

	Date: Mar 10, 2024
Job:	AWIC 8X8 FREEZER SINGLE PHASE
Customer:	AWIC 8X8 FREEZER SINGLE PHASE
Customer Details:	-
General Contractor:	-
Submitted By:	-



### **General Requirements**

Room	Temperature: -5 °F	Ambient Te
1100111		

emperature: **95** °F Design Run-time: **18** Hrs

Required Capacity: 8,438 BTUH

## Area Load

Section	Material	Thickness	X - Factor	Surface Temp	Dim. 1	Dim. 2	Load
Wall 1	Polyurethane	4 in	0.1	95 °F	8 ft	8 ft	5,376 BTU
Wall 2	Polyurethane	4 in	0.1	95 °F	8 ft	8 ft	5,376 BTU
Wall 3	Polyurethane	4 in	0.1	95 °F	8 ft	8 ft	5,376 BTU
Wall 4	Polyurethane	4 in	0.1	95 °F	8 ft	8 ft	5,376 BTU
Ceiling	Polyurethane	4 in	0.1	110 °F	8 ft	8 ft	6,182.4 BTU
Floor	Polyurethane	4 in	0.1	65 °F	8 ft	8 ft	3,763.2 BTU

Total Area Load: 31,449.6 BTU

## **Product Load - Auto Usage Selected**

Total Product Load: 11,059.2 BTU

### Air Change Load

Dry Bulb: <b>87.6</b> °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:	56,726 BTU

## **Miscellaneous Load**

People Load: 33,600 BTU	Lighting Load: 5,245.4 BTU	Motor Load: 0 BTU
Other Load: 0 BTU		Total Misc. Load: 38,845.4 BTU

## Load Calculation Summary

Total Design Load: 138,080.2 BTUSafety Factor: 10%Total Required Load: 151,888.2 BTU	
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## 8X8 FREEZER - System Design Summary

# **General Requirements**

Room Temperature: -5 °F	Ambient Temperature: 95 °F	Design Run-time: 18 Hrs	Required Capacity: 8438 BTUH
Design TD: <b>10</b> ° <b>F</b>	Refrigerant: <b>R-448A</b>	Altitude: 0 FT	

### **Selected Equipment**

1.01System8X8 FREEZERR-448A - Refrigeration Equipment Match 11.11Condensing UnitCDU-1RFO250L4SDA1.21Unit CoolerUC-1RL6E077DDA	Line Item	Quantity	Туре	Tag	Description
	1.0	1	System	8X8 FREEZER	R-448A - Refrigeration Equipment Match 1
1.2 1 Unit Cooler UC-1 RL6E077DDA	1.1	1	Condensing Unit	CDU-1	RFO250L4SDA
	1.2	1	Unit Cooler	UC-1	RL6E077DDA

#### System Balance

Balanced Capacity: 9,046.6 BTUH	Evap. T.D.: <b>10.1</b> °F	Line Loss: <b>2</b> °F	Suction Temp: -17.1 °F	Calc. Run-Time: 16.8 Hrs
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## 8X8 FREEZER - CDU-1 - Product Information

#### **General Data**

Model Line: NEXT-GEN MINI-CON	Model Number: RFO250L4SDA	Flooded: Yes
Refrigerant: <b>R-448A</b>	Voltage: 208-230/1/60	Compressor Type: SCROLL

#### **Performance Data**

Ambient Temp: <b>95</b> °F	Suction Temp: -17 °F	Capacity: 8,688 BTUH

### **Electrical Data**

Compressor RLA: 14.7	Compressor LRA: 73	Total Condenser Fan FLA: 1
MCA: <b>30.4</b>	MOPD: <b>45</b>	

## **Physical Data**

Number of Compressors: 1	Compressor Model: ZF08K4E	Compressor HP: 2.5
Number of Condenser Fans: 2	Approx. Ship Weight: 240 lbs	Sound Data: 73 dBA
Liquid Line: 3/8 in.	Suction Line: 7/8 in.	
Pump Down Capacity (%): 90	Pump Down Capacity: 14.3 lbs	

## **Option Data**

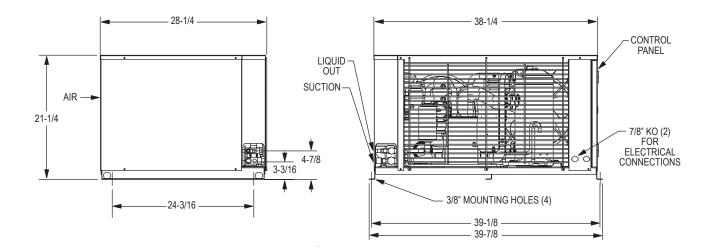
Mounted Option	ADD/MODIFY DEFROST KIT: ED5
Mounted Option	LIQUID LINE WITH COMPONENTS: SEALED FILTER & SIGHT GLASS
Mounted Option	STANDARD RECEIVER
Mounted Option	FIXED HIGH/ADJUSTABLE LOW PRESSURE CONTROL

### **Compliance Data**

AWEF: 3.15

#### 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



## 8X8 FREEZER - UC-1 - Product Information

### **General Data**

Iodel Line: NEXT-GEN ALL-TEMP Model Number: RL6E077DDA			Motors: DUAL SPEED EC MOTOR	
Unit Voltage: 208-230/1/60		Defrost Type: E	LECTRIC DEFROST	Refrigerant: R-448A
Fins Per Inch: 6		Number of Fans	s: <b>2</b>	
Performance Data				
Suction Temp: -15 °F	T.D: <b>10.1</b>	°F	Capacity: 9,046.6 BTUH	CFM: <b>1570</b>
Electrical Data				
		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: <b>3/8</b> in.		Suction Line: 7/	8 in.	Approx. Ship Weight: 55 lbs
Option Data				

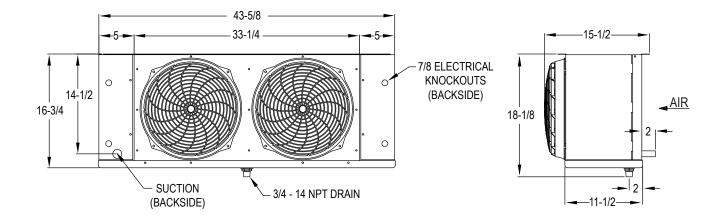
Mounted Option	EcoNet Control Package
Mounted Option	Fixed Defrost Control / Fan Delay Switch

## **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

