



**IN CEILING PASS THROUGH WINDOW AIR CURTAIN RCM-20**  
**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.

**TABLE OF CONTENTS**

1. INTRODUCTION
2. SAFETY INFORMATION
3. INSTALLATION
4. START UP
5. MAINTENANCE

READY ACCESS INC. 1815 ARTHUR DRIVE WEST CHICAGO 60185 800-621-5045

[www.ready-access.com](http://www.ready-access.com) email: [ready@ready-access.com](mailto:ready@ready-access.com)

## 6. TROUBLESHOOTING

### 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 RCM is recommended for service window applications.

RCM-20 models are blower only models, without heater.

#### ELECTRICAL REQUIREMENTS

RCM-20 : Min 20 Amp Circuit, 120V-60Hz. Single Phase, 3 AMP

### 2. SAFETY INFORMATION



#### **WARNING**

- **WARNING To reduce the risk of fire or electrical shock. Do not use this fly fan with any solid state speed control device.**



#### **WARNING**

- **WARNING: TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS, OBSERVE THE FOLLOWING**
- Use this unit only in the manner intended by the manufacturer. If you have questions, contact the manufacturer.
- Before servicing or cleaning unit, switch power off at service panel and lock the service disconnecting means to prevent power from being switched on accidentally. When service disconnect cannot be locked securely, fasten a prominent warning device such as a tag to the service panel.
- Installation and electrical wiring are to be done by qualified personnel in accordance with the NEC and local codes.



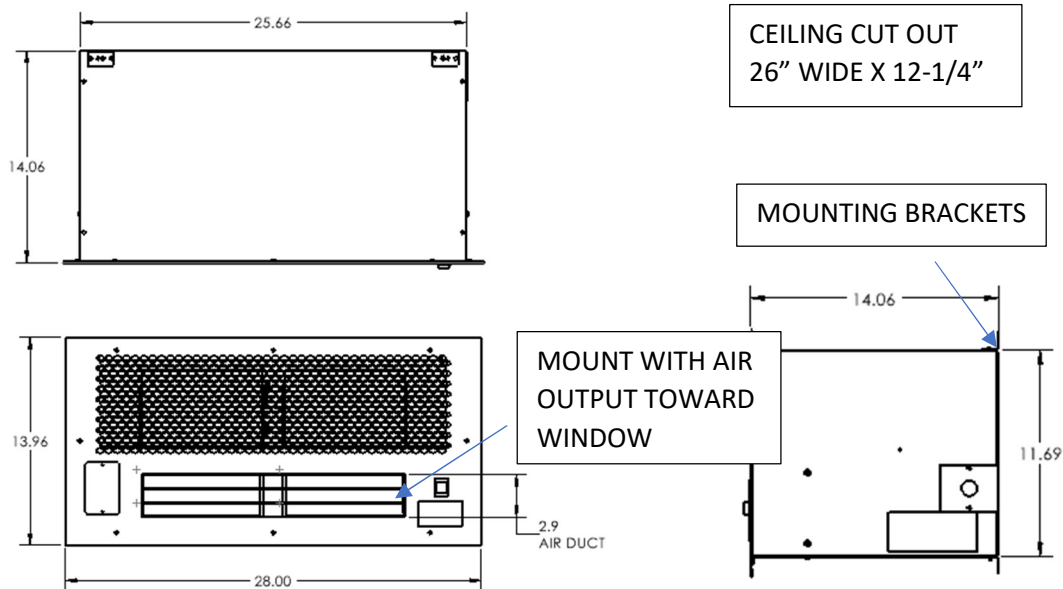
#### **WARNING**

- **WARNING TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK OR INJURY TO PERSONS DO NOT USE REPLACEMENT PARTS THAT HAVE NOT BEEN RECOMMENDED BY THE MANUFACTURER (E.G. PARTS MADE AT HOME USING A 3D PRINTER)**
- **WARNING -TO REDUCE THE RISK OF FIRE,ELECTRIC SHOCK,OR INJURY TO PERSONS.OBSERVE THE FOLLOWING:**

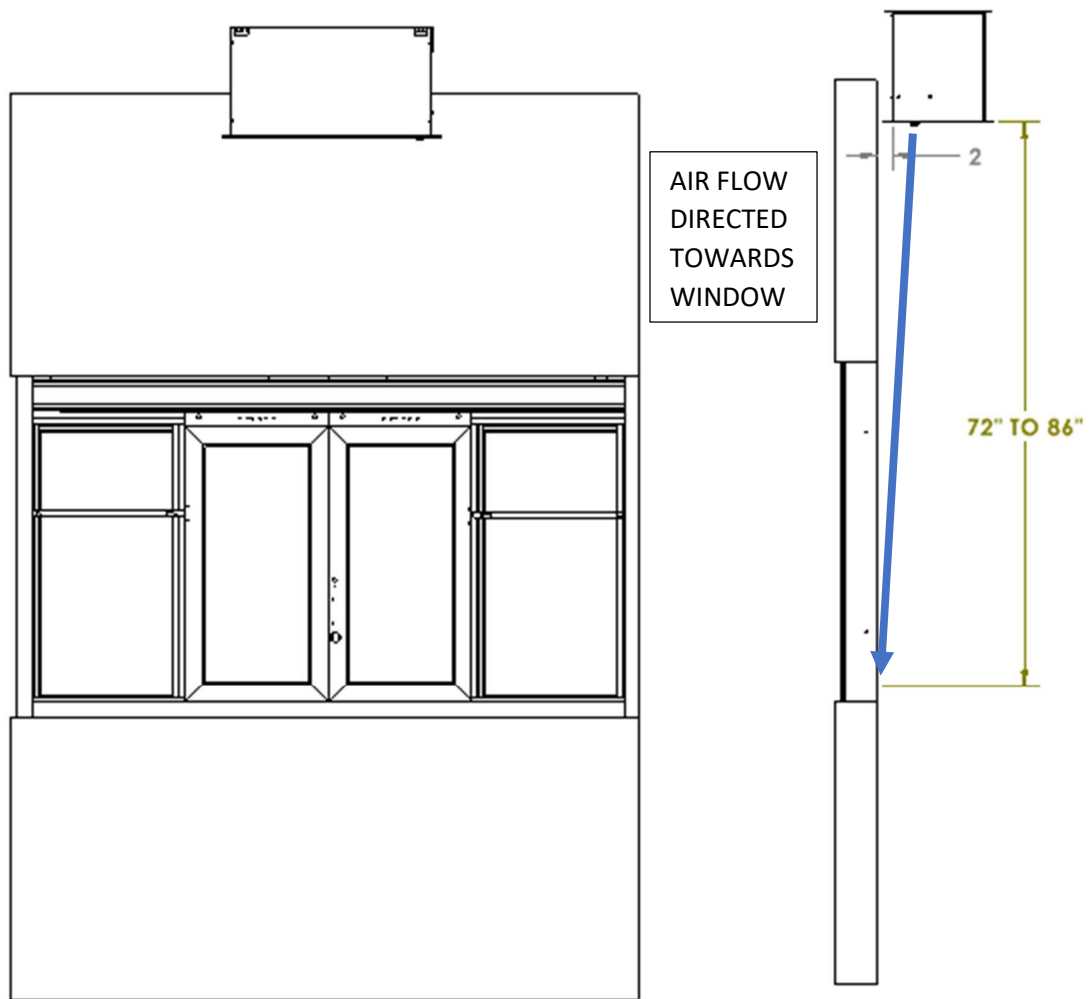
- Installation work and electrical safety wiring must be done by qualified person(s) in accordance with all applicable codes and standards, including fire rated construction.
- When cutting or drilling into wall or ceiling, do not damage electrical wiring and other hidden utilities

### 3. INSTALLATION

- Verify that all parts and accessories are available and in the correct quantities.
- Refer to the dimensions below for ceiling opening sizes.



**MOUNT 72" TO 86" ABOVE SILL IN CEILING OR SOFFIT**  
**POSITION 2-3" FROM WALL**  
**DIRECT AIR FLOW TOWARDS WINDOW**



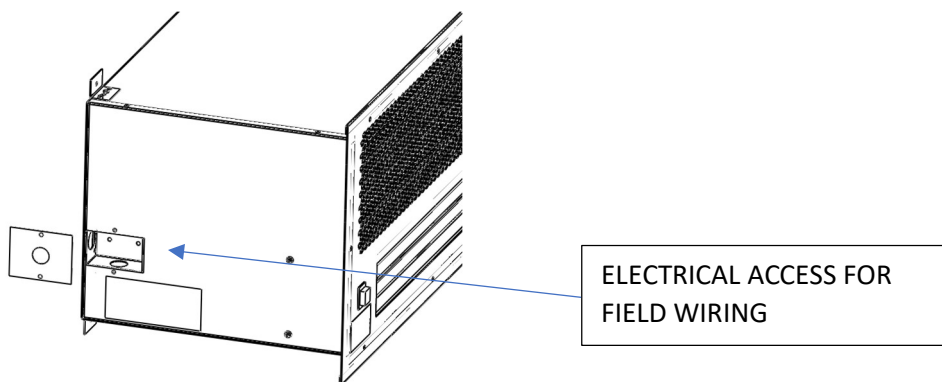
## ELECTRICAL FIELD WIRING

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.

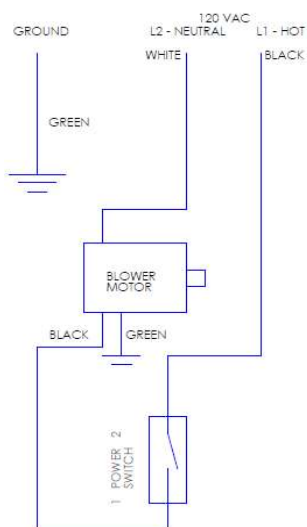


### WARNING

Use supply wires suitable for 60 degrees C.

## WIRING DIAGRAM RCM AIR CURTAIN

### WIRING DIAGRAM, AIR CURTAIN RCM-20



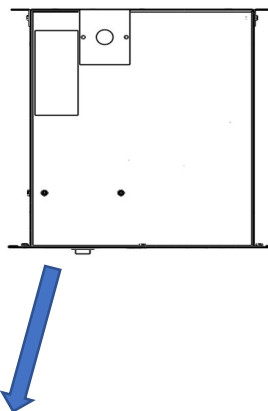
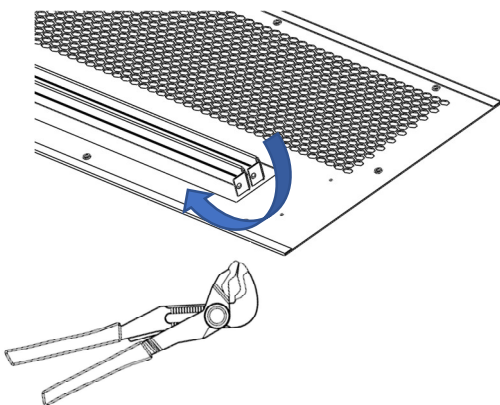
#### 4. START UP



### WARNING

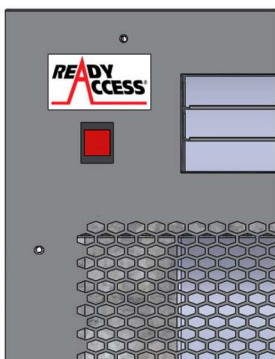
- Before turning on power to the unit:
- Verify that unit is secure, all fasteners are tightened and unit is properly installed.
- Air intake grate must be secured in place before turning on power. Unit cannot be operated without air intake grate in place.
- Refer to product rating label and verify proper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

Adjust air vanes to direct air towards outside of window sill at an angle of 10-15 degrees. The air flow angle is dependent on height of the air curtain, mounting distance from wall and variations in site conditions. Use pliers or adjustable wrench to rotate air vane. A very small adjustment of the vanes towards the window is sufficient to direct the airflow slightly out of the window at the sill.



#### Switch operation

- POWER SWITCH – Switches Blower and main power on/off



#### 5. MAINTENANCE:



## WARNING

- To reduce the risk of fire, electrical shock or injury to persons, observe the following:
- Before servicing or cleaning unit, switch power off at service panel and lock the service disconnecting means to prevent power from being switched on accidentally. When service disconnect cannot be locked securely, fasten a prominent warning device such as a tag to the service panel.
- Maintenance is to be performed by trained personnel 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

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.