

# PRODUCT DATA SHEET

Model: IEZAT4.5S  
Split-System Air-Cooled  
4.5 Ton Chiller

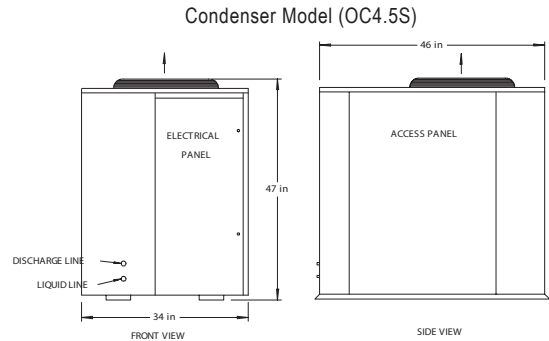
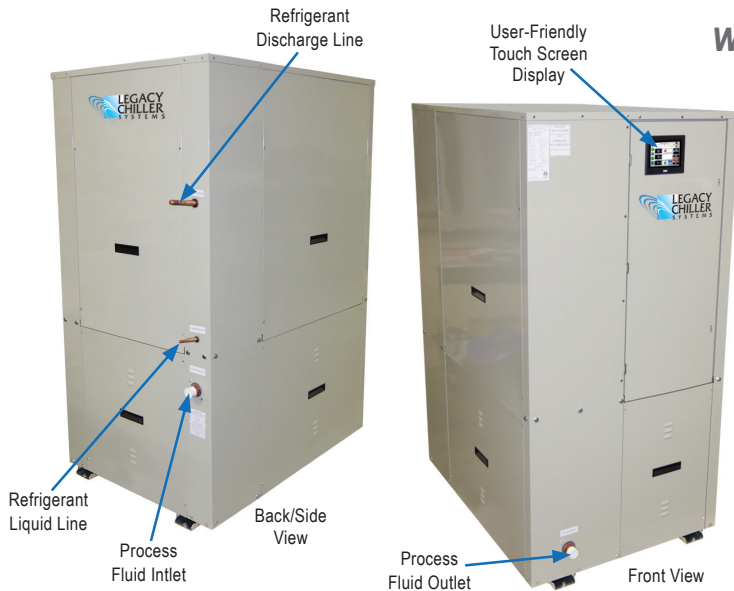


Legacy Chiller Systems  
851 Tech Drive  
Telford, PA 18969  
Toll-Free: (877) 988-5464



## 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- 3/4", 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 h

Easy to Use  
Touch Screen Display  
on all Legacy Chiller  
Models



### Options:

- 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

# PRODUCT DATA SHEET

Model: IEZAT4.5S

Split-System Air-Cooled  
4.5 Ton Chiller



Legacy Chiller Systems

851 Tech Drive  
Telford, PA 18969

Toll-Free: (877) 988-5464

with Stainless Steel Tank

## 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. |                        |     |       |                |                     |             |                     |
| IEZAT4.5SE5    | 46            | 34           | 69            | 208/230V | 1     | 60Hz  | 1          | 5  | 25.0    | 129     | 1         | 3.8  | 4.2                    | 40  | 60    | 50             | 1" FPT              | 875         | OC4.5S              |

## 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 |
| 4.5S  | ZB42KCE    | *42.0  | 4.2  | 4.3 | 11.2 | 4.0  | 4.8 | 9.7  | 4.0  | 5.1 | 9.0 | 3.9   | 5.4 | 8.4 | 3.8   | 5.8 | 7.7 |
|       |            | *44.0  | 4.4  | 4.4 | 11.5 | 4.2  | 4.9 | 10.0 | 4.1  | 5.2 | 9.2 | 4.0   | 5.5 | 8.6 | 3.9   | 5.9 | 7.9 |
|       |            | 45.0   | 4.5  | 4.4 | 11.6 | 4.3  | 4.9 | 10.1 | 4.2  | 5.2 | 9.3 | 4.1   | 5.5 | 8.7 | 4.0   | 5.9 | 8.0 |
|       |            | 50.0   | 5.0  | 4.6 | 12.3 | 4.7  | 5.1 | 10.7 | 4.7  | 5.4 | 9.8 | 4.5   | 5.5 | 9.2 | 4.4   | 6.1 | 8.5 |

\* = Requires the use of glycol.

## Product Dimensional Drawing

