

Date: Mar 10, 2024

Job: AWIC 6x6 FREEZER SINGLE PHASE

Customer: AWIC 6x6 FREEZER SINGLE PHASE

Customer Details: -

General Contractor: -

Submitted By: -



General Requirements

Room Temperature: -5 °F	Ambient Temperature: 95 °F	Design Run-time: 18 Hrs	Required Capacity: 6,853 BTUH	
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Area Load

Section	Material	Thickness	X - Factor	Surface Temp	Dim. 1	Dim. 2	Load
Wall 1	Polyurethane	4 in	0.1	95 °F	6 ft	8 ft	4,032 BTU
Wall 2	Polyurethane	4 in	0.1	95 °F	6 ft	8 ft	4,032 BTU
Wall 3	Polyurethane	4 in	0.1	95 °F	6 ft	8 ft	4,032 BTU
Wall 4	Polyurethane	4 in	0.1	95 °F	6 ft	8 ft	4,032 BTU
Ceiling	Polyurethane	4 in	0.1	110 °F	6 ft	6 ft	3,477.6 BTU
Floor	Polyurethane	4 in	0.1	65 °F	6 ft	6 ft	2,116.8 BTU

Total Area Load: 21,722.4 BTU

Product Load - Auto Usage Selected

Total Product Load: 6,220.8 BTU

Air Change Load

Dry Bulb: 87.6 °F	Wet Bulb: 71.7 °F		
Door Type 1: Man	Number of Door Type 1: 1	Door Usage: Average	
Door Type 1: Curtains: None	Door Type 1 Curtain Efficiency: 0%	Total Door Type 1 Load: 16,800 BTU	
		Total Air Change Load:	47,653.9 BTU

Miscellaneous Load

People Load: 33,600 BTU	Lighting Load: 2,950.6 BTU	Motor Load: 0 BTU
Other Load: 0 BTU		Total Misc. Load: 36,550.6 BTU

Load Calculation Summary

Total Design Load: 112,147.7 BTU	Safety Factor: 10%	Total Required Load: 123,362.4 BTU

6X6 FREEZER - System Design Summary

General Requirements

Room Temperature: -5 °F	Ambient Temperature: 95 °F	Design Run-time: 18 Hrs	Required Capacity: 6853 BTUH
Design TD: 10 °F	Refrigerant: R-448A	Altitude: 0 FT	

Selected Equipment

Line Item	Quantity	Туре	Tag	Description
1.0	1	System	6X6 FREEZER	R-448A - Refrigeration Equipment Match 1
1.1	1	Condensing Unit	CDU-1	RFO230L4SDA
1.2	1	Unit Cooler	UC-1	RL6E066DDA

System Balance

Balanced Capacity: 7,274.4 BTUH	Evap. T.D.: 9.4 °F	Line Loss: 2 °F	Suction Temp: -16.4 °F	Calc. Run-Time: 17 Hrs

General Data

Model Line: NEXT-GEN MINI-CON	Model Number: RFO230L4SDA	Flooded: Yes
Refrigerant: R-448A	Voltage: 208-230/1/60	Compressor Type: SCROLL

Performance Data

Ambient Temp: 95 °F	Suction Temp: -17 °F	Capacity: 6,946 BTUH

Electrical Data

Compressor RLA: 12.4	Compressor LRA: 75	Total Condenser Fan FLA: 1
MCA: 23.5	MOPD: 35	

Physical Data

Number of Compressors: 1	Compressor Model: ZF07KAE	Compressor HP: 2.3
Number of Condenser Fans: 2	Approx. Ship Weight: 230 lbs	Sound Data: 71 dBA
Liquid Line: 3/8 in.	Suction Line: 7/8 in.	
Pump Down Capacity (%): 90	Pump Down Capacity: 11.6 lbs	

Option Data

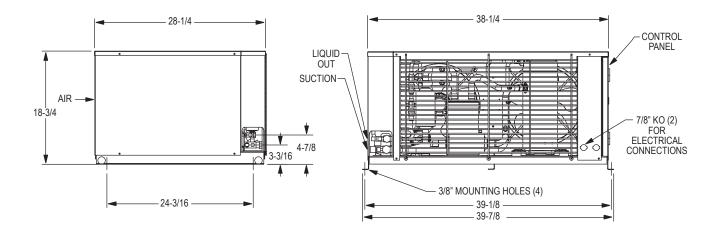
Mounted Option	ADD/MODIFY DEFROST KIT: ED5
Mounted Option	LIQUID LINE WITH COMPONENTS: SEALED FILTER & SIGHT GLASS
Mounted Option	STANDARD RECEIVER
Mounted Option	FIXED HIGH/ADJUSTABLE LOW PRESSURE CONTROL

Compliance Data

AWEF: 3.14

Notes

Dimensional Drawing



Standard Features

- · All-weather Galvanized steel painted housing
- Generously sized high efficiency condenser, enhanced copper tubes/aluminum fins
- Integral Liquid Subcooling Circuit provides subcooled liquid to the expansion device
- · Crankcase heater
- · Large electrical panel with hinged/removable door
- · Color coded point-to-point wiring

- · Quick access to shut off valves from exterior
- UL/cUL certified for use with multiple refrigerants
- UL/cUL listed for outdoor use
- Flooded models include flooded head pressure control
- Non flooded models include mild ambient fan cycle control

Certifications



General Data

Model Line: NEXT-GEN ALL-TEMP	Model Number: RL6E066DDA	Motors: DUAL SPEED EC MOTOR
Unit Voltage: 208-230/1/60	Defrost Type: ELECTRIC DEFROST	Refrigerant: R-448A
Fins Per Inch: 6	Number of Fans: 2	

Performance Data

Suction Temp: -15 °F	T.D: 9.4 °F	Capacity: 7,274.4 BTUH	CFM: 1600	

Electrical Data

Motor Voltage: 208-230/1/60	Total Unit Fan Motor Amps: 1	
Heater Voltage: 208-230/1/60	Heater Amps: 9.8	Heater Watts: 2250
MCA: 15	MOPD: 20	

Physical Data

Liquid Line: 3/8 in.	Suction Line: 7/8 in.	Approx. Ship Weight: 52 lbs

Option Data

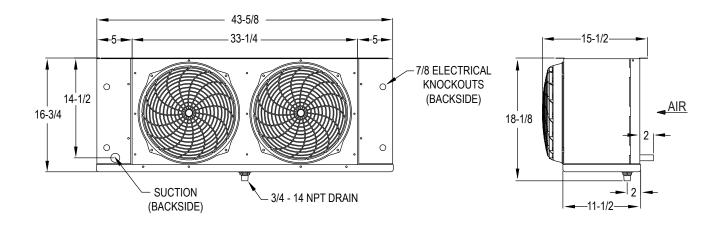
Mounted Option	EcoNet Control Package
Mounted Option	Fixed Defrost Control / Fan Delay Switch

Compliance Data

AWEF: 4.15

Notes

Dimensional Drawing



Standard Features

- · Embossed aluminum housing
- Enhanced copper tube and aluminum fin coil construction
- Sweat connections
- · Thermal overload protection
- High efficiency fan guard design and deep draw venturi
- Heavy-duty fans are balanced for vibration-free operation

- Fan sections are baffled to prevent short cycling of air
- Slide out end panels
- · Removable drain pan
- · Mounts flush to the ceiling
- Top pan includes 1/2" wide slotted mounting points
- · UL/cUL certified for use with multiple refrigerants
- NSF approved for use in food preparation areas

Certifications



