

Date: Mar 10, 2024

Job: AWIC 7X9 COOLER SINGLE PHASE

Customer: AWIC 7X9 COOLER SINGLE PHASE

Customer Details: -

General Contractor: -

Submitted By: -



# **General Requirements**

Though reiniperature. 33 i Ambient reiniperature. 33 i Design nun-time. 10 ins riequired Capacity. 0,107 Dioin	Room Temperature: 35 °F	Ambient Temperature: 95 °F	Design Run-time: 16 Hrs	Required Capacity: 8,107 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	7 ft	8 ft	2,822.4 BTU
Wall 2	Polyurethane	4 in	0.1	95 °F	10 ft	8 ft	4,032 BTU
Wall 3	Polyurethane	4 in	0.1	95 °F	7 ft	8 ft	2,822.4 BTU
Wall 4	Polyurethane	4 in	0.1	95 °F	10 ft	8 ft	4,032 BTU
Ceiling	Polyurethane	4 in	0.1	110 °F	7 ft	10 ft	4,410 BTU
Floor	Concrete	6 in	1.3	65 °F	7 ft	10 ft	10,500 BTU

Total Area Load: 28,618.8 BTU

# **Product Load - Auto Usage Selected**

Total Product Load: 12,096 BTU

### **Air Change Load**

Dry Bulb: 87.6 °F	Wet Bulb: 71.7 °F		
Door Type 1: <b>Man</b>	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:	<b>49,865.7</b> BTU

### **Miscellaneous Load**

People Load: 21,600 BTU	Lighting Load: 5,737.2 BTU	Motor Load: <b>0</b> BTU
Other Load: <b>0</b> BTU		Total Misc. Load: 27,337.2 BTU

### **Load Calculation Summary**

Total Design Load: 117,917.7 BTU	Safety Factor: 10%	Total Required Load: 129,709.5 BTU

# 7X10 COOLER - System Design Summary

### **General Requirements**

Room Temperature: 35 °F	Ambient Temperature: 95 °F	Design Run-time: 16 Hrs	Required Capacity: 8107 BTUH
Design TD: 10 °F	Refrigerant: R-448A	Altitude: 0 FT	

### **Selected Equipment**

Line Item	Quantity	Туре	Tag	Description
1.0	1	System	7X9 COOLER	R-448A - Refrigeration Equipment Match 1
1.1	1	Condensing Unit	CDU-1	RFO080M4SDA
1.2	1	Unit Cooler	UC-1	RL6A066ADA

### **System Balance**

Balanced Capacity: 7,979.9 BTUH Evap. T.D.: 10.2 °F Line Loss: 2 °F Suction Temp: 22.8 °F Calc. Run-Time: 16.3 Hrs

#### **General Data**

Model Line: NEXT-GEN MINI-CON	Model Number: RFO080M4SDA	Flooded: <b>Yes</b>
Refrigerant: <b>R-448A</b>	Voltage: 208-230/1/60	Compressor Type: SCROLL

#### **Performance Data**

Ambient Temp: 95 °F	Suction Temp: 23 °F	Capacity: 7,672 BTUH

### **Electrical Data**

Compressor RLA: <b>5.9</b>	Compressor LRA: 48.9	Total Condenser Fan FLA: <b>0.5</b>
MCA: <b>15</b>	MOPD: 15	

### **Physical Data**

Number of Compressors: 1	Compressor Model: <b>ZB07KAE</b>	Compressor HP: 0.75
Number of Condenser Fans: 1	Approx. Ship Weight: 195 lbs	Sound Data: 70 dBA
Liquid Line: 3/8 in.	Suction Line: 5/8 in.	
Pump Down Capacity (%): 90	Pump Down Capacity: 6.1 lbs	

### **Option Data**

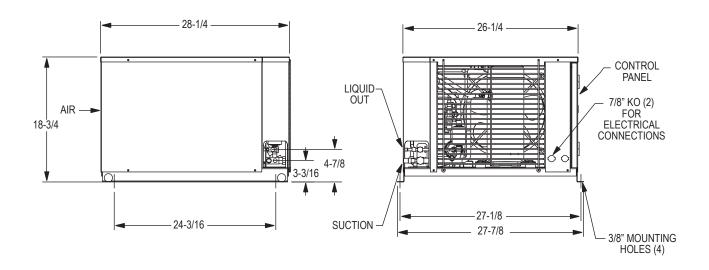
Mounted Option	NO STANDARD AIR DEFROST TIMER
Mounted Option	LIQUID LINE WITH COMPONENTS: SEALED FILTER & SIGHT GLASS
Mounted Option	STANDARD RECEIVER
Mounted Option	FIXED HIGH/ADJUSTABLE LOW PRESSURE CONTROL

# **Compliance Data**

AWEF: **7.60** 

#### **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: RL6A066ADA	Motors: DUAL SPEED EC MOTOR
Unit Voltage: 115/1/60	Defrost Type: AIR DEFROST	Refrigerant: <b>R-448A</b>
Fins Per Inch: 6	Number of Fans: 1	

#### **Performance Data**

Suction Temp: 25 °F	T.D: <b>10.2</b> °F	Capacity: 7,979.9 BTUH	CFM: <b>775</b>	

### **Electrical Data**

Motor Voltage: 115/1/60	Total Unit Fan Motor Amps: 0.8	
Heater Voltage: 115/1/60	Heater Amps: 0	Heater Watts: 0
MCA: <b>15</b>	MOPD: <b>20</b>	

# **Physical Data**

Liquid Line: 3/8 in.	Suction Line: 5/8 in.	Approx Chip Weight: 47 lbs
Liquid Line. 3/6 in.	Suction Line. 3/6 in.	Approx. Ship Weight: 47 lbs

# **Option Data**

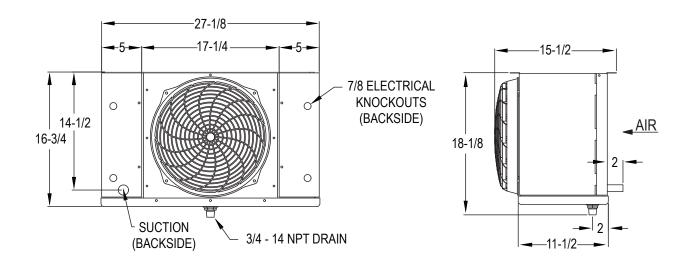
Mounted Option	EcoNet Control Package	
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# **Compliance Data**

AWEF: 9.00

#### **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**



