PRODUCT DATA SHEET

Model: **IEZAT3.5S**

Split-System Air-Cooled
3.5 Ton Chiller

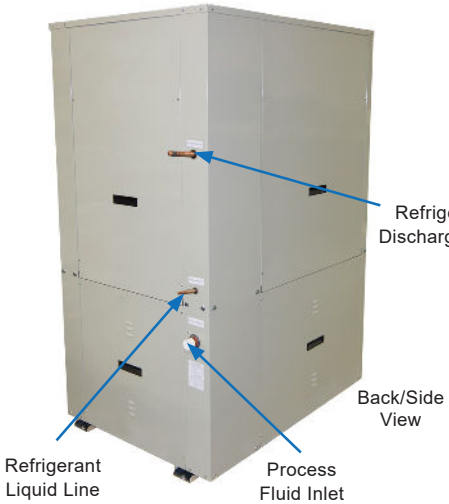
Legacy Chillers, Inc.
851 Tech Drive
Telford, PA 18969

Toll-Free: (877) 988-5464

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

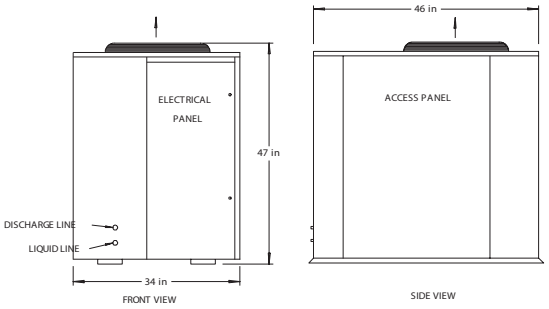
with Stainless Steel Tank

R454A Refrigerant





Condenser Model (OC3.5S)



OC Refrigerant Connections:
Discharge Line- 1/2”, Liquid Line- 3/8”

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
- 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 (Single 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.							
IEZAT3.5SE7	38500	36	34	65	208/230	1	60	1	21.1	127	1	3.8	4.0	34	50	20	1 "FPT	800	OC3.5S
IEZAT3.5SF7					208/230	3	60		12.4	88		3.8	4.0	23	35				
IEZAT3.5SH7					460	3	60		5.8	44		1.5	0.9	10	15				
IEZAT3.5SI7					575	3	60		5.1	34		1.72	0.7	9	15				

Capacity Table (Refrigerant R454A)

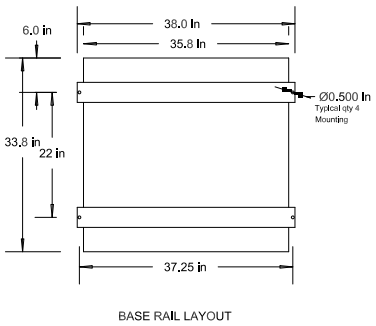
Model	COMPRESSOR	AMB (°F)	80			90			95			100			105		
		LWT (°F)	TONS	KW	EER	TONS	KW	EER	TONS	KW	EER	TONS	KW	EER	TONS	KW	EER
3.5S	YB23KSE	42	3.3	3.6	11.1	3.1	3.9	9.6	3.0	4.1	8.8	2.9	4.3	8.1	2.8	4.5	7.5
		44	3.5	3.6	11.6	3.3	3.9	10.0	3.1	4.1	9.2	3.0	4.3	8.5	2.9	4.5	7.8
		45	3.5	3.6	11.8	3.3	3.9	10.2	3.2	4.1	9.4	3.1	4.3	8.7	3.0	4.5	7.9
		50	3.8	3.6	12.5	3.5	3.9	10.8	3.4	4.1	10.0	3.3	4.3	9.2	3.2	4.5	8.5

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.

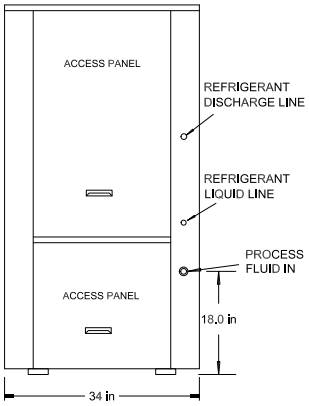
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R454A Refrigerant

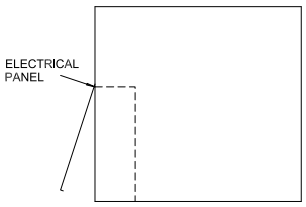
Product Dimensional Drawing



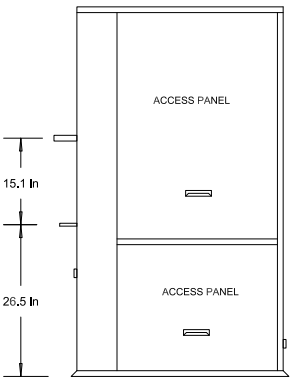
BASE RAIL LAYOUT



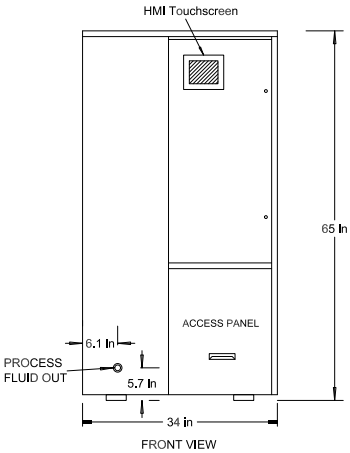
BACK VIEW



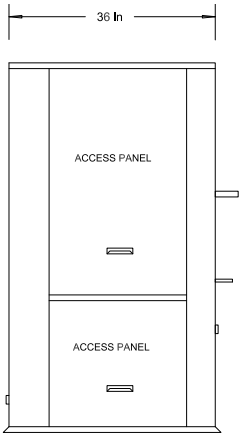
TOP VIEW



LEFT SIDE VIEW



FRONT VIEW



RIGHT SIDE VIEW

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