

IHK-AIRMXR

Evaporator Coil - Air Mixer Kit

Sizes - 14" - 17" and 21" - 24"

Installation Instructions

NOTE: Read these entire instructions before starting the installation.

SAFETY CONSIDERATIONS

Improper installation, adjustment, alteration, service, maintenance, or use can cause explosion, fire, electrical shock or other conditions which may cause death, personal injury or property damage. Consult a qualified installer, service agency, or your distributor or branch for information or assistance. The qualified installer or agency must use factory-authorized kits or accessories when modifying this product. Refer to the individual instructions packaged with the kits or accessories when installing.

Follow all safety codes. Wear safety glasses, protective clothing and work gloves. Use quenching cloths for brazing operations. Have fire extinguisher available. Read these instructions thoroughly and follow all warnings or cautions attached to the unit. Consult local building codes and the current editions of the National Electrical Codes (NEC) NFPA 70.

In Canada, refer to the current editions of the Canadian Electrical Code CSA C22.1.

Recognize safety information. This is the safety-alert symbol ⚠. When you see this symbol on the unit and in instructions or manuals, be alert to the potential for personal injury.

Understand the signal words DANGER, WARNING and CAUTION. These words are used with the safety-alert symbol. DANGER identifies the most serious hazards which will result in severe personal injury or death. WARNING signifies hazards which could result in personal injury or death. CAUTION is used to identify unsafe practices, which may result in minor personal injury or product and property damage. NOTE is used to highlight suggestions which will result in enhanced installation, reliability, or operation.



WARNING

ELECTRICAL SHOCK HAZARD

Failure to follow this warning could result in personal injury or death. Before installing, modifying or servicing system, always turn off main power to system. There may be more than one disconnect switch. Lock out and tag switch with a suitable warning label.



CAUTION

CUT HAZARD

Failure to follow this caution may result in personal injury. Sheet metal parts may have sharp edges or burrs. Use care and wear appropriate protective clothing and gloves when handling parts.

KIT CONTENTS

- Air Mixer
- Installation Instructions

Table 1 – Kit Part Numbers and Sizes

Part Number	Size
351690-75101 AIR MIXER KIT	14"
351690-75102 AIR MIXER KIT	17"
351690-75103 AIR MIXER KIT	21"
351690-75104 AIR MIXER KIT	24"

INSTALLATION

NOTE: The air mixer kit is for systems that are exhibiting air stratification in short supply plenums with multiple take offs.

IMPORTANT: DO NOT OVER-TORQUE ANY SCREWS.

1. De-energize unit and apply lockouts.
2. Remove Supply Duct
 - a. For 14" - 17" Air Mixer — Remove tape/sealant and/or screws connecting supply duct to the front of the unit and front 5" of the sides. (Fig. 1)
 - b. For 21" - 24" Air Mixer — Remove tape/sealant and/or screws connecting supply duct to the front of the unit and all screws from the duct flange into the top of the cabinet need to be removed if used. (Fig. 1)
3. Remove all door screws. (Fig. 1)
4. Remove both upper angle screws. (Fig. 1)
5. Remove access door.
6. Slide fitting door away from unit.
7. Rotate the bottom of the upper angle forward while pulling outward to remove. The goal is to get the duct flange of the upper angle to slide underneath the ductwork. (Fig. 2)

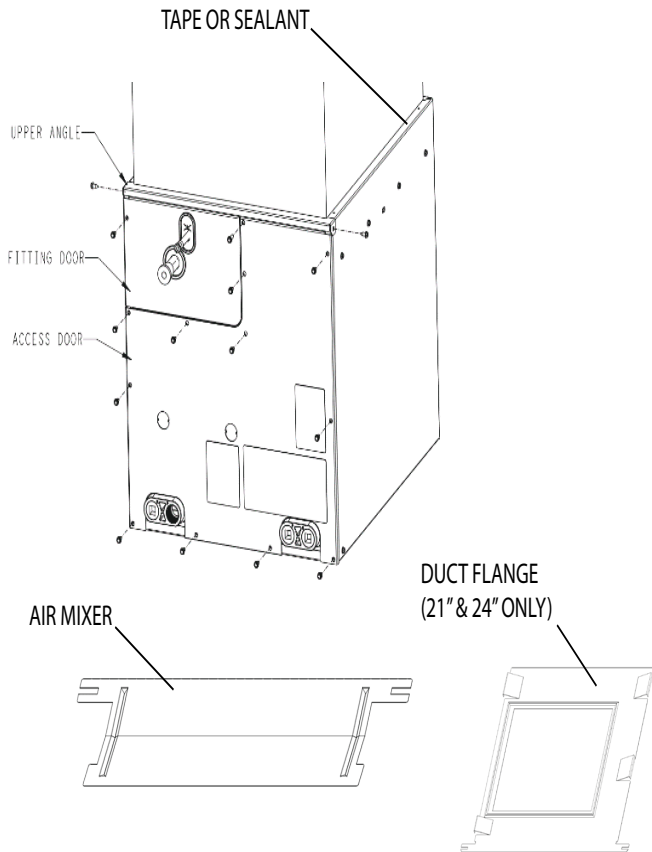


Fig. 1 – Screw Locations

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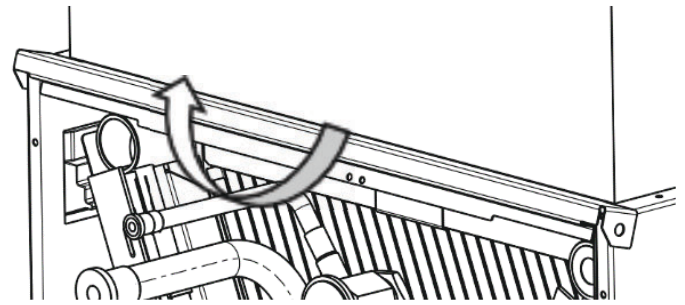
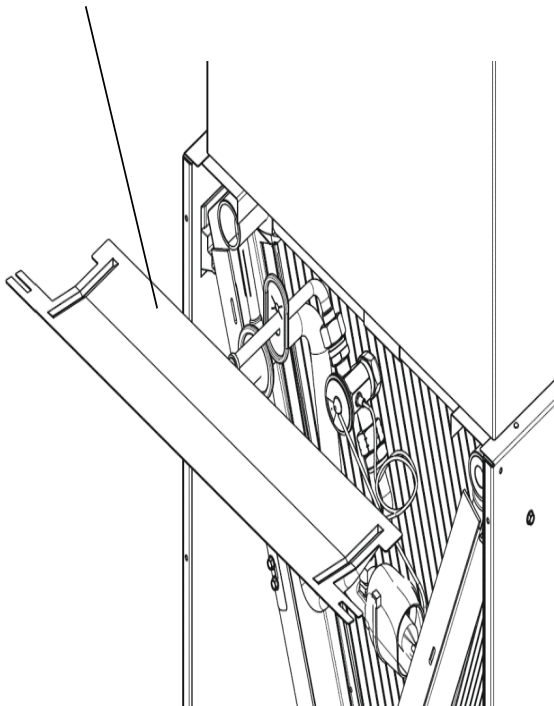


Fig. 2 – Upper Angle

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8. Insert air mixer
 - a. For 14" - 17" air mixer - Insert the air mixer into the slits in the upper area of the cabinet. (Fig. 3)
 - b. For the 21" - 24" air mixer - Insert air deflector so that the length of it will slide under the upper flange of the cabinet AND that the lip of the 4 hangers catch the upper rail of the cabinet flange. (Fig. 3)
9. Fully slide the air mixer into the cabinet. Tap on the air mixer to seat it properly if needed.
10. Bend air mixer mounting tabs over the cabinet making sure the slot aligns with the upper angle screw holes. (Fig. 4)

14" AND 17" AIR MIXER



21" AND 24" AIR MIXER

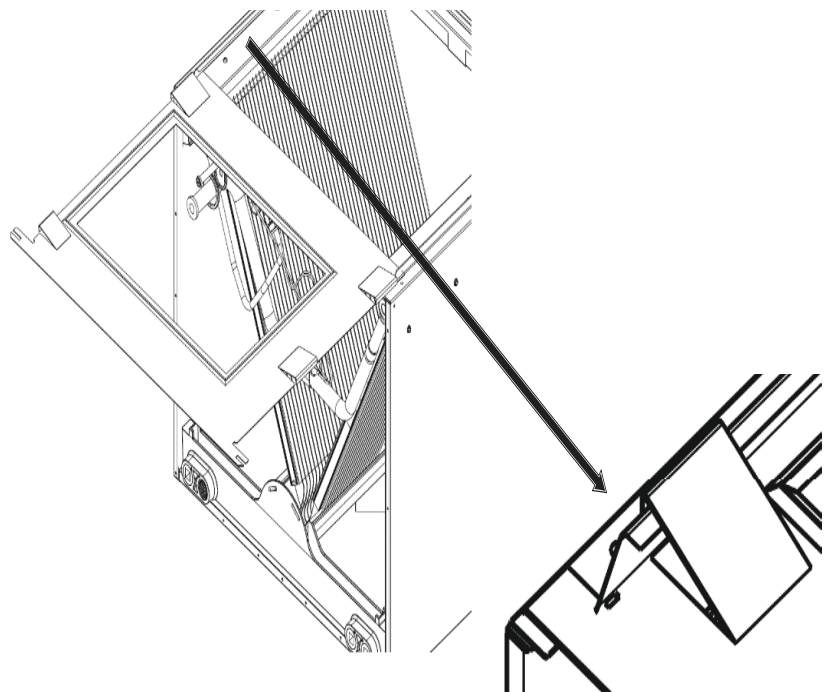
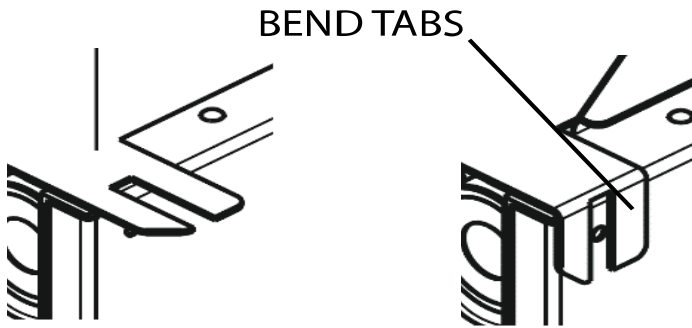


Fig. 3 – Air Mixer

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**Fig. 4 – Mounting Tabs**

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11. Slightly bend one of the upper angle mounting tabs up. (Fig. 5)
12. Rotate the upper angle backward while pushing forward to install.
13. Align upper angle screw holes.

NOTE: If necessary, tap on the upper angle to get to seat properly. Upper angle screws will align and tighten the parts together. DO NOT over torque screws.

14. Screw in the upper angle screws. (Fig. 1)
15. Slide the fitting door back into place.
16. Reinstall the access door.
17. Screw in all the door screws.
18. Reattach and seal all ductwork and confirm proper system operation.

**Fig. 5 – Bend Upper Angle**

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19. Remove lockouts and apply power to the unit.