

PRODUCT DATA SHEET

Model: **PZAPT12S**
*Packaged Air-Cooled
Portable 12 Ton Chiller*



Legacy Chillers, Inc.
851 Tech Drive
Telford, PA 18969
Toll-Free: (877) 988-5464

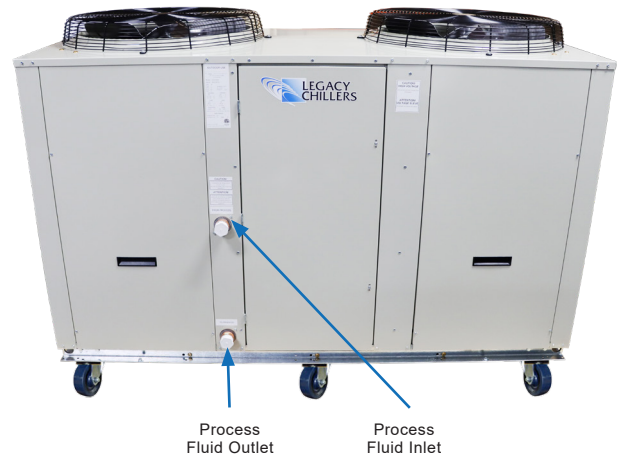
STANDARD ON ALL LEGACY CHILLER MODELS:
Pentra Microsmart, Programmable Logic Controller (PLC)
with HMI Touch Screen Display.

**R454C
Refrigerant**



Side/Front View

Factory Mounted Casters
for Portability



Process
Fluid Outlet

Process
Fluid Inlet

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 C22.2 # 60335-2-40:2022 Ed.4
- 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
- Noncorrosive polyethylene storage tank with 1/2" insulation
- Fused, **STAINLESS STEEL** Process pump w/ discharge ball valve
- Low flow by-pass valve
- Electronic expansion valve
- Manual high pressure cutout
- Liquid line drier, sight glass, solenoid
- **Water flow switch**
- **Hot Gas Bypass Capacity Control**
- **24V control transformer**
- Fan cycle control (+40°F)
- Direct drive condenser fan motor
- Rust resistant, high CFM, aluminum condenser fan blade
- Condenser (Air cooled): copper tube/aluminum fin
- Compressor motor, Condenser fan and process pump contactors
- Condenser motor, Process pump and control circuit fusing
- Casters (factory mounted)
- **Painted (Powder Coated), 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 Controller
- Remote Idec touchscreen control panel
- 5 Port Ethernet Switch
- BacNet Gateway
- Process Pump VFD Controller
- 4 year extended compressor warranty
- E-Coat condenser coating (Air Cooled Models)
- 115 volt (rain tight) service outlet
- Fused Disconnect
- 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
- Process pump suction isolation valve
- Water pressure gauge set
- Stainless steel, SCH80 PVC or Polypropylene piping for de-ionized and reverse osmosis water systems
- Storage Tank Sight Glass
- Tank low fluid level indicator
- Tank auto city water make up solenoid & auto level switch
- Coastal powder coat paint protection
- **Custom powder coat paint color scheme** (Company Colors & more)
- Weather Proof HMI Cover

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Dimensional & Electrical Table (Single Circuit)

Chiller Model	Nominal BTUH	Length Inches	Width Inches	Height Inches	Power			Compressor Qty.	RLA ea.	LRA ea.	Fan Motor		Process Pump		MCA	MOP	Reservoir Gal.	Chiller Fluid Conn.	Weight Pounds
					Voltage	Phase	Freq.				Qty.	FLA ea.	HP	FLA					
PZAPT12SF8					208/230	3	60		56.5	321		3.8		6.1	84	125			
PZAPT12SH8	157500	75	34	55	460	3	60	1	24.4	179	2	1.5	2	2.8	36	60	31	1.25 "FPT	900
PZAPT12S18					575	3	60		18.8	145		1.72		1.5	28	45			

Capacity Table (Refrigerant R454C)

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
		12S	YB100KAE	42	13.5	12.0	13.5	12.8	13.3	11.5	12.3	14.0	10.6	11.9	14.7	9.7	11.5
		44	14.1	12.0	14.1	13.3	13.3	12.0	12.8	14.0	11.0	12.4	14.7	10.1	12.0	15.5	9.3
		45	14.4	12.0	14.4	13.5	13.3	12.2	13.1	14.0	11.2	12.7	14.7	10.3	12.2	15.5	9.5
		50	16.0	12.0	15.9	15.0	13.4	13.5	14.5	14.1	12.4	14.0	14.8	11.4	13.5	15.6	10.4

- Capacities on this chart are based on refrigerant R454C. 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

**R454C
 Refrigerant**

