

Installation Instructions

Pedestal for D1h-D2h, D5h-D8h

FC Series FC 102, FC 202, and FC 302

1.1 Description

The pedestal kit is designed for the VLT® HVAC Drive FC 102, VLT® AQUA Drive FC 202, and VLT® AutomationDrive FC 302 D1h-D2h, or D5h-D8h size drive. See *chapter 1.3.2 Pedestal With In-Back Cooling Assembly* for pedestals with in-back cooling and *chapter 1.3.5 Standard Pedestal Installation* for standard pedestals.

The kit contains the following parts:

Duct assembly

- Air duct base (1)
- Air duct bracket cover (1)
- Air duct cover (1)

Pedestal assembly

- Pedestal, base (1)
- Flange, Top (1)
- Flange, Bottom (1)
- Side Panels (2)
- Grate, front of pedestal (1)
- Gasket, between air duct and air duct bracket (1)
- Gasket, between back of air duct and pedestal (1)
- Gasket, back pedestal grate (1)
- Gasket, between top of pedestal and frequency converter (1)
- Gasket, between top of air duct and top of pedestal (1)
- Gasket, air duct cover (1)
- Screws, M5x14 (12) D1h–D8h
- Screws M5x18 (14) D1h, D5h, D6h; (16) D2h, D7h, D8h
- Nuts, M5 (2) D1h–D8h
- Nuts, M8 (4) D1h–D8h

1.2 Kit Part Numbers

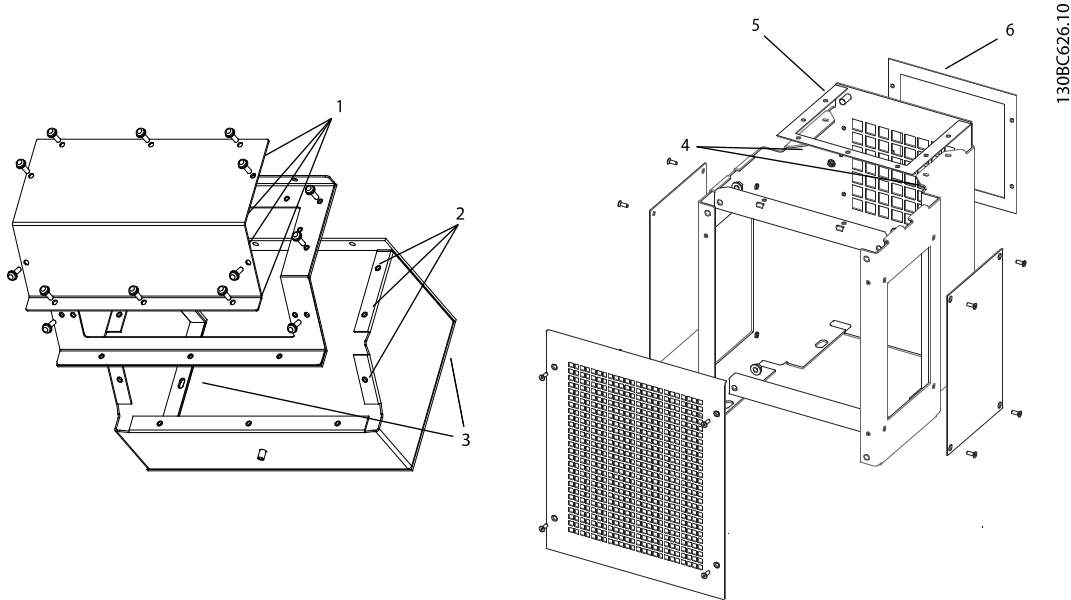
Part number	Kit description
176F3631	D1h, standard pedestal
176F3632	D2h, standard pedestal
176F3452	D5h/D6h, standard pedestal
176F3539	D7h/D8h, standard pedestal
176F3532	D1h, in-back cooling option pedestal
176F3533	D2h, in-back cooling option pedestal

Table 1.1 Part Numbers for all the D1h-D2h, D5h-D8h standard kits and for D1h-D2h kits with In-back cooling

1.3 Installation

1.3.1 Gasket Adherence

1. Remove adhesive backing and adhere the gaskets to the appropriate parts (see *Illustration 1.1*).



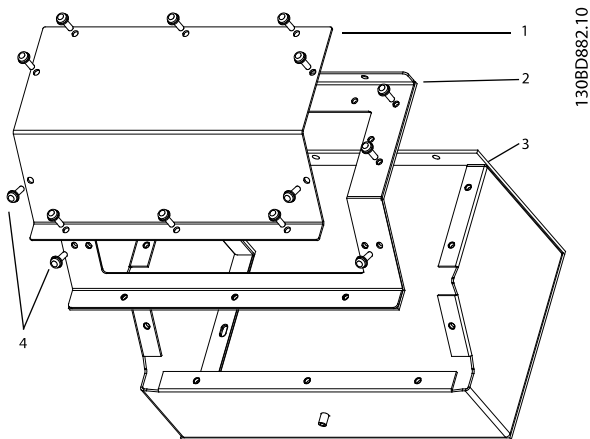
Gasket	Description	Location
1	4-sided small	On the air duct cover
2	3-sided large	Between the air duct and the air duct bracket
3	3-sided slots	Between the back of the air duct and the pedestal
4	3-sided thin	Between the top of the air duct and the top of pedestal ¹⁾
5	3-sided thick	Between the top of the pedestal and the frequency converter ¹⁾
6	4-sided large	On the back of the pedestal grate

¹⁾ Cannot adhere until the completion of chapter 1.3.2 Pedestal With In-Back Cooling Assembly.

Illustration 1.1 Gasket Placement

1.3.2 Pedestal With In-Back Cooling Assembly

1. Align the air duct base with the air duct bracket cover and insert 3 screws (5x18) into the holes along each angled side. Do not add the air duct cover at this time. Do not add screws to flat sides at this time (see *Illustration 1.2*).
2. Fasten the duct to the pedestal using 2 hand-tightened M5 nuts (see *Illustration 1.4*).
3. Install top and bottom flanges using 2 M8 nuts for each flange (see *Illustration 1.4*).

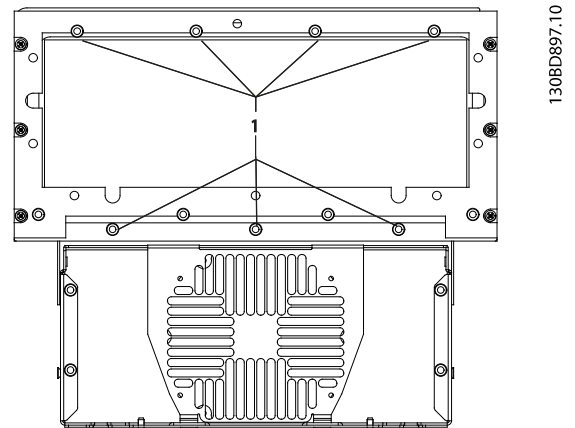


1	Air duct cover
2	Air duct bracket cover
3	Air duct base
4	M5x18 screws

Illustration 1.2 Exploded View of Airduct, D2h Model Shown

1.3.3 Attaching the Pedestal to the Frequency Converter

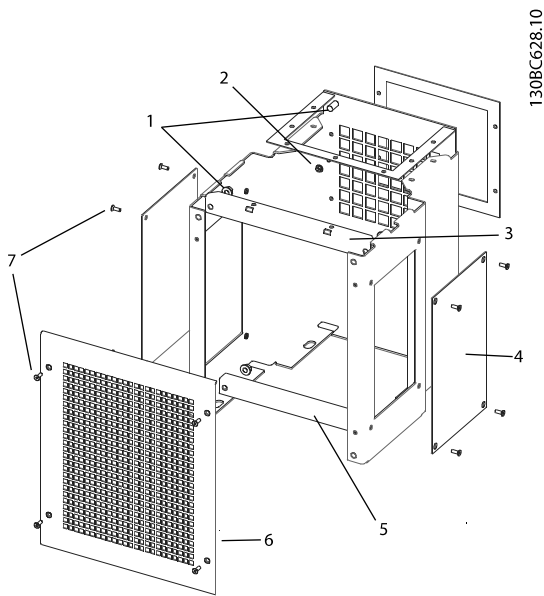
1. Remove 4 screws from the front side of the frequency converter bottom plate and the 3 screws (5x12) from the back side of the frequency converter plate (see *Illustration 1.3*).
2. Place the pedestal against the frequency converter, reinstalling the 5x12 screws removed in the previous step.



1	M5x12 screws
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Illustration 1.3 Bottom View of D2h Frequency Converter and Gland Plate

3. Secure the pedestal to the frequency converter with 2 hand-tightened M8 nuts and 4 screws (5x18).
4. Torque the M5 nuts inside the duct to 2.3 N-m [20 in-lb] and the M8 nuts to 9.6 N-m [85 in-lb] to secure the pedestal to the frequency converter.
5. Install the air duct cover with 6 screws (5x18). Secure the flat sides of the duct cover to the duct bracket using 6 screws (5x18) (refer to *Illustration 1.2*).
6. Install the side panels using 4 screws (5x14) for each plate (see *Illustration 1.4*).
7. Install the front grate using 4 screws (5x14) (see *Illustration 1.4*).
8. See *Illustration 1.6* for completed pedestal frequency converter installation.

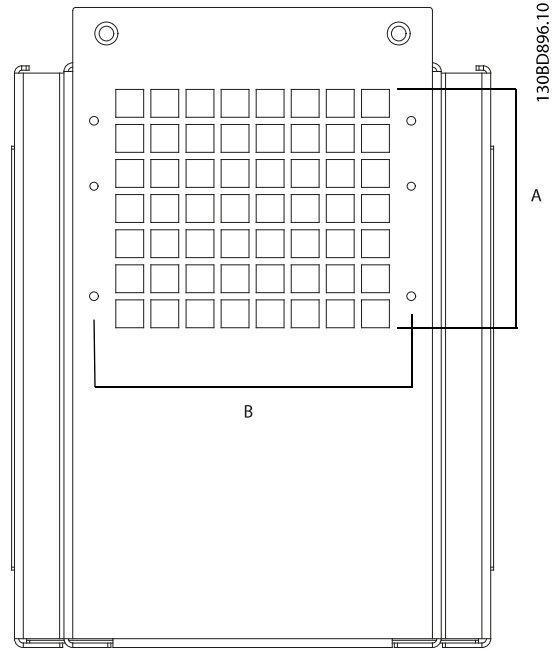


1	Location of M8 Nuts
2	M5 nuts
3	Top flange
4	Side panels
5	Bottom flange
6	Front grate
7	M5x14 screws

Illustration 1.4 Exploded View of Pedestal, D2h Shown

1.3.4 Pedestal Grate Dimensions

- D1h and D2h grate dimensions are only necessary for allowing air flow into pedestals with in-back cooling.

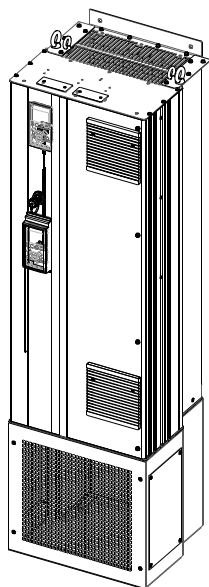


	A-Height in mm [in.]	B-Width in mm [in.]
D1h	163.05 [6.42]	217 [8.54]
D2h	163.05 [6.42]	317 [12.48]

Illustration 1.5 D1h and D2h Grate Dimensions

1.3.5 Standard Pedestal Installation

1. Install top and bottom flanges (see *Illustration 1.4* in chapter 1.3.3 *Attaching the Pedestal to the Frequency Converter*).
2. Secure the pedestal to the frequency with 2 M8 nuts and four screws (5x18) (see *Illustration 1.4* in chapter 1.3.3 *Attaching the Pedestal to the Frequency Converter*).
3. Install the side panels using 4 screws (5x14) for each plate (see *Illustration 1.4* in chapter 1.3.3 *Attaching the Pedestal to the Frequency Converter*).
4. Install the front grate using 4 screws (5x14) (see *Illustration 1.4* in chapter 1.3.3 *Attaching the Pedestal to the Frequency Converter*).



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Illustration 1.6 Completed Pedestal Assembly

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