

VORT PRESS RANGE

Centrifugal duct fans **LONG LIFE 30.000 h**



Design: F. Trabucco - M. Vecchi



2 or 3 speed centrifugal fans for wall or ceiling installation, designed for the ventilation of small or medium-size residential and commercial premises whose layout requires ducting of the exhaust.

Key features

- Silent operation.
- Reduced exhaust sleeve depth, compatible with installation immediately upstream of a 90° bend.
- 2 or 3 speed motors for the best balance between performance, consumption and sound emissions.
- Metal filters, easily removable to facilitate maintenance, dishwasher-safe
- Sealed non-return valves to prevent unwanted inflows of cold air and bad odours when the device is switched off.
- Suitable for bathroom installation.

Version

4 models, different in size, performance and supply, also available in version with timer.

Technical features

- White, shock-proof, plastic resin casings prevent ageing caused by exposure to sunlight ("UV resistant"). Fan motor housings mounted on antivibration supports inside the scroll, with sound-absorbing characteristics, ensuring especially quiet operation.
- 2 or 3 speed motors with thermal overload cut-out and shaft turning in ball bearings to guarantee long lasting continuous service (at least 30,000 h) at the maximum plate temperature. Speed adjustment using VORTICE accessory devices.
- Forward-curved centrifugal impellers moulded in plastic resin, resistant to aggressive agents.
- Multi-layer aluminium mesh filters, dishwasher-safe.
- Non-return valves with very high sealing silicone membrane to prevent unwanted inflows of air and bad odours when the device is switched off.
- T models equipped with an "intelligent" electronic timer: if the light is on in the serviced room, the fan starts up at maximum speed after about 40". If the light is switched off, the device instantly switches to minimum speed, switching off automatically after an amount of time that can be set during installation from 3' to 20' (default setting 3').
- Performance and safety certified by third party body (IMQ)
- Class of electric isolation: II □ (earthing not required).





TECHNICAL DATA

MODELS	CODE		V~50HZ	W max	A max	RPM max	MAX AIRFLOW		MAX PRESSURE		Lp dB(A)* 3m max	MAX °C	KG
	BASIC	TIMER					m³/h	l/s	mmH ₂ O	Pa			
VORT PRESS 110 LL	11967	11968	220-240	12 24	0,07 0,22	925 1760	55 110	15,3 30,6	10 16	98 157	30 41	40	1,95
VORT PRESS 220 LL	11977	11978	220-240	14 64	0,11 0,42	1200 2380	125 260	35 72	11 35	108 343	43 55	40	2,30

* Conforms with ISO 3744 for noise and pressure levels.

VORT PRESS RANGE | TECHNICAL DATA FOR REGULATION N° 1254/2014/UE

	UNIT OF MEASURE	VORT PRESS 110 LL - VORTICE PRESS 110 LL T
Supplier's name or trade mark	-	VORTICE
Specific Energy Consumption class SEC in average climate zone	-	NA
Specific Energy Consumption class SEC average		-2,7
Specific Energy Consumption class SEC cold	kWh/m ² year	-16
Specific Energy Consumption class SEC warm		5,0
Declared typology	-	RVU-U*
Type of drive	-	NA
Type of heat recovery system HRS	-	none
Thermal efficiency of heat recovery at reference air flow	%	NA
Maximum flow rate	m ³ /h	109
Electric power input of the fan drive, including any motor control equipment, at maximum flow rate	W	29,0
Sound power level LWA	LWA [DB(A)]	62
Reference flow rate	m ³ /s	0.0212
Reference pressure difference	Pa	95
SPI	W/(m ³ /h)	0.32765
Control factor CTRL	-	1
Control typology	-	manual
Maximum internal leakage rates	%	NA
Maximum external leakage rates	%	NA
Mixing rate	-	NA
Position and description of visual filter warning	-	NA
Airflow sensitivity to pressure variations at + 20 Pa and – 20 Pa	-	NA
Indoor/outdoor air tightness	m ³ /h	NA
Annual electricity consumption (AEC)	kWh electricity/year	451
AHS average Annual heating saved		1397
AHS cold Annual heating saved	kWh primary energy/year	2732
AHS warm Annual heating saved		632

* RVU-U: Unit Ventilation Residential - Unidirectional

** NRVU-U: Unit Ventilation Non Residential - Unidirectional

*** MSD: Multi-Speed Drive

NA: Not applicable

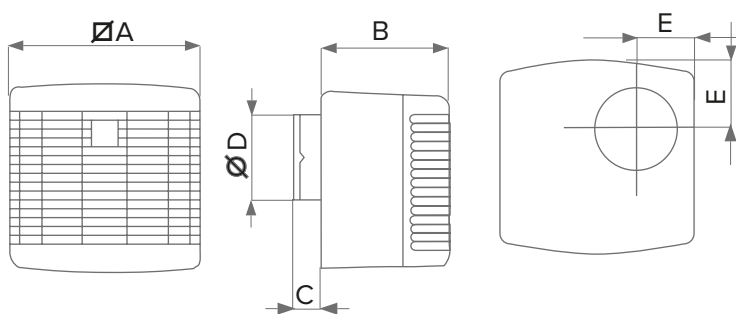
VORT PRESS RANGE
CENTRIFUGAL DUCT FANS

VORT PRESS RANGE | TECHNICAL DATA FOR REGULATION N° 1254/2014/UE

	UNIT OF MEASURE	VORT PRESS 220 LL - VORTICE PRESS 220 LL T
Supplier's name or trade mark	-	VORTICE
Declared typology	-	NRVU-U*
Type of drive	-	VSD***
Type of heat recovery system HRS	-	None
Thermal efficiency of heat recovery	-	NA
Nominal NRVU flow rate	m ³ /s	0,0586
Effective electric power input	kW	0,06
SFPint	W/(m ³ /h)	606,75
Face velocity at design flow rate	m/s	7,93134
Nominal external pressure ($\Delta p_{s,int}$)	Pa	110
Internal pressure drop of ventilation components ($\Delta p_{s,int}$)	Pa	160
Internal pressure drop of non-ventilation components ($\Delta p_{s,int}$)	Pa	0
Static efficiency of fans used in accordance with Regulation (EU) N. 3272011	%	26,4
Declared maximum internal leakage rate of the casing of ventilation units	%	NA
Declared maximum external leakage rate of the casing of ventilation units	%	NA
Energy performance energy or classification of the filters	-	NA
Description of visual filter warning	%	NA
Casing sound power level (LWA)	dB(A)	76

* RVU-U: Unit Ventilation Residential - Unidirectional
 ** NRVU-U: Unit Ventilation Non Residential - Unidirectional
 *** VSD: Variable-Speed Drive
 NA: Not applicable

DIMENSIONS

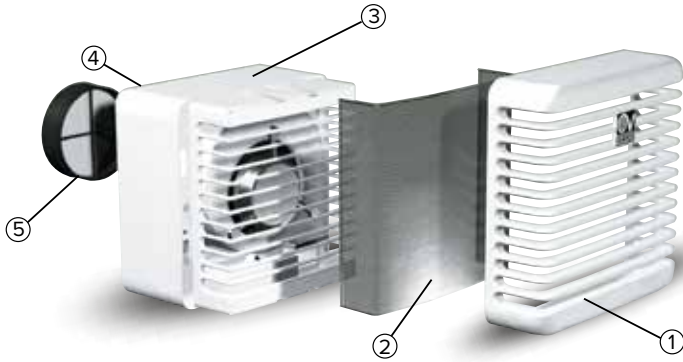


MODELS	A	B	C	Ø D	E
VORT PRESS 110 LL	202	147	30	97	60
VORT PRESS 220 LL	280	140	28	97	70

Dimensions (mm)

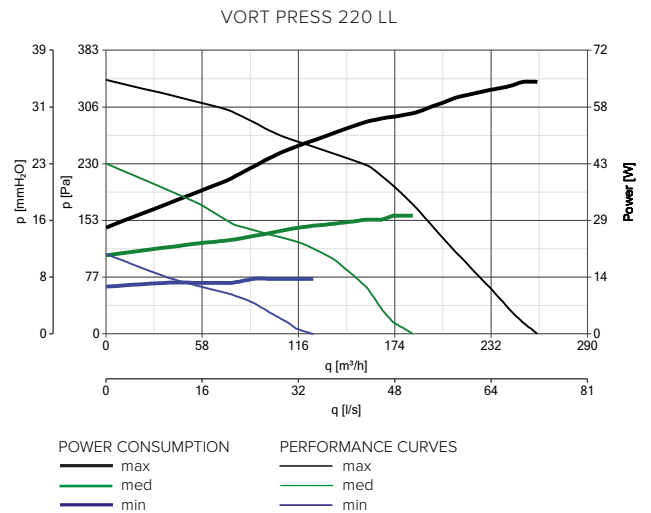
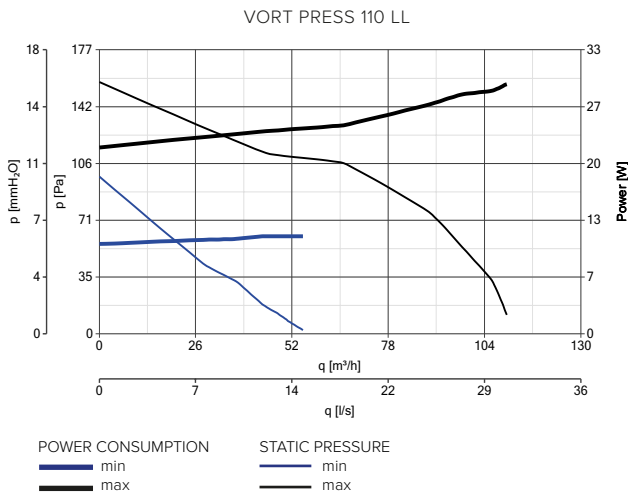


MAIN COMPONENTS



- ① Front grille.
- ② Metallic filter which can be removed and washed (dishwasher safe).
- ③ Made of rigid synthetic resin to guarantee high durability.
- ④ 100 mm dia. outlet spigot.
- ⑤ Silicon backdraught shutter to avoid back-flow when the unit is turned off.

PERFORMANCE CURVES



CONTROLLER

MODELS	DESCRIPTION	CODE	PRODUCT
	C 1.5 - Electronic speed controller 1.5 A	12966	ALL PRODUCTS
	SCNRB - Electronic speed controller built-in	12971	ALL PRODUCTS
	SCB KIT - Built-in controller adaptor for C 1.5	22481	12966
	POT-IT - Potentiometer equipped with On/Off switch, for installation in 503 Standard Box.	12826	11977 - 11978
	POT - Potentiometer for installation in Standard DIN box.	12828	11977 - 11978

ACCESSORIES ON REQUEST

MODELS	DESCRIPTION	CODE	PRODUCT
	AIR DEFLECTOR	100/4 22310	ALL PRODUCTS