# PRODUCT DATA SHEET

## Model: **IEZAT21D**

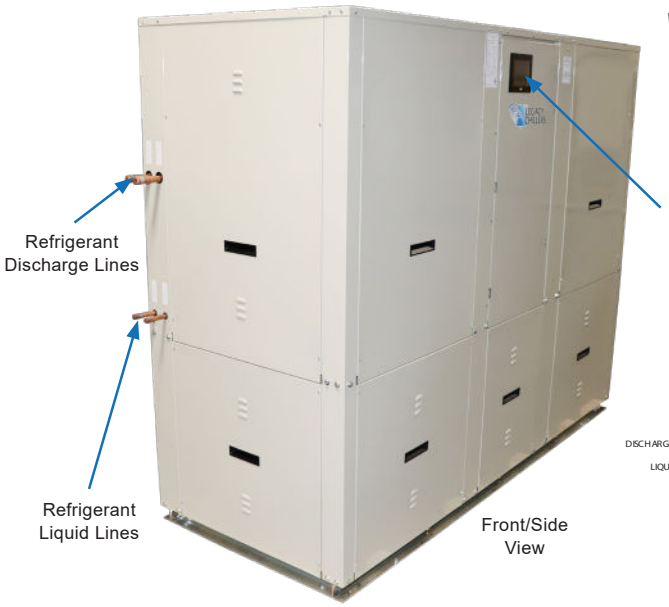
*Split-System Air-Cooled*
*21 Ton Chiller*

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

Toll-Free: (877) 988-5464

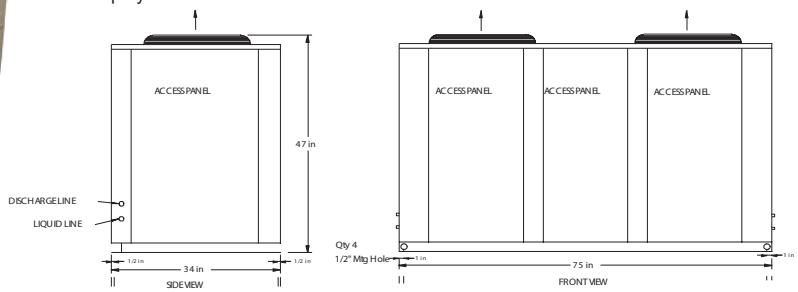
## *with* Stainless Steel Tank

**R454A Refrigerant**




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

Condenser Model (OC21D)




**OC Refrigerant Connections:** Discharge Line- 7/8" (2), Liquid Line- 5/8" (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
- Condenser water regulating valve
- 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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### Dimensional & Electrical Table (Dual 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. | | | | | | | |
| IEZAT21DF7 | 232000 | 85 | 34 | 70 | 208/230 | 3 | 60 | 2 | 38.6 | 239 | 4 | 3.8 | 8.6 | 111 | 125 | 120 | 1.5 "FPT | 1900 | OC21D |
| IEZAT21DH7 | | | | | 460 | 3 | 60 | | 18.6 | 125 | | 1.5 | 3.9 | 52 | 70 | | | | |
| IEZAT21DI7 | | | | | 575 | 3 | 60 | | 13.1 | 80 | | 1.72 | 2.5 | 39 | 50 | | | | |

### Capacity Table (Refrigerant R454A)

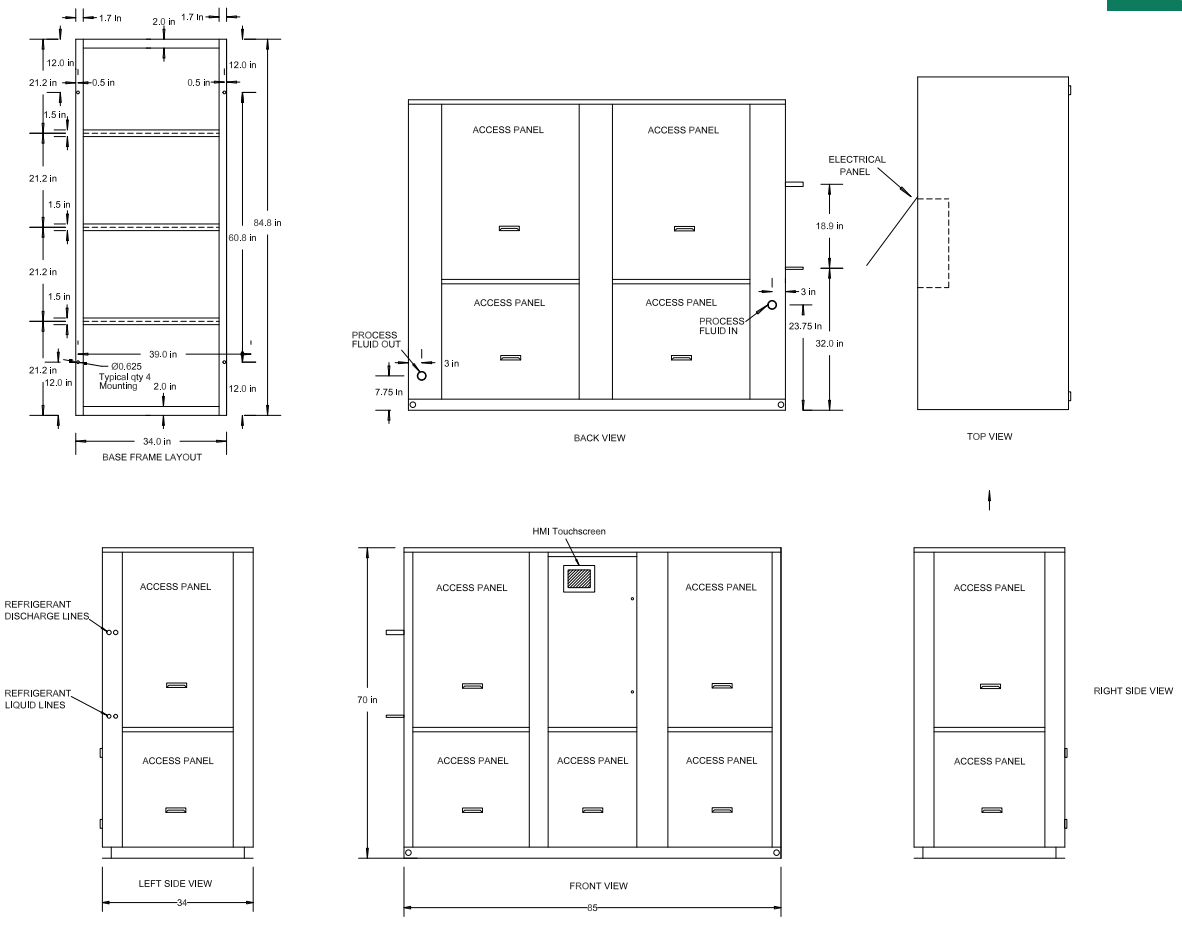
| Model | COMPRESSOR | AMB (°F) | 80 | | | 90 | | | 95 | | | 100 | | | 105 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | LWT (°F) | TONS | KW | EER | TONS | KW | EER | TONS | KW | EER | TONS | KW | EER | TONS | KW | EER |
| 21D | YB68KAE | 42 | 20.0 | 19.4 | 12.4 | 18.8 | 21.2 | 10.6 | 18.2 | 22.2 | 9.8 | 17.5 | 23.3 | 9.0 | 16.8 | 24.5 | 8.3 |
| | | 44 | 20.9 | 19.5 | 12.9 | 19.6 | 21.3 | 11.0 | 19.0 | 22.3 | 10.2 | 18.3 | 23.4 | 9.4 | 17.6 | 24.5 | 8.6 |
| | | 45 | 21.3 | 19.5 | 13.1 | 20.0 | 21.3 | 11.3 | 19.3 | 22.3 | 10.4 | 18.7 | 23.4 | 9.6 | 18.0 | 24.6 | 8.8 |
| | | 50 | 22.7 | 19.6 | 13.9 | 21.3 | 21.4 | 11.9 | 20.6 | 22.4 | 11.0 | 19.8 | 23.5 | 10.1 | 19.2 | 24.7 | 9.3 |

1. 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.
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.

C ETL US LISTED Intertek

### Product Dimensional Drawing

**R454A Refrigerant**




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