

PUNTO EVO RANGE

WALL AXIAL FANS



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Wall axial fans **LONG LIFE** 30.000 h

Wall, ceiling and false-ceiling axial fans, ideal for ventilation in small and medium-size residential and commercial premises, also in the presence of medium length exhaust ducts.

Key features

- Very low noise emissions for high comfort of use.
- Very high (IP45) protection rating from dust and water jets, exceeding the requirements of use in Zone 1 bathroom installations.
- 2-speed motors designed to ensure low consumption.
- Sealed non-return valves to prevent unwanted inflows of air and bad odours when the device is switched off.
- Reduced exhaust sleeve depth, compatible with installation immediately upstream of a 90° bend.
- Sophisticated electronic equipment that meets a particularly wide range of needs.



IPX5






Version

- 10 models, with nominal diameter 100 and 120 mm, available in versions with a timer, with an advanced timer, with humidity sensor and presence sensor.

Technical features

- White, shock-proof, plastic resin (ABS) panels, prevents ageing caused by exposure to sunlight ("UV resistant").
- Shaded pole motors, heat protected, 2-speed with shafts mounted on ball bearings to guarantee long lasting (at least 30,000 h) continuous service at the maximum plate temperature. Speed adjustment using VORTICE accessory devices.
- Helico-centrifugal impellers optimised to ensure high performance, low consumption and low noise emissions, when coupled with underlying flow conditioners.
- Air-tight butterfly valve on the delivery spigots, to prevent unwanted inflows of air and bad odours when the device is switched off.
- Performance and safety certified by third party body (IMQ)
- Protection rating from dust and water: IP45.
- Class of electric isolation: II □ (earthing not required).

RANGE

Diam.	 BASIC LONG LIFE	 TIMER LONG LIFE	 TIMER EVOLUTO LONG LIFE	 TP HCS LONG LIFE	 PIR LONG LIFE
Ø100	11260 ME 100/4" LL	11264 ME 100/4" LL T	11261 ME 100/4" LL TP	11262 ME 100/4" LL TP HCS	11263 ME 100/4" LL PIR
Ø120	11270 ME 120/5" LL	11274 ME 120/5" LL T	11271 ME 120/5" LL TP	11272 ME 120/5" LL TP HCS	11273 ME 120/5" LL PIR



The **Basic models** is equipped with a 2-speed PCB.



T models equipped with electronic timer for automatic product switch-over from maximum to minimum speed after a pre-fixed period of time after your switch the light off. The delay can be set in the installation phase from 3'-20' (default setting 3'). Alternatively, if the device has been wired to operate at a single speed, the timer determines its delayed stop.



TP models equipped with electronic timer for delayed product switch-over to maximum and to minimum speed: the product running at minimum speed goes to maximum speed after a pre-set time (from 0" to 120", default 45"), after the light is switched on, and goes back to minimum speed after a pre-set amount of time (from 6' to 21', default 6'), from when you switch the light off. The advanced electronics of the TP models also permits (HOLIDAY function) for correct ventilation of the room even in the event of prolonged periods of non-use. It is in fact possible to program periodic (every 8, 12 or 24 h) operating cycles at maximum speed at durations that can be set at 6', 15', 18' or 21'. Alternatively, if the device has been wired to operate at a single speed, the timer commands its start and stop.



PIR models equipped with an IR presence sensor for automatic product switch-over from minimum to maximum speed in the presence of occupants in the serviced room. The board integrates an electronic timer for automatic return to minimum speed after the occupants have left the premises. The duration of the timer can be set at installation within the interval 3'-20' (default setting 3'). Alternatively, if the device has been wired to operate at a single speed, the presence sensor commands automatic start-up.



TP-HCS models equipped with a circuit board integrating the advanced timer of TP models combined with a relative humidity sensor (RH) that can be adjusted on 4 pre-set threshold levels (60%, 70%, 80%, 90 %, default 70%). In addition to the operating modes described with reference to the TP models, the TP-HCS versions allow for automatic product switch-over from minimum to maximum speed when the RH limit value has been exceeded. The device returns to operation at the minimum speed when the RH drops 15% below the threshold level. The advanced electronics of TP-HCS models also allows for automatic switch-over to maximum speed in the presence of sudden increases in the RH level (+ 20% in a time of no less than 10'). Alternatively, if the device has been wired to operate at a single speed, the RH sensor commands its start and stop.

TECHNICAL DATA

MODELS	V~50HZ	W min/max	A min/max	RPM min/max	MAX AIRFLOW		MAX PRESSURE		Lp dB(A)* 3m min/max	MAX °C	KG
					m³/h min/max	l/s min/max	mmH₂O min/max	Pa min/max			
ME 100/4" LL	220-240	5 9	0.039 0.052	1700 2240	65 95	18.1 26.4	2.5 4.7	22.52 46.09	20.8 26.9	50	0.60
ME 120/5" LL	220-240	10 13	0.060 0.080	1490 2070	120 175	33.3 48.6	2.3 5.0	22.56 49.04	24.0 32.3	50	0.77

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PUNTO EVO RANGE | TECHNICAL DATA FOR REGULATION N° 1254/2014/UE

	UNIT OF MEASURE	ME 100/4" LL	MF 150/6"
Supplier's name or trade mark	-	VORTICE	VORTICE
Specific Energy Consumption class SEC in average climate zone	-	NA*	NA*
Specific Energy Consumption class SEC average		-9.9	-9.9
Specific Energy Consumption class SEC cold	kWh/m ² year	-23.2	-23.3
Specific Energy Consumption class SEC warm		-2.2	-2.3
Declared typology	-	RVU-U*	RVU-U*
Type of drive	-	NA	NA
Type of heat recovery system HRS	-	none	none
Thermal efficiency of heat recovery at reference air flow	%	NA	NA
Maximum flow rate	m ³ /h	93	168
Electric power input of the fan drive, including any motor control equipment, at maximum flow rate	W	8.1	14.5
Sound power level LWA	LWA [DB(A)]	68	53
Reference flow rate	m ³ /s	0.0181	0.0327
Reference pressure difference	Pa	22	18
SPI	W/(m ³ /h)	0.11828	0.11735
Control factor CTRL	-	1	1
Control typology	-	manual	manuale
Maximum internal leakage rates	%	NA	NA
Maximum external leakage rates	%	NA	NA
Mixing rate	-	NA	NA
Position and description of visual filter warning	-	NA	NA
Airflow sensitivity to pressure variations at + 20 Pa and – 20 Pa	-	NA	NA
Indoor/outdoor air tightness	m ³ /h	NA	NA
Annual electricity consumption (AEC)	kWh electricity/year	163	162
AHS average Annual heating saved		1397	1397
AHS cold Annual heating saved	kWh primary energy/year	2732	2732
AHS warm Annual heating saved		632	632

* RVU-U: Unit Ventilation Residential - Unidirectional

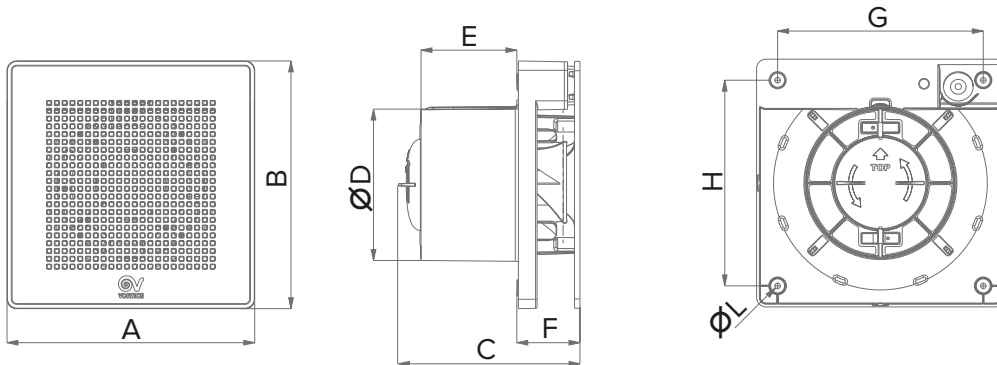
** NRVU-U: Unit Ventilation Non Residential - Unidirectional

*** MSD: Multi-Speed Drive

NA: Not applicable



DIMENSIONS



MODELS	A	B	C	Ø D	E	F	G	H	Ø L
ME 100/4" LL	159	159	116.5	98	61.5	40.5	132	132	3.5
ME 100/4" LL PIR	159	159	118	98	61.5	42	132	132	3.5
ME 120/5" LL	179	179	127	118	71	42.5	152	152	3.5
ME 120/5" LL PIR	179	179	128.5	118	71	44	152	152	3.5

Dimensions (mm)

EXPLODED VIEW

Motor holder made of anti-UV ABS thermoplastic material



Butterfly backdraught shutter built into the motor carrier

Flow conveyor able to reduce turbulence and optimize performance



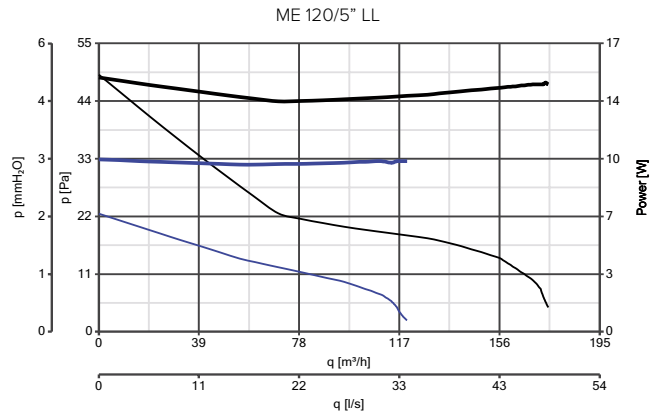
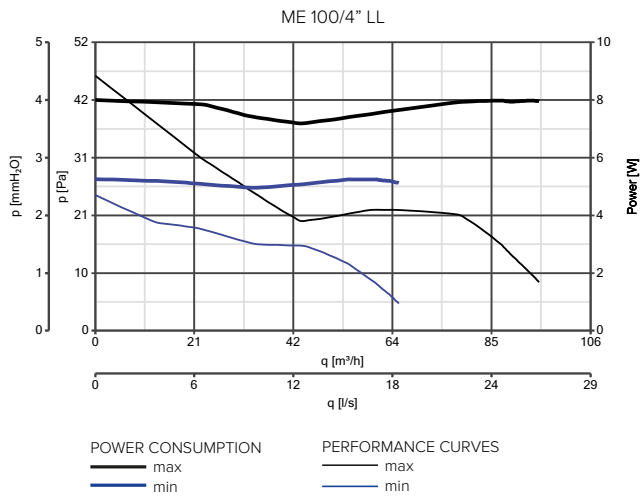
High efficiency helico-centrifugal impeller ensuring high performance for flow rate and pressure with low noise emissions

Front panel can easily be removed without tools



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PERFORMANCE CURVES



APPLICATIONS

