

	Date: Mar 10, 2024
Job:	AWIC 8X14 COOLER SINGLE PHASE
Customer:	AWIC 8X14 COOLER SINGLE PHASE
Customer Details:	-
General Contractor:	-
Submitted By:	-



### **General Requirements**

	Room Temperature: 35 °F	Ambient Temperature: 95 °F	Design Run-time: 16 Hrs
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Required Capacity: 10,267 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	3,225.6 BTU
Wall 2	Polyurethane	4 in	0.1	95 °F	14 ft	8 ft	5,644.8 BTU
Wall 3	Polyurethane	4 in	0.1	95 °F	8 ft	8 ft	3,225.6 BTU
Wall 4	Polyurethane	4 in	0.1	95 °F	14 ft	8 ft	5,644.8 BTU
Ceiling	Polyurethane	4 in	0.1	110 °F	8 ft	14 ft	7,056 BTU
Floor	Concrete	6 in	1.3	65 °F	8 ft	14 ft	16,800 BTU

Total Area Load: 41,596.8 BTU

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

Total Product Load: 19,353.6 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:	57,615.4 BTU

### **Miscellaneous Load**

People Load: 21,600 BTU	Lighting Load: 9,179.5 BTU	Motor Load: 0 BTU
Other Load: 0 BTU		Total Misc. Load: 30,779.5 BTU

## Load Calculation Summary

Total Design Load: 149,345.3 BTU	Safety Factor: 10%	Total Required Load: 164,279.8 BTU

# 8X14 COOLER - System Design Summary

# **General Requirements**

Room Temperature: 35 °F	Ambient Temperature: 95 °F	Design Run-time: 16 Hrs	Required Capacity: 10267 BTUH
Design TD: 10 °F	Refrigerant: <b>R-448A</b>	Altitude: 0 FT	

### **Selected Equipment**

Line Item	Quantity	Туре	Tag	Description
1.0	1	System	8X14 COOLER	R-448A - Refrigeration Equipment Match 1
1.1	1	Condensing Unit	CDU-1	RFO130E4SDA
1.2	1	Unit Cooler	UC-1	RL6A094ADA

#### System Balance

Balanced Capacity: 9,857.8 BTUH	Evap. T.D.: <b>9</b> °F	Line Loss: <b>2</b> °F	Suction Temp: 24 °F	Calc. Run-Time: <b>16.7</b> Hrs
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# 8X14 COOLER - CDU-1 - Product Information

#### **General Data**

Model Line: NEXT-GEN MINI-CON	Model Number: RFO130E4SDA	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: 23 °F	Capacity: 9,308 BTUH

### **Electrical Data**

Compressor RLA: 9	Compressor LRA: 40.3	Total Condenser Fan FLA: 0.5
MCA: 15	MOPD: 20	

## **Physical Data**

Number of Compressors: 1	Compressor Model: <b>ZS09KAE</b>	Compressor HP: 1	
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**

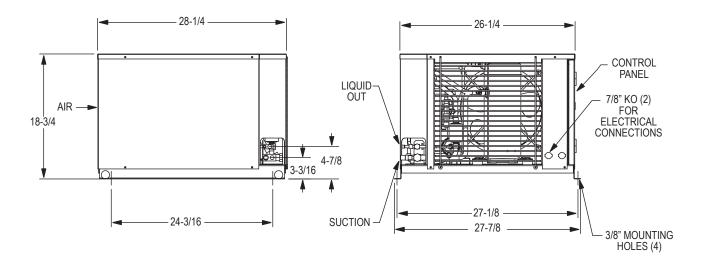
Mounted Option	NO STANDARD AIR DEFROST TIMER
Mounted Option	LIQUID LINE WITH COMPONENTS: SEALED FILTER & SIGHT GLASS
Mounted Option	STANDARD RECEIVER
Mounted Option	FIXED HIGH/ADJUSTABLE LOW PRESSURE CONTROL

### **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

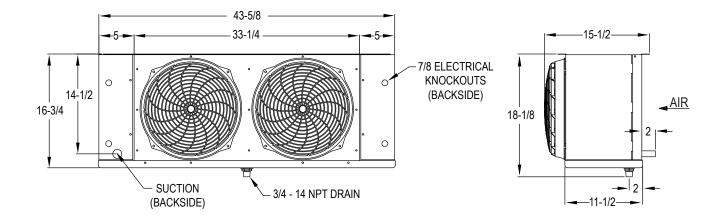


# 8X14 COOLER - UC-1 - Product Information

#### **General Data**

Model Line: NEXT-GEN ALL-TEMP	Model N	umber: RL6A094ADA	Motors: DUAL SPEED EC MOTOR	
Unit Voltage: 115/1/60	Defrost <sup>-</sup>	Type: AIR DEFROST	Refrigerant: <b>R-448A</b>	
Fins Per Inch: 6	Number	Number of Fans: 2		
Performance Data				
Suction Temp: 25 °F	T.D: <b>9</b> °F	Capacity: 9,857.8 BTUH	CFM: <b>1570</b>	
Electrical Data				
Motor Voltage: 115/1/60	0 Total Unit Fan Motor Amps: 1.6			
Heater Voltage: 115/1/60	Heater A	Amps: <b>0</b>	Heater Watts: 0	
MCA: 15	MOPD:	20		
Physical Data	Quotion	Line: <b>5/8</b> in.	Approx. Ship Weight: <b>55</b> lbs	
	Suction		Approx. Ship weight. 55 lbs	
Option Data				
Mounted Option EcoNet Co	ounted Option EcoNet Control Package			
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

