

PRODUCT DATA SHEET

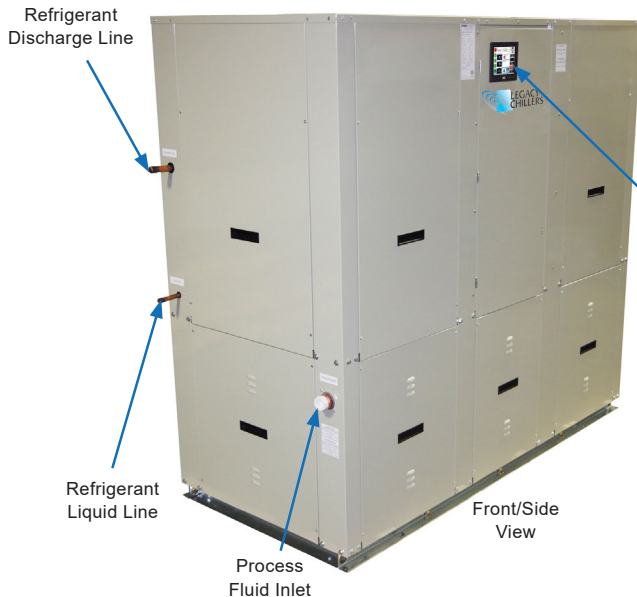
Model: IEZAT7S

Split-System Air-Cooled
7 Ton Chiller



Legacy Chillers, Inc.
851 Tech Drive
Telford, PA 18969

Toll-Free: (877) 988-5464

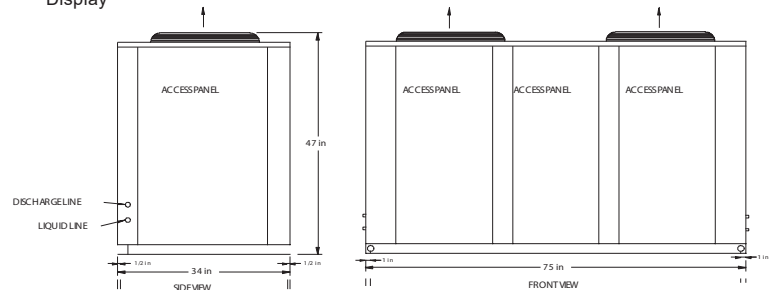


with Stainless Steel Tank

**R454C
Refrigerant**

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

Condenser Model (OC7S)



OC Refrigerant Connections: Discharge Line- 7/8", Liquid Line- 5/8"

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**
- Liquid line drier, sight glass, solenoid
- Electronic expansion valve
- Manual high pressure cutout
- **Water flow switch**
- **Hot Gas Bypass Capacity Control**
- **24V control transformer**
- Control circuit fusing
- Compressor motor contactor
- **Painted - Powder Coated (Most Models), galvanized sheet metal cabinet**
- 1/2" insulation on all water and refrigerant lines
- Complete refrigerant charge from factory
- **Factory Performance Test prior to shipment**



Options:

- **VFD Compressor Control** on primary compressor
- **Remote Idec touchscreen control panel**
- **5 Port Ethernet Switch**
- **BacNet Gateway**
- **Process Pump VFD Controller**
- 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
- Factory installed evaporator heat tape freeze protection
- Low flow by-pass valve
- Fused, **STAINLESS STEEL** process pump
- Dual system pump with manual changeover (some models)
- Dual system pump with auto changeover (some models)
- Pump suction isolation valve
- Water pressure gauge set
- Water Flow Meter
- Auto city water changeover panel with filter
- Stainless steel, SCH80 PVC or Polypropylene piping for deionized and reverse osmosis water systems
- Door Mounted HMI weather proof cover

Tank Options

- Storage tank sight glass
- Tank low liquid level indicator with dry contacts
- Auto Tank Fill

Tank

- **STAINLESS STEEL** storage tank with 1/2 inch insulation
- Fused, **STAINLESS STEEL** re-circulation pump for tank operation with ball valve and cleanable strainer
- Tank pressure relief valve, vent and drain hose bibs

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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 | | Recirculation Pump FLA | MCA | MOP | Reservoir Gal. | Chiller Fluid Conn. | Weight Pounds | Condenser Model |
|---------------|--------------|---------------|--------------|---------------|---------|-------|-------|-----------------|---------|---------|-----------|---------|------------------------|-----|-----|----------------|---------------------|---------------|-----------------|
| | | | | | Voltage | Phase | Freq. | | | | Qty. | FLA ea. | | | | | | | |
| IEZAT7SF8 | 83000 | 75 | 34 | 70 | 208/230 | 3 | 60 | 1 | 35.3 | 225 | 2 | 3.8 | 6.8 | 59 | 90 | 80 | 1.25" FPT | 1150 | OC7S |
| IEZAT7SH8 | | | | | 460 | 3 | 60 | | 15.4 | 114 | | 1.5 | 24 | 35 | | | | | |
| IEZAT7S18 | | | | | 575 | 3 | 60 | | 12.8 | 80 | | 1.72 | 20 | 30 | | | | | |

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 |
| 7S | YB56KAE | 42 | 7.1 | 7.4 | 11.6 | 6.7 | 8.0 | 10.0 | 6.5 | 8.4 | 9.3 | 6.3 | 8.8 | 8.6 | 6.0 | 9.2 | 7.9 |
| | | 44 | 7.5 | 7.4 | 12.1 | 7.0 | 8.0 | 10.4 | 6.8 | 8.4 | 9.7 | 6.6 | 8.8 | 8.9 | 6.3 | 9.2 | 8.2 |
| | | 45 | 7.6 | 7.4 | 12.4 | 7.2 | 8.1 | 10.7 | 6.9 | 8.4 | 9.9 | 6.7 | 8.8 | 9.1 | 6.4 | 9.2 | 8.4 |
| | | 50 | 8.1 | 7.4 | 13.1 | 7.6 | 8.1 | 11.3 | 7.4 | 8.4 | 10.5 | 7.1 | 8.8 | 9.7 | 6.9 | 9.2 | 8.9 |

- 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

