

Instructions for Field Conversion of Air Discharge

Sizes 006-030

There are several reasons that someone would need to change the air pattern on an HS/HL unit. One, we stock only straight through air patterns such as left-straight or right-straight. These two styles can be field converted to left-back or right-back. You can not convert a left-hand return to a right hand return or vice-versa. This would entail changing the air coil, condensate pan and drain as well as considerable refrigerant tubing.

Quite often we hear of units that arrive on the job site with one air pattern and it is discovered for one reason or another someone has changed their mind or the unit was ordered wrong and must be changed.

This paper will assist the contractor in making the necessary changes.

1. In making any changes we must remember there are only a few changes possible. You can change from LS to LB or LB to LS, you can also change from RS to RB or RB to RS, no other changes can be made.
2. It is best to do all this work on the floor, it is not advisable to change units that are already hung in place. If a unit that is already hung must be changed - remove it from the ceiling area and do the work on the floor. If for some reason it can not be dropped the work can be done from a ladder or scaffolding but caution should be exercised.
3. Find a good well lit space that will allow moving about the blower end of the unit.
4. Remove the top panel. This will expose the entire unit.
5. Remove the blower access panel. This is not the blower discharge panel but the similar panel 90 degrees to the discharge panel.
6. Remove the screws that hold the blower discharge panel in place. DO NOT remove the fasteners that hold the blower housing the discharge panel.
7. Rotate the discharge housing so that the discharge faces the new direction. NOTE: If the change is from LS to LB the panel must be turned top to bottom. This will mean the blower will change from THD to BHD. This will allow the motor to be facing the blower access panel. If the change is from RS to RB the discharge panel must be turned from top to bottom. This will change the blower from BHD to THD. In making these changes it is best to uncouple the wire for the motor so it will be long enough to allow the fan to be turned as described. DO NOT detach the wire from the motor, there is an ample amount of wire to move the fan. When you have completed the move, re-couple the access wire neatly out of the way.
8. Fasten the discharge panel in its new location using the same screws that were removed previously.
9. Take the blower access panel and install it where the discharge was using the screws removed previously.
10. Before the top panel is re-installed check the unit to make sure everything is in place correctly. Spin the fan wheel manually and see that it hasn't shifted, also check the refrigerant tubing to make sure it isn't touching any other tubing or component. When you are satisfied everything is fine, re-place the top panel and secure it in place with the screws previously used.
11. The unit is now ready for installation with the new air pattern.

Consult the submittal dimension sheets for placement dimensions of the discharge duct flanges after an air pattern change has been made.

Glossary

LS - left straight

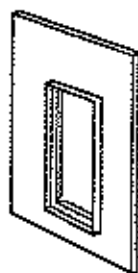
LB - left back

RS - right straight

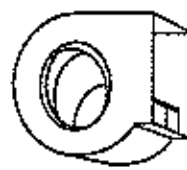
RB - right back

THD - top horizontal discharge

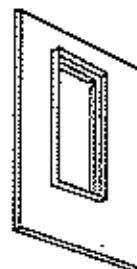
BHD - bottom horizontal discharge



BHD



THD



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