

OSMO Horizontal Ducted

OSMO Horizontal Ducted fan coils can be discreetly installed above a false ceiling or closet for the highest level of aesthetics, where only a supply and return grille are visible.

Utilizing DC inverter technology, the OSMO Horizontal Ducted fan coil features a super quiet tangential fan within a specialized structure that minimizes vibration, optimizing the fan. It is compatible with low-temperature generators like heat pumps, condensing boilers, and integrated systems with solar panels.

Achieving and maintaining the desired temperature swiftly and silently through continuous automatic modulation of the fan, the OSMO Horizontal Ducted fan coil provides efficient and unobtrusive heating and cooling.



Connection

- 2-pipe
- Can connect to low-temperature 4 pipe systems with optional 6-way valve
- Available in 1/2 or 3/4 (12.7 or 19 mm) connections

Key Features

- Compact unit – under 10 in. high
- Easy to install
- High ESP for internal ducting
- Bottom or rear returns
- Auto-restart
- Washable filters

Operation

- Cool, heat, dehumidify, and auto
- Selectable fan speeds, low, med, high, and auto

Mounting

- Ceiling
- Underfloor

Airflow.

- Available 0.6" WC (Pa) for internal ducting and grilles

Included controls

- Wi-Fi app for Android and iPhone
- Centralized control
- Wall Mounted touch controller
- Third party thermostat interface
- BACnet/Modbus interface

Key Specifications¹

Model		HD6	HD8	HD10	HD12	HD20
Cooling ²						
Capacity	MBh (kW)	4.8 (1.4)	7.2 (2.1)	8.9 (2.6)	11.3 (3.3)	15.2 (4.5)
Sensible	MBh (kW)	3.6 (1.1)	5.1 (1.5)	7.2 (2.1)	8.4 (2.5)	10.9 (3.2)
Water flow rate	Gal (L)	71.3 (269.9)	107.0 (405.0)	134.7 (509.8)	161.1 (609.8)	212.7 (805.0)
Pressure drop	Ft H ₂ O (kPa)	1.7 (5.1)	2.7 (8.1)	5.7 (17.0)	3.7 (11.1)	4.7 (14.1)
Heating ³						
Heating capacity	MBh (kW)	5.6 (1.6)	7.2 (2.1)	9.8 (2.9)	12.7 (3.7)	17.7 (5.2)
Water flow rate	Gal (L)	81.9 (310.0)	116.2 (439.8)	142.7 (540.2)	192.8 (729.8)	232.5 (880.0)
Pressure Drop	Ft H ₂ O (kPa)	2.0 (6.0)	3.0 (9.0)	6.0 (17.9)	4.3 (12.9)	5.0 (15.0)

1. Heating and cooling performance based on zero ESP and a clean filter.

2. Cooling capacity based on 80/67°F (27/19°C) entering air temperature, 45°F (7°C) entering chilled water with a 10°F (5.6°C) ΔT.

3. Heating capacity based on 70°F (21°C) entering air temperature 113°F (45°C), entering hot water with a 10°F (5.6°C) ΔT.

Technical Specifications

Model		VD6	VD8	VD10	VD12	VD20
Hydraulic						
Coil Volume	Gal (L)	0.2 (0.8)	0.3 (1.2)	0.4 (1.6)	0.5 (2.0)	0.6 (2.3)
Maximum operating	PSI	145	145	145	145	145
Hydraulic connections	in (mm)	Choice of 1/2 or 3/4 (12.7 or 19)				
Airflow						
High	CFM (m³/h)	171 (290.5)	230 (390.7)	324 (550.5)	400 (679.6)	512 (869.9)
Medium	CFM (m³/h)	118 (200.5)	171 (290.5)	230 (390.8)	265 (450.2)	359 (609.9)
Low	CFM (m³/h)	53 (90.1)	82.4 (139.9)	112 (190.3)	135 (229.4)	147 (249.8)
Static pressure	in. WC (Pa)	0.4 (100)	0.4 (100)	0.5 (125)	0.4 (100)	0.6 (149)
Electrical Data						
Power supply voltage	V/ph/Hz	230/1/60				
Max. draw	W	80	140	160	160	230
Max. current input	A	0.7	1.2	1.4	1.4	1.8
Minimum draw	W	22	38	42	45	50
Sound¹						
High	dB(A)	43	46	48	49	50
Medium	dB(A)	37	39	41	43	45
Low	dB(A)	30	31	34	37	38
Dimensions and Weights						
Length	in (mm)	23.2 (589)	31.1 (789)	39.0 (991)	46.9 (1,191)	56.7 (1,440)
Height	in (mm)	7.3 (185)	7.3 (185)	7.3 (185)	7.3 (185)	7.3 (185)
Depth	in (mm)	22.6 (574)	22.6 (574)	22.6 (574)	22.6 (574)	22.6 (574)
Net weight	lb (kg)	66.0 (29.9)	90.2 (40.9)	99.0 (44.9)	118.8 (53.9)	143.0 (64.9)

The Smart Horizontal Fan Coil

A. Fan

The unit is equipped with a centrifugal fan, low consumption DC inverter motor, and integrated control.

B. Electrical Box

Electrical box excluded from the air flow, with electronic main board control.

C. Heat Exchanger

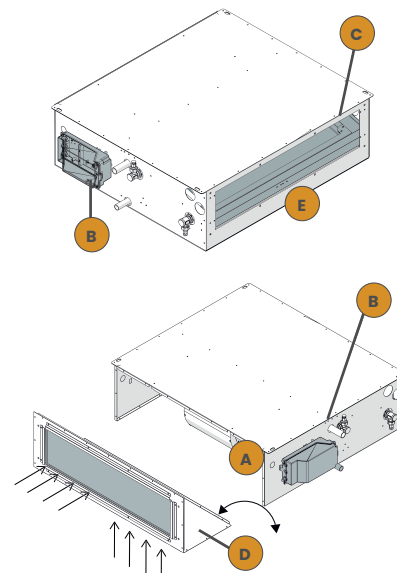
Copper aluminum water to air heat exchanger with hydrophilic treatment fins.

D. Reversible Return with Air Filter

The return intake air can be from the bottom or rear.

E. Horizontal Condensate Tray

Allows the collection of condensate.



1. Sound pressure measured at a distance of 40 inches (1,016 mm) according to ISO7779.