

Floormaster® DVHA, semi-cylindrical terminals



Floormaster® DVHA are semi-cylindrical supply air terminals for positioning on the floor against a wall. The terminals are designed for displacement air handling in accordance with the Floormaster system for good air comfort and high ventilation efficiency.

Floormaster terminal devices are equipped with an air distribution system consisting of a roll-shaped perforated distribution plate with an attached honeycomb sheet in black polycarbonate. This component combination permits uniformly horizontal air distribution through the front panel with a short near zone and a very low noise level.

Quick Selection

Floormaster® DVHA, semi-cylindrical terminal with duct connection which provides space for a sound attenuator inside the enclosure.

Size	Height	Connection	Air flow range l/sm ³ /h at sound level		
			25 dB(A)	30 dB(A)	35 dB(A)
100	400	100	33	40	46
125	600	125	58	74	88
160	600	160	85	100	120
200	1000	200	132	189	223
250	1000	250	210	240	280
315	1500	315	277	471	541
400	1500	400	500	590	730
500	2000	500	780	905	1025

Can be placed behind the duct enclosure

DVHA	Sound attenuator		Damper		
	BDER-30	BDER-34	BDEP	IRIS	
100	No	No	No	Yes	
125	Yes	No	Yes	Yes	
160	Yes	No	Yes	Yes	
200	Yes	No	Yes	Yes	
250	No	No	Yes	Yes	
315	Yes	Yes	Yes	Yes	
400	Yes	No	Yes	Yes	
500	Yes	Yes	Yes	Yes	

Specifications

- 8 sizes
- Very low sound level
- Uniformly circular diffusion pattern
- Short comfort boundaries
- Internal duct connection (female)
- Outlet for flow measurement
- Terminal base as accessory
- Easy maintenance - no spare parts
- Dismountable front plate
- No visual screws

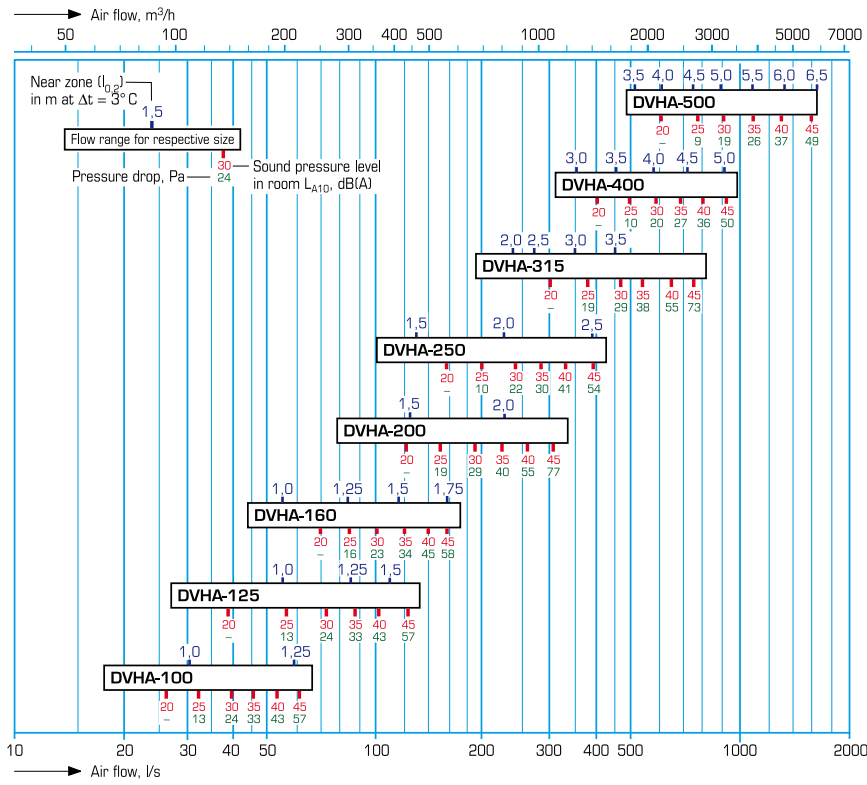
Product code example

Floormaster DVHA-250-0-0-1-0
(Size 250, height 1000 mm , internal connection 250 mm , top connection, without induction, with mounted terminal base and standard white colour)

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Capacity and Sound data

Capacity data - Airflow pressure drop, comfort boundaries, sound level



Sound power level in Octave bands

The sound power level in octave bands is obtained by adding the correction (with sign) in the table to the acoustic value in the graphs. The indicated sound levels are applicable for 4 dB room attenuation (10 m² room absorption area).

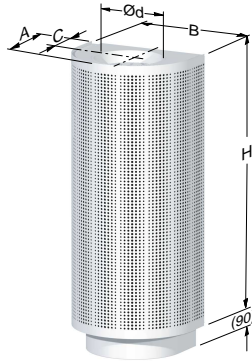
	Octave bands, centre frequency Hz							
	63	125	250	500	1000	2000	4000	8000
DVHA	-2	5	6	2	-2	-9	-12	-6
Tolerance +/-	1	2	1	0	1	2	3	5

Sound attenuation

The table shows the difference between the sound power level in the duct and the sound power level in the room, in dB. Orifice attenuation is included in the calculation. Sound levels in the capacity graphs apply for an unchanged connection diameter.

DVHA size	Octave bands, center frequency Hz							
	63	125	250	500	1000	2000	4000	8000
100	21	14	9	4	2	2	3	4
125	20	13	8	3	2	2	3	4
160	18	12	6	2	2	2	3	4
200	17	11	4	2	1	1	3	4
250	15	9	3	2	1	1	3	4
315	14	8	3	2	1	1	3	4
400	12	6	2	2	1	1	3	4
500	11	4	2	2	1	1	2	3

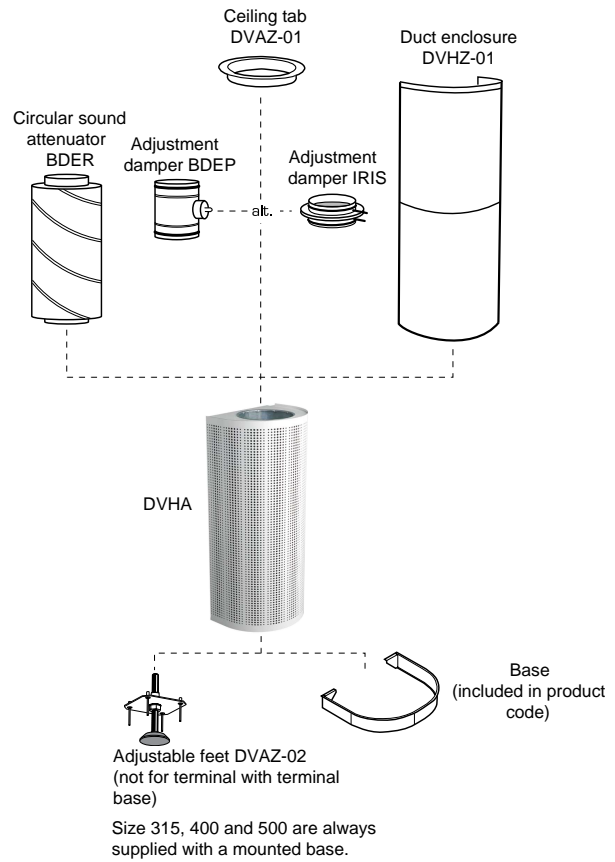
Dimensions and weights



Size	Ød [mm]	H [mm]	A [mm]	B [mm]	C [mm]	Weight [kg]
100	100	400	175	182	81	2.8
125	125	600	279	355	141	6.4
160	160	600	279	355	141	6.4
200	200	1000	356	457	176	15.3
250	250	1000	356	457	176	15.3
315	315	1500	595	787	308	40.2
400	400	1500	595	787	308	40.2
500	500	2000	761	917	374	63.8

Product summary and description

Product summary



Material and surface finish

Floormaster terminal devices are equipped with an air distribution system consisting of a roll-shaped perforated distribution plate with an attached honeycomb sheet in black polycarbonate. This component combination permits uniformly horizontal air diffusion through the front panel with a short throw and a very low noise level.

The air distribution system is surrounded by a casing and is accessible by removing the front panel of the device.

The Floormaster terminals are made from hot-dip galvanized steel sheet, SS1151.

The Floormaster terminals are easy to maintain and no replacement parts are necessary.

The terminals are powder-coated for a high surface finish and good impact and scratch resistance. Standard colour White RAL-9010, gloss 30, equivalent to NCS S 0502Y. Other colours on request.

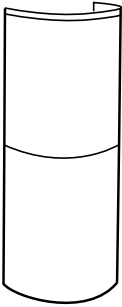
Terminal base



Semi-cylindrical Floormaster terminals of size 100, 125, 160, 200 and 250 are supplied with small plastic feet. The terminal base is available as a choice in the main product code for these sizes.

Semi-cylindrical Floormasterterminals of size 315, 400 and 500 are always supplied with a mounted base. The base is adapted to the shape of the terminal and has a height of 90 mm. It is made from hot-dip galvanized steel sheet SS 1151 and powder-coated in the same colour as the terminal. Note: Terminals who has been ordered and delivered with a terminal base can't be equipped with adjustable feets.

Duct enclosure DVHZ-O1



Terminal-shaped duct enclosure with telescopic function with three lengths: 1 = 900 - 1300 mm, 2 = 1300 - 1800 mm and 3 = 1800 - 2400 mm. Powder-coated in the same colour as the terminal. Note! When combining duct enclosure with sound attenuator see remarks below each product code.

Technical data and dimensioning

For complete dimensioning details, please see FläktGroup product selection program. Contact our nearest sales office for further information.

Descriptive text, product code

Instructions

Directions for installation, adjustment and care are set out in detail in our technical instruction which accompanies each product. The instruction is also accessible on www.flaktgroup.com.

Descriptive text

Floormaster terminal manufactured by FläktGroup. DVHA size 250 height 1000 mm, internal connection with terminal base, sound attenuator and duct enclosure. Standard colour.

Special constructions

Describe the deviations from the standard model clearly and replace the product code letter standing for the construction part in question with an X.

Product code

Floormaster terminal **DVHA-aaa-b-c-d-e**

Size (aaa)

100, 125, 160, 200, 250, 315, 400, 500

Connection alternatives (b)

0 = Top connection

1 = Bottom connection

Function (c)

0 = without induction

Terminal base (d)

0 = without

1 = with (mounted) (Size 315, 400 and 500 are always supplied with a mounted base)

Colour (e)

0 = standard colour

Accessories

Duct enclosure **DVHZ-01-bbb-c-d**
(with telescopic function)

Size (bbb)

100¹⁾, 125, 160, 200, 250, 315, 400, 500

Length (c)

1 = 900 - 1300 mm (not size 100, 125 and 160)

2 = 1300 - 1800 mm (not size 100, 125 and 160)

3 = 1800 - 2400 mm

Colour (d)

0 = Standard colour

¹⁾ Duct enclosure size 100 can not be combined with a sound attenuator.

Use FläktGroup – Veloduct BDED for duct reduction.

Ceiling tab **DVAZ-01-bbb**

Connection diameter, mm (bbb)

100, 125, 160, 200, 250, 315, 400, 500

Adjustable feet **DVAZ-02**
set with 3 pieces

Circular adjusting damper **BDEP-1-bbb**

Connection diameter, cm (bbb)

010, 012, 016, 020, 025, 031, 040, 050

Regulation and measuring devices **IRIS-aaa**

Connection diameter, mm (aaa)

100, 125, 160, 200, 250, 315, 400, 500

Technical data, connection dimensions, including dimensions, are given in separate product documentation for IRIS.

Circular sound attenuator **BDER-aa-bbb-ccc**

Type (aa)

30, 32, 34 (max 100mm thick filling)

Size, connection in cm (bbb)

012, 016, 020, 025, 031, 040, 050 (max 100mm thick filling)

Length, cm (ccc)

030, 050, 060, 090, 100, 120

Possible combinations of lengths and connection dimensions, including dimensions, are given in separate product documentation for BDER.

Note! Prior to ordering, make sure that the sound attenuator can be fitted behind the duct enclosure (if ordered). See dimensions for the terminal and outer dimensions for the sound attenuator.