

PRODUCT DATA SHEET

Model: **PZAT1S**
*Packaged Air-Cooled
1 Ton Chiller*



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

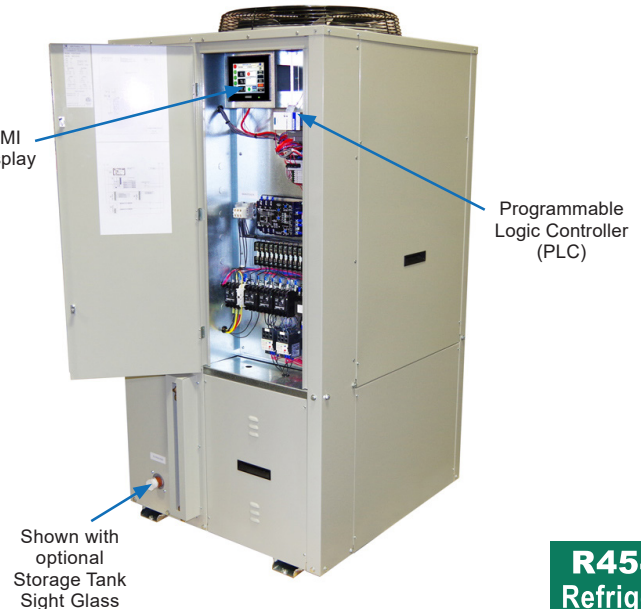
STANDARD ON ALL LEGACY CHILLER MODELS:
Pentra Microsmart, Programmable Logic Controller (PLC)
with HMI Touch Screen Display.

with Stainless Steel Tank



User-Friendly HMI
Touch Screen Display

Process
Fluid Outlet



Programmable
Logic Controller
(PLC)

Shown with
optional
Storage Tank
Sight Glass

R454A
Refrigerant

Standard Features:

- ETL listed to UL/CSA 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
- Liquid line drier, sight glass, solenoid
- Electronic expansion valve
- Manual high pressure cutout
- 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
- 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 Control (*Hot Gas Bypass Removed*)
- Copeland Digital Scroll Compressor (*Hot Gas Bypass Removed*)
- Remote Idec touchscreen control panel
- 5 Port Ethernet Switch
- BacNet Gateway
- STAINLESS STEEL Process Pump
- Process Pump VFD Controller
- 4 year extended compressor warranty
- Casters (factory mounted)
- 115 volt (rain tight) service outlet
- Non Fused Disconnect
- Phase/voltage monitor
- Compressor fusing
- Compressor Sound Cover
- Flooded cond. w/receiver/head pressure control (0°F)
- Flooded cond. w/Heated receiver/head pressure control (-20°F)
- Dual process pumps with auto changeover
- Pump suction isolation valve(s)
- Water pressure gauge set
- Coastal powder coat paint protection
- E-Coat Condenser Coil (coastal protection)
- Water Flow Meter
- Auto city water make up solenoid & auto level switch
- Auto city water changeover panel with filter
- Door Mounted HMI with weather proof cover

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Dimensional & Electrical Table

| Chiller Model | Nominal BTUH | Length Inches | Width Inches | Height Inches | Power | | | Compressor Qty. | RLA ea. | LRA ea. | Fan Motor | | Recirculation Pump FLA | MCA | MOP | Reservoir Gal. | Chiller Fluid Conn | Weight Pounds |
|---------------|--------------|---------------|--------------|---------------|---------|-------|-------|-----------------|---------|---------|-----------|---------|------------------------|-----|-----|----------------|--------------------|---------------|
| | | | | | Voltage | Phase | Freq. | | | | Qty. | FLA ea. | | | | | | |
| PZAT1SE7 | 12700 | 36 | 34 | 68 | 208/230 | 1 | 60 | 1 | 7.2 | 47.2 | 1 | 3.8 | 4 | 17 | 20 | 20 | 1" FPT | 550 |
| PZAT1SF7 | | | | | 208/230 | 3 | 60 | | 4.7 | 37.8 | | 3.8 | 4 | 14 | 15 | | | |
| PZAT1SH7 | | | | | 460 | 3 | 60 | | 3 | 19.6 | | 1.5 | 0.89 | 6 | 15 | | | |

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 |
| 1S | YB08KAE | 42 | 1.1 | 1.7 | 7.7 | 1.0 | 1.8 | 6.8 | 1.0 | 1.9 | 6.3 | 1.0 | 2.0 | 5.9 | 0.9 | 2.0 | 5.4 |
| | | 44 | 1.1 | 1.7 | 8.0 | 1.1 | 1.8 | 7.1 | 1.0 | 1.9 | 6.6 | 1.0 | 2.0 | 6.1 | 1.0 | 2.0 | 5.7 |
| | | 45 | 1.2 | 1.7 | 8.2 | 1.1 | 1.8 | 7.2 | 1.1 | 1.9 | 6.7 | 1.0 | 2.0 | 6.3 | 1.0 | 2.0 | 5.8 |
| | | 50 | 1.2 | 1.7 | 8.7 | 1.2 | 1.8 | 7.7 | 1.1 | 1.9 | 7.2 | 1.1 | 2.0 | 6.6 | 1.1 | 2.0 | 6.2 |

- 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**

