

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



General Requirements

Room	Temperature:	35 °F	Ambien
1100111	remperature.	33 1	AIIDIEII

nt Temperature: 95 °F Design Run-time: 16 Hrs

Required Capacity: 11,389 BTUH

Area Load

Section	Material	Thickness	X - Factor	Surface Temp	Dim. 1	Dim. 2	Load
Wall 1	Polyurethane	4 in	0.1	95 °F	10 ft	8 ft	4,032 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	10 ft	8 ft	4,032 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	10 ft	14 ft	8,820 BTU
Floor	Concrete	6 in	1.3	65 °F	10 ft	14 ft	21,000 BTU

Total Area Load: 49,173.6 BTU

Product Load - Auto Usage Selected

Total Product Load: 21,504 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:	61,906.5 BTU

Miscellaneous Load

People Load: 21,600 BTU	Lighting Load: 11,474.4 BTU	Motor Load: 0 BTU
Other Load: 0 BTU		Total Misc. Load: 33,074.4 BTU

Load Calculation Summary

Total Design Load: 165,658.5 BTUSafety Factor: 10%Total Required Load: 182,224.4 BTU	.4 BTU
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10X14 COOLER - System Design Summary

General Requirements

Room Temperature: 35 °F	Ambient Temperature: 95 °F	Design Run-time: 16 Hrs	Required Capacity: 11389 BTUH
Design TD: 10 °F	Refrigerant: R-448A	Altitude: 0 FT	

Selected Equipment

	Quantity	Туре	Tag	Description
1.0	1	System	10X14 COOLER	R-448A - Refrigeration Equipment Match 1
1.1	1	Condensing Unit	CDU-1	RFO150E4SDA
1.2	1	Unit Cooler	UC-1	RL6A094ADA

System Balance

Balanced Capacity: 11,917.8 BTUH Evap. T.D.: 10.9 °F Line Loss: 2 °F Suction Temp: 22.1 °F Calc.	alc. Run-Time: 15.3 Hrs
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10X14 COOLER - CDU-1 - Product Information

General Data

Model Line: NEXT-GEN MINI-CON	Model Number: RF0150E4SDA	Flooded: Yes
Refrigerant: R-448A	Voltage: 208-230/1/60	Compressor Type: SCROLL

Performance Data

	Out the Tames 00 0F	
Ambient Temp: 95 °F	Suction Temp: 23 °F	Capacity: 11,664 BTUH
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Electrical Data

Compressor RLA: 11.3	Compressor LRA: 55	Total Condenser Fan FLA: 1
MCA: 16.1	MOPD: 25	

Physical Data

Number of Compressors: 1	Compressor Model: ZS11KAE	Compressor HP: 1.5	
Number of Condenser Fans: 2	Approx. Ship Weight: 205 lbs	Sound Data: 71 dBA	
Liquid Line: 1/2 in.	Suction Line: 7/8 in.		
Pump Down Capacity (%): 90	Pump Down Capacity: 11.6 lbs		

Option Data

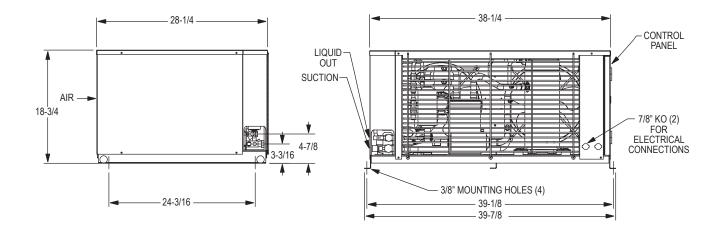
Mounted Option	NO STANDARD AIR DEFROST TIMER
Mounted Option	LIQUID LINE WITH COMPONENTS: SEALED FILTER & SIGHT GLASS
Mounted Option	STANDARD RECEIVER
Mounted Option	FIXED HIGH/ADJUSTABLE LOW PRESSURE CONTROL

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

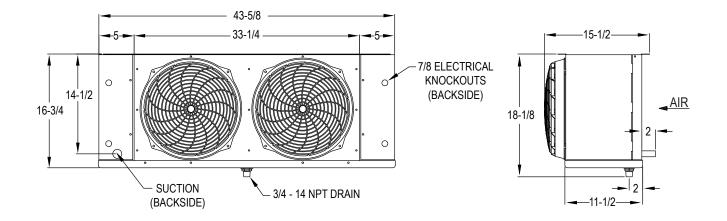


10X14 COOLER - UC-1 - Product Information

General Data

Model Line: NEXT-GEN ALL-TEMP	Model Nu	mber: RL6A094ADA	Motors: DUAL SPEED EC MOTOF		
Unit Voltage: 115/1/60	Defrost T	ype: AIR DEFROST	Refrigerant: R-448A		
Fins Per Inch: 6	Number o	of Fans: 2			
Performance Data					
Suction Temp: 25 °F	T.D: 10.9 °F	Capacity: 11,917.8 BTUH	CFM: 1570		
Electrical Data					
Motor Voltage: 115/1/60 Total Unit Fan Motor Ar		Fan Motor Amps: 1.6			
Heater Voltage: 115/1/60	Heater Ar	nps: 0	Heater Watts: 0		
MCA: 15	MOPD: 2	0			
Physical Data					
Liquid Line: 3/8 in.	Suction L	ine: 5/8 in.	Approx. Ship Weight: 55 lbs		
Option Data					
Mounted 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

