

# BERNER

## AIR CURTAINS

**Commercial Low Profile 8  
Sanitation Certified Low Profile 7  
Air Curtain Series  
#CLC08 & #SLC07**



ANSI/NSF 37  
Air Curtain Fans  
for Customer Entry  
max. mounting  
height is 7'  
SLC07



## Installation & Maintenance Instructions

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### **Thank you for choosing Berner.**

Berner International has been saving energy and creating healthy, comfortable environments for our customers for over 70 years. Berner offers unmatched quality, performance, and dependability—not to mention our service.

At Berner, we stand behind our products.



**READ ALL INSTRUCTIONS BEFORE INSTALLING OR USING AIR CURTAIN**

II-480  
September, 2026

## WARNING: TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK OR INJURY TO PERSONS, OBSERVE THE FOLLOWING:

- A. Read all instructions before installing or using this air curtain.
- B. Use this unit only in the manner intended by the manufacturer and described in this manual. Any other use not recommended by the manufacturer may cause fire, electric shock, or injury to persons. If you have any questions, contact the manufacturer.
- C. 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 the service disconnecting means cannot be locked, securely fasten a prominent warning device, such as a tag, to the service panel.
- D. Installation work and electrical wiring must be done by qualified person(s) in accordance with all applicable national and local codes having jurisdiction, including fire-rated construction. See page 6, ELECTRICAL CONNECTIONS (NEC Code ANSI/NFPA No. 70).
- E. When cutting or drilling into wall or ceiling, do not damage electrical wiring and other hidden utilities.
- F. To reduce the risk of fire, do not store or use gasoline or other flammable vapors and liquids in the vicinity of the air curtain.
- G. This air curtain is hot when in use. To avoid burns, do not let bare skin touch hot surfaces. Keep combustible materials, such as furniture, pillows, bedding, papers, clothes, etc. and curtains at least 1 inch from the top, back, front, sides and at least 6 feet from the discharge of the air curtain.
- H. Extreme caution is necessary when any air curtain is used by or near children or invalids, and whenever the heater is left operating unattended.
- I. Do not operate any air curtain after it malfunctions. Disconnect power at the service panel and have the air curtain inspected by a reputable electrician before reusing.
- J. To disconnect the air curtain, turn controls to "off", and turn off power to the air curtain circuit at main disconnect panel.
- K. Do not insert or allow foreign objects to enter any ventilation or discharge opening as this may cause an electric shock or fire, or damage the air curtain.
- L. To prevent a possible fire, do not block the air intake or discharge of the air curtain in any manner.
- M. The air curtain has hot and arcing or sparking parts inside. Do not use it in areas where gasoline, paint, or flammable vapors or liquids are used or stored.
- N. This heater may include an audible or visual alarm to warn that parts of the heater are getting excessively hot. If the alarm sounds (or illuminates), immediately turn the heater off and inspect for any objects on or adjacent to the heater that may have blocked the airflow or otherwise caused high temperatures to have occurred. DO NOT OPERATE THE HEATER WITH THE ALARM SOUNDING (OR ILLUMINATING).



**Commercial  
Low Profile 8  
Air Curtain  
CLC08**



**Sanitation Certified  
Low Profile 7  
Air Curtain  
SLC07**

## I. UNCRATING

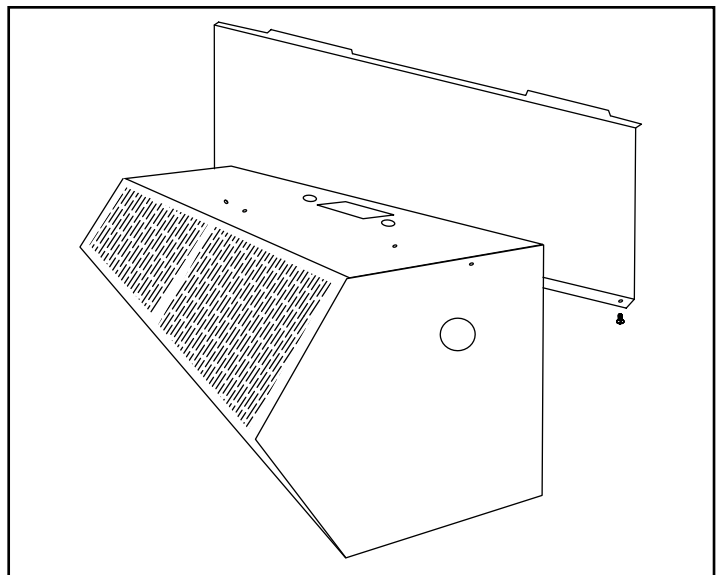
Carefully examine the carton(s) for damage. If the carton is damaged, immediately notify the shipping company. Do not delay in filing claim. If the air curtain(s) were shipped on wooden skids, remove protective wood and banding straps securing the carton(s) to the skid. Open the carton(s) and remove all protective packaging.

Immediately verify that the electrical rating nameplate located on the cover matches electrical power supply available. Retain the shipping carton(s) until the air curtain(s) are installed and properly operating.

**ACCESSORIES:** The air curtain ships with a wall mounting plate; remove and save the two (2) locking screws from the back corners and detach the wall mounting plate. **See FIGURE 1.**

If the air curtain(s) were ordered with optional electrical accessories, the accessories will be found in the carton containing the air curtain packed in a red bag (marked "additional parts inside") or in a separate carton(s) accompanying the air curtain(s).

Check all of the cartons/skids for accessories before discarding.

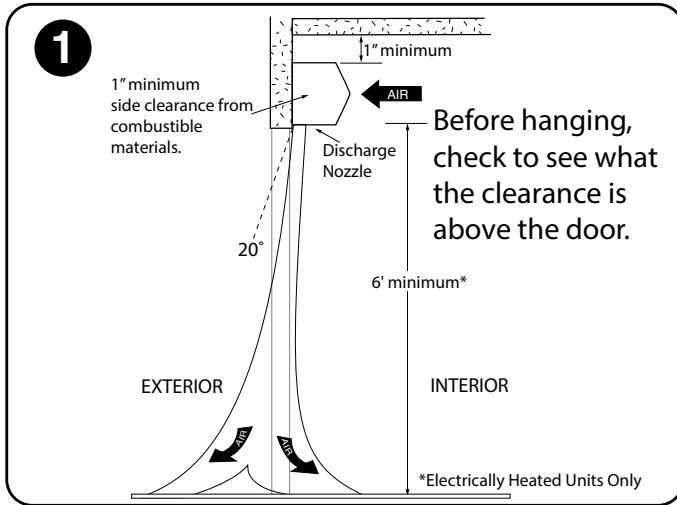


**FIGURE 1**

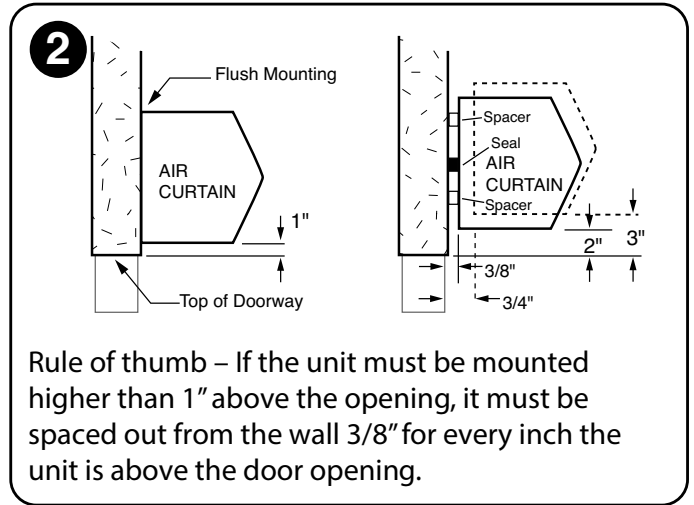
# BERNER

## AIR CURTAINS

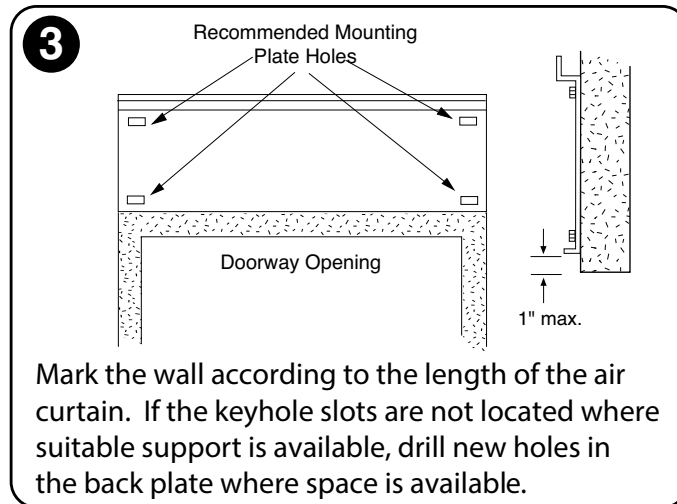
**Commercial Low Profile 8 &  
Sanitation Certified Low Profile 7 Air Curtain**  
**Simple to Install. Easy to operate & maintain.**



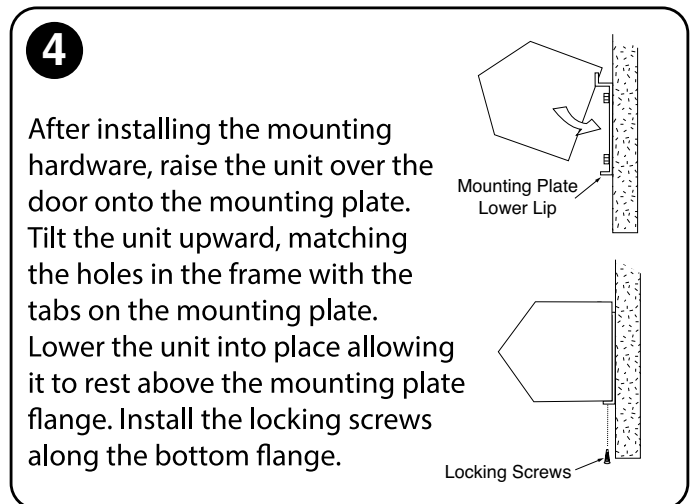
For more information see page 4



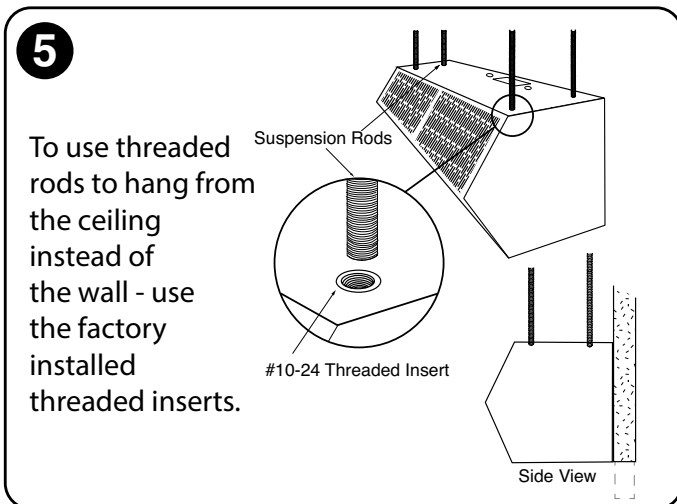
For more information see page 4



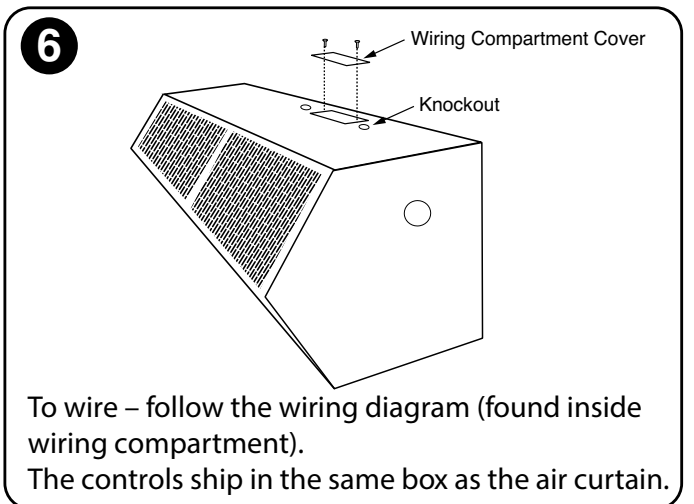
For more information see page 5



For more information see page 5



For more information see page 5



For more information see page 6

## II. MOUNTING INSTRUCTIONS (General)

The Sanitation Certified Low Profile 7 & Commercial Low Profile 8 air curtains are designed to be an effective barrier against cold drafts in the winter, hot air in the summer, flying insects and airborne contaminants.

The Commercial Low Profile 8 air curtain is UL Listed for Indoor Mounting Only and shall only be mounted on the inside of the building.

The Sanitation Certified Low Profile 7 is UL Listed for Mounting Outdoors, and can be mounted on the inside or the outside of the building.

For optimum protection, mount the unit flush to the wall and as close to the top of the door opening as possible.

To ensure peak performance, keep air stream free of obstructions.

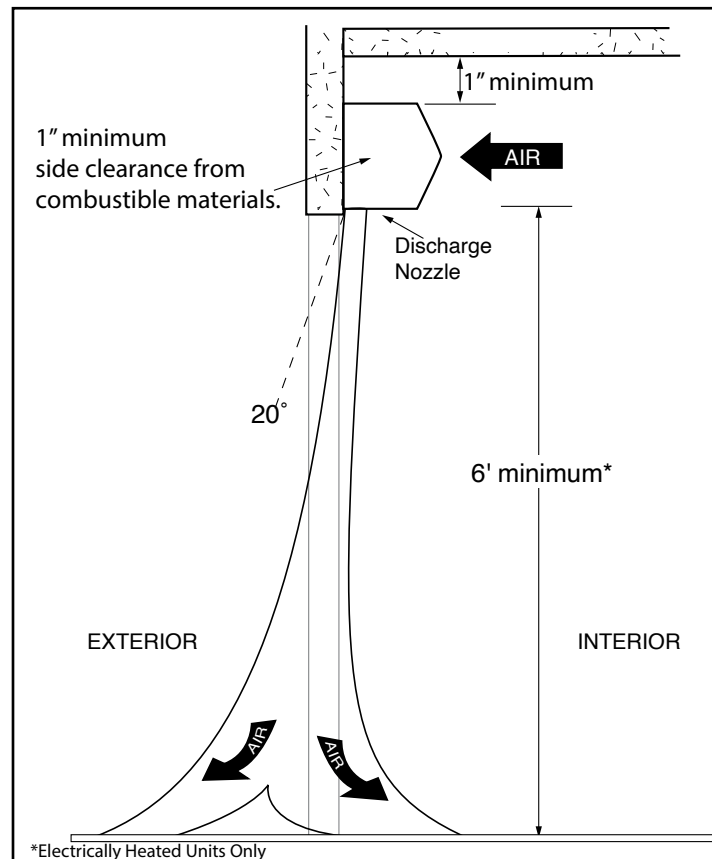
**The air curtain will not perform properly if negative air pressure exists in the building. Under these conditions, a means for make-up air to the building must be provided so that the air pressure on both sides of the opening is in balance.**

Before mounting the unit, check the supporting structure to verify that it has sufficient load-carrying capacity to support the weight of the unit(s). The mounting hardware (supplied by others) should be capable of supporting a minimum of three (3) times the weight of the unit. **See TABLE 1.**

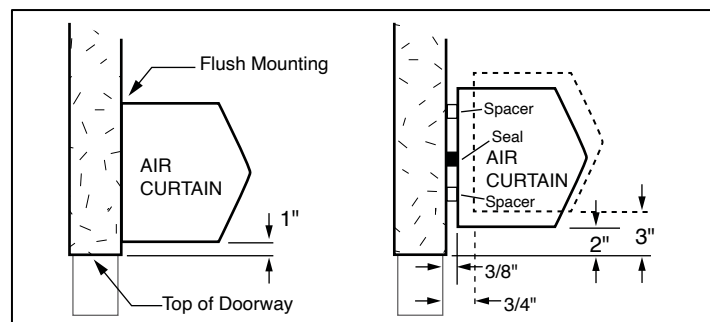
- A. When determining the mounting location for the unit(s), make sure that nothing interferes with the curtain of air developed when the discharge vanes are directed from 0° to 20° toward the door opening. If the air stream strikes any obstruction (the top edge of the doorway, a door opening device, etc.), the effectiveness of the unit will be greatly reduced. **See FIGURE 2.**
- B. For optimum performance, the bottom of the unit (discharge nozzle) should be no more than 1" above the top of the door opening with the unit mounted flush to the wall. If the unit must be mounted higher, it must be **spaced out** from the wall **3/8" for every inch** the unit is above the door opening. Any void between the air curtain and the wall should be sealed along the full length of the unit. **See FIGURE 3.**
- C. Proceed to: **Section III-WALL MOUNTING** or **Section IV-SUSPENDED MOUNTING**

| MODEL                  | Net Weight (lbs) |               |                |             |
|------------------------|------------------|---------------|----------------|-------------|
|                        | SLC07 Ambient    | CLC08 Ambient | CLC08 Electric | CLC08 St/Hw |
| CLC08-1030             |                  | 36            | 42             |             |
| SLC07-1036, CLC08-1036 | 35               | 41            | 48             | 67          |
| SLC07-1042, CLC08-1042 | 38               | 45            | 53             | 74          |
| SLC07-1048, CLC08-1048 | 42               | 48            | 58             | 80          |
| SLC07-1060, CLC08-1060 | 49               | 56            | 67             | 94          |
| SLC07-1072, CLC08-1072 | 56               | 64            | 77             | 107         |
| SLC07-2084, CLC08-2084 | 76               | 90            | 105            | 138         |
| SLC07-2096, CLC08-2096 | 84               | 98            | 115            | 152         |
| SLC07-2108, CLC08-2108 | 91               | 105           | 123            | 164         |
| SLC07-2120, CLC08-2120 | 98               | 113           | 137            | 177         |

**TABLE 1 - Weight Chart**



**FIGURE 2 - Air Stream (for exterior mounting, see FIGURE 10)**



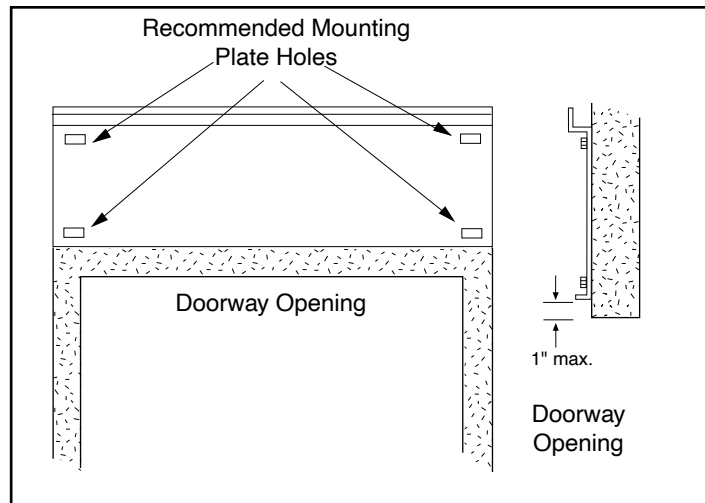
**FIGURE 3 - Positioning of Air Curtain**

### III. WALL MOUNTING

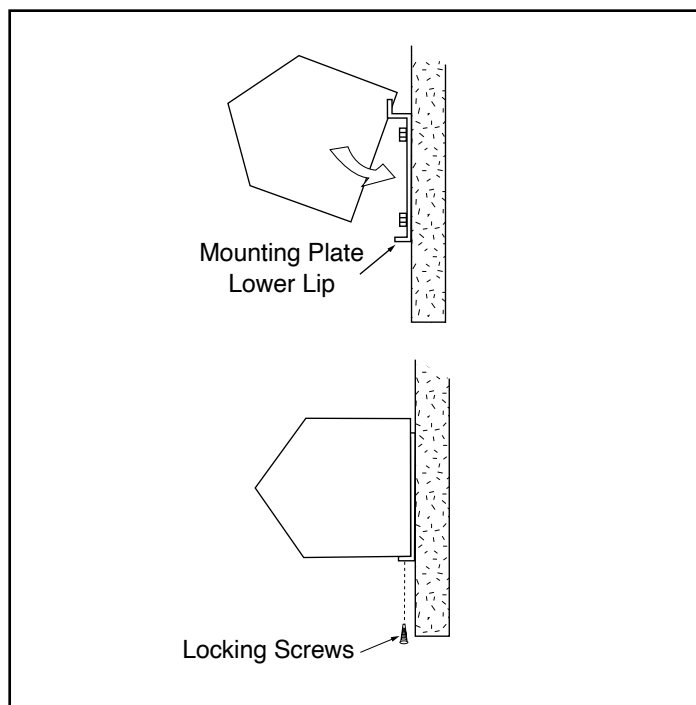
- Determine the location on the wall above the opening where the air curtain will be mounted. This location should center the unit over the opening and provide suitable mounting support. It is recommended to use at least four locations that correspond to the outer corners of the wall mounting plate. **See FIGURE 4.**
  - Prepare the wall as necessary for the wall mounting plate anchors (by others).
  - Drill holes in the wall mounting plate to correspond to the locations on the wall.
  - Anchor the wall mounting plate over the door opening with the mounting tabs pointing upwards.
  - Raise the unit over the door (air nozzle facing down) and onto the mounting plate. Tilt the unit upward, matching the holes in the frame with the tabs on the mounting plate.
- See FIGURE 5.**
- Lower the unit into place allowing it to rest on the mounting plate. The unit flange should rest above the mounting plate flange.
  - After the unit is securely seated to the mounting plate, install the locking screws along the bottom flange. **See FIGURE 5.**
  - Proceed to **Section V-ELECTRICAL CONNECTIONS**

### IV. SUSPENDED MOUNTING

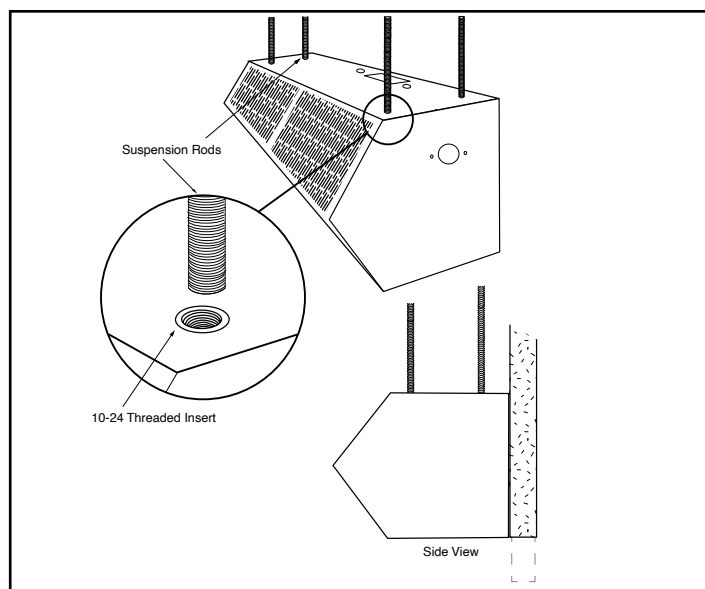
- When the unit is top mounted, the wall mounting plate is designed to store on the back of unit for future use.
- Four (4) factory installed #10-24 threaded inserts are located on the top of the unit for top suspension mounting. **See FIGURE 6.**
- Determine the exact mounting location of the air curtain.
- The top of the unit is provided with an electrical knockout for power connection. Remove the wiring tray compartment cover. Remove the knockout and attach necessary electrical hardware. Save the wiring diagram found inside of wiring tray.
- Attach #10-24 threaded rods, or other suitable hardware to the top mounted threaded inserts.
- Proceed to **Section V-ELECTRICAL CONNECTIONS**



**FIGURE 4 - Positioning of Mounting Plate**



**FIGURE 5 - Attaching Unit to Mounting Plate**



**FIGURE 6 - Suspended Mounting**

## V. ELECTRICAL CONNECTIONS

All electrical wiring and connections **MUST** be performed by qualified personnel in accordance with the National Electrical Code ANSI/NFPA No. 70 (latest edition) or, in Canada, the Canadian Electrical Code, Part 1-C.S.A. Standard C22.1 and local codes and regulations.

- A. Check the electrical rating nameplate on the top of the air curtain for supply voltage and current requirements. A separate line voltage supply with a suitable branch circuit protection device should be run directly from the main electrical panel to the air curtain. A disconnect switch for each branch circuit is a required part of this installation.
- B. All field wiring must be copper with a minimum insulation of 60° C within approved conduit. If any of the wire supplied with the air curtain must be replaced, it must be replaced with copper wiring with a minimum insulation of 90° C.
- C. Remove the wiring tray cover; on air curtains that are comprised of modules, remove the wiring tray cover that is located closest to the electrical rating nameplate (if it has not already been done). **See FIGURE 7.**
- D. The top of the air curtain has two knockouts on each side of the air curtain, allowing for a left hand or right hand power connection. Remove the required knockout if it has not already been done and connect the power supply to the air curtain. Connect all supply and control circuit wires according to the wiring diagram provided.

**NOTE: For Electrically Heated air curtain(s) provided with the optional remote thermostat: mount and wire the thermostat according to instructions and wiring diagram.**

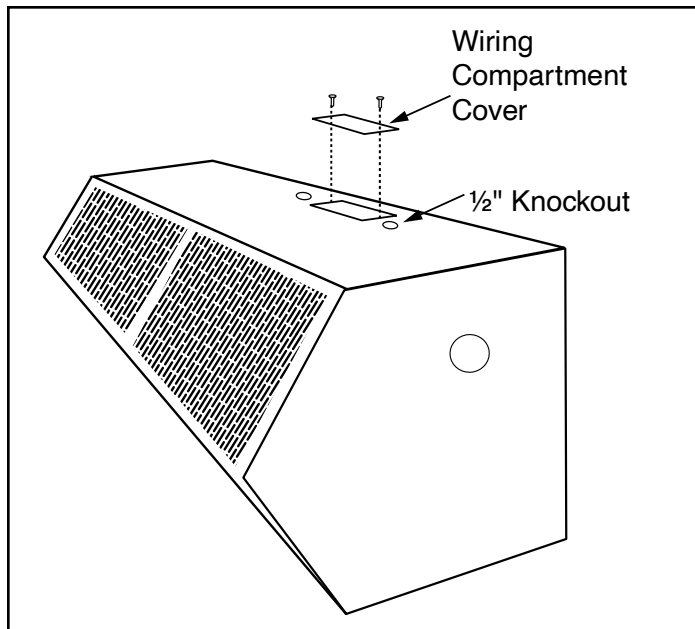


FIGURE 7 - Electrical Connections

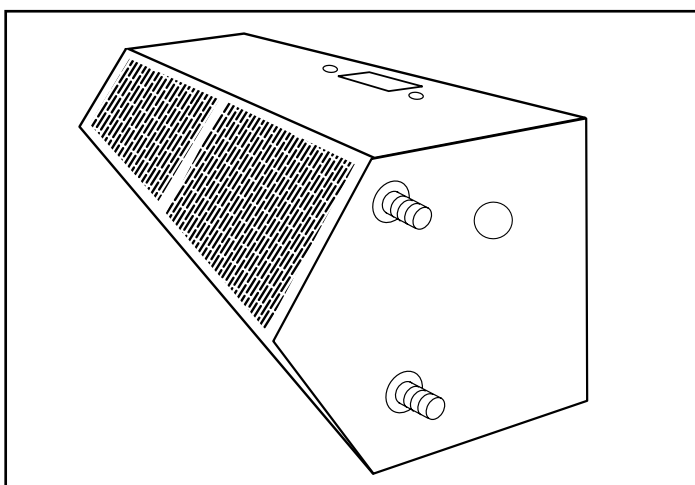


FIGURE 8 - Steam/Hot Water Connections

## VI. FIELD CONNECTIONS

### A. ELECTRICALLY HEATED MODELS

The heater circuit may be controlled by a combination of a remote thermostat and the fan/off/fan & heat rocker switch. Overheating protection is provided by auto reset thermal cutouts built into the heater coil assembly (see the wiring diagram, located in wiring tray).

### B. STEAM OR HOT WATER HEATED MODELS

Piping should be done in accordance with local codes, regulations and standard practices. Connect the building system supply and return to the 3/4" MPT nipples on the heating coil. **See FIGURE 8.**

## VII. OPERATING INSTRUCTIONS

### A. GENERAL OPERATION

1. The air curtain can be directly operated by using the rocker switches located on the bottom of the unit. The air curtain may also be automatically operated by a combination of the rocker switches and a remote door switch and/or thermostat (See the wiring diagram).
2. Rocker switch positions are labeled on the air curtain cabinet.
3. Unheated units have one rocker switch that turns the unit on or off. The other rocker switch selects fan speed.
4. Heated units have one rocker switch that determines whether the unit is off, energizes only the fans, or energizes both the fans and the method of heat. The other rocker switch selects fan speed.

### B. AIR STREAM SPLIT ADJUSTMENT

1. With the air curtain operating and the door in its full open position, check to see that nothing is obstructing the air flow at the discharge nozzle vanes.
2. Find the air stream split location. Hold a handkerchief, by its corners, approximately 12" above the floor. Gently move the handkerchief back and forth in the doorway. Make sure the air is being directed to both the inside and the outside. The split location is indicated where the handkerchief is vertical with minimal or no fluttering. **See FIGURE 9 and FIGURE 10.**
3. Adjust the discharge nozzle vanes so the split location is approximately 3" outside the doorway. This is accomplished by first de-energizing the unit. Remove the cover housing, loosen the nozzle vane locking screws and adjust vanes.

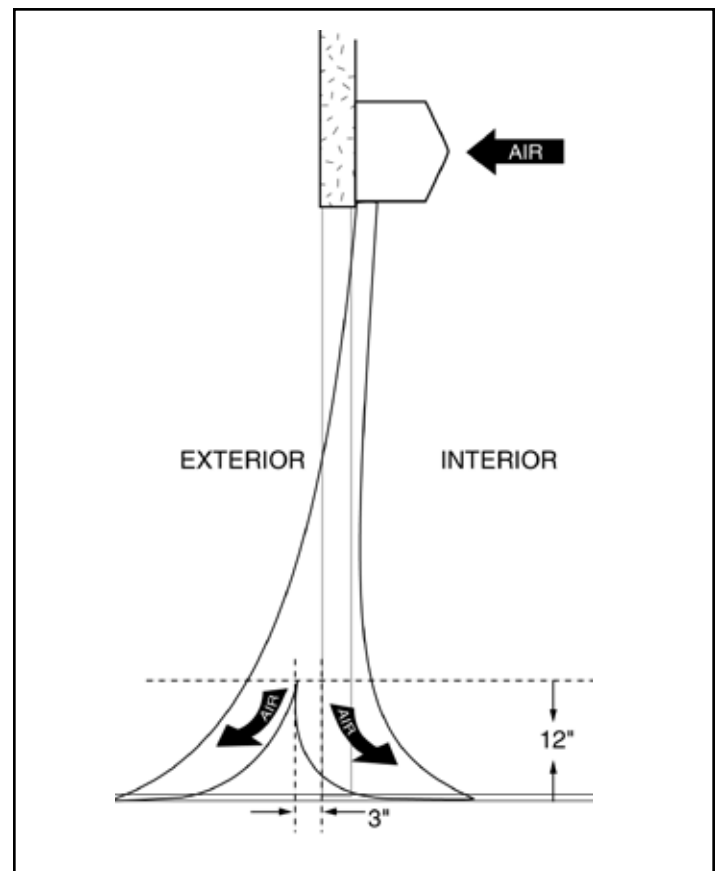


FIGURE 9 - Air Flow Adjustment (INTERIOR MOUNTING)

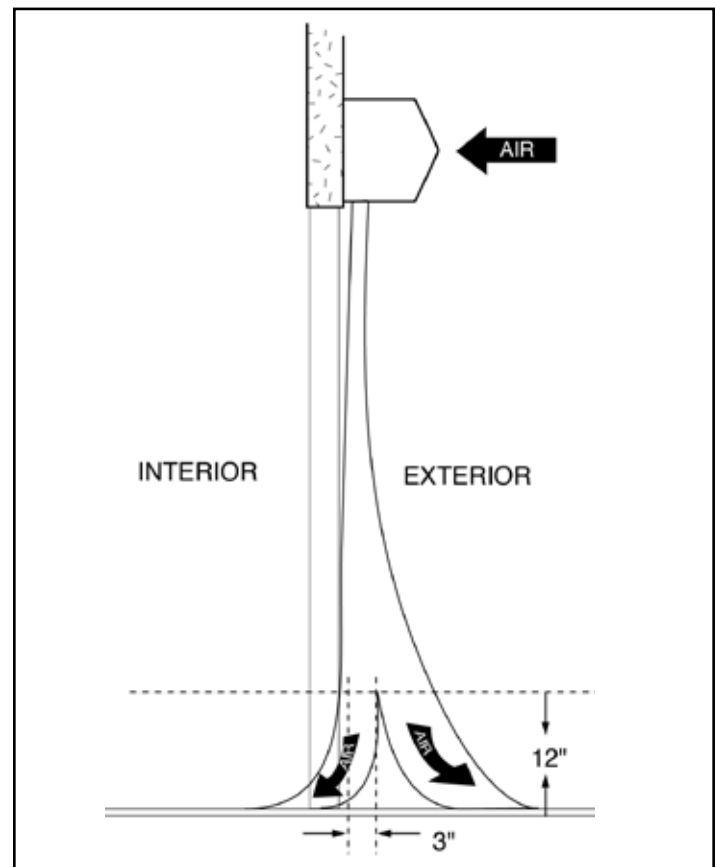


FIGURE 10 - Air Flow Adjustment (EXTERIOR MOUNTING)

## VIII. MAINTENANCE & CLEANING

**CAUTION: ELECTRIC SHOCK HAZARD** Disconnect power whenever servicing unit. More than one disconnect may be required to de-energize unit.

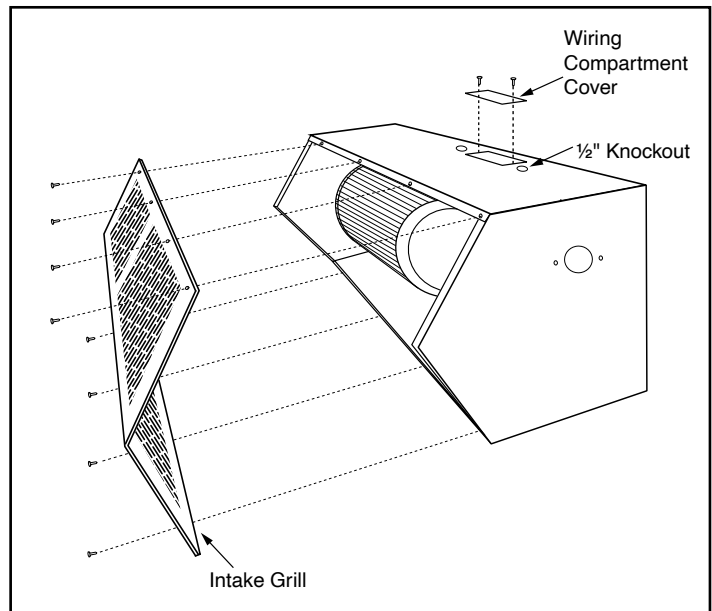
Keep your air curtain operating at peak efficiency by cleaning the blower wheels, motor(s) and intake grill. Buildup of dust on the blower wheels can cause vibration, noise and excessive wear on the motor bearings. The frequency of cleaning will depend on the environment where the unit is operating.

Dirty, dusty or greasy environments could require a cleaning schedule of once every two months. If the environment is not that dirty, the unit(s) should be scheduled for cleaning a minimum of once every (6) months.

### A. PERFORMING PREVENTIVE MAINTENANCE

1. **Disconnect and lockout power to the unit.**
2. Remove the intake grille by removing all phillips head screws around edge. **See FIGURE 11.**
3. Vacuum and scrape (if necessary) to remove the build-up of dirt and debris. The motor(s) are permanently lubricated and require no additional lubrication. Re-install the cover and intake grill.
4. Switch the power on after cleaning.

**CAUTION: STAND CLEAR OF THE UNIT OR WEAR SAFETY GOGGLES AS LOOSE DEBRIS MAY BE PRESENT AND MAY EXIT THE NOZZLE.**



**FIGURE 11**

## IX. SERVICE

**CAUTION: ELECTRIC SHOCK HAZARD** Disconnect power whenever servicing air curtain unit. More than one disconnect may be required to de-energize unit.

*Any service performed on the Sanitation Certified Low Profile7/ Commercial Low Profile 8 air curtain **MUST** be done by qualified personnel.*

Berner air curtains require very little servicing. All parts are easily accessible for periodic inspection and maintenance. Units should be cleaned at least twice a year. Your particular application (the amount of dirt and dust in the air) and location of the unit(s) will determine how often your unit(s) will need to be cleaned and serviced. All motors have permanently lubricated, sealed, sleeve bearings and require no maintenance.

### A. FAN AND MOTOR REMOVAL

1. Disconnect power to the unit.
2. Remove the intake grille by removing all phillips head screws around edge. **See FIGURE 11.**
3. Unplug motor harness from motor and remove necessary wiring.
4. Using a 1/8" Allen wrench, loosen each set screw attaching fan(s) to motor.
5. While holding the motor in place, loosen and remove the motor clips.
6. Slide the fans toward the motor so that the ball bearings on the outer fan shaft are exposed.
7. Slowly roll the motor out of the motor mount cradle forward and down. The hubs of the fans are flexible enough to allow the motor to move before the fans' outer ball bearings pull out of the unit.
8. Reinstall in reverse order of removal.

## X. TROUBLESHOOTING

| SYMPTOMS                                 | CAUSE                                                                                                                                                                                        | REMEDY                                                                                                                                                                                                                                                                                               |
|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>NO AIR</b>                            | <ul style="list-style-type: none"> <li>Electrical Power supply line open (no power)</li> <li>Fuse blown/circuit breaker tripped</li> <li>Motor overload tripped</li> </ul>                   | <ul style="list-style-type: none"> <li>Check power source, check method of control is in "ON" position</li> <li>Replace fuse(s)/reset breaker</li> <li>Internally protected motor - should reset automatically after cool-down, if not, replace motor.</li> </ul>                                    |
|                                          | <ul style="list-style-type: none"> <li>Failed switch</li> </ul>                                                                                                                              | <ul style="list-style-type: none"> <li>Replace switch</li> </ul>                                                                                                                                                                                                                                     |
|                                          | <b>MOTOR RUNNING/FANS ARE NOT ROTATING</b>                                                                                                                                                   |                                                                                                                                                                                                                                                                                                      |
|                                          | <ul style="list-style-type: none"> <li>Broken fan hub</li> <li>Shaft rotating inside fan</li> <li>Broken / Loose coupling</li> </ul>                                                         | <ul style="list-style-type: none"> <li>Replace fan</li> <li>Tighten set screws/tighten fan on shaft</li> <li>Replace / Tighten coupling</li> </ul>                                                                                                                                                   |
| <b>MINIMUM AIR</b>                       | <b>ELECTRICAL CONTROLS NOT FUNCTIONING WHEN DOOR IS OPEN</b>                                                                                                                                 |                                                                                                                                                                                                                                                                                                      |
|                                          | <ul style="list-style-type: none"> <li>Selector switch is in "OFF" position</li> <li>Door limit switch not operating</li> </ul>                                                              | <ul style="list-style-type: none"> <li>Turn switch to "ON" position</li> <li>Repair or replace limit switch</li> </ul>                                                                                                                                                                               |
| <b>AIR IS NOT HITTING FLOOR</b>          | <ul style="list-style-type: none"> <li>Air stream too weak</li> <li>Air steam hits obstruction</li> <li>Negative pressure</li> </ul>                                                         | <ul style="list-style-type: none"> <li>Adjust nozzle to proper position, adjust motor speed; see installation instructions</li> <li>Remove obstruction or reposition air curtain (move out 3/8" for every 1" up from the door)</li> <li>Relieve negative pressure by providing makeup air</li> </ul> |
| <b>UNEVEN AIR</b>                        | <ul style="list-style-type: none"> <li>Shaft rotating inside fan</li> </ul>                                                                                                                  | <ul style="list-style-type: none"> <li>Tighten set screws/Replace fan</li> </ul>                                                                                                                                                                                                                     |
| <b>EXCESSIVE AIR MOVEMENT AT DOORWAY</b> | <ul style="list-style-type: none"> <li>Nozzle not angled out far enough</li> <li>Air movement too cold</li> <li>Pushing air outside building</li> </ul> <p>SEE: AIR IS NOT HITTING FLOOR</p> | <ul style="list-style-type: none"> <li>Adjust nozzle angle to outside</li> <li>Add auxiliary heat to overcome wind chill</li> <li>Adjust nozzle angle towards door threshold</li> </ul>                                                                                                              |



## XI. WARRANTY

Berner International ("The Company") warrants all new equipment to be free of defects in workmanship and material for a period of five years (5 years) on unheated models and two years (2 years) on heated models from the original date of shipment, provided the equipment has been properly cared for, installed and operated in accordance with the limits specified on the nameplate and The Company's instructions. All warranted parts will be replaced at no charge for a period of six months from date the parts were shipped.

The Company will correct by repair or replacement, at its option and expense, any proven defects in said apparatus, subject to the above conditions, provided that immediate written notice of such defects is given to The Company. The warranty does not include any labor incurred for the removal or installation of defective part(s). The Company reserves the right to inspect, or have inspected by a qualified representative, any apparatus at the place of installation before authorizing repair or replacement. Repair or replacement will be made F.O.B. factory with any applicable transportation charges to be borne by the customer. Merchandise not of The Company's manufacture supplied in piece, or in component assemblies, is not covered by the above warranty, but The Company will give the customer the benefit of any adjustment as made with the Manufacturer.

This warranty is void if the apparatus has been tampered with in any way or shows evidence of misuse.

The Company will not assume any expense or liability for repairs made outside its factory without proper written consent from its service manager, nor for any transportation charges on apparatus returned to the factory without written authorization by The Company.

Nothing in the above warranty provisions, however, shall impose any liability or obligation of any type, nature or description upon Berner International if Berner has not received payment in full for the apparatus in question.

**THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.**

### LIMITATION OF DAMAGES

**Notwithstanding anything to the contrary above, customer's exclusive remedy for any and all losses or damages resulting from the sale of The Company's equipment under this agreement, including but not limited to, any allegations of breach of warranty, breach of contract, negligence or strict liability, shall be limited, at The Company's option, to either the return of the purchase price or the replacement of the particular equipment for which a claim is made and proved. In no event shall The Company be liable for any special, consequential, incidental or indirect losses or damages from the sale of The Company's equipment under this agreement.**

SERIAL NUMBER

DATE PURCHASED

# BERNER

## AIR CURTAINS

*Saving energy and creating healthy, comfortable environments*

**BERNER AIR CURTAINS**  
**New Castle, Pennsylvania**

**724-658-3551 • 1-800-245-4455 • [Berner.com](http://Berner.com)**

*Berner reserves the right to alter specifications without prior notice.*