

SPU SERIES

WALL SLEEVE -- SIDE MOUNT APPLICATIONS

INSTALLATION INSTRUCTIONS

WARNING TO INSTALLER, SERVICE PERSONNEL AND OWNER

Altering the product or replacing parts with non authorized factory parts voids all warranty or implied warranty and may result in adverse operational performance and/or a possible hazardous safety condition to service personnel and occupants. Company employees and/or contractors are not authorized to waive this warning.

GENERAL

These instructions give information relative to the SPU series wall sleeve and grille installation only. The manufacturer assumes no responsibility for equipment installed in violation of any code requirements. For other related equipment refer to the proper instructions.

The grille and wall sleeve are shipped in separate packages. Material in this shipment has been inspected at the factory and released to the transportation agency in good condition. When received, a visual inspection of all cartons should be made immediately. Any evidence of rough handling or apparent damage should be noted on the delivery receipt and the material should be inspected in the presence of the carrier's representative. If damage is found a claim should be filed against the carrier immediately.

DESCRIPTION

The SPU wall sleeve is designed to provide the structural support and seal from the outside elements for the SPU package system. There is no need to build a platform base for the SPU. The base of the sleeve also acts as the drain pan for the system. A 3/4 NPT nipple is located in the bottom of the pan to be connected to the condensate drain plumbing.

LOCATION

The SPU unit is designed for through the wall installation in a closet with direct access to the rear of the unit (Fig. 1). The exterior (grille side) of the unit must have no obstructions (trees, landscape materials, or building structure, etc.) within 18 inches. Do not locate two units adjacent to each other on an inside corner or anyplace where they may exhaust into each other.

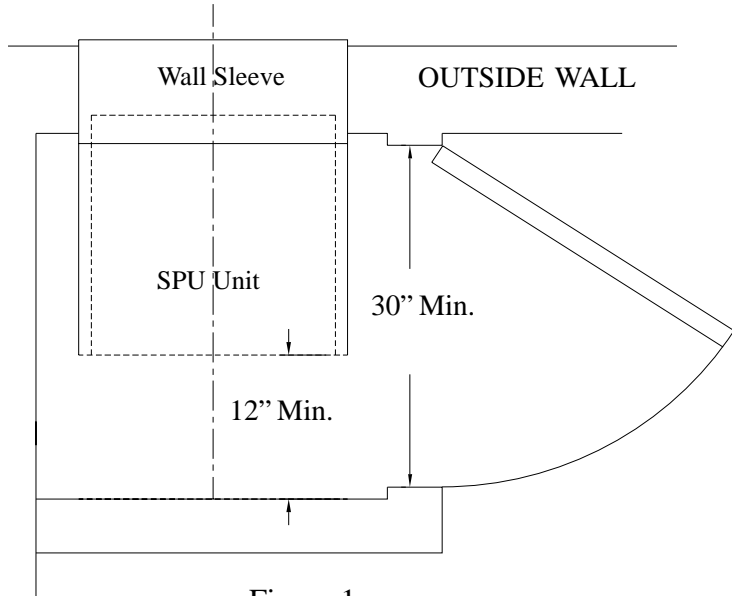


Figure 1

Provisions should be made to allow for access to the indoor (rear) side of the unit for installation and inspection. The closet door must be positioned in a way that allows the SPU to be placed onto the sleeve with enough access to the rear of the unit to allow for pushing the unit into the sleeve. At least three (3) inches of space is required on the left and right sides of the sleeve and a minimum of 1 foot of free space is required from the rear of the sleeve to provide for access to the rear of the unit. A minimum of 27 inches of unobstructed space should be provided in front of the access door to permit removal of the unit should repair and inspection be required.

WALLSLEEVE INSTALLATION

1. The wall sleeve is supplied with a weather guard to protect against the elements prior to the installation of the grille.
2. A construction debris guard is supplied to protect the lower seals and drain from damage or clogging caused by construction.

3. The wall sleeve is supplied with a 3/4" NPT pipe nipple for connection to condensate drain plumbing.
4. Install the sleeve into a pre-cut opening 44"H x 21-5/8"W. Use shims as necessary to maintain proper alignment of the sealing surfaces. Sleeve sides must remain in contact with the seal frame and parallel with each other or air leakage will occur. Note: The factory applies a sealant to the outside of the interface between the seal and the sleeve. The installer is responsible to check this for damage due to installation and to add sealant as necessary to ensure that no air gaps exist.

******* Warning *******

After sleeve installation ensure that the sleeve seal is in contact with the sleeve sides. Any air gaps must be sealed or outdoor air and/or water leakage will occur.

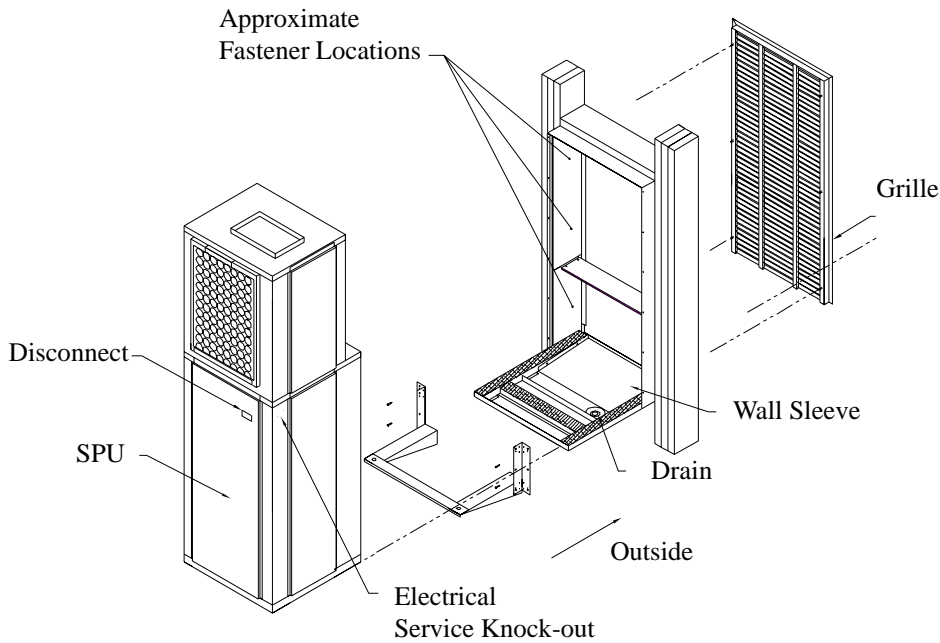


Figure 2

***** **WARNING** *****
Application of the sealant to both inside and outside surfaces of the sleeve is critical to prevent infiltration of outside elements from entering the structure.

GRILLE INSTALLATION

1. Remove weather guard.
2. Install 6 threaded studs into the threaded holes in the grille. Note: Studs, nuts and washers may be attached to the grille or may be found in bulk packaging with the grille shipment.
3. Insert the threaded studs into the slotted holes in the wall sleeve.
4. Secure grille with a washer and 10-32 nut on each stud.

5. The front edge of the sleeve should protrude 1/4" to 1/2" from the finished outside surface of the wall (Fig. 3).
6. Align the sleeve with the wall so that the bottom pan is angled 1/2 bubble toward the outside of the building (Fig. 3).

***** **WARNING** *****
Architectural Grille must be installed prior to the installation of the SPU unit into the sleeve.

***** **Warning** *****
Ensure that the bottom of the sleeve pan is pitched toward the outside to ensure positive secondary drainage.

7. Fasten the sleeve to the wall studs at 3 locations on each side. See Fig. 2 for approximate locations. Note: It is recommended to use fasteners with seal washers to minimize the possibility of water leakage into the wall.
8. Install the support bracket beneath the sleeve so that there is solid contact between the bottom of the sleeve and the raised portion at the end of the bracket. **Caution: The bracket must be installed with at least a 1/4" diameter screw of appropriate style fastened directly into the wall stud using the top 2 holes in each bracket angle.**
9. Connect drain plumbing to the 3/4" pipe nipple. Note: Drain line may need to be trapped to prevent sewer gas from entering the structure. **Caution: Damage due to water leakage will occur if the primary drain line and secondary drain passages are obstructed or clogged. Therefore it is necessary to perform periodic maintenance to ensure that drains remain open.**
10. Place a bead of silicone sealant or other high grade non-hardening sealing compound approved for exterior use to seal the gap between the wall sleeve and both the inside and outside wall surfaces (Fig. 3). Sealant should also be applied around the heads of the fasteners used to secure the sleeve.

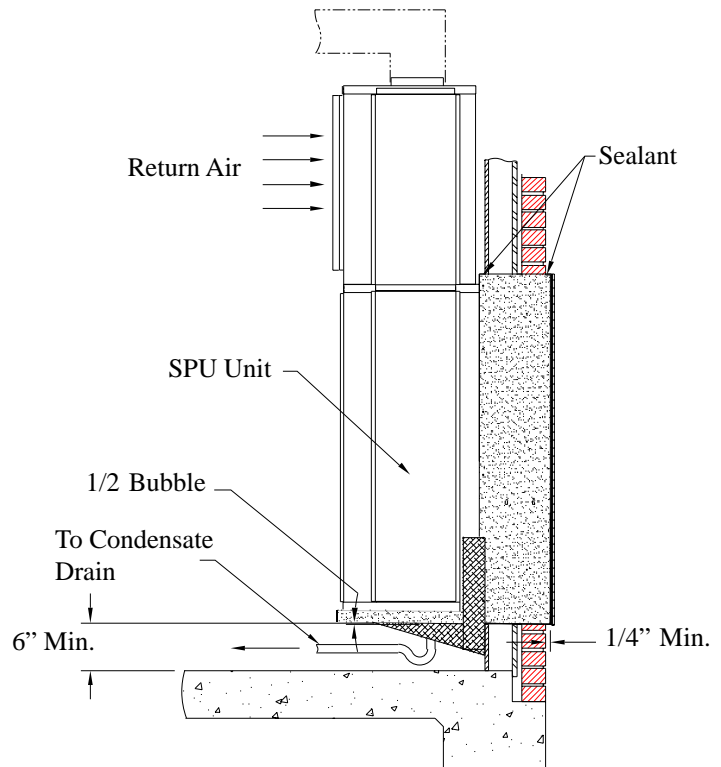


Figure 3