# PRODUCT DATA SHEET

## Model: **IEZAT5.5S**

*Split-System Air-Cooled*
*5.5 Ton Chiller*

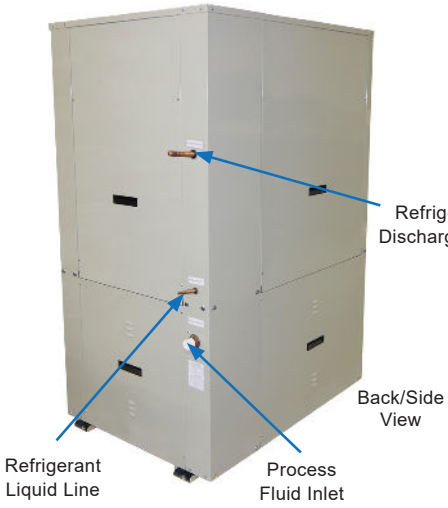
Legacy Chillers, Inc.
851 Tech Drive
Telford, PA 18969

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

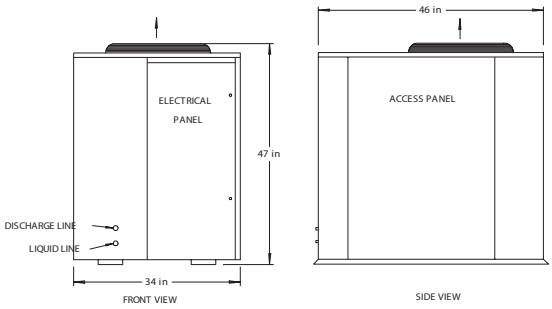
**R454C Refrigerant**







Condenser Model (OC5.5S)




**OC Refrigerant Connections:**
Discharge Line- 3/4", Liquid Line- 1/2"

## 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
- Tank recirculation pump
- **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**

### 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

## 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 fordeionized 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

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## *with* Stainless Steel Tank

### Dimensional & Electrical Table (Single Circuit)

| Chiller Model | Nominal BTUH | Length Inches | Width Inches | Height Inches | Power | | | Compressor Qty. | RLA | LRA | Fan Motor | | Recirculation Pump FLA | MCA | MOP | Reservoir Gal. | Chiller Fluid Conn. | Weight Pounds | Condenser Model |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Voltage | Phase | Freq. | | ea. | ea. | Qty. | FLA ea. | | | | | | | |
| IEZAT5.5SF8 | | | | | 208/230 | 3 | 60 | | 20.2 | 156 | | 3.8 | 4.0 | 33 | 50 | | | | |
| IEZAT5.5SH8 | 57800 | 46 | 34 | 69 | 460 | 3 | 60 | 1 | 9.1 | 75 | 1 | 1.5 | 0.9 | 14 | 20 | 50 | 1 "FPT | 900 | OC5.5S |
| IEZAT5.5SI8 | | | | | 575 | 3 | 60 | | 6.3 | 54 | | 1.72 | 0.7 | 10 | 15 | | | | |

### Capacity Table (Refrigerant R454C)

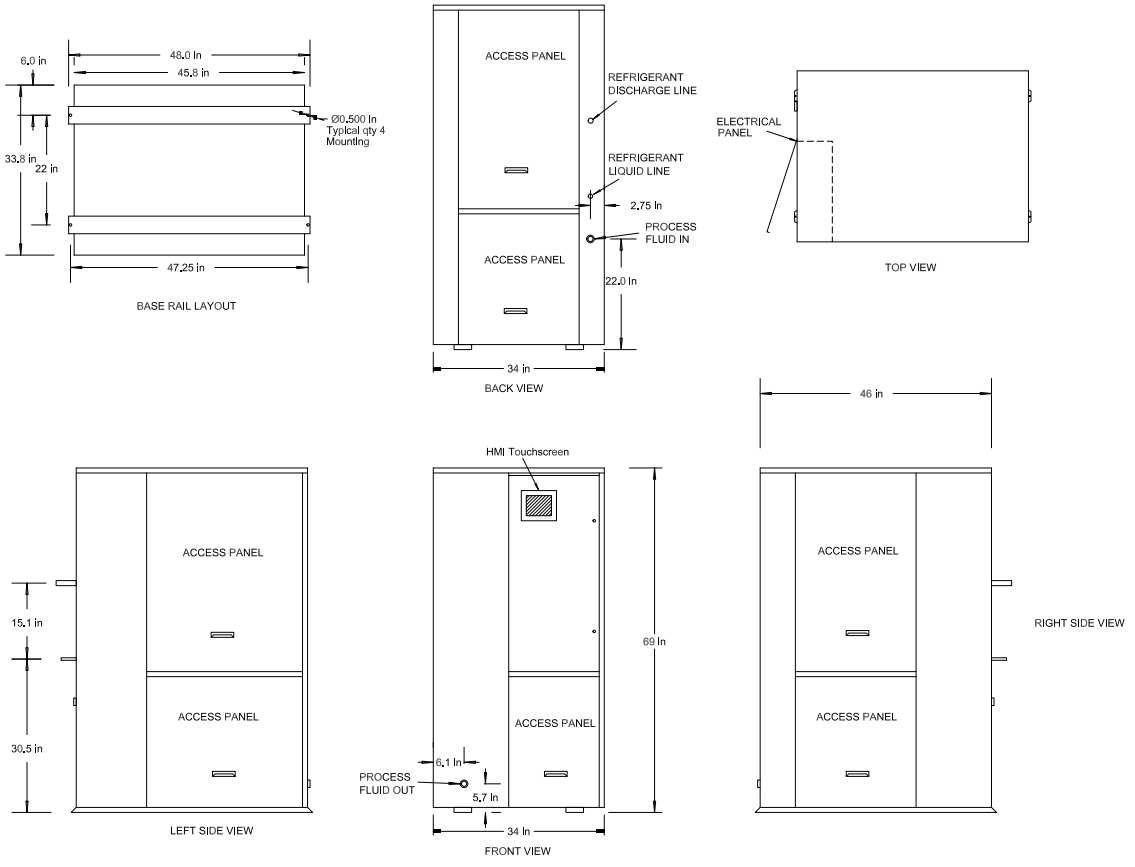
| Model | COMPRESSOR | AMB (°F) | 80 | | | 90 | | | 95 | | | 100 | | | 105 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | LWT (°F) | TONS | KW | EER | TONS | KW | EER | TONS | KW | EER | TONS | KW | EER | TONS | KW | EER |
| 5.5S | YB40KAE | 42 | 5.0 | 4.8 | 12.5 | 4.7 | 5.3 | 10.7 | 4.5 | 5.5 | 9.8 | 4.4 | 5.8 | 9.1 | 4.2 | 6.1 | 8.3 |
| | | 44 | 5.2 | 4.8 | 13.0 | 4.9 | 5.3 | 11.1 | 4.7 | 5.5 | 10.2 | 4.6 | 5.8 | 9.4 | 4.4 | 6.1 | 8.7 |
| | | 45 | 5.3 | 4.8 | 13.3 | 5.0 | 5.3 | 11.3 | 4.8 | 5.5 | 10.5 | 4.7 | 5.8 | 9.6 | 4.5 | 6.1 | 8.8 |
| | | 50 | 5.6 | 4.8 | 14.1 | 5.3 | 5.3 | 12.0 | 5.1 | 5.5 | 11.1 | 5.0 | 5.8 | 10.2 | 4.8 | 6.1 | 9.4 |

1. 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.
2. KW input is for compressor(s) only.
3. EER = Energy Efficiency Ratio (BTU/watt-hour). Power inputs include compressor (s), condenser fan motor (s) and control power.

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### Product Dimensional Drawing

**R454C Refrigerant**




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