

**READ AND SAVE  
THESE INSTRUCTIONS**



No.: II-300  
Date: October, 2007

# In-Ceiling Mount

## *Installation & Maintenance Instructions*



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

- A. Use this unit only in the manner intended by the manufacturer. If you have any questions, contact the manufacturer.
- B. 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.
- C. Installation work and electrical wiring must be done by qualified person(s) in accordance with all applicable codes and standards, including fire-rated construction.
- D. Sufficient air is needed for proper combustion and exhausting of gases through the flue (chimney) of fuel burning equipment to prevent back drafting. Follow the heating equipment manufacturer's guideline and safety standards such as those published by the National Fire Protection Association (NFPA), and the American Society for Heating, Refrigeration and Air Conditioning Engineers (ASHRAE), and local code authorities.
- E. When cutting or drilling into wall or ceiling, do not damage electrical wiring and other hidden utilities.

## **I. UNCRATING**

Carefully examine the carton(s) for damage before opening. If the carton is damaged, immediately notify shipping company. If the unit(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 unit(s) are installed and properly operating.

**ACCESSORIES:** If the unit(s) were ordered with optional electrical accessories (door switch, control panel, etc.), the accessories may be found in the carton containing the unit or in a separate carton(s) accompanying the unit(s). Check all of the cartons/skids for accessories before discarding.

**BERNER INTERNATIONAL CORPORATION**

New Castle, Pennsylvania

724-658-3551 • 1-800-245-4455 • [www.berner.com](http://www.berner.com) • [airdoors@berner.com](mailto:airdoors@berner.com)

## II. MOUNTING PREPARATION

**INDOOR MOUNTING** - Environmental/Insect/Dust Control

**OUTDOOR MOUNTING** (Unheated only) - Insect/Dust Control

The In-Ceiling Mount air door is designed to be an effective barrier against cold drafts in the winter and hot air in the summer. To achieve optimum protection, the unit should be mounted on the inside of the building, flush with the ceiling, so that the airstream can pass as close to the top of the door opening as possible. To ensure peak performance keep air stream free of obstructions.

**The air door will not perform properly if negative air pressure exists in the building. Under these conditions, a means for makeup 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 three (3) times the weight of the unit. **See TABLE 1**

- 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 1**
- For optimum performance, the bottom of the discharge nozzle should be located in such a manner that it is **spaced out** from the wall  $\frac{3}{8}$ " for every inch the unit is above the door opening. For

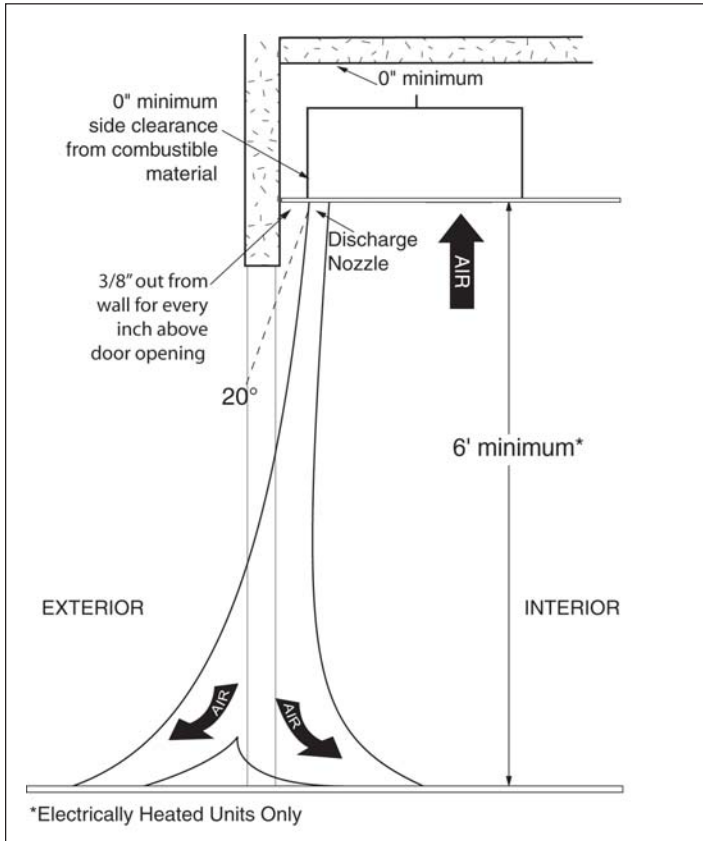


FIGURE 1

MODEL	Net Weight Ambient (lbs)	Net Weight Electric (lbs)	Net Weight Steam/Hot Water (lbs)
ICM/FCM1036	72	74	92
ICM/FCM1042	76	79	98
ICM/FCM1048	79	82	109
ICM/FCM2060	100	105	150
ICM/FCM2072	118	128	166

TABLE 1 - Weight Chart

optimum protection, any void between the air door and the wall should be sealed along the full length of the unit.

### C. Electric heated units shall:

- Have a minimum clearance of at least 0" between the sides and top of the unit and any combustible material.
- Have a minimum clearance of at least 6' between the bottom of the unit and the floor.
- Be installed indoors only.

## III. MOUNTING

- The ICM/FCM series air door enclosure is equipped with four 5/16"-18 threaded inserts on the top of the unit for suspended mounting.

**For lighter lifting the blower assembly may be removed so that the enclosure can be easily installed.**

- To remove the blower assembly, remove the nozzle surround held by phillips head screws from the bottom of the enclosure and set aside. **See FIGURE 2**
- Open the intake screen, secured by phillips head screws, on the bottom of the enclosure. **See FIGURE 2**
- Remove the intake screen by grasping both sides and pressing in on the spring loaded hinge pins and set aside. **See FIGURE 3**
- Loosen (do not remove) the four (4) 1/4" bolts that attach the blower assembly to the enclosure. Remove the blower assembly by lifting the keyhole slots up and over the bolts and set aside. **See FIGURE 4**

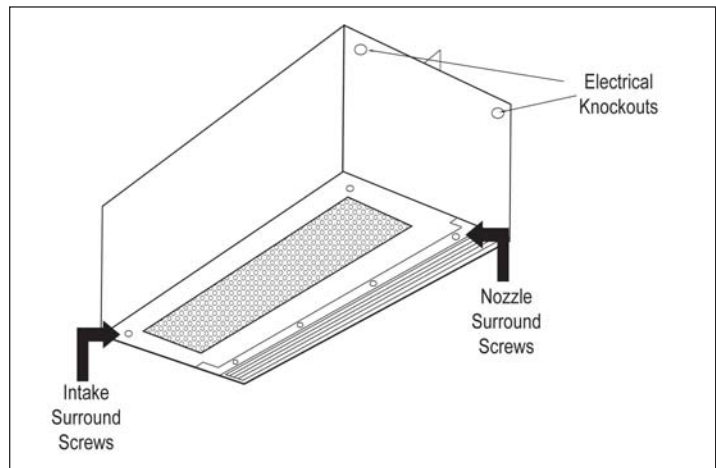


FIGURE 2

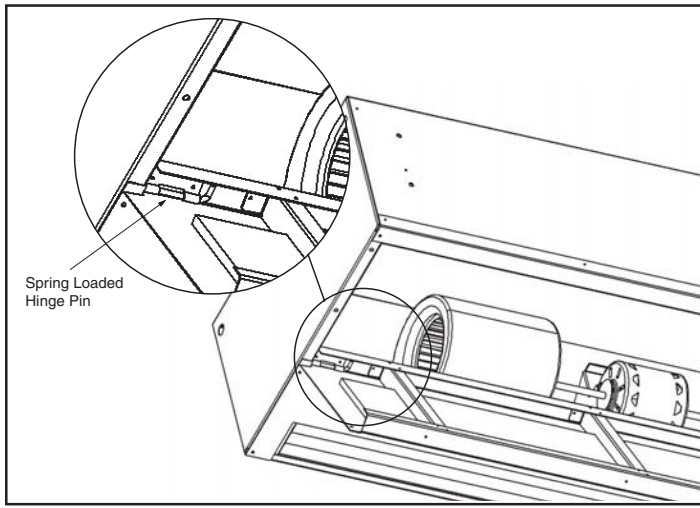


FIGURE 3

- B. The electrical junction box is located inside the enclosure on the right hand side of the blower assembly. The unit enclosure is provided with two knockouts on each side, allowing for left or right hand power connections. Remove the required knockout (closest to discharge nozzle) and attach necessary electrical hardware. **See FIGURE 2**
- C. Determine the exact mounting location of the air door unit.
- D. Create structural attachment points to suspend the unit above the ceiling so that the unit is centered and parallel with the door opening.
- E. Suspend cabinet by attaching threaded rods to the unit and support structures. Adjust unit position so the bottom of the cabinet is flush with the underside of the ceiling. **See FIGURE 5**
- F. Finish off ceiling edge as required. If the unit is installed within a drop ceiling, wall angles may be attached to the cabinet circumference to support t-bar frame and ceiling tiles.

**NOTE:** When finishing materials are attached to the unit enclosure, fasteners must be no longer than 1/2", and placed no closer than 3" to the cabinet corners. Finishing materials must not overlap the bottom of the cabinet to allow the intake screen to open freely.

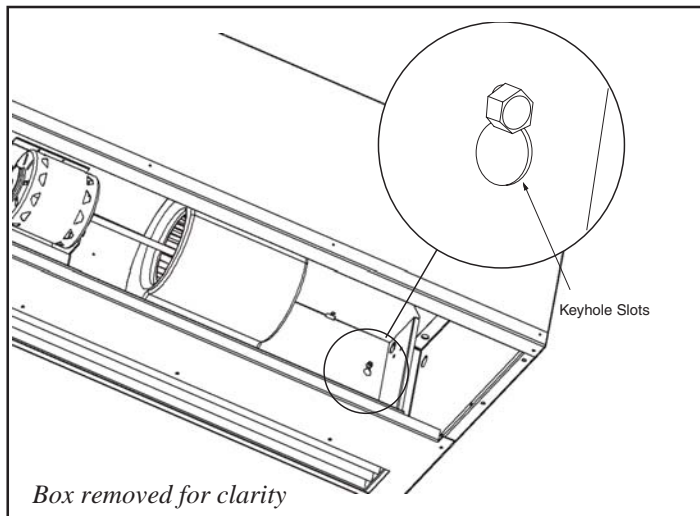


FIGURE 4

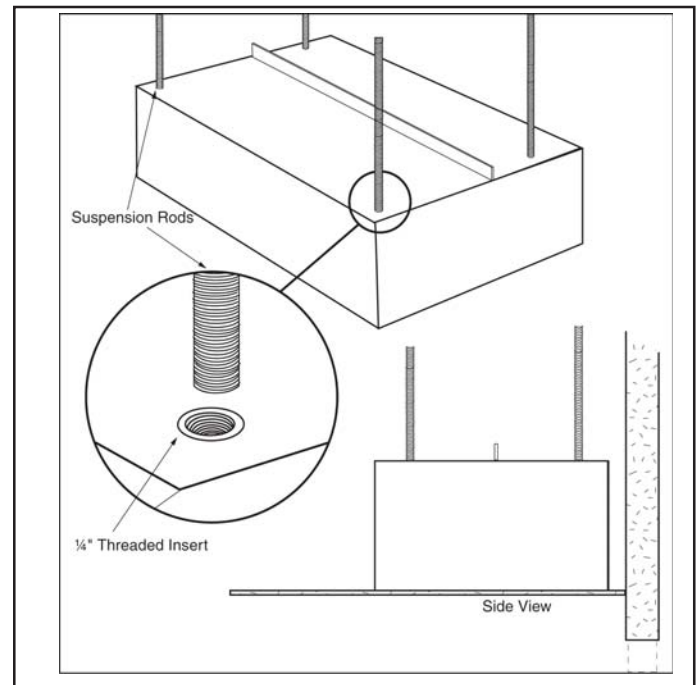


FIGURE 5

- G. If the blower assembly was removed, re-install it along with nozzle surround and intake screen (leave intake screen off if proceeding to Electrical Connections, leave off nozzle if proceeding to AirFlow Adjustments).

#### IV. ELECTRICAL CONNECTIONS

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

- A. Check the rating nameplate on the unit 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 unit. A disconnect switch for each branch circuit is a required part of this installation. **See Table 2 & 3**
- 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 unit must be replaced, it must be replaced with copper wiring with a minimum insulation of 90°C.
- C. If the intake screen is on the unit, open it by removing the phillips head screws on the bottom of the enclosure. Remove it by grasping both sides and pressing in on the spring loaded hinge pins and set aside. **See FIGURES 2 & 3**

MOTOR VOLTAGES/AMP DRAWS		
Horsepower	1/2	1/2
Speed	3	3
Volts	120	208/240
Phase	1	1
Hertz**	50/60	50/60
Amps per Motor	7.2	4.0

TABLE 2

ELECTRIC HEATER DATA									
MODEL	kW	208V 1Ø Amp Draw		240V 1Ø Amp Draw		208V 3Ø Amp Draw		240V 3Ø Amp Draw	480V 3Ø Amp Draw
		Circuit 1	Circuit 2	Circuit 1	Circuit 2	Circuit 1	Circuit 2	Circuit 1	Circuit 1
ICM/FCM1036E	10	16.0	32.0	41.7	-	27.8	-	24.1	12.0
ICM/FCM1042E	10	16.0	32.0	41.7	-	27.8	-	24.1	12.0
ICM/FCM1048E	10	16.0	32.0	41.7	-	27.8	-	24.1	12.0
ICM/FCM2060E	15	24.0	48.1	41.7	20.8	41.6	-	36.1	18.0
ICM/FCM2072E	20	48.1	48.1	41.7	41.7	27.8	27.8	48.1	24.0

Chart reflects standard kW. Refer to wiring diagram and rating nameplate on unit to confirm kW.

TABLE 3

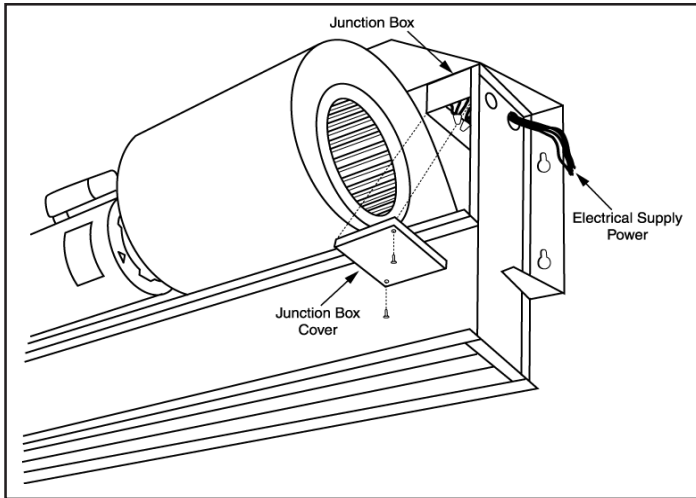


FIGURE 6

D. Remove the junction box cover located on the right-hand side of the blower assembly. Wiring diagram is located inside.  
**See FIGURE 6**

E. Connect all supply and control circuit wires according to the wiring diagram.

**NOTE:** Electric heated units may be provided with a line voltage thermostat. Mount and wire thermostat according to instructions and the wiring diagram.

F. Reinstall the intake screen.

G. Switch on the power at the service disconnect. Turn on the unit and check the sequence of operation against the wiring diagram.

H. Proceed to **Section V-MECHANICAL CONNECTIONS** for heated units, otherwise proceed to **Section VI-AIRFLOW ADJUSTMENTS**.

## V. MECHANICAL CONNECTIONS

### A. ELECTRICALLY HEATED MODELS

The heater circuit may be controlled by a switch and/or thermostat. Overheating protection is provided by auto reset thermal cutouts built into the blower assembly (see wiring diagram). Proceed to **Section VII-AIRFLOW ADJUSTMENTS**.

### B. STEAM AND HOT WATER MODELS

Piping should be done in accordance with local codes, regulations and standard practices. Connect the building system supply & return to the 1" MPT nipples on the heating

coil. The heater coil may be controlled by a solenoid valve and switch and/or thermostat (see wiring diagram). **See FIGURE 7.**

## VI. AIRFLOW ADJUSTMENTS

A. With the air door operating and the door in its full open position, check to see that nothing is obstructing the air flow at the discharge nozzle vanes.

B. 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 8.**

C. 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 nozzle surround (if not already done), loosen the nozzle vane locking screws and adjusting vanes.

D. Reinstall nozzle surround.

## VII. MAINTENANCE AND CLEANING

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

Keep your air door operating at peak efficiency by cleaning the blower wheels, motor(s) and intake grille. 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

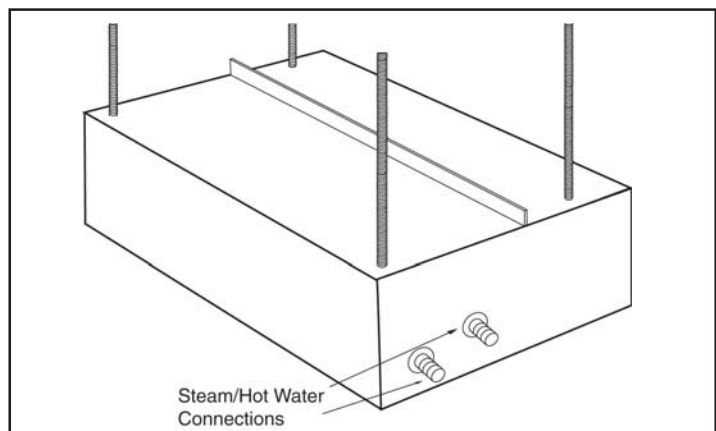


FIGURE 7

environment where the unit is operating.

Dirty, dusty or greasy environments could require a cleaning schedule of once every two months. Otherwise, the unit(s) should be scheduled for cleaning a minimum of once every (6) months. To access the interior of the unit:

- A. Disconnect and lockout power to the unit. If necessary remove the blower assembly by removing the nozzle surround, held by phillips head screws from the bottom of the enclosure. Open the intake screen, secured by phillips head screws, on the bottom of the enclosure. **See FIGURE 2**
- B. Remove the intake screen by grasping both sides and pressing in on the spring loaded hinge pins and set aside. **See FIGURE 3**
- C. Loosen (do not remove) the four (4) 1/4" bolts that attach the blower assembly to the enclosure. Remove the blower assembly by lifting the keyhole slots up and over the bolts and set aside. **See FIGURE 4**
- D. Vacuum and scrape (if necessary) to remove the buildup of dirt and debris from the interior of the air door. The motor(s) are permanently lubricated and require no additional lubrication.
- E. Remove the filter by taking off the intake screen and working from the inside, pull the filter's edges out from under the rails. Clean the filter by spraying it with soapy water, and rinsing. The filter will need to be replaced after a few cleanings. Reinstall the filter and intake screen.
- F. 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.**

## VIII. SERVICE

**CAUTION: ELECTRIC SHOCK HAZARD Disconnect power when-**

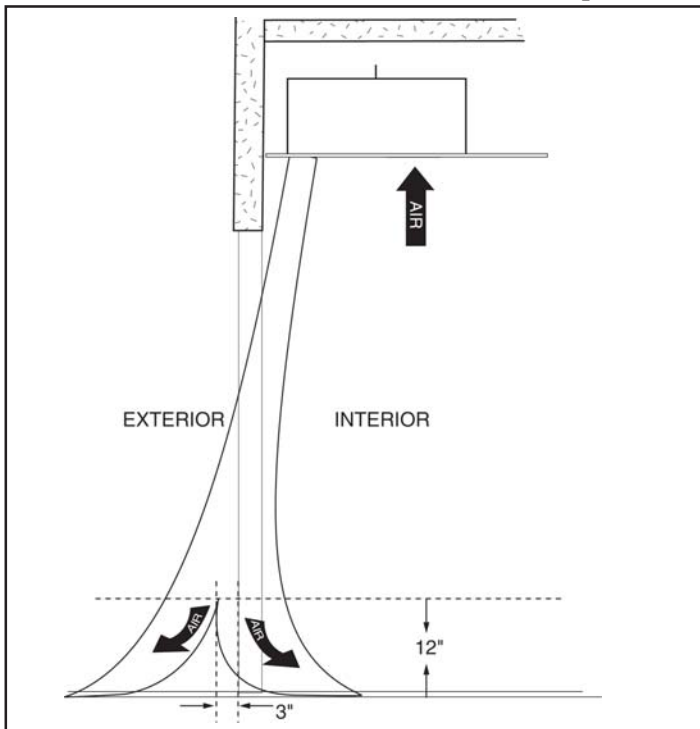


FIGURE 8

**ever servicing unit. More than one disconnect may be required to de-energize unit.**

*Any service performed on the ICM/FCM air door **MUST** be done by qualified personnel.*

Berner air doors 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 Wheel Removal - Ambient and Electric Heated

1. Disconnect and lockout power to the unit.
2. To remove the blower assembly, remove the nozzle surround held by phillips head screws from the bottom of the enclosure and set aside. **See FIGURE 2**
3. Open the intake screen, secured by phillips head screws, on the bottom of the enclosure. **See FIGURE 2**
4. Remove the intake screen by grasping both sides and pressing in on the spring loaded hinge pins and set aside. **See FIGURE 3**
5. Loosen (do not remove) the four (4) 1/4" bolts that attach the blower assembly to the enclosure. Remove the blower assembly by lifting the keyhole slots up and over the bolts and set aside. **See FIGURE 4**
6. If unit is equipped with inlet rings and/or tri-arm bearings, remove outside ring and/or bearing using a blade screw driver or 1/4" nut driver. If unit does not have inlet rings proceed to next step.
7. Loosen (**do not remove**) 5/32" Allen head set screw from hub of fan wheel. Note: a T-handle Allen wrench may be inserted through hole in fan housing and fan blade with semi-circle notch.
8. Carefully slide fan wheel out of fan housing.
9. Reinstall fan wheel and align set screw with flat on motor shaft.
10. Slowly tighten set screw while gently rocking fan wheel back and forth to settle set screw perpendicular to motor shaft flat.
11. Reinstall inlet ring and/or bearing if necessary.
12. Reinstall blower assembly and switch on power.

### B. Motor Removal - Ambient and Electric Heated

1. Remove the blower assembly, remove the nozzle surround held by phillips head screws from the bottom of the enclosure and set aside. **See FIGURE 2**
2. Open the intake screen, secured by phillips head screws, on the bottom of the enclosure. **See FIGURE 2**

3. Remove the intake screen by grasping both sides and pressing in on the spring loaded hinge pins and set aside. **See FIGURE 3**
4. Loosen (do not remove) the four (4) ¼” bolts that attach the blower assembly to the enclosure. Remove the blower assembly by lifting the keyhole slots up and over the bolts and set aside. **See FIGURE 4**
5. Unplug wiring harness from motor.
6. Loosen (**do not remove**) 5/32" Allen head set screw from hub of each fan wheel attached to motor. Note: a T-handle Allen wrench may be inserted through hole in fan housing and fan blade with semi-circle notch. If unit is equipped with an extended shaft and coupling for a three fan, one motor construction, this fan assembly must be disconnected from motor shaft. Loosen 5/32" set screw on third fan wheel hub. Loosen set screw on motor shaft side of coupling (silver coupling - 5/32" Allen wrench, black coupling - 9/64" Allen wrench). Slide coupling and shaft off motor shaft by gently pushing it through third fan hub.
7. Remove four phillips head screws from each fan housing that has a fan attached to motor.
8. Remove each fan and housing assembly from motor shaft by sliding away from motor. After fan wheel is off motor shaft, remove assembly by rotating it away from the blower assembly.
9. While supporting motor, loosen and remove two clips that hold motor with a straight blade screw driver or 5/16" nut driver.
10. Remove motor.
11. Install motor in reverse order of removal.

### **C. Fan Wheel and Housing Removal - Ambient and Electric Heated**

1. Disconnect and lockout power to the unit.
2. Remove the blower assembly, remove the nozzle surround held by phillips head screws from the bottom of the enclosure and set aside. **See FIGURE 2**
3. Open the intake screen, secured by phillips head screws, on the bottom of the enclosure. **See FIGURE 2**
4. Remove the intake screen by grasping both sides and pressing in on the spring loaded hinge pins and set aside. **See FIGURE 3**
5. Loosen (do not remove) the four (4) ¼” bolts that attach the blower assembly to the enclosure. Remove the blower assembly by lifting the keyhole slots up and over the bolts and set aside. **See FIGURE 4**
6. For electric heated units, mark connections and disconnect four spade wire terminals from electric heaters.
7. Loosen (**do not remove**) 5/32" Allen head set screw from hub of fan wheel. Note: a T-handle Allen wrench may be inserted

through hole in fan housing and fan blade with semi-circle notch.

8. Remove four phillips head screws from fan housing.
9. Remove fan and housing from motor shaft by sliding assembly away from motor. After fan wheel is off of motor shaft, remove assembly by rotating it away from blower assembly.
10. Reinstall in reverse order of removal.

### **D. Filter Replacement**

1. Disconnect and lockout power to the unit.
2. Open the intake screen by removing the by phillips head screws on the bottom of the enclosure. Remove it by grasping both sides and pressing in on the spring loaded hinge pins. **See FIGURES 2 & 3**
3. Remove the filter by taking off the intake screen and working from the inside, pull the filter’s edges out from under the rails. Replace with new filter.
4. Reinstall the intake screen.

### **E. Electric Heater Removal - Electric Heated**

1. Disconnect and lockout power to the unit.
2. Remove the blower assembly, remove the nozzle surround held by phillips head screws from the bottom of the enclosure and set aside. **See FIGURE 2**
3. Open the intake screen, secured by phillips head screws, on the bottom of the enclosure. **See FIGURE 2**
4. Remove the intake screen by grasping both sides and pressing in on the spring loaded hinge pins and set aside. **See FIGURE 3**
5. Loosen (do not remove) the four (4) ¼” bolts that attach the blower assembly to the enclosure. Remove the blower assembly by lifting the keyhole slots up and over the bolts and set aside. **See FIGURE 4**
6. Mark connections and disconnect four spade wire terminals from electric heater(s).
7. Loosen (**do not remove**) 5/32" Allen head set screw from hub of fan wheel. Note: a T-handle Allen wrench may be inserted through hole in fan housing and fan blade with semi-circle notch.
8. Remove four phillips head screws from fan housing.
9. Remove fan and housing from motor shaft by sliding assembly away from motor. After fan wheel is off of motor shaft, remove assembly by rotating it away from blower assembly.
10. Remove electric heater element from fan housing by removing three screws with 1/4" nut driver.
11. Reinstall in reverse order of removal.

# 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 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> <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>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>MINIMUM AIR</b>	<ul style="list-style-type: none"> <li>• Air directional discharge vanes misadjusted</li> <li>• Inadequate intake clearance</li> <li>• Blower motor operates below speed</li> <li>• Fan rubbing against housing</li> <li>• Fan wheels clogged with dirt</li> </ul>	<ul style="list-style-type: none"> <li>• Adjust vanes to proper position, see instructions</li> <li>• Move air curtain or remove obstruction Provide adequate space for air curtain</li> <li>• Improper voltage</li> <li>• Free fan from housing</li> <li>• Clean and vacuum fan wheels</li> </ul>
<b>AIR IS NOT HITTING FLOOR</b>	<ul style="list-style-type: none"> <li>• Air stream too weak</li> <li>• Air stream 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> <li>• One motor not operating</li> </ul>	<ul style="list-style-type: none"> <li>• Tighten set screws/Replace fan</li> <li>• Repair or replace motor/Check electrical connections</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 style="text-align: center;">SEE AIR IS NOT HITTING FLOOR SYMPTOMS</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 discharge angle back into building</li> </ul>
<b>ELECTRICALLY HEATED MODELS</b>		
<b>NO HEAT</b>	<ul style="list-style-type: none"> <li>• Switch turned to "OFF" position</li> <li>• Thermostat not set properly</li> <li>• Coils burned out due to lack of air</li> <li>• Automatic reset thermal cutout failed in open position</li> <li>• Manual reset thermal cutout tripped</li> <li>• Defective switch</li> </ul>	<ul style="list-style-type: none"> <li>• Turn switch on</li> <li>• Change thermostat setting</li> <li>• Correct airflow problem; replace coils</li> <li>• Replace automatic thermal cutout</li> <li>• Reset manual thermal cutout</li> <li>• Replace switch</li> </ul>
<b>NOT ENOUGH HEAT</b>	<ul style="list-style-type: none"> <li>• Thermostat in wrong location - thermostat too close to discharge</li> <li>• Improper voltage</li> <li>• Thermostat not set properly</li> </ul>	<ul style="list-style-type: none"> <li>• Move thermostat away from air stream</li> <li>• Supply proper voltage</li> <li>• Change temperature setting</li> </ul>
<b>TOO MUCH HEAT</b>	<ul style="list-style-type: none"> <li>• Thermostat in wrong location</li> <li>• Thermostat not set properly</li> <li>• Insufficient air over coil</li> <li>• Improper voltage</li> </ul>	<ul style="list-style-type: none"> <li>• Move the thermostat closer to air stream</li> <li>• Change temperature setting</li> <li>• Remove restriction on intake</li> <li>• Supply proper voltage</li> </ul>
<b>STEAM/HOT WATER HEATED UNITS</b>		
<b>EXCESSIVE HEAT</b>	<ul style="list-style-type: none"> <li>• Too high steam/hot water pressure</li> <li>• Inadequate air flow, fins plugged up, dirty coils</li> </ul>	<ul style="list-style-type: none"> <li>• Reduce steam pressure/hot water flow</li> <li>• Clean intake and coils</li> </ul>
<b>MINIMAL HEAT</b>	<ul style="list-style-type: none"> <li>• Insufficient removal of condensation (steam)</li> <li>• Not enough steam pressure/water temperature too low</li> <li>• Intake air below design temperature</li> </ul>	<ul style="list-style-type: none"> <li>• Increase trap size</li> <li>• Raise pressure for steam/increase water flow</li> <li>• Increase steam pressure/increase water flow</li> </ul>

# WARRANTY

Berner International 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.

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 \_\_\_\_\_ Model Number \_\_\_\_\_ Date Purchased \_\_\_\_\_



**Berner International Corporation**  
111 Progress Avenue  
New Castle, PA  
724-658-3551  
1-800-245-4455  
www.berner.com

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

**Berner International Corporation** New Castle, PA 16101 / USA / Telephone (724) 658-3551 / FAX (724) 652-0682 / www.berner.com / airdoors@berner.com

 MADE IN U.S.A.

©Copyright, 2007 Berner International Corporation