Operation & Installation Manual

MODEL RSC Remote REFRIGERATED SHOWCASE







Document Part #: 1221178

ECN: 56951 Date: 10-25-2017

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The RSC refrigerated display showcase units have been safety and performance-test approved by Intertek, a safety regulatory testing agency. In the course of new installations or periodic inspections, reference to agency approvals may be required. The regulatory agency file number is listed below and at the bottom of the Specification table on page 5.

ETL File #4007858



Intertek



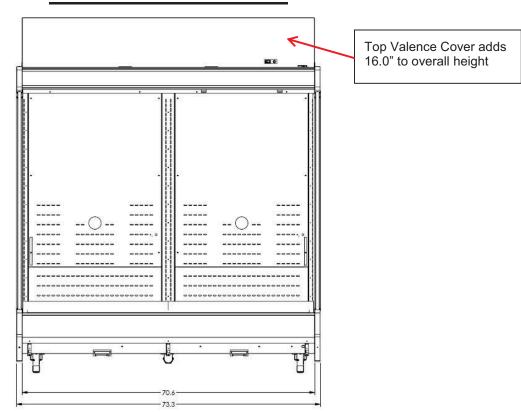
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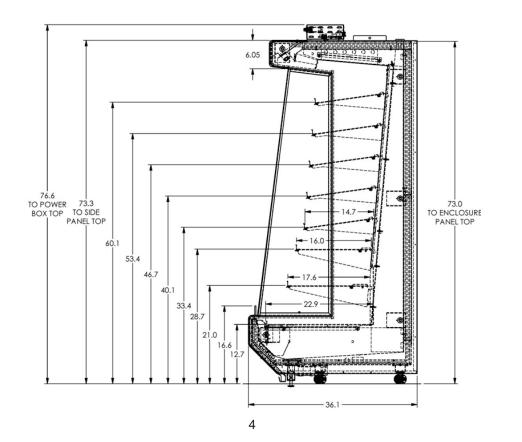
CONTENTS

DIMENSIONS RSC 6	4
SPECIFICATIONS RSC 6	5
DIMENSIONS RSC 4	6
SPECIFICATIONS RSC 4	7
DIMENSIONS RSC 3	8
SPECIFICATIONS RSC 3	9
SAFETY PRECAUTIONS	10
UNPACKING	11
INITIAL SET-UP	12 – 17
Cabinet Set-up.	12 - 17
ELECTRICAL INSTALLATION	18 - 19
Wiring Diagram	19
REFRIGERATION INSTALLATION	20 - 21
VALANCE INSTALLATION	21 - 22
START-UP & OPERATING INFORMATION	23 - 24
Start-up Information and Performance Evaluation	23
Operating Guidelines	23
Controller Operation and Error Codes.	24
GENERAL MAINTENANCE	25 - 29
Cleaning the Honeycomb	25 - 26
Cleaning the Filter	27 - 28
Cleaning the Bottom of the Inner Box & the Drain	28
Cleaning the Cabinet	29
STORING THE CABINET	29
TROUBLESHOOTING	29 - 30
SERVICE PARTS	31

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DIMENSIONS RSC 6





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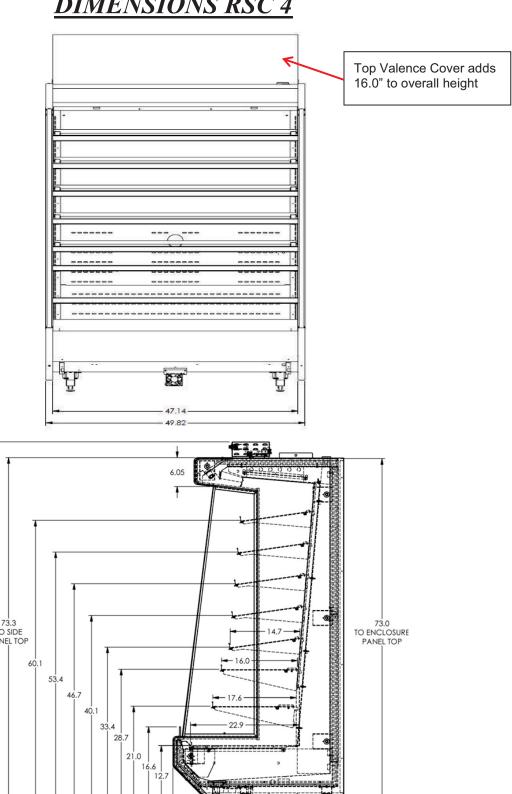
SPECIFICATIONS RSC 6

Model		RSC6 (RAC)			
Product Temperature		Maintain product temperature at or below 41°F			
Environmental Conditions		NSF/ANSI 7 Type II Standard, maximum indoor 80°F, relative humidity 54%			
	Width	73.5"			
External Dimensions	Depth	36.1"			
	Height	75.6" (91.6" with Valence)			
Cturestown	Outer / Inner Box	Powder coated steel / zinc coated steel			
Structure	Insulation	Rigid insulating foam			
Color		Internal: Black, External: Black (Optional: White/White available)			
Shelves		14 shelves (7 per side), adjustable powder coated steel frame, glass inserts standard (Optional: metal inserts)			
	Fan Motor	ECM high efficiency			
Electrical Parts 115/60/1 (3 Amp)	Lighting	LED			
115/60/1 (3 Amp)	Solenoid Valve	Hermetic direct acting solenoid valve for refrigeration (24V DC)			
Pipe Size of	Liquid Line	3/8" OD			
Connection Point	Suction Line	5/8" OD			
Refrigerant		R404A standard (Optional: R410A)			
Evaporator		Fin tube type			
Expansion Valve		External equalized automatic thermal expansion valve			
Controller		Digital programmable controller with Modbus communication protocol			
Casters		(4) 2" Casters			
Drain Pipe Dimensio	ons	1.5" NPT Male Connector			
Thermometer		Product simulation thermometer			
Internal Volume		41.46 ft³			
Weight		598 lb.			
Noise		Less than 65 dB at 4 ft.			
Agency Approvals		ETL File #4007858 Conforms to ANSI/UL 471, NSF Conforms to ANSI Std 7 Type II			

NOTE: The manufacturer reserves the right to make product improvements and change specifications without notice

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DIMENSIONS RSC 4



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SPECIFICATIONS RSC 4

Model		RSC4 (RAC)			
Product Temperature		Maintain product temperature at or below 41°F			
Environmental Conditions		NSF/ANSI 7 Type II Standard, maximum indoor 80°F, relative humidity 54%			
	Width	49.9"			
External Dimensions	Depth	36.1"			
Dimensions.	Height	75.6" (91.6" with Valence)			
St	Outer / Inner Box	Powder coated steel / zinc coated steel			
Structure	Insulation	Rigid insulating foam			
Color		Internal: Black, External: Black (Optional: White/White available)			
Shelves		7 shelves, adjustable powder coated steel frame, glass inserts standar (Optional: metal inserts)			
	Fan Motor	ECM high efficiency			
Electrical Parts 115/60/1 (3 Amp)	Lighting	LED			
	Solenoid Valve	Hermetic direct acting solenoid valve for refrigeration (24V DC)			
Pipe Size of	Liquid Line	3/8" OD			
Connection Point	Suction Line	5/8" OD			
Refrigerant		R404A standard (Optional: R410A)			
Evaporator		Fin tube type			
Expansion Valve		External equalized automatic thermal expansion valve			
Controller		Digital programmable controller with Modbus communication protocol			
Casters		(4) 2" Casters			
Drain Pipe Dimension	ons	1.5" NPT Male Connector			
Thermometer		Product simulation thermometer			
Internal Volume		27.75 ft³			
Weight		405 lb.			
Noise		Less than 65 dB at 4 ft.			
Agency Approvals		ETL File #4007858 Conforms to ANSI/UL 471, NSF			
		Conforms to ANSI Std 7 Type II			

NOTE: The manufacturer reserves the right to make product improvements and change specifications without notice

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DIMENSIONS RSC 3

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SPECIFICATIONS RSC 3

75.6" (91.6" with Valence)

Outer / Inner Box Powder coated steel / zinc coated steel

Rigid insulating foam

(Optional: metal inserts)

R404A standard (Optional: R410A)

ECM high efficiency

5/8" OD

Fin tube type

(4) 2" Casters

20.73 ft³

1.5" NPT Male Connector

Less than 65 dB at 4 ft.

ETL File #4007858

NOTE: The manufacturer reserves the right to make product improvements and change specifications without notice

Product simulation thermometer

Conforms to ANSI/UL 471, NSF Conforms to ANSI Std 7 Type II

37.9"

Environmental Conditions

Fan Motor

Liquid Line

Suction Line

Lighting

Dimensions

Electrical Parts

Pipe Size of **Connection Point**

Refrigerant Evaporator

Controller Casters

Expansion Valve

Thermometer

Internal Volume

Agency Approvals

Weight

Drain Pipe Dimensions

115/60/1 (3 Amp)

Structure

Maintain product temperature at or below 41°F

NSF/ANSI 7 Type II Standard, maximum indoor 80°F, relative humidity

Internal: Black, External: Black (Optional: White/White available)

Hermetic direct acting solenoid valve for refrigeration (24V DC)

Digital programmable controller with Modbus communication protocol

External equalized automatic thermal expansion valve

7 shelves, adjustable powder coated steel frame, glass inserts standard

Top Valence Cover adds 16.0" to overall height

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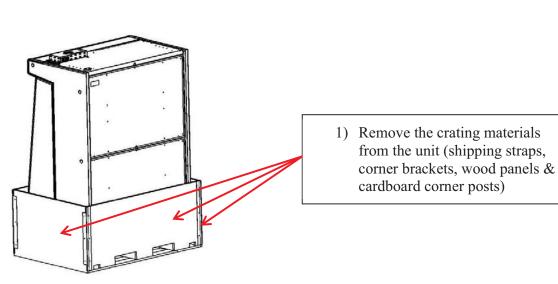
SAFETY PRECAUTIONS

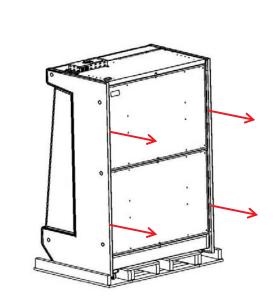
- Electrical service installation should only be performed by qualified, licensed Electricians.
- Mechanical service should only be performed by qualified, licensed Service Technicians.
- Use adequate equipment when moving the Refrigerated Showcase (RSC).
- Test for proper grounding to reduce the risk of electrical shock and fire.
- High voltage is present in the RSC. Disconnect power before servicing.
- Use only fully trained service technicians for power-on servicing.
- Use only authorized replacement parts.
- Be aware of inherent dangers in rocking or tipping the RSC.
- Lines are pressurized with nitrogen. Use caution when opening lines.
- Use refrigeration lines with adequate wall thickness to handle refrigeration pressures.
- Replacement fuse must have identical ratings as the fuse being replaced.
- If glass cracks or breaks, discard food items, and thoroughly remove all glass fragments.
- Do not place objects on top of the RSC that can fall or spill.
- The RSC is designed for indoor use only, in a controlled environment that typically does not exceed 80°F (27°C). Check system airflow as described in this document to ensure food is maintained at required temperatures.

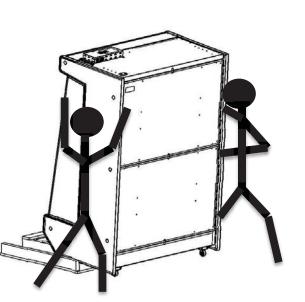


UNPACKING

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2) Slide the unit <u>**REARWARDS**</u> off pallet onto dolly(s) or loading mules. Note: <u>**DO NOT**</u> use the unit casters to move the unit anywhere other than in its final installation location.

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INITIAL SET-UP

The Model RSC Remote Refrigerated Showcase, when properly installed and maintained, is designed to provide years of trouble-free operation. This Operation & Installation Manual contains information necessary for proper installation, maintenance and cleaning of the unit.

If connecting 2 or more RSC units together, refer to separate RSC connection instructions provided with these

It is the responsibility of the installer to ensure the unit is installed and working properly. The following instructions provide step-by-step set-up, piping, condensate drain connections, wiring, start-up, performance and maintenance guidelines.

For Parts or Technical Service, please call: 1-800-344-7216 or FAX: 1-800-541-5684 or email: customerservice@vendoco.com

Additional reference manuals can be obtained at www.vendoco.com

be subjected to rain, splashed liquid, or excessive humidity.

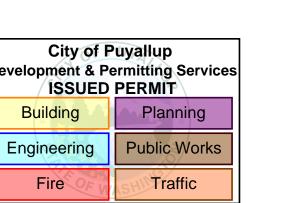
Step 1: Choose a location for your new refrigerated display case. Avoid placing the cabinet near equipment that releases heat. Avoid direct sunlight. To protect all electrical parts, do not place the cabinet where it will

Step 2: Check the airflow around the cabinet, since strong airflow may displace the cooled air in the Showcase. Place the cabinet where the airflow speed is less than 60 ft/min. Also, avoid areas subject to strong winds (see figures 1-7).

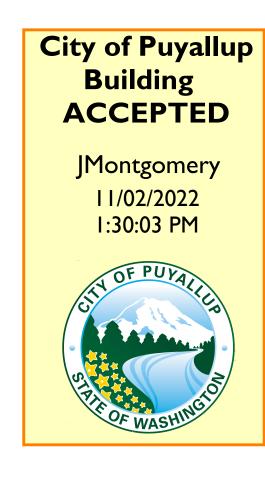
CABINET SET-UP

THE APPROVED CONSTRUCTION PLANS, DOCUMENTS AND ALL ENGINEERING MUST BE POSTED ON THE JOB AT ALL INSPECTIONS IN A VISIBLE AND READILY ACCESSIBLE LOCATION.

FULL SIZED LEDGIBLE COLOR PLANS ARE REQUIRED TO BE PROVIDED BY THE PERMITEE ON SITE FOR INSPECTION

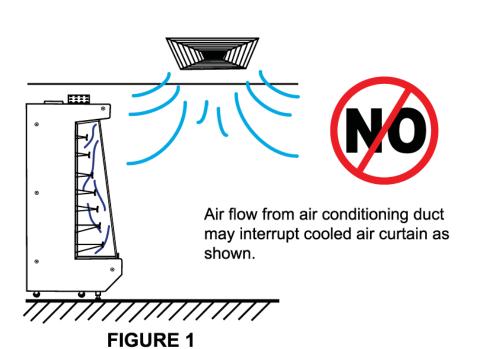


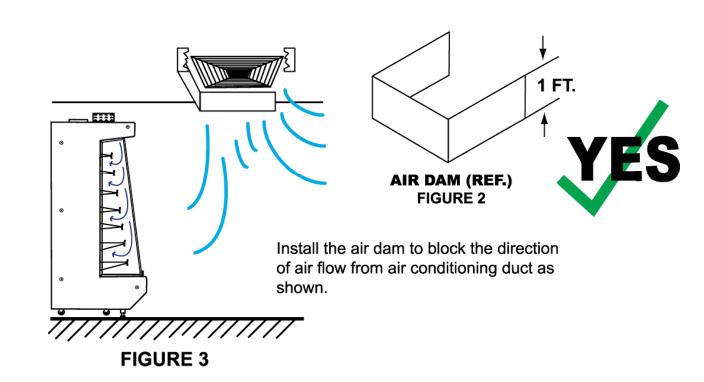
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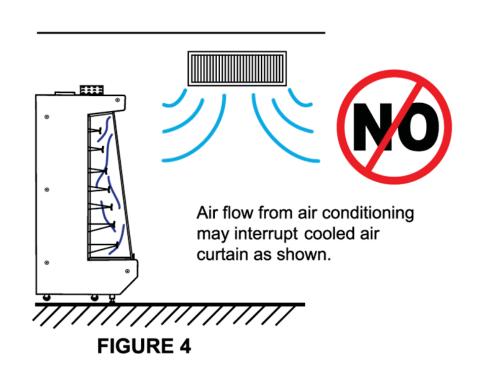
AIR CONDITIONING DUCT (CEILING TYPE)

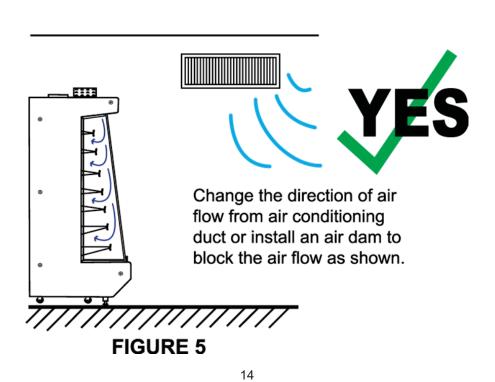




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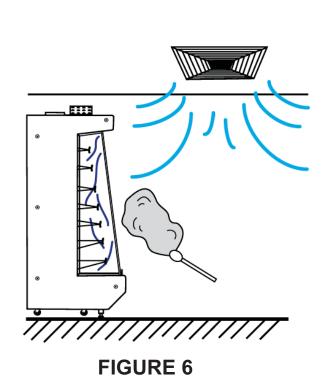
AIR CONDITIONING DUCT (WALL TYPE)





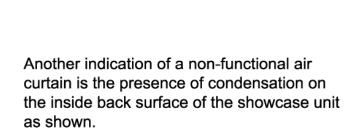
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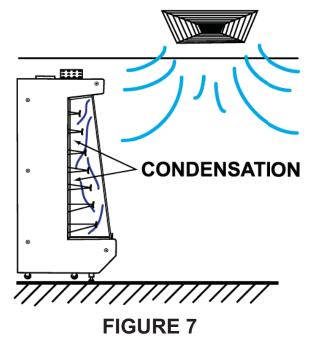
TO CHECK AIR CURTAIN



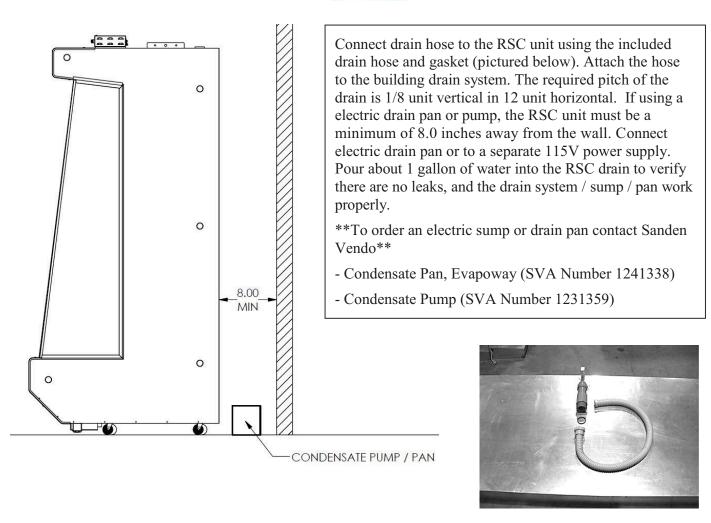
Hold smoke stick 1 foot from front opening of showcase as shown. If smoke travels upward, then the air curtain is If smoke travels into showcase the air curtain

is not functioning correctly.

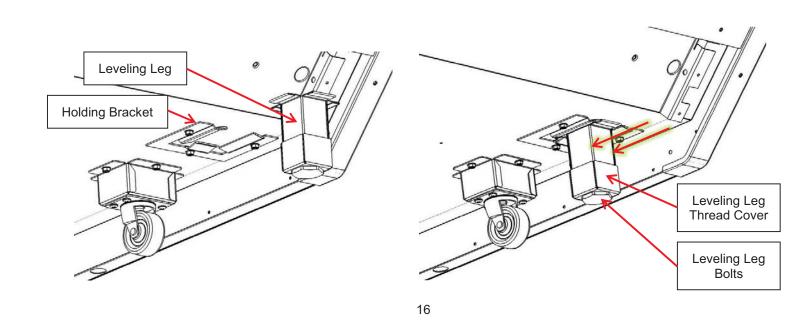




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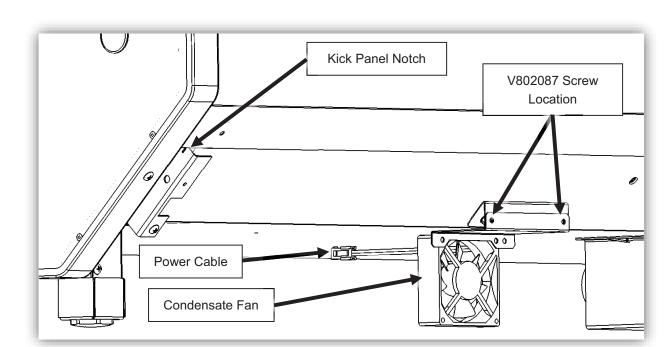


Install the <u>Leveling Legs</u> by sliding the leg into the pre-installed <u>Holding Bracket</u>. Begin installation by hand, and finish with a soft mallet. Insure unit is level by lowering and adjusting <u>Leveling Leg Bolts</u>. Insure the RSC does not roll and push down Thread Cover.

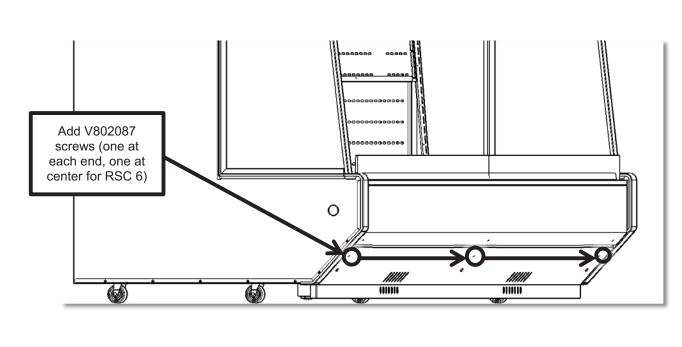


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Install condensate fans (one each side for RSC 6 model, or one in the center for the RSC 3 & RSC 4 models) using two <u>V802087</u> screws provided and <u>connect power cable</u> to harness (not shown). (NOT USED ON UNITS PRODUCED AFTER 9-5-17)



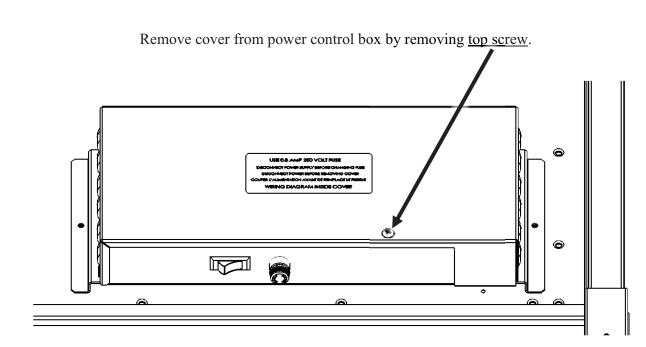
Install lower kick panel and engage upper lip in notches.

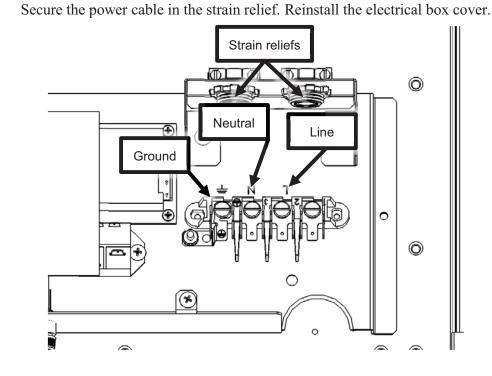


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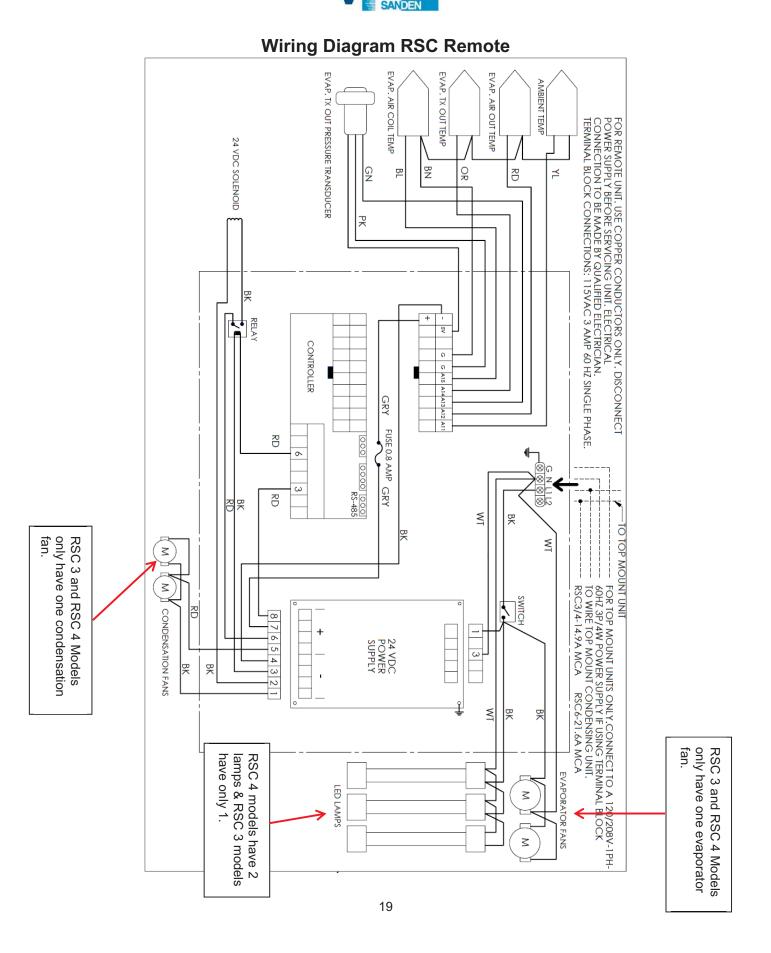
ELECTRICAL INSTALLATION

Have a qualified electrician remove the electrical box cover and connect electrical service (115 VAC, 3 amp 1 phase, copper conductors only) through one of the strain reliefs to the line, neutral and ground connections on the terminal block according to the labels stamped in the metal.





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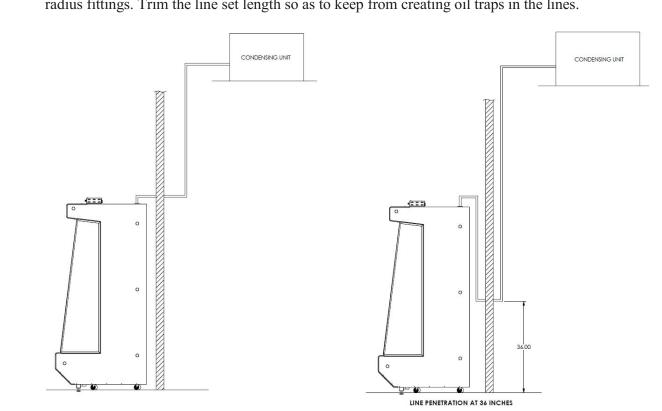


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REFRIGERATION INSTALLATION

After the RSC unit is in its final location and leveled, have a qualified refrigeration technician connect the condensing unit to the RSC's refrigeration connection lines.

1) Utilizing proper refrigeration practices connect the refrigerant lineset to the RSC stub outs using long radius fittings. Trim the line set length so as to keep from creating oil traps in the lines.



2) Connect lineset to the remote mounted condensing unit. 3) Turn on power to the RSC to open liquid line solenoid, ALL brazing should be done under a low pressure nitrogen purge.

4) After brazing, pressurize system with nitrogen and check brazed joints for leaks. 5) After leak checking, release the nitrogen and evacuate the system to 400 microns or below. Verify the

system holds this vacuum before weighing in the refrigerant charge. 6) Break vacuum with liquid refrigerant through the HIGH side access port at the condensing unit. 7) Turn power on to the condensing unit and continue charging through the LOW side port using a metering

device such as a "Quik Charge" or Uniweld's "Vapor Vue". Stop charging when sight glass clears and check for required superheat of 10-12 degrees F. 8) Weigh in an additional two (2) pounds of refrigerant to insure proper sub cooling.

- Evaporator superheat 10 to 12°F. System operates with a controller set point and solenoid valve (pump down). Condensing unit must have low pressure switch.

- 6 ft model: 11,800 BTU/hr, evaporating temp: 15°F @ 80°F dry bulb, 68°F wet bulb

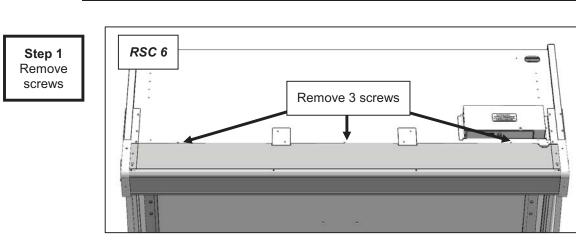
- 3 & 4 ft models: 6,800 BTU/hr evaporating temp: 15°F @ 80°F dry bulb, 68°F wet bulb

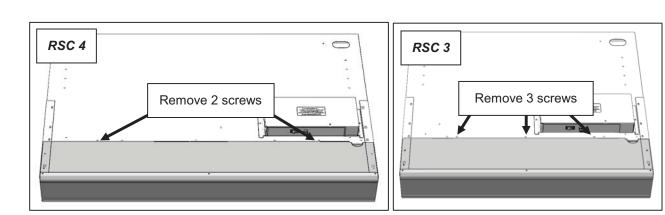
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- Turn on the condensing unit and the RSC. Insure the lights and fans operate. The control system is factory preset and does not need adjustment. Allow the RSC to run for 1 hour and check the temperature on the high quality dial thermometer to insure the case is below 41°F. - Air curtain disturbance must be checked, (see figures 1-9).

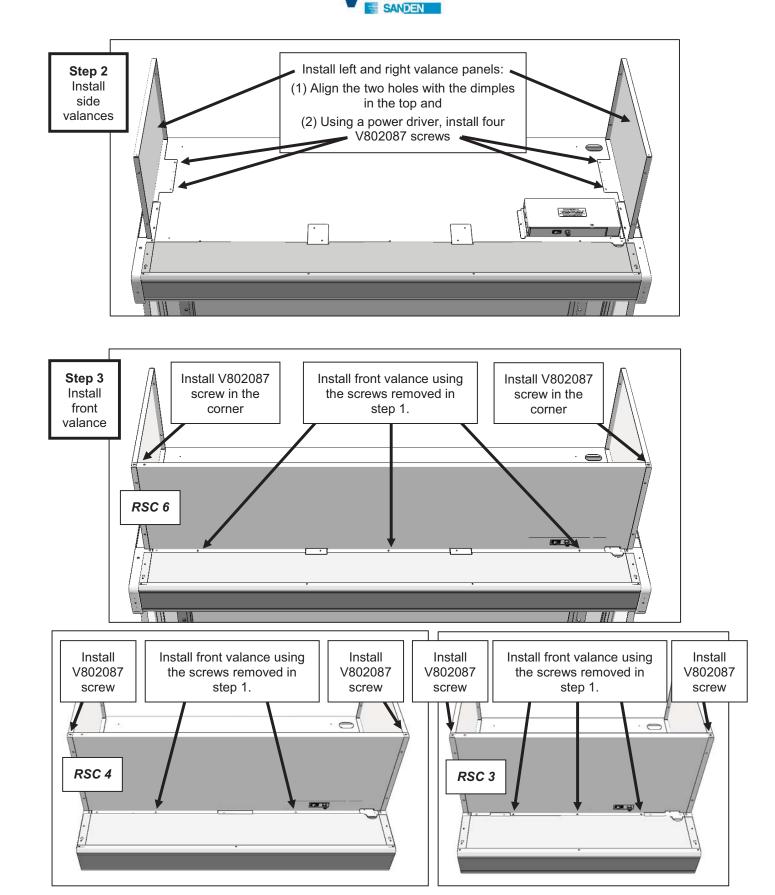
VALENCE INSTALLATION INSTRUCTIONS







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START-UP & OPERATING INFORMATION

START-UP INFORMATION AND PERFORMANCE EVALUATION Step 1: Turn on power switch located on the front of the power control box. Start up the condensing unit per

manufacturers guidelines. Check to ensure evaporator fans are operational, and the LED lighting is on. Step 2: While the condensing unit and evaporator fans are running, verify that there is a flow of cold air from

the honeycomb, located at the top of the cabinet. Step 3: Observing the controller display, monitor the cabinet temperature, and verify that unit cools to 40°F

Step 5: Verify that all access-cover panels have been replaced, and the cabinet is ready to be loaded by store

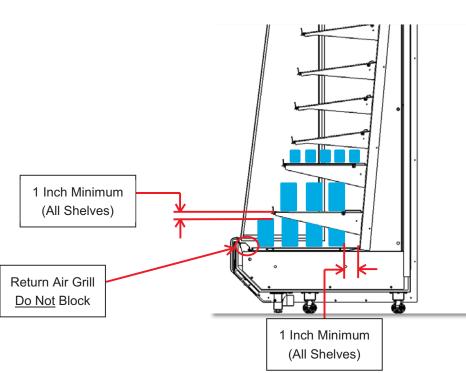
OPERATING GUIDELINES

1. For best results, pre-cool all products before stocking the display case.

2. Stock products only after the cabinet has cooled.

3. When loading the cabinet, do not place merchandise over the grill located in the front of the lower deck plate as this will disrupt the air curtain. (Reference Below)

4. Allow at least 1" between the upper surface of the displayed product and the shelf directly above it, and 1" from the rear wall. (Reference Below)



5. For proper temperature sensing, do not put product against the temperature sensor on the back wall. 6. Do not remove the glass side panels during operation.

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CONTROLLER OPERATION AND ERROR CODES

RSC controller button functions:

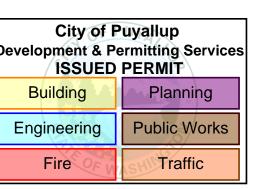
F1 - Scroll Up F2 - Return / Esc F3 - Scroll Down

F1 elivel F2

F4 - Enter / Set To Enter Reading Mode: Press F4 – The Display will read "Ai" – use buttons to navigate

Level 1	Err#	Description
tEnP		Display Ambient Temperature
COIL		Display Coil Temperature
EU0P		Display Evaporator Outlet Pressure Sensor
EU0t		Display Evaporator Outlet Temp
EUA0		Display Air Out Temperature
SuHt		SuperHeat = EU0P - COIL
AL		Alarm - if present, will override the message on the display
	Err 1	Ambient Temperature is disconnected or faulty
	Err 5	Coil Temperature is disconnected or faulty
	Err 3	Pressure Transducer is faulty or not connected
	Err 4	Evaporator outlet temperature is disconnected or faulty
	Err 2	Air Out Temperature is disconnected or faulty

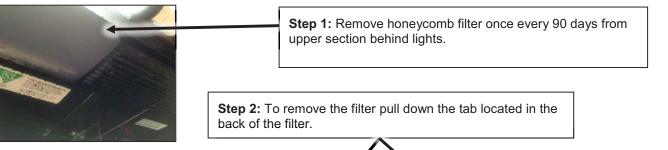
To Check the Firmware Version: Press F2 and hold for 5 seconds – The version will show.

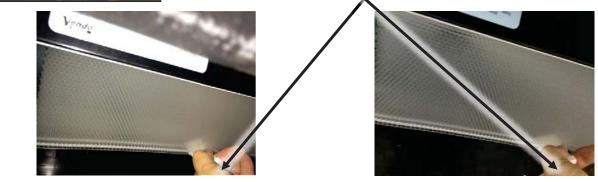


GENERAL MAINTENANCE

CLEANING THE HONEYCOMB

In order to maintain peak operating performance, remove the honeycomb (as shown below) and rinse it with clean water to remove dust. Under normal conditions, inspect and clean every 90 days.

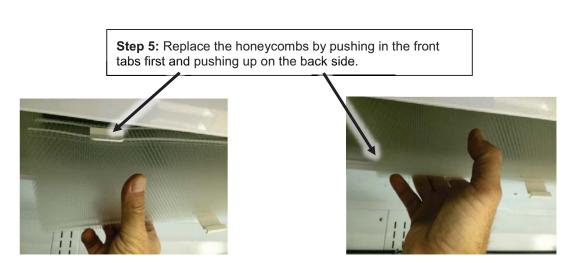


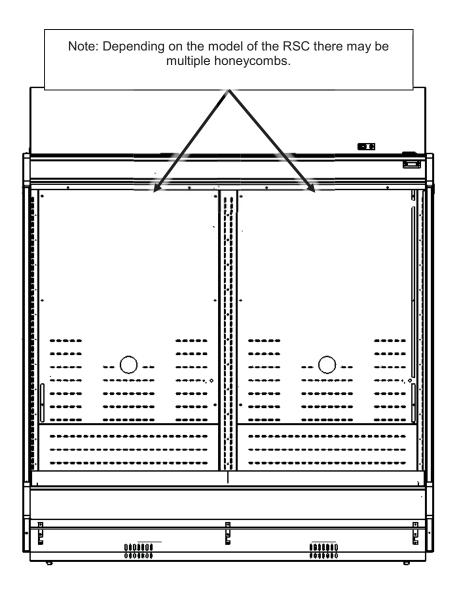


Step 3: Wash the honeycomb with water only to remove dust and dirt. Shake the water from the filter and wipe off with a paper towel. Recommended sinks for cleaning- Mop sink as a primary recommendation, wash bay in 3-comp sink secondary option- must clean and sanitize sink before and after use.



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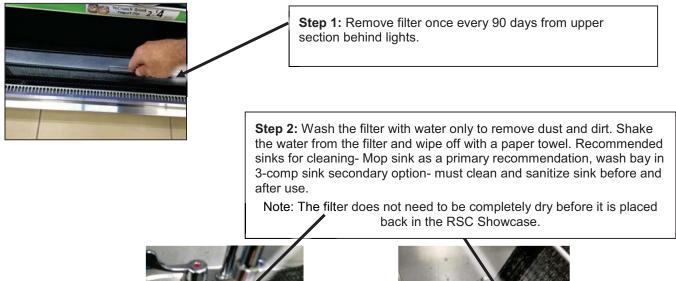




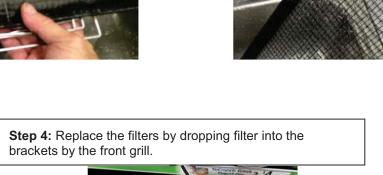
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CLEANING THE FILTER

In order to maintain peak operating performance, remove the filter (as shown below) and rinse it with clean water to remove dust. Under normal conditions, inspect and clean every 90 days.

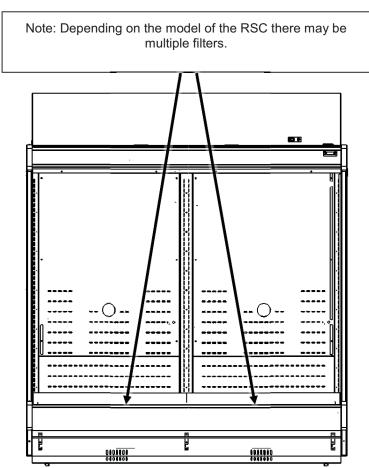






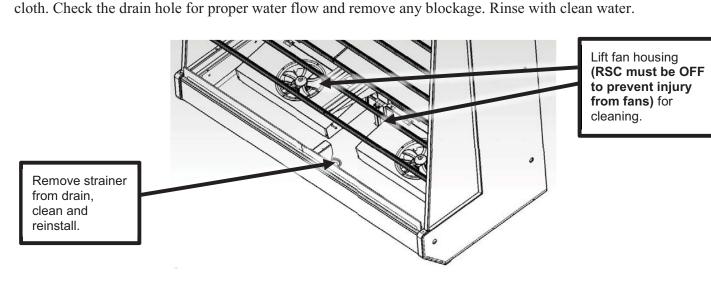


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CLEANING THE BOTTOM OF THE INNER BOX & DRAIN

Lift the fan duct, as shown below, and clean the bottom of the inner box with a mild detergent and a soft, damp



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For units with the condensing unit mounted on top, inspect the condenser fins at least once every three months. Brush out or vacuum any dirt or lint that has accumulated in the fins.

CLEANING THE CABINET

To clean the cabinet and shelves, use a mild detergent and a soft, damp cloth. Rinse with clean water. Do not use paint thinner, laundry detergent, harsh chemicals, or abrasive pads or cleaners.

STORING THE CABINET

Step 1: Disconnect the unit from its power source.

Step 2: Wipe the interior of the RSC with a damp cloth.

Step 3: Cap off refrigeration connection lines. Step 4: Unit must be stored indoors in a clean, dry place. Do not choose a location where the unit will be exposed to direct sunlight, high temperature, or high humidity.

TROUBLESHOOTING

Before calling your Service Technician, please make these simple checks:

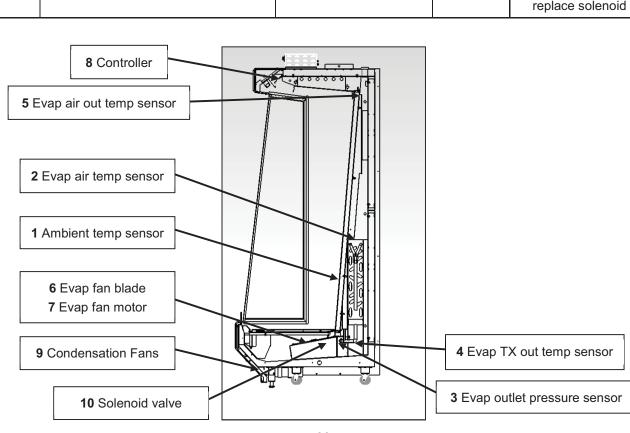
If the unit is not operating:

- 1. Is there a main-power failure? 2. Is there a blown fuse?
- 3. Has the refrigeration unit cycled off, because it is at the designated operating temperature? If the LED light is off:
- 1. Is the LED tube properly connected to the power source?
- If the cabinet temperature is too warm:
- 1. Is the controller set-point set correctly? 2. Is the cabinet located in direct sunlight?
- 3. Is the cabinet located in a strong air-flow path?
- 4. Is the distance between the upper surface of the displayed merchandise and the shelf directly above it at least 1"?
- 5. Is the air temperature around the cabinet above 80°F?

REFER TO THE ENVIRONMENTAL CONSIDERATIONS, ON PAGES 8 AND 9, THAT WILL AFFECT COOLING PERFORMANCE.

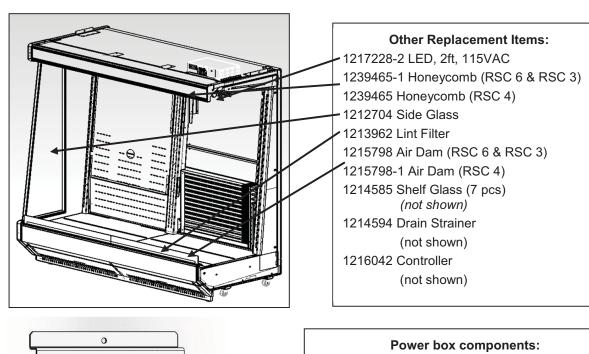
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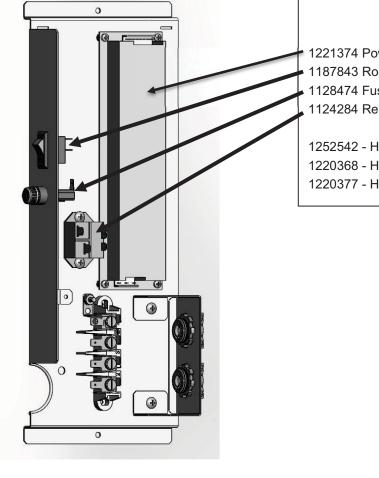
Item	Description	Controller Alarm Display or Symptom	Part #	Action	
1	Ambient Temp. Sensor	Err 1 / Err 6	1256245	Sensor disconnected	
2	Evaporator Air Coil Temp. Sensor	Err 5 / Err 7	1256245	or out of range.	
3	Evaporator Outlet Pressure Sensor	Err 3	1220143	Check sensor wire continuity to controller, or replace sensor	
4	Evaporator TX Outlet Temp. Sensor	Err 4	1256245		
5	Evaporator Air Out Temp. Sensor	Err 2	1256245		
6	Evaporator Fan Blade	Excessive noise from fan, blade wobble	1220804	Replace fan blade	
7	Evaporator Fan Motor	Fan not turning, RSC not cooling	1262025	Check 115 VAC is getting to motor; replace motor	
8	Controller	RSC not cooling	1243039- 1.07	Turn off power to RSC and turn back on; confirm remote refrigeration unit is working properly; replace controller	
9	Condensation Fans	Moisture accumulating on bottom of RSC	1218646	If fan isn't turning, check fan is getting 24 VDC; replace fan	
10	Solenoid Valve	RSC not cooling	1220789	Confirm 24 VDC is getting to solenoid; replace solenoid	



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SERVICE PARTS





For Record

UOM inches

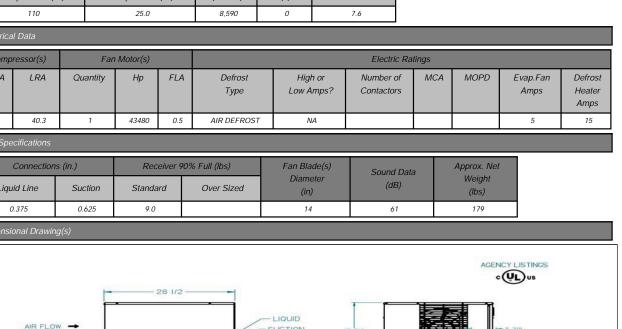
☐ For Approval

1221374 Power Supply, 24VDC 1187843 Rocker Switch 1128474 Fuse Holder & 1053864 Fuse, 0.8A / 250V 1124284 Relay Cables (not shown) 1252542 - Harness Low Voltage RSC 1220368 - Harness High Voltage RSC 1220377 - Harness Ground RSC

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	SUBMITTAL		
Project Name:	Project Location:		
Quote ID:	Item #:	1000	
Submitted For:	Submitted On:		
Submitted By:	Submitted From:		
Identity #:	Tag:		

sai Froduct information							
uct Family:	ВСН			Compressor Brand:		Copeland	
cation:		Outdoor			Compressor Type:		Scroll
perature Range:		Medium Temp			Compressor Hp:		1
ge: (Volts/Ph/Hz)		208-230/1/60			Compressor Model:		ZS09KAE-PFV-118
gerant Type:		R448A			Number of Compressor(s):		1
g:		Standard			Coil Type:		Microchannel
nical Information							
mance Data							
Ambient emperature (°F)		ed Suction rature (°F)	Capacity (BTU/H)	Altitude (ft)	AWEF Value		
110		25.0	8,590	0	7.6		
cal Data							

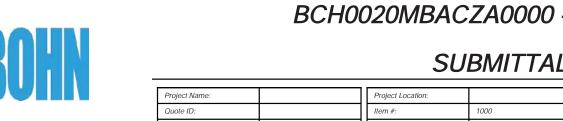


Page 1 of 2

Defrost High or Number of MCA MOPD Evap.Fan Defrost

BCH0020MBACZA0000 -

SUBMITTAL



SUBMITTAL

LARGE ELECTRICAL PANEL FOR EASE OF ACCESS

SIGHT GLASS IS EASILY VIEWABLE

Brand Label - BOHN

UNIT STAYS ON IF THE HOOD IS REMOVED FOR SERVICING

LOCATED OUTSIDE THE CABINET FOR QUICK INSTALLATIONS.
RECEIVER WITH FUSIBLE PLUG, LIQUID SHUTOFF VALVE AND CHARGING PORT

PREFABRICATED WIRING HARNESSES FOR TIGHT CRIMP CONNECTIONS AND CONSISTENT LABELING

Page 2 of 2

SERVICEABILITY

CABINET AND CONSTRUCTION MICROCHANNEL COIL TECHNOLOGY STANDARD ON ALL UNITS PAINTED STEEL CABINETS FOR SUPERIOR STRENGTH AND CORROSION PROTECTION HEAVY DUTY, STEEL, 1-1/2 TALL BASE

tandard Features

☐ For Approval

Liquid Line Suction Standard Over Sized

For Record

General Product Information

Technical Information

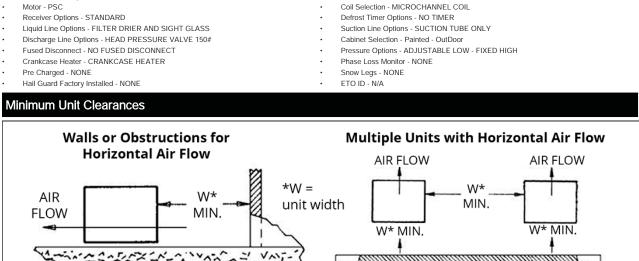
UOM inches

ALL UNITS ARE COMPLETELY LEAK TESTED IN A HELIUM ENVIRONMENT, BUMP TESTED AND ALLOWED TO CYCLE OFF ON THE HIGH AND LOW PRESSURE CONTROL. EACH UNIT HAS A COPY OF THE RUN DATA SHIPPED INSIDE THE ELECTRICAL PANEL

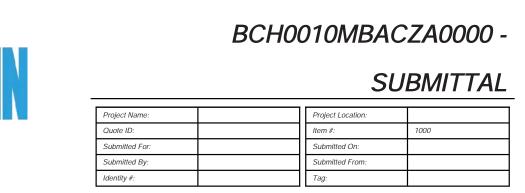
ELECTRICAL CIRCUITS ARE COMPLETELY CHECKED FOR CONTINUITY

Preferred Package Code - A0000 ~ STD Base

PIPING IS LAID OUT TO MINIMIZE STRESS AND VIBRATION AND IS PRE-BENT TO ELIMINATE LEAKS ENCAPSULATED, AUTO-RESET, HIGH AND LOW PRESSURE CONTROLS TO



Page 1 of 2



CABINET AND CONSTRUCTION PAINTED STEEL CABINETS FOR SUPERIOR STRENGTH AND CORROSION PROTECTION HEAVY DUTY, STEEL, 1-1/2 TALL BASE

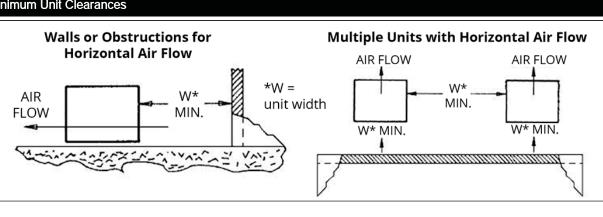
SERVICEABILITY LOCATED OUTSIDE THE CABINET FOR QUICK INSTALLATIONS. RECEIVER WITH FUSIBLE PLUG, LIQUID SHUTOFF VALVE AND CHARGING PORT LARGE ELECTRICAL PANEL FOR EASE OF ACCESS PREFABRICATED WIRING HARNESSES FOR TIGHT CRIMP CONNECTIONS AND CONSISTENT LABELING UNIT STAYS ON IF THE HOOD IS REMOVED FOR SERVICING SIGHT GLASS IS EASILY VIEWABLE

QUALITY ALL UNITS ARE COMPLETELY LEAK TESTED IN A HELIUM ENVIRONMENT, BUMP TESTED AND ALLOWED TO CYCLE OFF ON THE HIGH AND LOW PRESSURE CONTROL. EACH UNIT HAS A COPY OF THE RUN DATA SHIPPED INSIDE THE ELECTRICAL PANEL ELECTRICAL CIRCUITS ARE COMPLETELY CHECKED FOR CONTINUITY PIPING IS LAID OUT TO MINIMIZE STRESS AND VIBRATION AND IS PRE-BENT TO ELIMINATE LEAKS

ENCAPSULATED, AUTO-RESET, HIGH AND LOW PRESSURE CONTROLS TO

ELIMINATE LEAKS (ADJUSTABLE LOW PRESSURE CONTROL STANDARD)

Preferred Package Code - A0000 ~ STD Base Brand Label - BOHN Coil Selection - MICROCHANNEL COIL Receiver Options - STANDARD Defrost Timer Options - NO TIMER Suction Line Options - SUCTION TUBE ONLY Liquid Line Options - FILTER DRIER AND SIGHT GLASS Discharge Line Options - HEAD PRESSURE VALVE 150# Cabinet Selection - Painted - OutDoor Fused Disconnect - NO FUSED DISCONNECT Pressure Options - ADJUSTABLE LOW - FIXED HIGH Crankcase Heater - CRANKCASE HEATER Phase Loss Monitor - NONE Pre Charged - NONE Snow Legs - NONE Minimum Unit Clearances Walls or Obstructions for



City of Puyallup evelopment & Permitting Services Planning Engineering Public Works

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Page 2 of 2