



VORT PLATT RANGE

CENTRALIZED MECHANICAL VENTILATION UNIT

C

CENTRALIZED VENTILATION

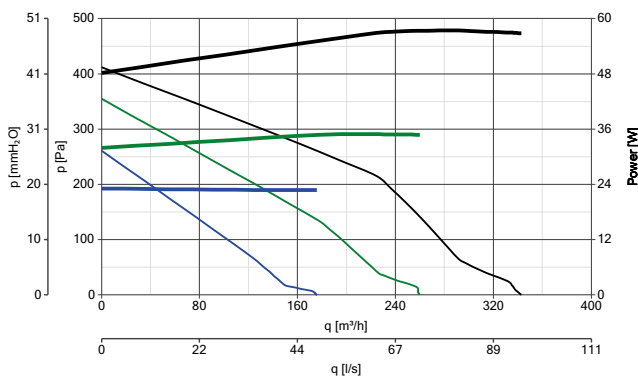
FALSE CEILING MOUNT

Unit for simple flow centralized mechanical ventilation, reduced thickness. Installed in a false ceiling or in the attic, it extracts stale air from service rooms and facilitate the return of fresh external air through openings appropriately positioned in living rooms. A pair of relative humidity sensors enable the automatic adjustment of the performance provided to the actual needs of the moment.



- Enclosure in galvanized sheet metal and flanges in ABS, centrifugal-axial motor-fan unit mounted on ball bearings.
- Low consumption DC-EC single phase motor, absorption 12/50W.
- Delivery spigot Ø125mm, intake spigots 3 x Ø80mm + 1 x Ø125mm.
- Class II insulation.
- Integrated adjustable timer (max 30 ').
- Protection grade IPX4.

PERFORMANCE AND ABSORPTION



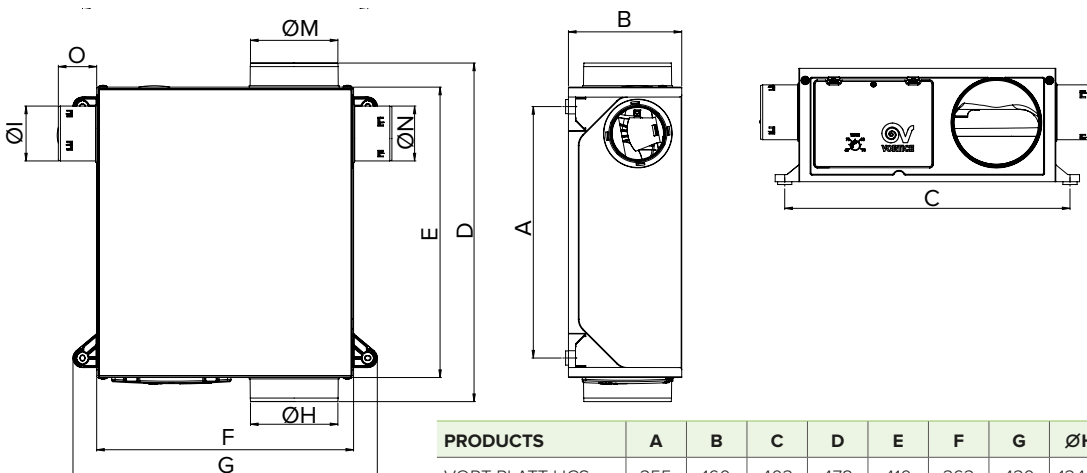
TECHNICAL DATA

PRODUCT	CODE	Nom. Ø (mm)	(m ³ /h)	(W)	(PA)	Lp [dB (A)] 3m
VORT PLATT HCS	12108	80-125	343	56	411.7	34.9

CONSUMPTION CURVES
 — max
 — med
 — min

PERFORMANCE CURVES
 — max
 — med
 — min

DIMENSIONS



Dimensions in mm

PRODUCTS	A	B	C	D	E	F	G	ØH	ØI	ØM	ØN	O
VORT PLATT HCS	355	160	403	478	410	363	430	124.5	77.5	124.5	77.5	45



ENERGY DATA

	UNIT OF MEASURE	VORT PLATT HCS
MANUFACTURER'S NAME OR TRADE NAME	-	VORTICE
CLASS OF SPECIFIC ENERGY CONSUMPTION FOR TEMPERATE CLIMATE	-	C
SPECIFIC ENERGY CONSUMPTION SEC (TEMPERATE CLIMATE)	kWh/m ² year	-25.4
SPECIFIC ENERGY CONSUMPTION SEC (COLD CLIMATE)		-52.4
SPECIFIC ENERGY CONSUMPTION SEC (WARM CLIMATE)		-9.9
DECLARED TYPE OF THE VENTILATION UNIT	-	UVR-U**
DRIVE TYPE	-	VM***
HRS TYPE HEAT EXCHANGER	-	absent
THERMAL EFFICIENCY OF HEAT RECOVERY AT THE HRS REFERENCE FLOW RATE	%	NA*
MAXIMUM FLOW RATE	m ³ /h	280
TOTAL ELECTRIC POWER ABSORBED BY THE FAN AT MAXIMUM FLOW RATE	w	57.6
Sound LEVEL	LWA [dB(A)]	57
REFERENCE FLOW RATE	m ³ /s	0.05
REFERENCE PRESSURE DIFFERENCE	Pa	100
SPI****	W/(m ³ /h)	0.18
CTRL CONTROL FACTOR	-	0.65
CONTROL TYPE	-	local premise
MAXIMUM PERCENTAGE OF INTERNAL LEAKAGE	%	NA*
MAXIMUM PERCENTAGE OF EXTERNAL LEAKAGE	%	7.4
MIXING RATE	-	NA*
POSITION AND DESCRIPTION OF THE VISUAL FILTER SIGNAL	-	NA*
AIR FLOW SENSITIVITY AT PRESSURE VARIATIONS OF ± 20 PA	-	NA*
INDOOR/OUTDOOR AIR SEALING	m ³ /h	NA*
AEC ANNUAL ELECTRICITY CONSUMPTION	kWh of electricity/year	117
TEMPERATE AHS ANNUAL HEATING SAVINGS	kWh of primary energy /year	2830
COLD AHS ANNUAL HEATING SAVINGS		5536
WARM AHS ANNUAL HEATING SAVING		1280

* NA: Not applicable. ** UVR-U: Residential Ventilation Unit - Uni-directional. *** VM: Multiple speeds. VSD: Variable Speed Drive.

**** SPI: Specific power input.



VORT PLATT RANGE

CENTRALIZED MECHANICAL VENTILATION UNIT

TECHNICAL CHARACTERISTICS

- **1 model.**
- Cover in **galvanized sheet steel.**
- Rear flange in black plastic resin (ABS) **resistant to impact and aging** due to sun exposure ("UV resistant") integral with the fixing brackets to the target surface and the seat, protected by a black ABS sealed cover, of the terminals for connection to the electricity grid.
- **4 intake spigots**, three of nominal diameter of 80 mm and one of 125 mm and 1 discharge spigot, also 125 mm large, on the lateral surface of the product.
- **3 speed AC motor**, thermally protected, shaft mounted on ball bearings, guarantees prolonged service (at least 30,000 h) at the maximum rated temperature; speed selector and ON/OFF control available as an option.
- Impeller, of the centrifugal type with backward curved blades, **in plastic resin loaded with glass fibers**, to combine dimensional stability, strength and resistance to aggressive agents.
- Relative humidity sensors, electronically managed, with **adjustable threshold at installation.**
- **2 connection sleeves to the intake pipes in plastic resin (PP)**, designed for interlocking in the 80 mm spigots. Special integral mylar valves to maintain at 30 m³/h the extracted flow rate, regardless of pressure drops and the number of connected rooms.
- 1 cap with a diameter of 80 mm, for closing the spigot that may not be used, supplied as standard.
- **Safety certified by a third party (CE).**
- **Electrical insulation class:** II (grounding not required).



TECHNICAL DATA

PRODUCTS	CODE	V~50HZ	W		A		RPM		MAX FLOW RATE		MAX PRESSURE		Lp dB(A)* 3m max	°C* MAX	KG
			min/max	min/max	min/max	min/max	m ³ /h min/max	l/s min/max	mmH ₂ O min/max	Pa min/max					
VORT PLATT HCS	12108	230	23 56	0.21 0.25	1300 2610	176 343	48.8 95.2	26.6 41.9	261 411.7	34.9	60	5.4			

* Acoustic pressure measured from 3 m in free field, in compliance with ISO 3741.

** Maximum continuous operating temperature of the product.

ACCESSORIES

MODELS	DESCRIPTION	CODE	VORT PLATT HCS code 12108
	FLOW REGULATOR	15m ³ /h	22324
		30m ³ /h	22325
	SPIGOT 80 HYGRO	22847	



DETAILS



The internal duct design guarantees high performance, low consumption and lower sound levels.

Light and at the same time robust construction.

Reliability over time: the duration of the motors is guaranteed for at least 30,000h of continuous operation at the maximum certified temperature.

LONG LIFE 30.000 h