



## PASS THROUGH WINDOW RAC-22 AND RAC-E22

### INSTALLATION, OPERATIONAL, SERVICE MANUAL AND SAFETY INSTRUCTIONS

\*FOR COMMERCIAL OR INDUSTRIAL USE ONLY



Read and save these instructions. Read carefully and completely before attempting to install or operate this device. Failure to comply to these instructions could result in injury, damage to the unit or installation site.



**NOTICE:** Indicates an instruction which, if not followed, could result in damage to product or property or poor product performance.



**WARNING:** Indicates an instruction which, if not followed, could result in minor or moderate injury.

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## 1. INTRODUCTION

Ready Access Air Curtains are designed to provide an environmental barrier between the indoor environment and the outdoor, exterior environment. The Ready-Access air curtain provides temperature control, environmental separation, and control of flying insects. The RAC-22 and RAC-E22 are recommended for service window applications. Mount up to 5 feet above the windowsill on interior of building.

RAC models are blower only models, without heater.

RAC-E models include both a blower and heater.

### ELECTRICAL REQUIREMENTS

RAC-22 HEATED: 20 Amp Dedicated Circuit, 120V-60Hz. Single Phase, Heater 1550 Watts (12.9 Amps), Motor 3 Amps.

RAC-22 UNHEATED: 20 Amp Dedicated Circuit, 120V-60Hz. Single Phase Motor 3 Amps,

## 2. SAFETY INFORMATION



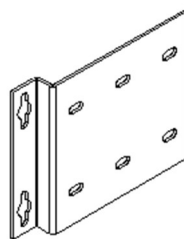
### WARNING

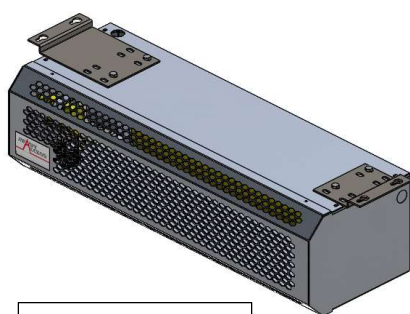
- To reduce the risk of fire, electric shock, or injury to persons, observe the following safety precautions:
- Use this product in the manner intended by the manufacturer. If you have any questions regarding the correct application and use, contact Ready-Access or a qualified representative. Disconnect power at electrical service panel prior to.
- Installation and electrical wiring are to be done by qualified personnel in accordance with the NEC and local codes.

## 3. INSTALLATION

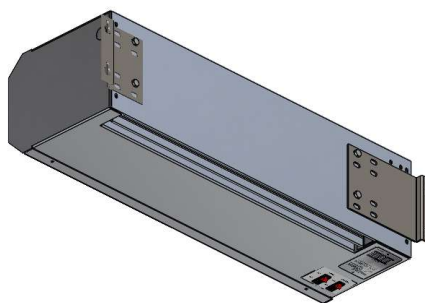
- Verify that all parts and accessories are available and in the correct quantities.
- Unpack mounting brackets. There are two mounting brackets. Mounting brackets can be used for top mount or wall mount. Note that the mounting brackets have two mounting positions, 1.50" apart.

LEFT / RIGHT BRACKET



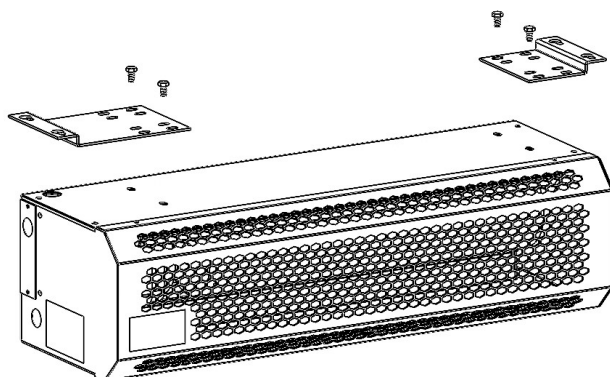


TOP MOUNT

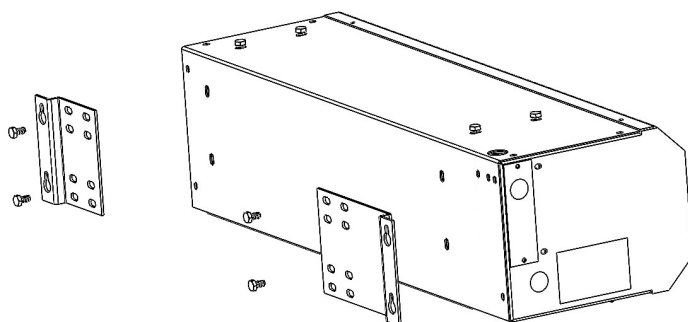


WALL MOUNT

- c. For top mount remove four (4)  $\frac{1}{4}$ "-20 hex head bolts. Place mounting plates on top of unit. Reinstall (4)  $\frac{1}{4}$ "-20 hex head bolts.

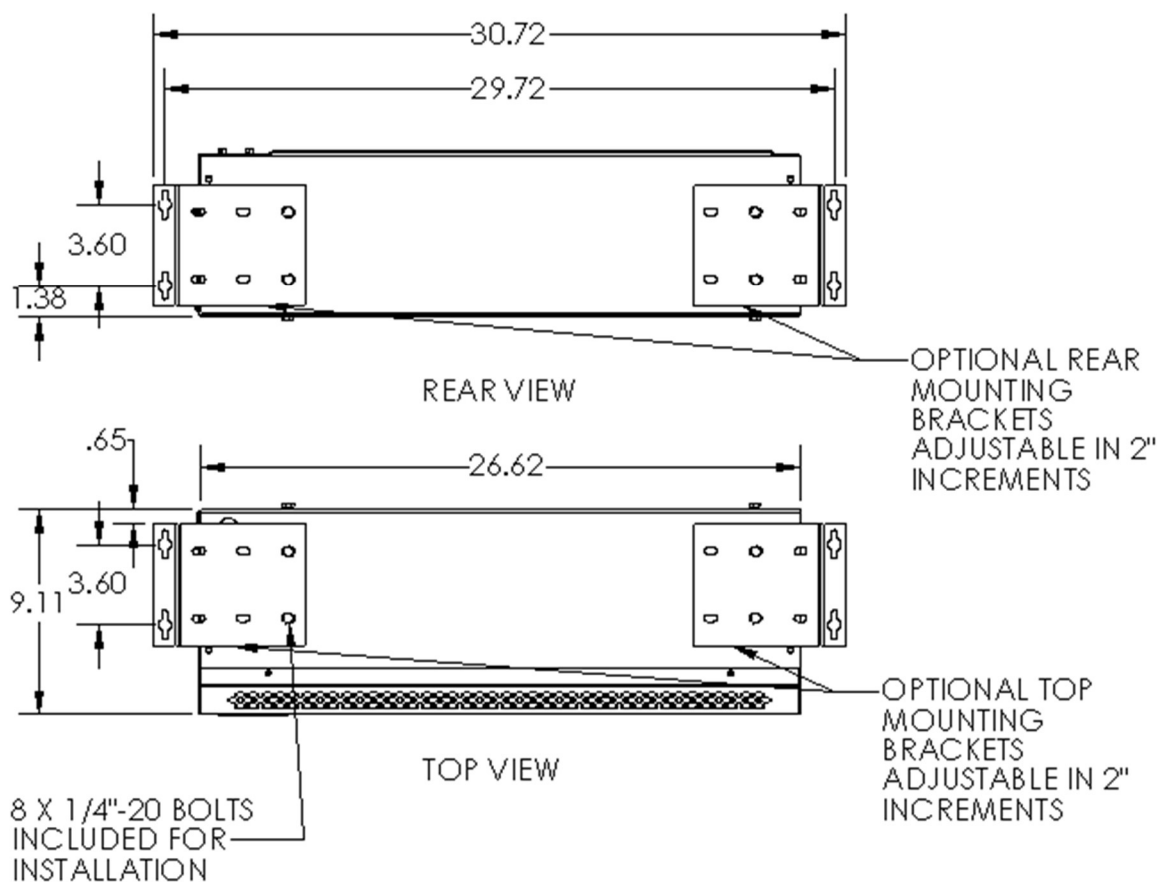


- d. For rear mount, remove four (4)  $\frac{1}{4}$ "-20 hex head bolts. Place mounting plates on the back of unit. Reinstall (4)  $\frac{1}{4}$ "-20 hex head bolts.



- e. Mount unit a minimum of 80" above floor.

- f. Install four (4) ¼" mounting bolts in wall or mounting structure. Mounting hardware provided by others. Use the following dimensions for locating wall mounting hardware.  
\*Note that by adjusting location of mounting brackets, wall mounting bolts can be adjusted in 1.5" increments.
- g. After mounting unit verify that the unit is level and secure



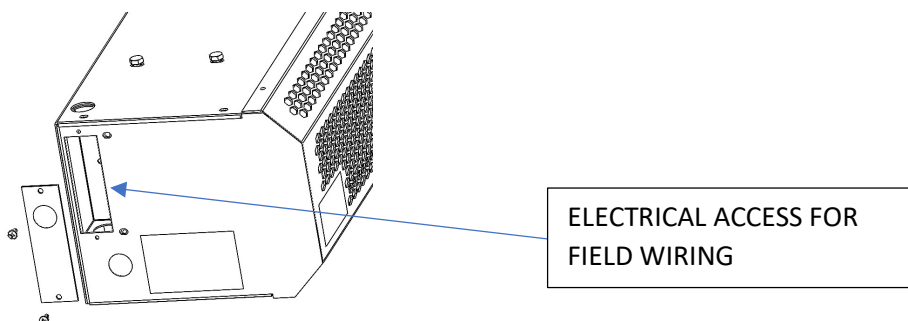
#### ELECTRICAL FIELD WIRING

The Unit must be wired per NEC and local codes.

Refer to rating label for correct voltage and ampacity.

Knockouts are provided for connection of ½" electrical connectors.

Field wiring can be completed with internal access through electrical access panel. Remove electrical access panel on left side of unit for access to and connection to internal wiring.



## WARNING

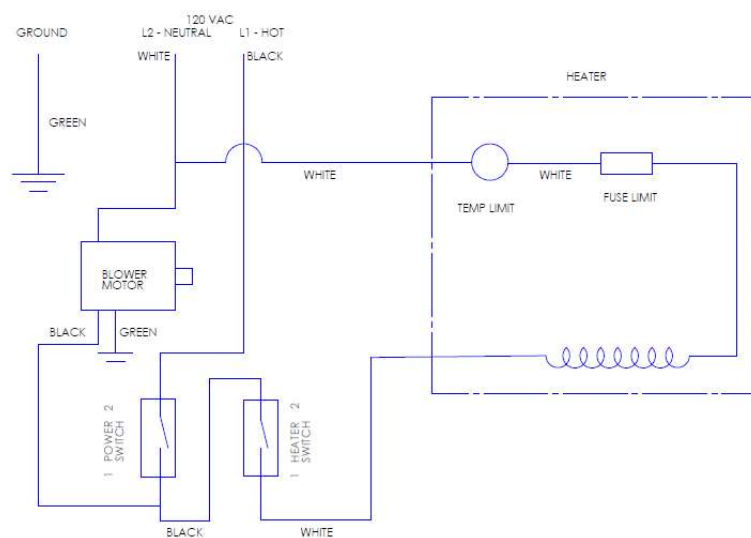
To prevent hazard of electrical shock an electrical disconnect switch may be required to electrically disconnect this product.

Turn off circuit at breaker panel prior to wiring this item.

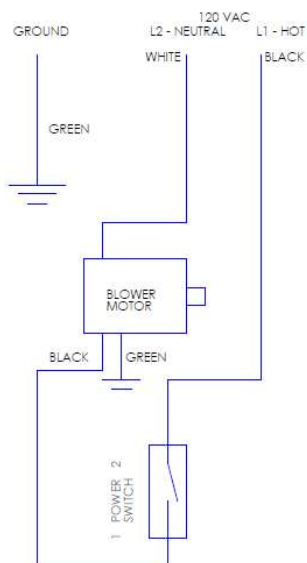
Use supply wires suitable for 60 degrees C.

## WIRING DIAGRAM RAC-22E AIR CURTAIN

### UNITS WITH HEATER



## UNITS WITHOUT A HEATER, AIR CURTAIN RAC-22



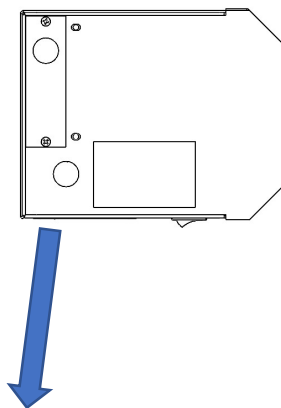
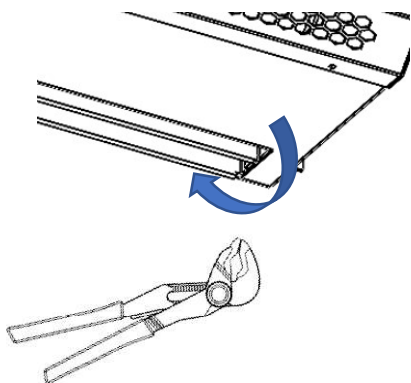
### 4. START UP



#### **WARNING**

- Before turning on power to the unit:
- Verify that unit is secure, all fasteners are tightened and unit is properly installed.
- Air intake grate must be secured in place before turning on power. Unit cannot be operated without air intake grate in place.
- Refer to product rating label and verify proper voltage.

Adjust air vane to direct air outward towards outside environment at an angle of 10-15 degrees. Use pliers or adjustable wrench to rotate air vane.



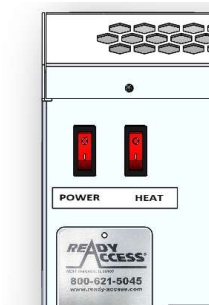
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### Switch operation

- POWER SWITCH – Switches Blower and main power on/off
- HEAT SWITCH – Switches Heat on/off, POWER SWITCH must be switched on prior to turning on heat



### 5. MAINTENANCE:



#### **WARNING**

- To reduce the risk of fire, electrical shock or injury to persons, observe the following:
- Before servicing the unit, switch power off at electrical service panel.
- Maintenance is to be performed by trained personell that are familiar with this product.
- All Maintenance is to be done in accordance with local codes and regulations.

Under normal usage the air intake grill, air intake filter (if equipped), inner area of cabinet, blower wheel, motor and air vane will accumulate dust, dirt and debris. To maintain optimal performance of this product, contamination must be removed on a routine basis. Frequency of cleaning intervals will depend on location and environmental conditions. Typically cleaning is required every six (6) months.

Cleaning the product.

Switch power off at power source.

Remove the air intake grate

Using a vacuum cleaner, vacuum debris from air intake grate, interior of cabinet and blower wheel. Use warm soapy water or a mild degreaser to wipe down the exterior and interior of the cabinet. Do not use steel wool or abrasive cleaners.

Clean the air inlet grate.

Gently wipe debris from blower wheel. Be careful to not deform blower wheel vanes. Damage to blower wheel can cause excessive noise or failure of the blower wheel.

Reconnect power at power source.



## 6. TROUBLE SHOOTING

PROBLEM	POSSIBLE CAUSE	ACTION TO TAKE
Blower does not turn on	Power is not supplied to unit Breaker switch at electrical control panel is off Motor overload is tripped, motor is not on On/off switch defective.	Verify power is supplied at unit Check electrical connections Determine if breaker is off or tripped. Allow motor to cool and self reset thermal overload. Remove obstructions that may have stalled or limited motor RPM's Test and/or replace on / off switch
Heater does not turn on	Power and Heater switch is in off position Heater thermal fuse is tripped Air intake blocked or obstructed	Switch power and heater switch to on position. Power switch must be in on position for heater to operate. Remove obstructions that may limit air flow and cause heater thermal switch to trip. After heater cools thermal switch will reset.
No or low air flow	Air intake or discharge is blocked Air vane out of adjustment Blower wheel clogged with dirt	Remove obstruction that may be blocking air intake or discharge. Adjust air vane to improve air flow
Excessive noise, rattling	Loose screws Loose mounts or mounting brackets at wall or ceiling	Tighten screws on interior or exterior of cabinet. Tighten mounting brackets
Excessive noise, vibration or rumbling	Loose screws, or loose interior components Damaged blower wheel Worn bearings Blower coupling loose, blower not spinning with motor	Inspect blower and blower bearings for excessive "play". Check and tighten blower coupling set screw.