



Form Number: 102.20-NOM1 (LS01)

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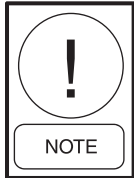
Supersedes: 102.20-NOM1 (LS01) (606)

LITERATURE SUPPLEMENT

File with: 102.20-NOM1 (105)

Subject: Pipe Chase Installation Instructions for Solution Air Handler

PIPE CHASE INSTALLATION



Pipe chase should be installed before piping is connected.

TOOLS REQUIRED

- Screw Gun
- Complete set of mechanics hand tools.

MATERIALS REQUIRED

- Shipped loose package containing 1/4"-14 x 1" Self-drilling Screws w/gasket (021-30530-052), Caulking (013-03317-040), Gasket, Neoprene, 2" x 3/16" (028-11880-010). *When unit purchased with Baserail:* Pipe Chase Baserail Covers (013-03317-010), 3/8"-16 x 1-1/2" Bolts (021-01499-000) and Lock Washers (021-01155-000).

PROCEDURE



Never use silicone caulk/sealant or caulk/sealant containing silicone in or on any air handling equipment. [Only exception is when provided (high temperature) with gas heat venting]



The top and bottom flanges are inside pipe chase. Separate cover angles are used on external vertical seams.



Before installing pipe chase, remove any self-drilling screws from the top & bottom raceway that may interfere with the installation of the pipe chase or trim angles.

1. Preparation

- Pinpoint the exact location to attach the pipe chase.
- Ensure enough space will remain to apply pipe fittings with insulation, inside the pipe chase.
- The pipe chase height should align with the unit height.

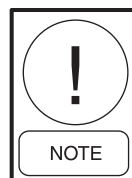
2. Apply Gaskets

- Apply provided 2" x 3/16" neoprene gasket to the underside of the air handler roof overhang (*see Fig. 1*).



FIG. 1 – INSTALL GASKET UNDER ROOF OVERHANG

- Apply gasket provided by curb vendor to top of curb.
- Apply 2" x 3/16" neoprene gasket to the pipe chase (vertical gaskets first, then horizontal gaskets). Keep the gasket aligned with the outside edges of the pipe chase housing (*see Fig. 2*).



*Horizontal gaskets must completely overlap vertical gaskets in all four corners (*see Fig. 2*).*



FIG. 2 – APPLY GASKET TO PIPE CHASE

3. Attach Pipe Chase

- Set the pipe chase on the pipe chase curb three inches away from the air handler.
- Tilt the top of the pipe chase toward the air handler. Work it under the air handler roof overhang, being careful not to damage the neoprene gaskets. Lift the pipe chase slightly to clear the gasket on the curb and swing the bottom into the air handler.
- If there is a baserail, attach the baserail of the pipe chase to the baserail of the air handler. Use 3/8" bolts & lock washers provided, placing bolts through the pipe chase baserail brackets into the threaded holes in the air handler baserail (*see Fig. 3*).
- Make sure the pipe chase is square and the door(s) close and open without rubbing or binding.
- Secure the pipe chase to the top and bottom raceways (heavy gage metal) of the air handler through the pre-punched holes of the inside top and bottom flanges of the pipe chase. Use self-drilling screws (*see Fig. 4*).

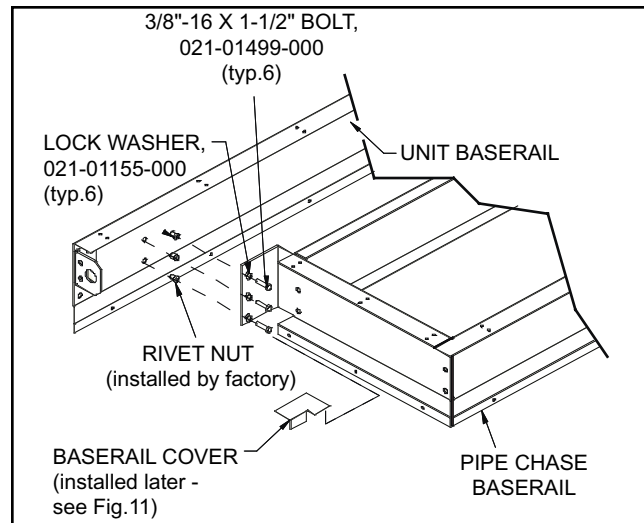


FIG. 3 – PIPE CHASE BASERAIL TO UNIT BASERAIL INSTALLATION (When Purchased)

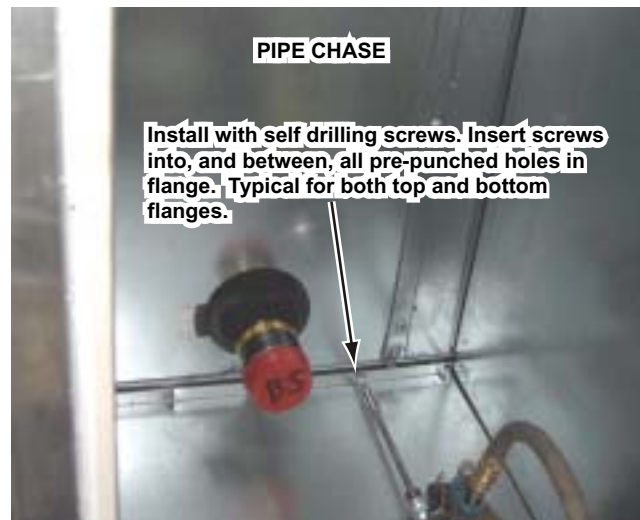
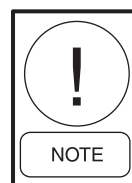


FIG. 4 – SCREW PIPE CHASE TO AIR HANDLER TOP AND BOTTOM INTERNAL FLANGES



Do not over tighten or strip self-drilling screws. Screws in top and bottom flanges go into heavier gauge metal than screws in cover angles.

- Check to be sure door closes and latches properly. If not, loosen self-drilling screws, re-align pipe chase and re-tighten screws. Occasionally the curb under the pipe chase may be uneven, depending on installation.
- ### 4. Seal Pipe Chase to Air Handler.
- Apply caulking to all exterior joints between pipe chase and air handler baserails (when purchased) (*see Fig. 5*).

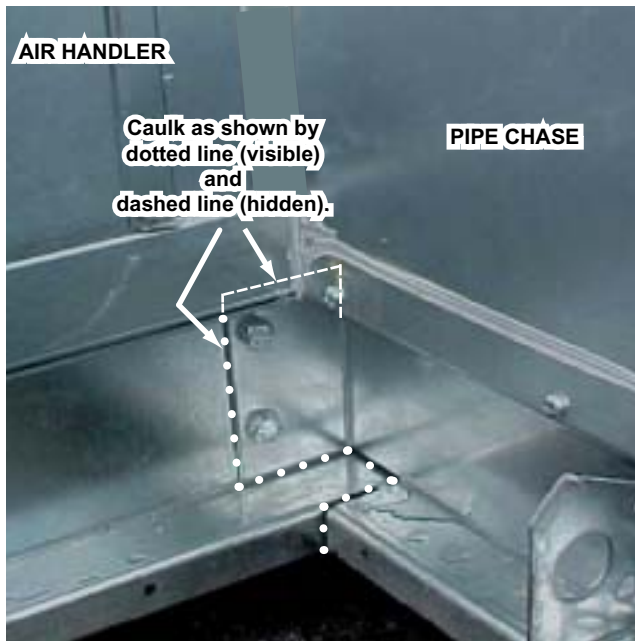


FIG. 5 – BASERAIL CAULK APPLICATION

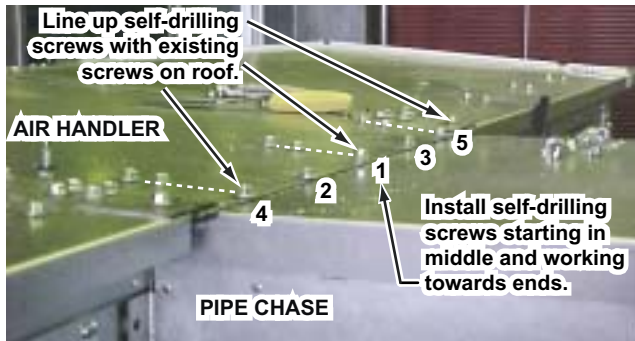


FIG. 6 – PIPE CHASE TO ROOF INSTALLATION

- Add a small bead of Sikaflex or Manus champagne caulking to the exterior vertical seam between the air handler and the pipe chase to insure complete seal. Pay special attention to the top & bottom corners, raceway & baserail engagements and under the roof overhang (see Fig.'s 5 & 7).
- Starting at the center, and working toward each end, run self-drilling screws down through the air handler overhang into the top of the pipe chase through the gasket. Use caution not to strip the 20-gage housing with the screws. Line up self-drilling screws with double row of screws on top of unit raceway, plus one spaced evenly between each (see Fig. 6) (No caulking required here.)

5. Install the Cover Angles
(See Fig. 8)

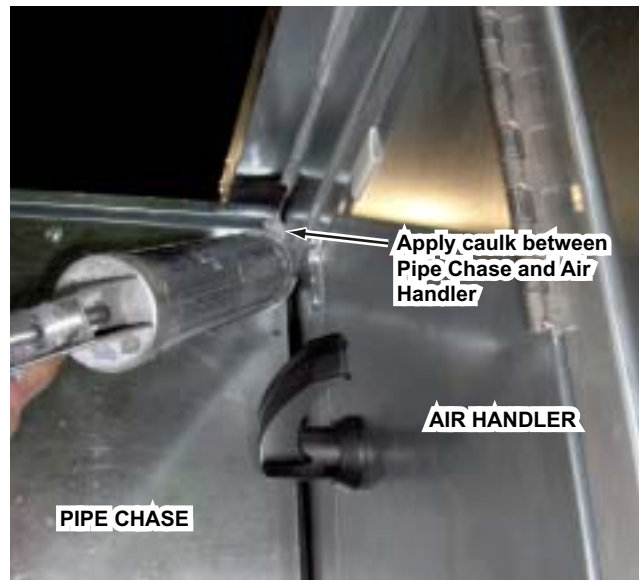
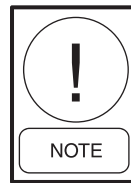


FIG. 7 – PIPE CHASE TO AIR HANDLER CAULK APPLICATION

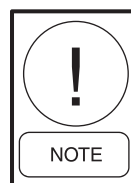


Cover angles must be installed before the caulk from step 4 dries.

- Apply 2" x 3/16" neoprene gasket to contact side of cover angle.
- Remove top and bottom self-drilling screws from pipe chase and set aside for later use.
- Place cover angles in vertical corners of pipe chase and unit wall.



FIG. 8 – INSTALL COVER ANGLE



Notch on cover angle must be on the air handler side (see Fig.9).

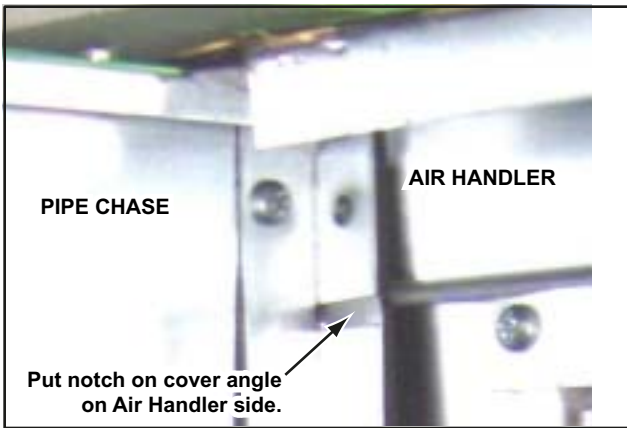


FIG. 9 – PROPER POSITIONING OF COVER ANGLE WITH NOTCH ON AIR HANDLER SIDE

- Attach the cover angle to the air handler and pipe chase panels. Install self drilling screws removed earlier to top and bottom holes on cover angle.
- Starting at the top and alternating between the air handler and pipe chase, continue installing self drilling screws until reaching the bottom. Use caution not to strip the 20-gage housing with the (*see Fig.10*).

6. Install the Baserail Covers

(See Fig. 11)

- Caulk perimeter of cover as shown.
- Apply cover to baserail seam between pipe chase and air handler (both sides) (no screws required).



All pipe chase floor penetrations must be flashed, sealed and insulated to prevent condensation entering building.

IF ANY QUESTIONS, CONTACT (800) 838-7219, EXTENSION 7448.

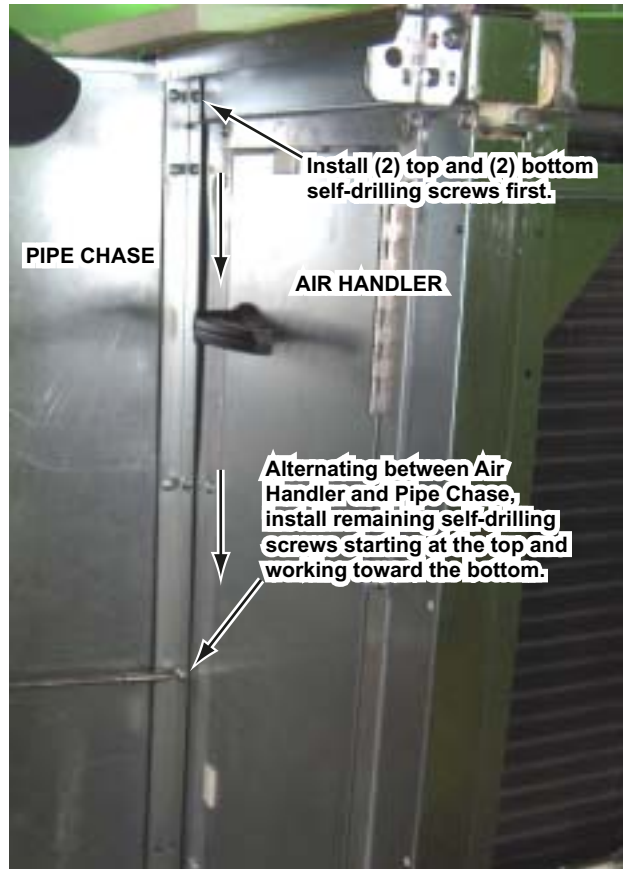


FIG. 10 – PROPER PATTERN FOR INSTALLING SELF-DRILLING SCREWS TO COVER ANGLE

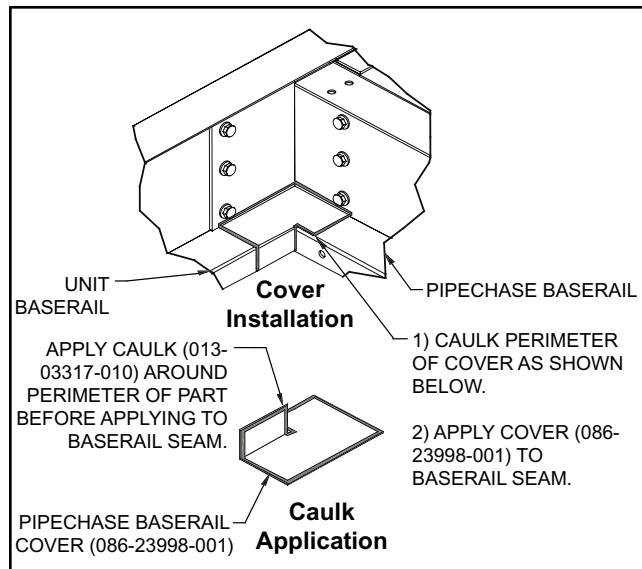


FIG. 11 – BASERAIL COVER APPLICATION

