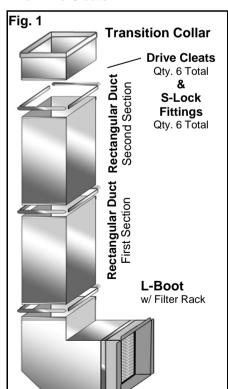
## Installation Instructions for RA 16 Return Air Drop

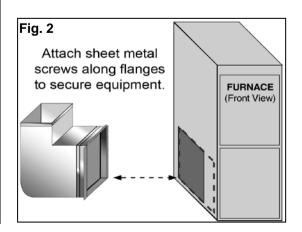
This assembly is designed for *UPFLOW* forced air systems with *SIDE* return air applications. Please read all directions including the equipment manufacturer's installation manual before installation of the side return air assembly. **CAUTION**: Handle sheet metal carefully as the edges are very sharp and cut easily.

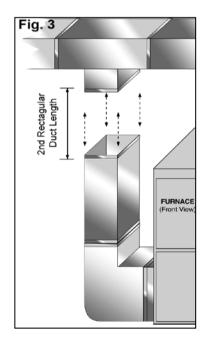
- Verify the contents of the assembly using Fig. 1 and determine the appropriate height and positioning for the return air drop assembly.
- After cutting the opening for the side air return in the approved location on equipment per the manufacturer's installation instructions, align the L-Boot with the bottom, rear corner of the equipment return air opening as shown in Fig. 2. Should the L-Boot overlap the return air opening of the equipment, note and mark the location(s).
- With the L-Boot pressed firmly against the equipment opening, use sheet metal screws (field supplied) along the perimeter of the flanges on the L-Boot to secure the L-Boot to the equipment. Silicone or aluminum tape may be used to further seal the connection. *PLEASE NOTE:* Refer to equipment manufacturer's installation manual, before attaching screws to HVAC equipment, to ensure safe placement.
- Assemble one section of 29"h x 10"w x 25"d Rectangular Duct, and attach it to the top of the L-Boot using 2 Drive Cleats and 2 S-Lock Fittings. Once secure, place 2 S-Lock Fittings on the top of the Rectangular Duct. (These will be used later to determine the height of the second Rectangular Duct.) Refer to Fig. 3, 4, and 5.
- Attach the 2.75"h x 10"w x 25"d Transition Collar to the overhead opening where the return air drop will be leading to. Cut and fold over tabs to attach the Transition Collar securely. Place 2 S-Lock Fittings on the bottom of the Transition Collar. Position the equipment, with the L-Boot and first section of Rectangular Duct attached, making sure to align the Transition Collar as closely as possible with the top of the Rectangular Duct to ensure a straight and level installation as shown in Fig. 3. (HINT: A plumb bob is very useful for alignment of the return air drop)
- Determine the length of the second Rectangular Duct by carefully measuring the distance from the *TOP* of the S-Lock fitting attached to the Transition Collar to the *BOTTOM* of the S-Lock fitting attached to the first Rectangular Duct as seen in Fig. 3. Prior to assembly, trim the second Rectangular Duct to the required height using care to *not* cut too short. The flanges of the second Rectangular Duct are designed to slide into the S-Lock fittings of the connecting duct sections. In addition, the 10"w sides of the sheet metal must be bent to form a channel for secure connection of the Drive Cleats.



- Slide the flanges of the second Rectangular Duct into the S-Lock Fittings of the first Rectangular Duct and Transition Collar. Secure all the Duct Sections with the Drive Cleats.
- Seal all seams with silicone or aluminum tape to ensure leak-free connections.

RA-16 may vary slightly from the images shown.





## Installation Instructions for RA 16 Return Air Drop

The following information is provided as a reference and guideline only. Carefully read all directions, including equipment manufacturer's installation manual *BEFORE* beginning installation of the Return Air Drop Assembly *CAUTION*: Handle sheet metal carefully as the edges are very sharp and cut easily.

