

## TRANSFER REGISTER BOX (TRB) AND WhisperValue® DC™ FAN

### ROOM TO ROOM SOLUTION

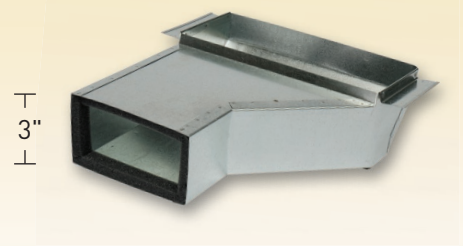
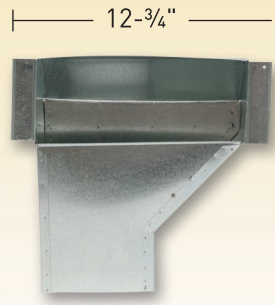
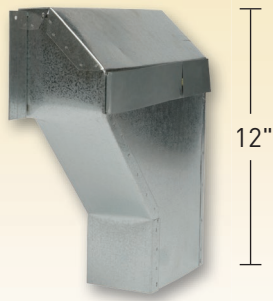
- Perfect for room-to-room powered circulation in multi-family projects with ductless heat pumps
- Powered 60 CFM transfer at less than 0.3 sone (based on WhisperValue® DC™ FV-0510VS1 vent fan)
- 26 gauge steel, fire code rated
- Designed exclusively for use with WhisperValue fan and fan/light combinations
- Sold separately from fan as model #FV-JD
- No need for a radiation damper like on jump ducts
- Works with standard size HVAC registers – 4" x 10" HVAC supply grille
- Can be used to comply with ASHRAE 62.2, LEED for Homes, CALGreen and ENERGY STAR® for Homes 3.0\*

\*Specific to WhisperValue DC fans

NOTE: Transfer Register Box (Model #FV-JD) sold separately. WhisperValue DC fan and wall control NOT included.

### For New Construction:

1. Remove the spreader bar from the end of the fan housing opposite the discharge – it will not be needed unless the fan is being mounted pointing up. Remove the tape holding the damper and remove the damper. Install the fan in a stud bay with the fan up against the top plate and against the stud to the left with the discharge pointed down, as shown in the photo. Use screws to attach the fan housing to the top plate and stud through the holes in the flange on the fan housing (You can choose to install the fan pointing up but this method provides a more secure mounting for the fan since it will be screwed into both a stud and the top plate).
2. Install an electrical box and switch to the opposite (right) stud in the same stud bay and wire into the fan junction box on the bottom of the installed fan (or locate as desired). Use a strain relief to protect the wires in the knockout.
3. Examine the sheet metal Transfer Register Box (TRB). It has "ears" on the sides of the 10" x 4" opening to accept the sheet metal screws used to mount the grille and a long nailing strap designed for new construction.
4. Slide the Transfer Register Box (TRB) up against the fan so that the small rectangular opening with the foam gasket covers the oval discharge of the fan. The foam inside that opening will seal the TRB to the fan discharge and housing. Mount the TRB so the 4" x 10" opening faces the room on the other side of the wall from where the fan is located. The nailing strap reaches between the studs and is mounted to the face of the studs below the fan. The TRB is just over three inches deep plus a ½" drywall return flange for the 10" x 4" opening, so one of the ears will be on the face of the stud in the other room.
5. The fan and TRB are installed and ready to drywall. You can use the cardboard snap-out in the grille packaging to protect the fan while painting.
6. To trim out after painting, install the grille on the fan and the HVAC grille on the other side and turn on the fan.



Transfer Register Box (model #FV-JD)

## STEP BY STEP INSTRUCTIONS

### In an existing 2" x 4" stud bay:

1. Determine where power will be available – from the attic, from an existing outlet on the wall, or from below. You will need to cut in an electrical box for a switch.
2. On the wall facing the source of tempered air, cut a square hole in the wall 10-1/2" x 10-1/2" up against the double top plate and against a stud on the left as you face the wall. This is for the WhisperValue® DC™ fan that will be mounted with the discharge pointed down into the Transfer Register Box and the flange on the fan housing against the drywall. The grille is 13" x 13" so it will cover it all up. (You can choose to install the fan pointing up but this method provides a more secure mounting for the fan since it will be screwed into both a stud and the top plate)
3. Measure down 7-1/2" inside the wall from the level of the bottom of the hole you just made to locate the top of the hole in that other room for the grille. Another option is to measure down from the ceiling to the bottom of the hole for the fan. Then use that measurement plus 7-1/2" to determine the top of the hole you will cut in Step 4 in the other room. This only works if the ceiling is basically the same height in both rooms.
4. On the wall of the second room, mark and cut a 10-1/2" wide by 4-1/2" high hole with one end against the same stud as the fan hole. You will use a 10" x 4" HVAC grille of your choice that will fit into the Transfer Register Box (TRB) and cover the edges of the hole.
5. Working from the initial room, install an electrical box and switch to the opposite (right) stud in the same stud bay and leave a few feet of power wire in the wall to later wire into the fan junction box.
6. Examine the sheet metal Transfer Register Box (TRB). It has "ears" on the sides of the 10" x 4" opening to accept the sheet metal screws used to mount the grille and a long nailing strap designed for new construction. You will need to bend the "ears" on the right side of the 10" x 4" opening (as you look at the opening) back against the TRB so it does not hit the stud. In new construction, those ears and the nailing strap would reach between studs and be mounted to the face of the studs. Because the TRB is just over three inches deep plus a 1/2" drywall return flange for the 10" x 4" opening, the nailing strap will need to be bent out of the way or cut off. It will be a tight fit in a 2" x 4" stud bay.
7. Slide the TRB into the 10-1/2" x 10-1/2" hole with the flanged 10" x 4" opening against the back of the drywall for the other room and the small opening facing up to receive the fan discharge. Locate the TRB so that the drywall flange "pops" into the 10-1/2" by 4-1/2" hole in the second room.
8. Remove the spreader bar from the end of the fan housing opposite the discharge – it will not be needed. Remove the tape holding the damper and remove the damper.
9. Fish out your power wire and connect the wires in the junction box on the fan using a strain relief to protect the wires in the knockout.
10. Slide the 10" x 10" fan into the 10-1/2" x 10-1/2" hole with the oval fan discharge inserted into the small rectangular opening in the TRB that was installed in Step 7. The foam inside that opening will seal the TRB to the fan discharge and housing.
11. Once the fan is in place and well mated with the TRB, place screws into both the stud and the top plate through the holes in the fan housing flange to secure the fan.
12. Install the grille on the fan and the HVAC grille on the other side and turn on the fan.