copeland Digital Scroll Compressor
- Remote Idec touchscreen control panel
- 5 Port Ethernet Switch
- BacNet Gateway
- Hot gas by-pass capacity control
- **STAINLESS STEEL** Process Pump
- **Process Pump VFD Controller**
- 4 year extended compressor warranty
- 115 volt (rain tight) service outlet
- Non Fused Rotary Disconnect
- Phase/voltage monitor
- Compressor fusing or circuit breaker
- Compressor Sound Cover
- Flooded cond. w/receiver/head pressure control (0°F)
- Flooded cond. w/**Heated** receiver/head pressure control (-20°F)
- 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 changeover panel with filter
- Stainless steel, SCH80 PVC or Polypropylene piping for deionize and reverse osmosis water systems
- Door Mounted with weather proof cover

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Dimensional & Electrical Table (Quad Circuit)

Chiller Model	Nominal BTUH	Length Inches	Width Inches	Height Inches	Power			Compressor Qty.	RLA ea.	LRA ea.	Fan Motor		MCA	MOP	Chiller Fluid Conn.	Weight Pounds
					Voltage	Phase	Freq.				Qty.	FLA ea.				
PZA20MF7	238400	75	66	55	208/230	3	60	4	19.9	128	7	99	110	1.5" FPT	3400	
PZA20MH7					460	3	60		8.7	63	2	3.5	44			50
PZA20MI7					575	3	60		6.4	50	2.8	33	35			

Capacity Table (Refrigerant R454A)

Model	COMPRESSOR	AMB (°F)	80			90			95			100			105		
			LWT (°F)	TONS	KW	EER	TONS	KW	EER	TONS	KW	EER	TONS	KW	EER	TONS	KW
20M	YB34KAE	42	20.5	18.0	13.7	19.3	19.9	11.6	18.7	20.9	10.7	18.0	22.0	9.8	17.4	23.1	9.0
		44	21.4	18.1	14.2	20.1	19.9	12.1	19.5	20.9	11.2	18.8	22.1	10.2	18.1	23.2	9.4
		45	21.8	18.1	14.5	20.5	20.0	12.3	19.9	21.0	11.4	19.2	22.1	10.4	18.5	23.2	9.6
		50	24.1	18.1	15.9	22.7	20.1	13.5	22.0	21.1	12.5	21.2	22.2	11.5	20.5	23.4	10.5

- Capacities on this chart are based on refrigerant R454A. 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

**R454A
 Refrigerant**

