

# PRODUCT DATA SHEET

Model: IEZAT7S  
Split-System Air-Cooled  
7 Ton Chiller

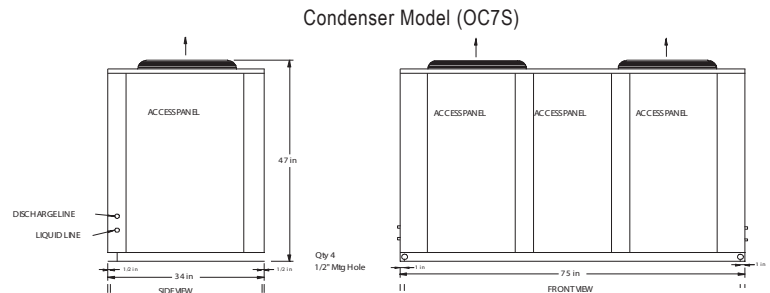


Legacy Chiller Systems  
851 Tech Drive  
Telford, PA 18969  
Toll-Free: (877) 988-5464



## with Stainless Steel Tank

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



OC Refrigerant Connections: Discharge Line- 7/8", Liquid Line- 1/2"

### Standard Features:

- ETL listed to UL1995 & CAN/CSA C22.2 No. 236-11, 4th edition, 10/14/2011
- 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
- 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
- Liquid line drier, sight glass, solenoid, TXV
- Complete refrigerant charge from factory
- **Factory Performance Test prior to shipment**
- **Extended warranty:** See your quote or latest IOM booklet revision

### 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

Easy to Use  
Touch Screen Display  
on all Legacy Chiller  
Models



### Options:

- Copeland Digital Scroll Compressor
- Remote Idec touchscreen control panel
- Industrial VPN Router
- 5 Port Ethernet Switch
- BacNet Gateway
- Process Pump VFD Controller
- VFD Compressor Control on primary compressor
- 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 for deionized and reverse osmosis water systems
- Door Mounted HMI with 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 (Single Circuit)

| Chiller Models | Length Inches | Width Inches | Height Inches | Power    |       |       | Compressor |    | RLA ea. | LRA ea. | Fan Motor |      | Recirculation Pump FLA | MCA | M.O.P | Reservoir Gal. | Chiller Fluid Conn. | Weight LBS. | Condenser Selection |
|----------------|---------------|--------------|---------------|----------|-------|-------|------------|----|---------|---------|-----------|------|------------------------|-----|-------|----------------|---------------------|-------------|---------------------|
|                |               |              |               | Voltage  | Phase | Freq. | Qty.       | HP |         |         | Qty.      | FLA. |                        |     |       |                |                     |             |                     |
| IEZAT7SF5      | 75            | 34           | 70            | 208/230V | 3     | 60Hz  | 1          | 8  | 28.8    | 195     | 2         | 3.8  | 5.4                    | 50  | 70    | 50             | 1" FPT              | 1100        | 0C7S                |
| IEZAT7SH5      |               |              |               | 460V     | 3     | 60Hz  |            |    | 14.7    | 95      |           | 1.5  | 1.4                    | 30  | 40    |                |                     |             |                     |
| IEZAT7SI5      |               |              |               | 575V     | 3     | 60Hz  |            |    | 10.8    | 80      |           | 1.72 | 1                      | 20  | 25    |                |                     |             |                     |

Capacity Table (Refrigerant R407C)

| Model | Compressor | LWT °F | 80°F |     |      | 90°F |     |      | 95°F |     |      | 100°F |     |     | 105°F |     |     |
|-------|------------|--------|------|-----|------|------|-----|------|------|-----|------|-------|-----|-----|-------|-----|-----|
|       |            |        | TONS | KW  | EER  | TONS | KW  | EER  | TONS | KW  | EER  | TONS  | KW  | EER | TONS  | KW  | EER |
| 7S    | ZB58KCE    | *42.0  | 6.0  | 5.9 | 11.1 | 5.9  | 6.6 | 9.8  | 5.7  | 6.9 | 9.1  | 5.4   | 7.3 | 8.5 | 5.2   | 7.7 | 8.0 |
|       |            | *44.0  | 6.3  | 6.0 | 11.4 | 6.1  | 6.6 | 10.0 | 5.9  | 7.0 | 9.4  | 5.7   | 7.3 | 8.8 | 5.4   | 7.7 | 8.2 |
|       |            | 45.0   | 6.4  | 6.0 | 11.6 | 6.3  | 6.7 | 10.2 | 6.1  | 7.0 | 9.6  | 5.9   | 7.4 | 9.0 | 5.6   | 7.8 | 8.4 |
|       |            | 50.0   | 7.2  | 6.2 | 12.3 | 6.9  | 6.8 | 10.8 | 6.8  | 7.2 | 10.2 | 6.6   | 7.5 | 9.6 | 6.3   | 7.9 | 9.0 |

\* = Requires the use of glycol.

## Product Dimensional Drawing

