

	Date: Mar 10, 2024
Job:	AWIC 7X8 FREEZER SINGLE PHASE
Customer:	AWIC 7X8 FREEZER SINGLE PHASE
Customer Details:	-
General Contractor:	-
Submitted By:	-



#### **General Requirements**

Room	Temperature: -5 °F	Ambient	Tompo
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perature: **95** °F Design Run-time: **18** Hrs

Required Capacity: 8,014 BTUH

## Area Load

Section	Material	Thickness	X - Factor	Surface Temp	Dim. 1	Dim. 2	Load
Wall 1	Polyurethane	4 in	0.1	95 °F	7 ft	8 ft	4,704 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	7 ft	8 ft	4,704 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	7 ft	8 ft	5,409.6 BTU
Floor	Polyurethane	4 in	0.1	65 °F	7 ft	8 ft	3,292.8 BTU

Total Area Load: 28,862.4 BTU

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

Total Product Load: 9,676.8 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:	54,407.5 BTU

### **Miscellaneous Load**

People Load: 33,600 BTU	Lighting Load: 4,589.8 BTU	Motor Load: 0 BTU
Other Load: 0 BTU		Total Misc. Load: 38,189.8 BTU

### Load Calculation Summary

Tatal Daaiwa Laadu <b>404 400 5 DT</b> U		Tatal Damina di anali 444.050 4 DTU
Total Design Load: 131,136.5 BTU	Safety Factor: 10%	Total Required Load: 144,250.1 BTU

# 7X8 FREEZER - System Design Summary

# **General Requirements**

Room Temperature: -5 °F	Ambient Temperature: 95 °F	Design Run-time: 18 Hrs	Required Capacity: 8014 BTUH
Design TD: 10 °F	Refrigerant: <b>R-448A</b>	Altitude: 0 FT	

### **Selected Equipment**

Line Item	Quantity	Туре	Тад	Description
1.0	1	System	7X8 FREEZER	R-448A - Refrigeration Equipment Match 1
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: 15.9 Hrs
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# 7X8 FREEZER - CDU-1 - Product Information

#### **General Data**

Refrigerant: R-448A Voltage: 208-230/1/60	Compressor Type: SCROLL

#### **Performance Data**

Ambient Temp: 95 °F	Suction Temp: -17 °F	Capacity: 8,688 BTUH

#### **Electrical Data**

Compressor RLA: 14.7	Compressor LRA: 73	Total Condenser Fan FLA: 1
MCA: 30.4	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**

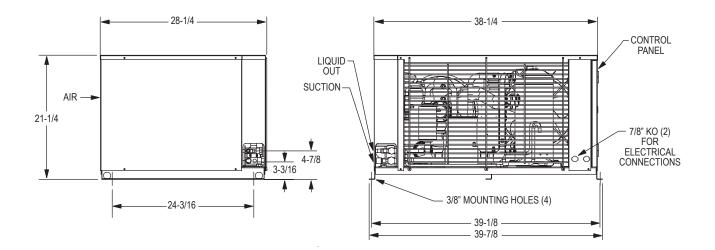
Mounted Option	ADD/MODIFY DEFROST KIT: ED5
Mounted Option	LIQUID LINE WITH COMPONENTS: SEALED FILTER & SIGHT GLASS
Mounted Option	STANDARD RECEIVER
Mounted Option	FIXED HIGH/ADJUSTABLE LOW PRESSURE CONTROL

#### **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



# 7X8 FREEZER - UC-1 - Product Information

#### **General Data**

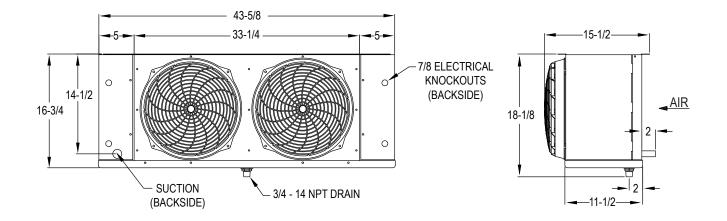
Model Line: NEXT-GEN A	LL-TEMP	Model Number: R	L6E077DDA	Motors: DUAL SPEED EC MOTO		
Unit Voltage: 208-230/1/60	)	Defrost Type: ELI	ECTRIC DEFROST	Refrigerant: <b>R-448A</b>		
Fins Per Inch: 6		Number of Fans:	2			
Performance Da	ita					
Suction Temp: -15 °F	T.D: <b>10.1</b>	°F	Capacity: <b>9,046.6</b> BTUH	CFM: <b>1570</b>		
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: <b>3/8</b> in.		Suction Line: 7/8	n.	Approx. Ship Weight: 55 lbs		
Option Data						
Mounted Option E	EcoNet Control Package					
Mounted Option F	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

