

# PRODUCT DATA SHEET

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



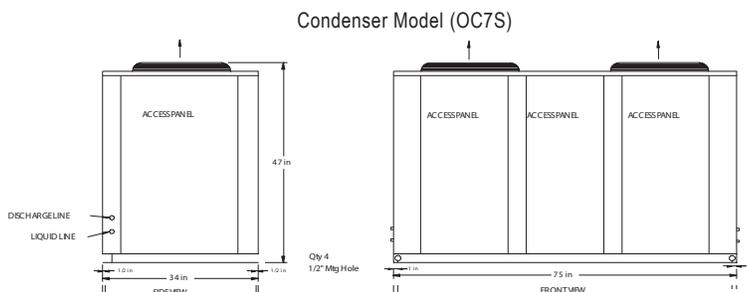
Legacy Chillers, Inc.  
851 Tech Drive  
Telford, PA 18969  
Toll-Free: (877) 988-5464



User-Friendly  
Touch Screen  
Display

## 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

### 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:

- 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

Easy to Use  
Touch Screen Display  
on all Legacy Chiller  
Models



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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 1/4" 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				

\* = 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
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

- 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

