

PRODUCT DATA SHEET

Model: **IEZA50M**

*Split-System Air-Cooled
50 Ton Chiller*

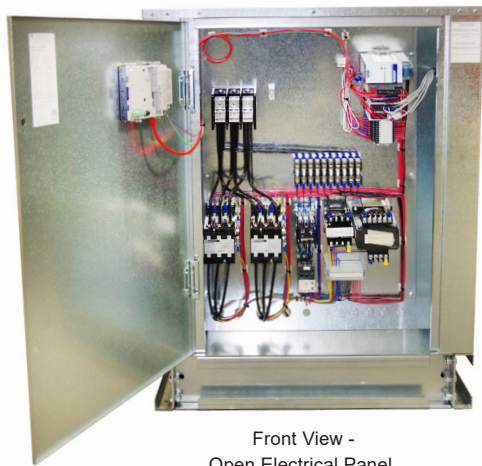


Legacy Chillers, Inc.
851 Tech Drive
Telford, PA 18969

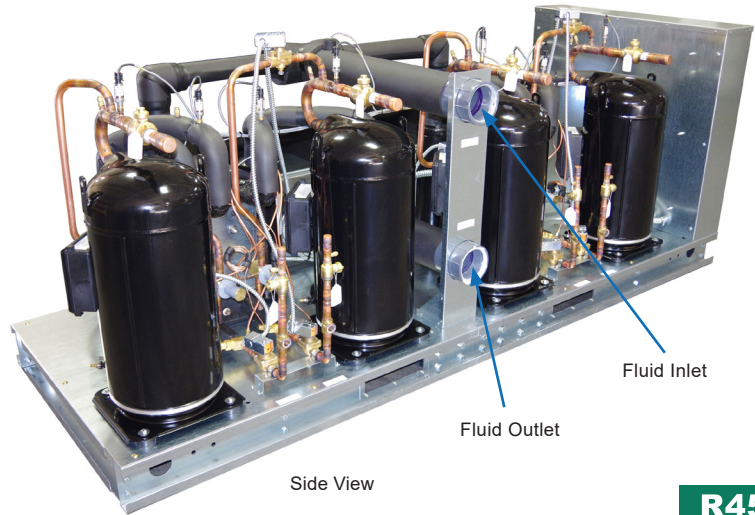
Toll-Free: (877) 988-5464

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

**Includes (Model OC50M) Outdoor Condenser*



Front View -
Open Electrical Panel



Side View

**R454A
Refrigerant**

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
- 4 independent refrigerant circuits
- 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
- **Water flow switch**
- **24V control transformer**
- Direct drive condenser fan motor
- Rust resistant, high CFM, aluminum condenser fan blade
- Condenser(s): copper tube/aluminum fin
- Compressor motor contactor
- Condenser motor and control circuit fusing
- **Galvanized sheet metal cabinet**
- 1/2" insulation on all water and Low pressure refrigerant lines
- Complete refrigerant charge from factory
- **Factory performance test prior to shipment**



Options:

- **VFD Compressor Control**
- **Process Pump VFD**
- **Remote Idec touchscreen control panel**
- **5 Port Ethernet Switch**
- **BacNet Gateway**
- **Hot gas by-pass capacity control**
- 4 year extended compressor warranty
- 115 volt (rain tight) service outlet
- Non Fused Rotary Disconnect
- Phase Monitor, line voltage monitor offering protection against phase loss/reversal, unbalance and High/Low voltage
- Compressor fusing or circuit breaker
- Compressor Sound Cover
- Flooded cond. w/receiver/head pressure control (0°F)
- Heated, flooded cond. w/receiver/head pressure (-20°F)
- Dual process pump with auto changeover
- Pump suction isolation valve
- Water pressure gauge set
- Copper finned condenser coil (coastal protection)
- Coastal powder coat paint protection
- **E-Coat Condenser Coil (coastal protection)**
- Water Flow Meter
- Auto city water changeover panel with filter
- Stainless steel, SCH80 PVC or Polypropylene piping for deionize and reverse osmosis water systems
- Door Mounted HMI weather proof cover

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Dimensional & Electrical Table (Quad Circuit)

Chiller Model	Nominal BTUH	Length Inches	Width Inches	Height Inches	Power			Compressor Qty.	RLA ea.	LRA ea.	Fan Motor		MCA	MOP	Chiller Fluid Conn	Weight Pounds	Condenser Model
					Voltage	Phase	Freq.				Qty.	FLA ea.					
IEZA50MF7	608000	112	40	42	208/230	3	60	4	47.4	298	7	229	250	3 "FPT	2550	OC50M	
IEZA50MH7					460	3	60		21.8	150	4	3.5	107				110
IEZA50MI7					575	3	60		18.7	123		2.8	91				100

OC50M (Outdoor Condenser Specs)

Condenser Model	Length Inches	Width Inches	Height Inches	Fan Motor		Refrigerant Connections		Weight / lbs.
				Qty.	HP	Discharge	Liquid	
OC50M	127	88	49	4	1 1/2	1 5/8" (4)	1 1/8" (4)	1340

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
50M	YB83KAE	42	52.5	45.8	13.8	49.3	50.6	11.7	47.7	53.4	10.7	46.0	56.2	9.8	44.2	59.2	9.0
		44	54.7	46.0	14.3	51.3	50.8	12.1	49.7	53.6	11.1	47.8	56.4	10.2	46.2	59.4	9.3
		45	55.8	46.0	14.6	52.5	51.0	12.4	50.7	53.6	11.4	48.8	56.4	10.4	47.2	59.6	9.5
		50	61.8	46.4	16.0	58.0	51.4	13.6	56.2	54.0	12.5	54.3	56.8	11.5	52.3	60.0	10.5

- 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.
- 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

R454A
 Refrigerant

