

## FAN COIL PLACEMENT

The Hi-Velocity System fan coil is manufactured with a direct drive permanently lubricated **EPC Motor** that is mounted within the blower. All HE fan coils are single side access. The blower assembly can easily be slid out by removing the three mounted bolts that attach it to the center plate. In some instances, the electrical box may need to be removed.

### LOCATION

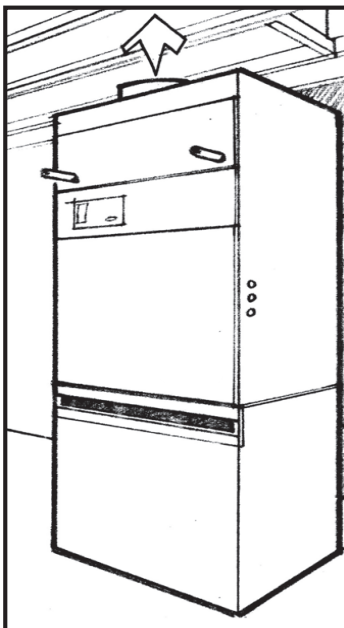
The fan coil unit is to be placed according to the layout provided by the designer. As with vent placement, small deviations can be made in fan coil placement. If the fan coil has to be moved more than a few feet from its pre-designed location, contact the designer before proceeding.

When installing the fan coil keep these points in mind.

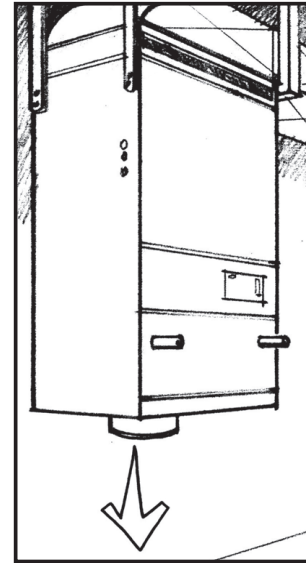
- Serviceability and access to the unit.
- Maximizing usable floor space.
- Location of heat/cool source to fan coil.

The fan coil can be installed in many different configurations. The fan coil can be located in a Hi-Boy, Counter flow, or Horizontal position. In the Hi-Boy position, the supply air is delivered from the top of the unit (**Fig. 01**).

**Fig. 01 - Hi-Boy**

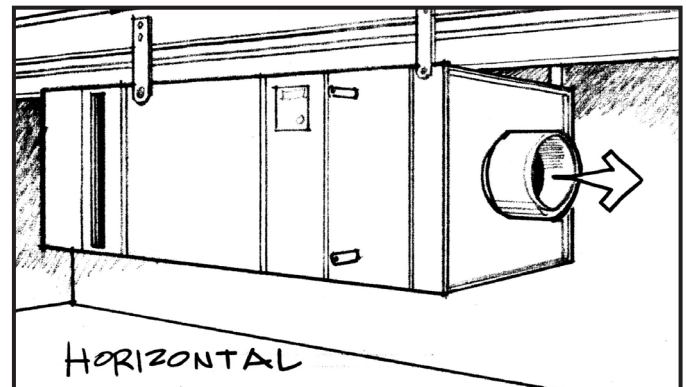


**Fig. 02 - Counter flow**



When placed in the Counter flow position, the supply air delivery is from the bottom of the unit (**Fig. 02**).

**Fig. 03 - Horizontal installation**



Quite often, the best location for the fan coil unit is suspended from the ceiling of the mechanical room, in the horizontal position (**Fig. 03**). This will allow for more floor space in the room, and will minimize the duct work needed to connect to the fan coil unit.

### CLEARANCES

Clearance is only needed on the access side of the units. However, ensure that there is a small space between the unit and any other surface to prevent vibration transfer. In order to maintain and service the fan coil unit, minimum clearances are required on the access side (**Table 01**).

**Table 01 – Fan coil clearances**

Unit	Inches
HE – 50/51/52	18" (457mm)
HE – 70/71	22" (559mm)
HE – 100/101	29"(737mm)

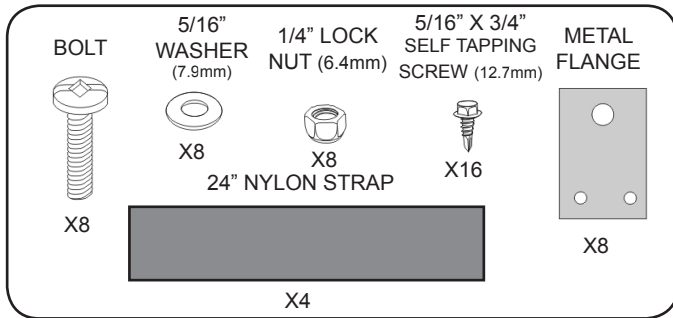
Add an additional 4" (102mm) for Electric Strip Coils

# HANGING THE HI-VELOCITY UNIT

## HANGING STRAP KIT

The Hanging Strap Kits are designed to suspend a horizontal or vertical fan coil. The nylon straps will absorb most of the vibration generated by the fan coil system, eliminating any sound transfer. Alternative hanging methods may be used, e.g. Reddy Rod or Unistrut.

**Fig. 01 - Hanging Strap Kit Components**

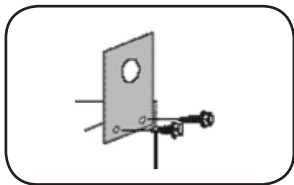


## HANGING FAN COIL UNIT ONLY

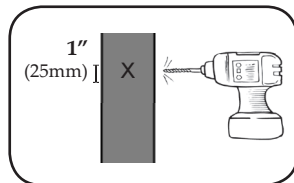
Attach the metal flanges to the four facing corners of the fan coil unit (**Fig. 02**).

Cut the nylon straps to the desired length (4"/102mm or more) and drill a 3/8" (7mm) hole 1" (25mm) from the end of each nylon strap. (**Fig. 03**)

**Fig. 02 - Attach flanges to Unit**

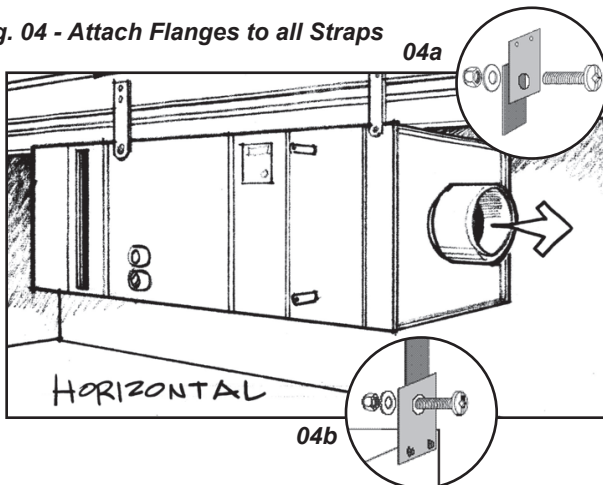


**Fig. 03 - Cut Hole in Straps**



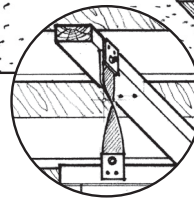
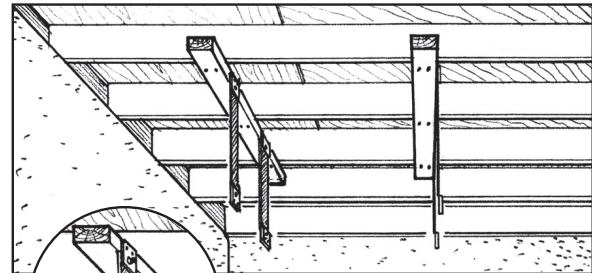
Slide the 1 1/4" (32mm) bolt into the hole of the metal flange then into the nylon strap, secure with washer and nut. Repeat this at each end of the nylon straps (**Fig. 04a,04b**).

**Fig. 04 - Attach Flanges to all Straps**



Secure the nylon straps to the joist or support. It may be necessary to install a support across the joists to properly fasten the Nylon Straps (**Fig. 05**). The Nylon Straps are always installed in a vertical position; they should never be installed at an angle. It is acceptable to put a 90° twist in the Nylon Straps (**Fig. 05a**), do not exceed 90°.

**Fig. 05 - Install Support if Needed**



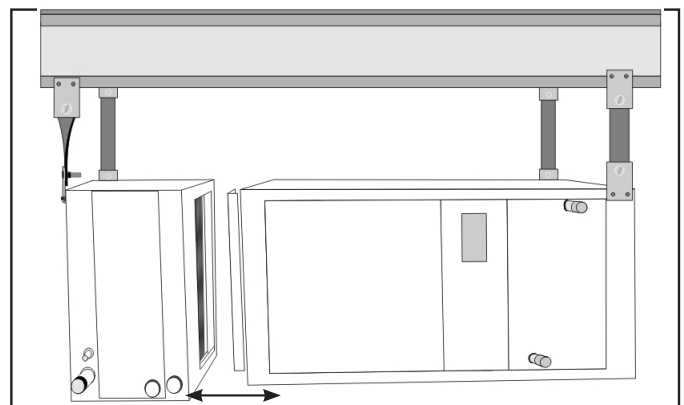
**Fig. 05a - 90° twist**

Lift the fancoil unit and slide the bolt into the metal flange located on the unit through the nylon strap, and finish with the washer and nut.

## HANGING FAN COIL UNIT WITH COOLING COIL

Using the "L" brackets provided with the cooling coil, attach the module to the return side of fan coil unit, using two sided tape for air seal between units. Assure that drain controls are on the bottom (**Fig 06**), and that no screws puncture the drain pan or coil. The **WCM and WM** chilled water coils are a horizontal airflow with a vertical position of the coil while the **RPM-E** is also a vertical coil with multiple air flow capabilities. See the corresponding manual included with the coil for detailed installation instructions.

**Fig. 06 Attach Cooling Coil to Fan Coil Unit**



Attach the metal flanges to the four facing corners of the fan coil and cooling coil assembly.

After attaching the metal flanges, follow the same steps for hanging fan coil unit only.