

TERMINAL UNIT INSTALLATION ORIENTATION CONSIDERATIONS

PRODUCT OVERVIEW

Price terminals are shipped with a factory applied, airflow orientation sticker on the unit label. The terminal unit should be installed according to the arrows featured on this sticker. An example of the current sticker used is shown below:

INSTALLATION LABEL ▼



VAV SPECIFICATIONS
Price Order No: _____
Rep PO: _____
Customer PO: _____
Job Name: _____
Package Tag: _____
Unit Location: _____

AIR FLOW:


INSTALLED:


AIR DISTRIBUTION PRODUCTS
Manufactured By Price

Special Instructions: _____

If there is a need to reposition the terminal unit to an orientation other than that indicated by the factory label, the following items must be considered prior to repositioning the unit.

Single Duct Units – SDV, SDVLP (manufactured after April 2017)

The base unit may be installed in any orientation. Units with electric coils may be flipped 180°. If pneumatic controls are provided, please see the below sections for further information. For considerations regarding water coils, see section on water coils. *If manufactured before 2017, units with electric heaters cannot be flipped for opposite side handing.

Product Model	Product Type	Horizontal	Field Flip 180 Degrees	Field Flip 90 Degrees	Vertical Flow Up	Vertical Flow Down
SDV	Basic Assembly	Yes	Yes	Yes	Yes	Yes
	With Attenuator	Yes	Yes	Yes	Yes	Yes
	With Silencer	Yes	Yes	Yes	Yes	Yes
	With Electric Coil	Yes	Yes ³	No	No	No
	1-2 Row Water Coil	Yes	Yes ¹	Yes ²	Yes ²	Yes ²
	3-4 Row Water Coil	Yes	No ¹	Yes ²	Yes ²	Yes ²

1. Assemblies supplied with water coils:
 - a. 1 and 2 row coils are a common design for right and left hand configurations. Flipping these coils should have no impact on performance.
 - b. 3 and 4 row coils are handing specific. Changing the handing of the coil by flipping the assembly will result in a decrease in coil capacity and is not advised
2. On standard water coils, the vent and drain are supplied by others. When installing vertical special consideration should be given to venting and draining the coil.
3. Electric coils supplied with mercury contactors must have the contactors flipped to ensure the arrow on the label is pointed upward.

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Fan Powered Constant Volume Units – FDC-1-X, FDC-G2

This unit may be flipped 180°, and is provided with top and bottom access panels by default. This includes units with electric coils and hot water coils. If pneumatic controls are provided, please see the below sections for further information.

Fan Powered Constant Volume Units – FDC5, FDCA2, FDCLP2

The basic unit can be flipped 180°, such that the standard bottom access panel is now located at the top of the unit. Should the base unit be flipped 180°, consideration should be taken to ensure standard access to all components is still acceptable. If electric coils or pneumatic controls are provided, please see the below sections for further information. For considerations regarding water coils, see section on water coils.

Fan Powered Constant Volume DOAS Units – FDC-1-X and FDCLP2 with DOAS Option

These units must be installed in the orientation indicated by the factory applied airflow orientation sticker, and cannot be rotated in the field. The drainage slots and drip tray are position sensitive.

Product Model	Product Type	Horizontal	Field Flip 180 Degrees
FDC-1-X	Basic Assembly	Yes	Yes
	With Electric Coil	Yes	Yes ¹
	1-2 Row Water Coil	Yes	Yes
	With DOAS Coil	Yes	No

1. Electric coils supplied with mercury contactors must have the contactors flipped to ensure the arrow on the label is pointed upward.

These units must be installed in the orientation indicated by the factory applied airflow orientation sticker, and cannot be rotated in the field. This is due to the backdraft damper, which will not close in any orientation other than the original intended position, with the access panel mounted at the bottom of the unit.

Product Model	Product Type	Horizontal	Field Flip 180 Degrees
FDV	Basic Assembly	Yes	No
	With Electric Coil	Yes	No
	1-2 Row Water Coil	Yes	No

Dual Duct Units – DDS, DDV

Dual duct units can be installed in any orientation, except when provided with electric heat or pneumatic controls (see below sections). The HOT deck and COLD deck stickers specific to dual duct units should be observed when connecting ductwork after flipping the unit. For considerations regarding water coils, see section on water coils.

Retrofit Terminals – RDV, LDV, SRDV

These terminals can be installed in any orientation, except when provided with pneumatic controls (see below sections).

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Bypass Terminal – LGB

These units can operate upside-down (flipped 180°). However, these units must not be installed on their side (rotated 90°). This is because the damper moves on a slider mechanism, and if installed in this manner, its movement will be obstructed. If electric coils or pneumatic controls are provided, please see the above sections for further information. For considerations regarding water coils, see section on water coils.

Fan Coils and Blower Coils – Various Models

All fan coil and blower coil models cannot be rotated, nor installed, in any other orientation than indicated by the factory applied airflow orientation sticker. These products typically produce condensate as a result of operating the chilled water coil below the dew point of the air passing through the unit. Note that the condensate management system is position sensitive.

Units with Electric Heaters

Electric heaters are always certified to operate in the orientation described by the factory applied airflow orientation sticker (see above). Failure to install the electric heater in the manner shown by this sticker may result in the UL certification of the electric coil being void.

In the case of the SDV, FDC-G2, and FDC-1-X, the electric coil is certified both for upright, and upside-down operation. If mercury contactors are included, ensure the arrow on the label is pointed upward.

For all other terminal unit products, the electric coil is only certified in the orientation noted on the factory applied airflow orientation sticker next to the unit label. Upside-down orientation will void the UL certification.

For non-standard electric coil configurations, please contact Air Moving Application Engineering (AirMovement@priceindustries.com). Non-standard electric coil configurations must be reviewed with Application Engineering well in advance of releasing the order to production for feasibility, as some configurations may not be possible.

Units with Pneumatic Controls

Price pneumatic controllers are position sensitive, but are supplied with a universal mounting bracket, which allows for field reorientation of the controller (should that be required). The controller must always be re-calibrated in its final installed position.

Units with Controls by Others

These terminals can be installed in any orientation, except when provided with pneumatic controls (see below sections).

Units with Hot Water Coils

The typical flow configuration for hot water coils assumes the bottom connection of the water coil to be the supply, and the top connection to be the return. For 1-2 row hot water coils, the reduction in capacity as a result of flipping this coil 180° is negligible. For 3-4 row hot water coils, there is a large reduction in capacity as a result of flipping the coil 180°. For this reason, 1-2 row hot water coils may be considered flippable in most applications, whereas 3-4 row hot water coils are not considered flippable in most applications.

NOTE: That the act of purging the coil of air when it is first filled, as well as the act of adequately draining the coil of water if it must be uninstalled, may be made more difficult if the coil is installed in any other orientation than indicated by the factory applied airflow orientation sticker.