

# IMPORTANT INSTRUCTIONS - OPERATING MANUAL

Models: EQH400, EQH900



Heater



## READ AND SAVE THESE INSTRUCTIONS

READ CAREFULLY BEFORE ATTEMPTING TO ASSEMBLE, INSTALL, OPERATE OR MAINTAIN THE PRODUCT DESCRIBED. PROTECT YOURSELF AND OTHERS BY OBSERVING ALL SAFETY INFORMATION. FAILURE TO COMPLY WITH INSTRUCTIONS COULD RESULT IN PERSONAL INJURY AND/OR PROPERTY DAMAGE!



RETAIN INSTRUCTIONS FOR FUTURE REFERENCE.

## GENERAL SAFETY INFORMATION

When using electrical appliances, basic precautions should always be followed to reduce the risk of fire, electric shock and injury to person, including the following:



**WARNING: TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK AND INJURY TO PERSON, OBSERVE THE FOLLOWING:**

- a) Use this unit only in the manner intended by the manufacturer. If you have questions, contact the manufacturer.
- b) Before servicing or cleaning the 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.



**WARNING: TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK AND INJURY TO PERSON, OBSERVE THE FOLLOWING:**

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



**CAUTION: FOR GENERAL VENTILATING USE ONLY. DO NOT USE TO EXHAUST HAZARDOUS OR EXPLOSIVE MATERIALS AND VAPORS.**

- d) This unit must be grounded.
- e) To avoid motor bearing damage and noisy and/or unbalanced impellers, keep drywall spray, construction dust, etc. off power unit.
- f) Read all instructions before installing or using exhaust fan.
- g) For residential installations only.
- h) Must use suitable weather hood with insect screen to protect air intake.



**WARNING: TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, DO NOT USE THIS FAN WITH ANY SOLID-STATE SPEED CONTROL DEVICE.**

- a) Must be connected to a GFCI (ground fault circuit interrupter) protected branch circuit.



**WARNING: DO NOT USE IN KITCHENS.**



**WARNING: THIS UNIT IS DESIGNED AND TESTED TO BE A SUPPLEMENTAL HEATER. IT IS NOT INTENDED TO BE USED AS THE PRIMARY SOURCE OF HEAT.**



**WARNING: THE DUCTING FROM THIS FAN HAS A STRONG EFFECT ON THE AIR FLOW, NOISE AND ENERGY USE OF THE FAN. USE THE SHORTEST, STRAIGHTEST DUCT ROUTING POSSIBLE FOR BEST PERFORMANCE, AND AVOID INSTALLING THE FAN WITH SMALLER DUCTS THAN RECOMMENDED. INSULATION AROUND THE DUCTS CAN REDUCE ENERGY LOSS AND INHIBIT MOLD GROWTH.**

Electrical Ratings: EQH400: 120V, 60Hz., 4.8A  
EQH900: 120V, 60Hz., 9A

Installing Contractor: _____
Installation Date: _____
Model Number: _____

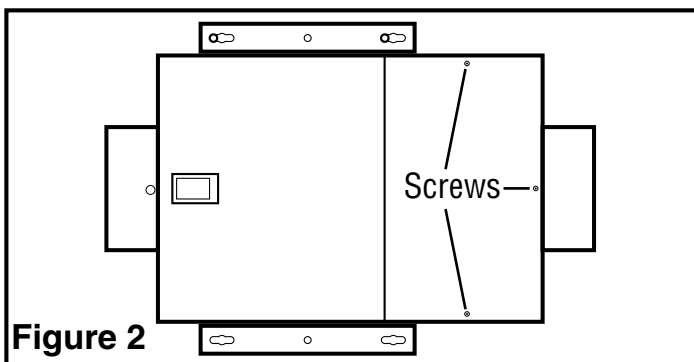
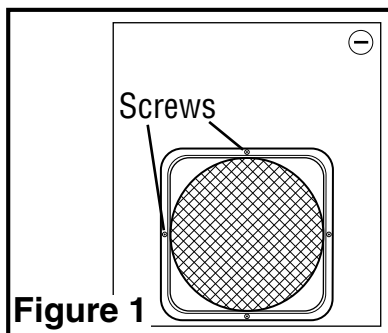
## SAVE THESE INSTRUCTIONS

# INSTALLATION INSTRUCTIONS

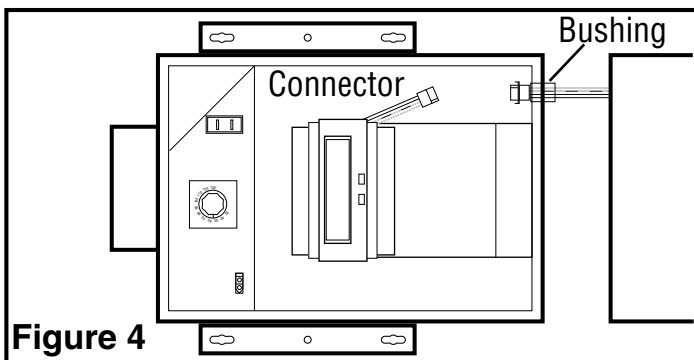
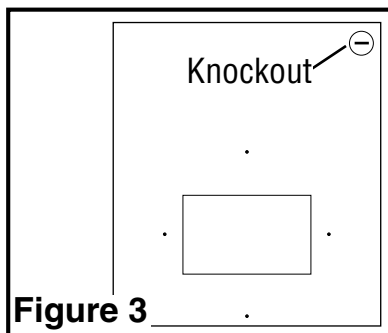
**CAUTION:** MAKE SURE POWER IS SWITCHED OFF AT SERVICE PANEL BEFORE STARTING INSTALLATION.

**CAUTION** MAKE SURE THE MAIN UNIT IS INSTALLED ACCORDING TO ALL INSTRUCTIONS INCLUDED WITH THE UNIT.

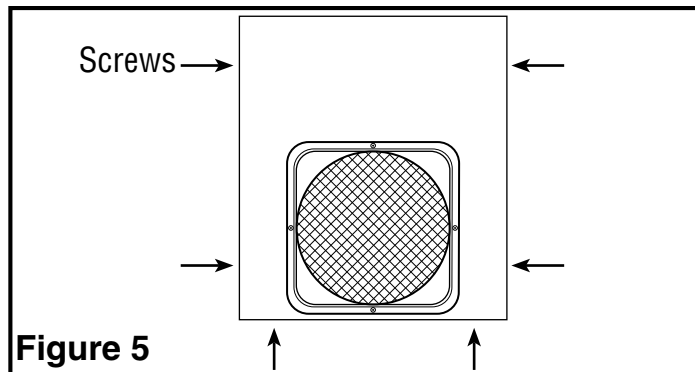
1. Remove the 4 screws holding the duct collar and gasket in place on the main unit. Save all these screws, the duct collar and gasket (**Figure 1**).
2. Install the duct collar and gasket you just removed onto the heater unit panel using the screws removed in *Step 1*.
3. Remove the three screws holding the top of the main unit in place. Save these screws (**Figure 2**).



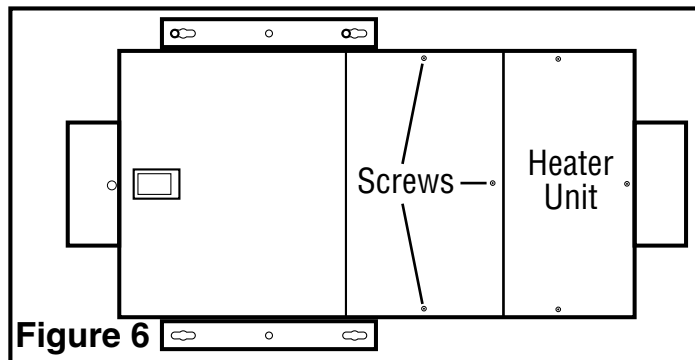
4. Remove the electrical knockout on the front of the main unit using a straight-blade screw driver (**Figure 3**).
5. From inside the main unit, remove the foam insert covering the knockout area and discard.
6. Install the included plastic bushing into the knockout hole to protect the wires (**Figure 4**).
7. Feed the heating unit's electrical connector through the knockout hole and connect to the 4 pin connector from the control inside the main unit (**Figure 4**).



8. Connect the heater unit to the main unit using the 6 screws provided. There are two screws on each side of the main unit (**Figure 5**).



9. Reinstall the main unit top cover using the three screws removed in Step 3 (**Figure 6**).



## Ducting

**NOTE:** If additional ducting will be connected to the unit, 6" or larger rigid duct is recommended for best performance. At the base of the duct adapter, there is a small diameter test port hole covered with a plastic cap. Make sure the test port is not covered up with the ducting so that it can be accessed for pitot tube testing. To access the port, remove the port cover and insert tube.

## Usage and Controls

This heater unit is for use in climates that the air coming into the unit falls below 54°F. The display will show a thermometer icon with either a "1" or "1 2" when the temperature range is at a level where the heating element would come on if present. Stage 1 - "1" turns on when the intake air temperature is between 39°F and 54°F. Stage 1 and 2 "1 2" turn on when the intake air temperature is between 33°F and 39°F.

## Maintenance

**CAUTION:** MAKE SURE POWER IS SWITCHED OFF AT SERVICE PANEL BEFORE SERVICING THE UNIT.

Clean the unit by wiping all parts with a dry cloth or gently vacuum the fan. NEVER IMMERSE ELECTRICAL PARTS IN WATER. See instructions included with the main unit for additional care and usage items.

**NOTE:** The heater function is equipped with an energy saving fan off time delay. When the heater function is turned off the heating element will turn off but the blower will continue to run for an additional 30 seconds delivering any residual heat to the occupied space.

## CALIFORNIA RESIDENTS ONLY:

**WARNING:** THIS PRODUCT CAN EXPOSE YOU TO A CHEMICAL [OR CHEMICALS] KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

**WARNING:** THIS PRODUCT CAN EXPOSE YOU TO A CHEMICAL [OR CHEMICALS] KNOWN TO THE STATE OF CALIFORNIA TO CAUSE REPRODUCTIVE TOXICITY.