

PRODUCT DATA SHEET

Model: IEZAT1.5S
Split-System Air-Cooled
1.5 Ton Chiller

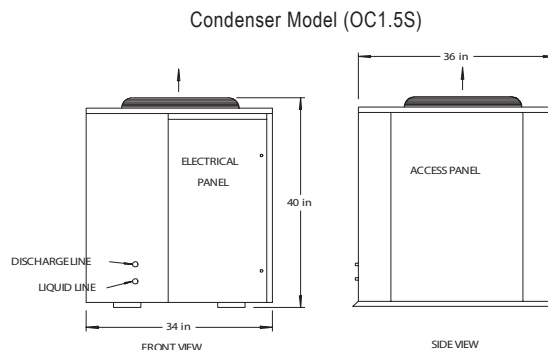


Legacy Chillers, Inc.
851 Tech Drive
Telford, PA 18969
Toll-Free: (877) 988-5464



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- 1/2", Liquid Line- 3/8"

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

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. | | | | | | | |
| IEZAT1.5SE5 | 36 | 34 | 65 | 208/230V | 1 | 60Hz | 1 | 2.0 | 13.5 | 68 | 1 | 3.8 | 4.2 | 25 | 35 | 20 | 1" FPT | 600 | OC1.5S |
| IEZAT1.5SF5 | | | | 208/230V | 3 | 60Hz | | | 8.0 | 58 | | 3.8 | 4.2 | 20 | 25 | | | | |
| IEZAT1.5SH5 | | | | 460V | 3 | 60Hz | | | 4.2 | 29 | | 1.5 | 0.9 | 15 | 15 | | | | |
| IEZAT1.5SI5 | | | | 575V | 3 | 60Hz | | | 3.1 | 24 | | 1.72 | 0.72 | 15 | 15 | | | | |

* = Requires the use of glycol. 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 |
| 1.5S | ZS15KAE | *42.0 | 1.7 | 1.7 | 8.9 | 1.6 | 1.8 | 7.9 | 1.5 | 1.9 | 7.4 | 1.5 | 2.0 | 7.0 | 1.4 | 2.2 | 6.5 |
| | | *44.0 | 1.7 | 1.7 | 9.1 | 1.6 | 1.9 | 8.1 | 1.6 | 2.0 | 7.6 | 1.5 | 2.1 | 7.2 | 1.5 | 2.2 | 6.7 |
| | | 45.0 | 1.8 | 1.7 | 9.3 | 1.7 | 1.9 | 8.3 | 1.6 | 2.0 | 7.7 | 1.6 | 2.1 | 7.3 | 1.5 | 2.2 | 6.8 |
| | | 50.0 | 2.0 | 1.8 | 9.9 | 1.9 | 1.9 | 8.8 | 1.8 | 2.0 | 8.3 | 1.8 | 2.1 | 7.8 | 1.7 | 2.2 | 7.3 |

- Capacities on this chart are based on refrigerant R407C. 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

