MODEL DK2 DUCT KIT
FOR USE WITH AIRESHARE™ MODEL AS2

DESCRIPTION

The DK2 is used for AS2 installations in obstructed wall cavities, where metal studs with wiring knock-outs are used or to conform to energy codes requiring metal ducts. Installs in cut out needed for AS2 blower. Centerline of diffuser in target room is 5" above blower discharge.

1. Determine Aireshare AS2 Blower position and remove drywall for AS2 Blower as shown in AS2 instructions under “Blower Installation” section. IMPORTANT: AS2 electrical supply can come from top of wall cavity, but it must enter the bottom of the AS2 Blower cabinet. Also, follow these instructions to locate and install the AS2 Diffuser.

2. Measure from the sub flooring to the top of the AS2 Blower wall cavity opening and note the measurement here ________, (Figure A).

3. Locate the backside of wall cavity in the “Target Room” which AS2 Diffuser will be installed in. IMPORTANT: Be sure to locate the correct wall cavity. Add 5" to the measurement recorded in step 2 and record the measurement here________. Use this measurement and measure up the wall from the sub floor in the Target Room and mark this location. NOTE: It may be necessary to make adjustments for the thickness of the floor coverings from one side of the wall to the other, (Figure B).

4. Using a small drill bit, drill a test hole through the drywall in the Target Room at the marked location in step 3, (Figure C).

5. Hand form the tabs on the DK2 as shown. Bend 2 small tabs 90 degrees in. Bend larger holding tab into a U shape down. These tabs hold and locate the DK2 into position with the AS2, (Figure D).

6. Insert the DK2 into the AS2 Blower wall cavity opening created in step 1, (Figure E).

7. Center the DK2 in the wall cavity and slide up into position, (Figure F).

8. Use the U shaped holding tab to temporarily hold the DK2 into position. Use a flashlight if necessary, to verify the small test hole drilled in step 4, (Figure C) lands inside the rectangular AS2 Diffuser opening in the DK2. Adjust accordingly if necessary, (Figure G).

9. Using a drywall saw and the test hole created in Step 4, cut drywall vertically up until the metal edge of the DK2 is contacted, (Figure H).

10. Cut the drywall vertically down until the metal edge of the DK2 is contacted, (Figure I).
Now that the opening location for the AS2 Diffuser opening has been identified, remove the DK2 from the wall cavity and clean for reinstallation later.

11. Using a level, go 1/8" above top of cut made in step 9 and mark a level horizontal line to the studs on each side of the cavity. Using a level, go 1/8" below bottom of cut made in step 10 and mark a level horizontal line, (Figure J). NOTE: If studs are spaced greater than 16" o.c., the horizontal cut line should not exceed 14 1/4" and it must align up with DK2 opening for AS2 Diffuser.

12. Using a drywall saw, cut the drywall on these lines. End the cuts just before the wall studs on each side of the cavity, (Figure K). (AS2 Diffuser opening should be a maximum of 1 1/2" high x 14 1/4" wide), (Figure L).

13. Clean the wall cavity and surrounding area of drywall pieces and dust. This step is important to ensure proper operation and performance of the AS2 so drywall dust is not distributed throughout the space when the AS2 is in operation. Reinstall the DK2 as shown in steps 6 - 8.

14. Insert the AS2 Diffuser into DK2 opening ensuring the scoop on the diffuser points towards the AS2 Blower, (Figure M).

15. Ensure the diffuser seats tight against the wall. Make adjustments to the wall opening and diffuser side pressure tabs to ensure a tight and flat fit, (Figure N).

16. Insert the AS2 Blower in wall cavity opening, (Figure O).

17. Make sure the (2) smaller 90 degree bent tabs in the DK2 feed into the AS2 tab slots located on the right and left side of the Blower, (Figure P).

18. With the tabs fully inserted into the slots, form (2) the tabs over with a screw driver. The tabs are formed over to ensure vibration is not produced between the AS2 and the DK2, (Figure Q). Screw the AS2 blower cabinet to wall studs with (4) provided screws.

Complete the wiring and final installation steps following the AS2 installation instructions.