

# VORTICE VARIO RANGE

EXTRACT AND INTAKE AXIAL FANS  
SUITABLE FOR AIR EXTRACTION DIRECTLY TO THE OUTSIDE  
OFFERING A WIDE VARIETY OF INSTALLATION POSSIBILITIES



VENTILATION  
AIR CONDITIONING  
AIR CLEANING  
HEATING



CE IPX4 

**LONG LIFE 30.000 h**



# VORTICE VARIO

2



2

*Standard installation options:  
wall/window-mounted and built-in*

3

*Model sizes:  
Ø 150/6" - Ø 230/9" - Ø 300/12"*

2

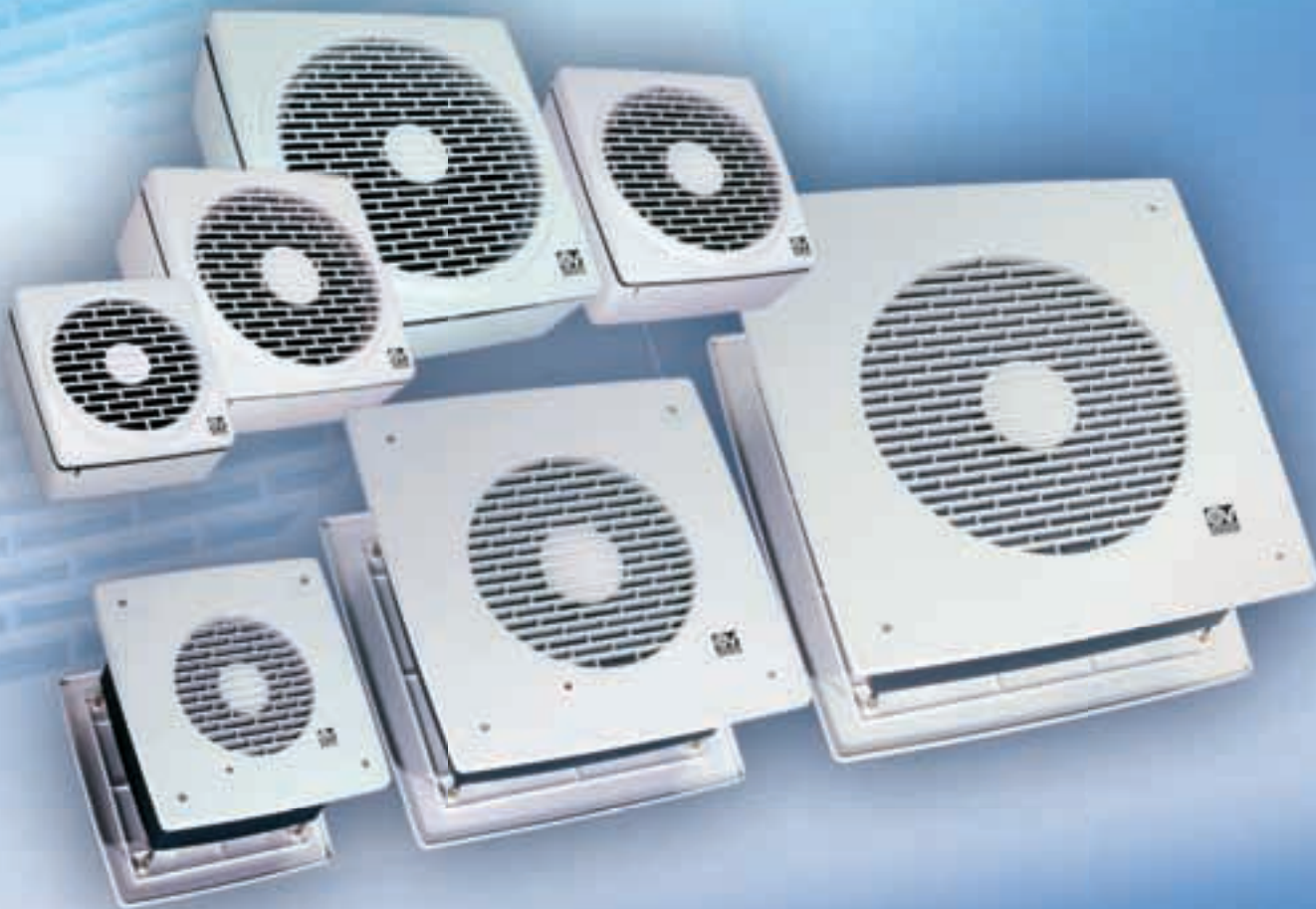
*Operating modes:  
automatic and manual (pull cord)*

8

*Kits for special applications*



VORTICE VARIO FANS PROVIDE A MODERN AND FLEXIBLE SOLUTION TO IMPROVE THE QUALITY OF AIR WE BREATHE DAILY IN ANY DOMESTIC OR COMMERCIAL ENVIRONMENT



- VILLAS
- DWELLINGS
- SHOPS & CAFÉS
- SPORTS CENTRE /GYMS
- RESTAURANTS

- PUBLIC HOUSES
- OFFICES
- SCHOOLS
- COMMUNITY HALLS
- AND MANY MORE...

**2**

Performance levels:  
normal (with bush bearings),  
LL-long life (with ball bearings)

**10**

Controller options:  
4 speed controllers  
1 infra-red remote control  
5 environmental controllers

VORTICE VARIO OFFERS A WIDE RANGE OF MODELS AND A VARIETY OF INSTALLATION POSSIBILITIES TO SUIT EVERY KIND OF VENTILATION REQUIREMENT

# VORTICE VARIO

4



## PRODUCT REFERENCES

**P**

**PULL CORD**  
Manual



**A**

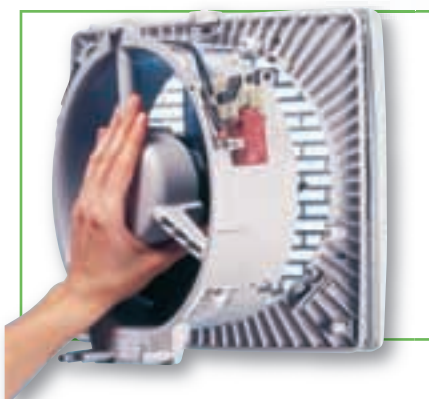
**AUTOMATIC**  
Automatic shutters

**R**

**REVERSIBLE**

**LL**

**LONG LIFE**  
with ball bearings



**S**

**SUPER**  
Boosted performance



**I**

**BUILT-IN**



### ● OPTIMAL ENERGY EFFICIENCY

The Vortice Vario models are among the best of their category in terms of performance and low energy consumption thanks to highly efficient impellers.

### ● CERTIFIED SILENT OPERATION



Great care has been taken to ensure extremely low noise levels. All technical data has been certified by TÜV.

### ● HIGH FLEXIBILITY

Vortice Vario fans are designed to provide high flexibility and a wide choice of applications in order to satisfy even the most demanding requirements.

### ● ITALIAN DESIGN

Of course design is always a must for Vortice. The stylish aesthetic appearance of Vortice Vario fans make them ideally suited for installation in all environments.

### ● LOW ENVIRONMENTAL IMPACT

Vortice Vario fans are carefully designed to provide a low environmental impact, using recyclable materials and following the new "Design for Disassembly" technique to provide easy and environmentally friendly disposal of components.

Vortice avoid polluting technologies in the production cycle, and even the packaging of the products adopts recycled paper and safe non polluting inks. Energy consumption is optimised both during production and operation. Acoustic pollution has also been minimised.

### ● QUICK AND EASY TO INSTALL

The whole range is manufactured to match high technology specifications and provide ease of installation. Based on this practical approach all installation procedures are significantly simplified to reduce time and save money during set-up and installation.

### ● OPERATING CONDITIONS

All Vortice Vario Fans are suitable for continuous operation at 50° C (max), with a Relative Humidity (RH) of up to 95% (max).

### ● OVERALL DIMENSIONS

The use of internal space is carefully optimised in order to significantly reduce the overall dimensions of the Vortice Vario range. This compact design ensures not only a high flexibility of installation, but allows the replacement of equivalent models of previous V range.

### ● HIGH-TECH IMPELLERS

The design and fine tuning phases of new Vortice Vario Range impellers are carried out in partnership with qualified Italian Aerodynamic University Institutes. This joint effort results in high performances, low energy consumption and highly reduced noise levels. Vortice Vario impellers are made in polypropylene reinforced with glass fibre to protect them from deformation during continuous stress.

### ● HIGH-QUALITY MATERIALS

The outer casing is made from shock-resistant UV stabilised ABS. Structural components in UV resistant ABS, internal components from shock resistant PS.

### ● MOTORS

Available both with bush and ball bearings, all motors have enclosed windings with a cover of galvanised stamped plate, 8 mm shaft diameter, gaskets made from EPDM to ensure good water protection. A thermal fuse protects against possible overheating.



### ● SAFETY MARKS AND CERTIFICATIONS



also IMQ (Italian Safety Institute) certified in compliance with EN 60335-2-80.

Vortice Vario fans are EC marked in accordance with the Low Voltage Directive EEC 73/23 and the Electromagnetic Compatibility Directive 89/336. All fans are

### ● CERTIFIED PERFORMANCES



Data and performances IMQ  
Performance certified  
(Only 220-240 V / 50-60 Hz versions)

# INSTALLATIONS

6



## Built-in wall mounting (with telescopic frame)

Model	Code	Kits required (codes) (5)	Wall thickness (min/max)
150/6" ARI	12613	none	220 ÷ 330
150/6" ARI LL S	12616	none	220 ÷ 330
230/9" ARI	12453	none	220 ÷ 330
230/9" ARI LL S	12456	none	220 ÷ 330
300/12" ARI	12413	none	220 ÷ 330
300/12" ARI LL S	12416	none	220 ÷ 330

## Built-in wall mounting (without telescopic frame)

Model	Code	Kits required (codes)	Wall thickness (min)
150/6" ARI	12613	none	135
150/6" ARI LL S	12616	none	135
230/9" ARI	12453	none	180
230/9" ARI LL S	12456	none	180
300/12" ARI	12413	none	210
300/12" ARI LL S	12416	none	210

## Built-in deep wall mounting

Model	Code	Kits required (codes)	Thickness min/max
150/6" ARI	12613	13015	260 ÷ 460
150/6" ARI LL S	12616	13015	260 ÷ 460
230/9" ARI	12453	13016	320 ÷ 500
230/9" ARI LL S	12456	13016	320 ÷ 500
300/12" ARI	12413	13017	375 ÷ 515
300/12" ARI LL S	12416	13017	375 ÷ 515

Duct included

## Built-in panel, ceiling and false ceiling mounting

Model	Code	Kits required (codes)
150/6" ARI	12613	13012
150/6" ARI LL S	12616	13012
230/9" ARI	12453	13012
230/9" ARI LL S	12456	13012
300/12" ARI	12413	13014
300/12" ARI LL S	12416	13014

- (1) No kit required for window/panels with thickness ranging from 3 to 38 mm
- (2) For installation in double-glazed(opening) window with thickness ranging from 30 to 43 mm
- (3) For installation on double (opening) window with thickness ranging from 230 to 300 mm
- (4) For installation on walls with thickness ranging from 38 to 300 mm
- (5) No kit is required for walls with thickness ranging from 135 to 210 mm



## Built-in wall mounted for remote application

Model	Code	Kits required (codes)
150/6" ARI	12613	13027 + 13012 + 13015
150/6" ARI LL S	12616	13027 + 13012 + 13015
230/9" ARI	12453	13028 + 13012 + 13016
230/9" ARI LL S	12456	13028 + 13012 + 13016
300/12" ARI	12413	13029 + 13014 + 13017
300/12" ARI LL S	12416	13029 + 13014 + 13017

Duct not included



## Built-in roof mounted for remote application

Model	Code	Kits required (codes)
150/6" ARI	12613	13001 + 13027 + 13012
150/6" ARI LL S	12616	13001 + 13027 + 13012
230/9" ARI	12453	13002 + 13028 + 13012
230/9" ARI LL S	12456	13002 + 13028 + 13012
300/12" ARI	12413	13003 + 13029 + 13014
300/12" ARI LL S	12416	13003 + 13029 + 13014

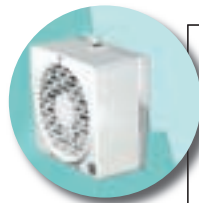
Duct not included



## Single-glazed window

Model	Code	Kits required (codes) (1)	Thickness (min/max)
150/6" P	12611/12617*	none	3 ÷ 38
150/6" P LL S	12614	none	3 ÷ 38
150/6" AR	12612/12618*	none	3 ÷ 38
150/6" AR LL S	12615	none	3 ÷ 38
230/9" P	12451/12457*	none	3 ÷ 38
230/9" P LL S	12454	none	3 ÷ 38
230/9" AR	12452/12458*	none	3 ÷ 38
230/9" AR LL S	12455	none	3 ÷ 38
300/12" AR	12412/12417*	none	3 ÷ 38
300/12" AR LL S	12415	none	3 ÷ 38

\*127 V 60 Hz



## Double-glazed window

Model	Code	Kits required (codes) (1)	Thickness (min/max)
150/6" P	12611/12617*	none	3 ÷ 38
150/6" P LL S	12614	none	3 ÷ 38
150/6" AR	12612/12618*	none	3 ÷ 38
150/6" AR LL S	12615	none	3 ÷ 38
230/9" P	12451/12457*	none	3 ÷ 38
230/9" P LL S	12454	none	3 ÷ 38
230/9" AR	12452/12458*	none	3 ÷ 38
230/9" AR LL S	12455	none	3 ÷ 38
300/12" AR	12412/12417*	none	3 ÷ 38
300/12" AR LL S	12415	none	3 ÷ 38

\*127 V 60 Hz



### Double-glazed (opening) window

Model	Code	Kits required (codes) (2)	Thickness (min/max)
150/6" P	12611/12617*	13021	30 ÷ 43
150/6" P LL S	12614	13021	30 ÷ 43
150/6" AR	12612/12618*	13021	30 ÷ 43
150/6" AR LL S	12615	13021	30 ÷ 43
230/9" P	12451/12457*	13022	30 ÷ 43
230/9" P LL S	12454	13022	30 ÷ 43
230/9" AR	12452/12458*	13022	30 ÷ 43
230/9" AR LL S	12455	13022	30 ÷ 43
300/12" AR	12412/12417*	13023	30 ÷ 43
300/12" AR LL S	12415	13023	30 ÷ 43

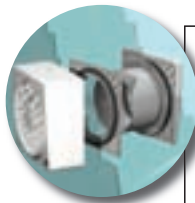
\*127 V 60 Hz



### Panel/wall mounting with darkroom cowl

Model	Code	Kits required (codes)
230/9" P	12451/12457*	panel: 13004 wall: 13004 + 13018
230/9" P LL S	12454	panel: 13004 wall: 13004 + 13018
230/9" AR	12452/12458*	panel: 13004 wall: 13004 + 13018
230/9" AR LL S	12455	panel: 13004 wall: 13004 + 13018

\*127 V 60 Hz



### Double (opening) window secondary-glazed

Model	Code	Kits required (codes) (3)	Thickness (min/max)
150/6" P	12611/12617*	13024	230 ÷ 300
150/6" P LL S	12614	13024	230 ÷ 300
150/6" AR	12612/12618*	13024	230 ÷ 300
150/6" AR LL S	12615	13024	230 ÷ 300
230/9" P	12451/12457*	13025	230 ÷ 300
230/9" P LL S	12454	13025	230 ÷ 300
230/9" AR	12452/12458*	13025	230 ÷ 300
230/9" AR LL S	12455	13025	230 ÷ 300
300/12" AR	12412/12417*	13026	230 ÷ 300
300/12" AR LL S	12415	13026	230 ÷ 300

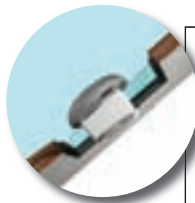
\*127 V 60 Hz



### Wall mounting with external cowl as a wind baffle

Model	Code	Kits required (codes)	Thickness (min/max)
150/6" P	12611/12617*	13001 + 13018	31 ÷ 300
150/6" P LL S	12614	13001 + 13018	31 ÷ 300
150/6" AR	12612/12618*	13001 + 13018	31 ÷ 300
150/6" AR LL S	12615	13001 + 13018	31 ÷ 300
230/9" P	12451/12457*	13002 + 13018	31 ÷ 300
230/9" P LL S	12454	13002 + 13018	31 ÷ 300
230/9" AR	12452/12458*	13002 + 13018	31 ÷ 300
230/9" AR LL S	12455	13002 + 13018	31 ÷ 300
300/12" AR	12412/12417*	13003 + 13018	31 ÷ 300
300/12" AR LL S	12415	13003 + 13018	31 ÷ 300

\*127 V 60 Hz



### Roof mounting on window/panel

Model	Code	Kits required (codes)
150/6" AR	12612/12618*	13001
150/6" AR LL S	12615	13001
230/9" AR	12452/12458*	13002
230/9" AR LL S	12455	13002
300/12" AR	12412/12417*	13003
300/12" AR LL S	12415	13003

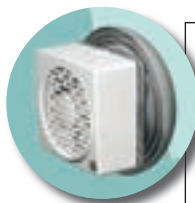
\*127 V 60 Hz



### Wall mounting

Model	Code	Kits required (codes) (4)	Thickness (min/max)
150/6" P	12611/12617*	13018	38 ÷ 300
150/6" P LL S	12614	13018	38 ÷ 300
150/6" AR	12612/12618*	13018	38 ÷ 300
150/6" AR LL S	12615	13018	38 ÷ 300
230/9" P	12451/12457*	13018	38 ÷ 300
230/9" P LL S	12454	13018	38 ÷ 300
230/9" AR	12452/12458*	13018	38 ÷ 300
230/9" AR LL S	12455	13018	38 ÷ 300
300/12" AR	12412/12417*	13018	38 ÷ 300
300/12" AR LL S	12415	13018	38 ÷ 300

\*127 V 60 Hz



### Window/panel mounting with external cowl as a wind baffle

Model	Code	Kits required (codes)
150/6" P	12611/12617*	13001
150/6" P LL S	12614	13001
150/6" AR	12612/12618*	13001
150/6" AR LL S	12615	13001
230/9" P	12451/12457*	13002
230/9" P LL S	12454	13002
230/9" AR	12452/12458*	13002
230/9" AR LL S	12455	13002
300/12" AR	12412/12417*	13003
300/12" AR LL S	12415	13003

\*127 V 60 Hz



### Wall mounting for remote application

Model	Code	Kits required (codes)
150/6" AR	12612/12618*	13001+13008 +2 items 13027
150/6" AR LL S	12615	13001+13008 +2 items 13027
230/9" AR	12452/12458*	13002+13008 +2 items 13028
230/9" AR LL S	12455	13002+13008 +2 items 13028
300/12" AR	12412/12417*	13003+13008 +2 items 13029
300/12" AR LL S	12415	13003+13008 +2 items 13029

\*127 V 60 Hz - Duct not included



# TECHNICAL SPECIFICATIONS

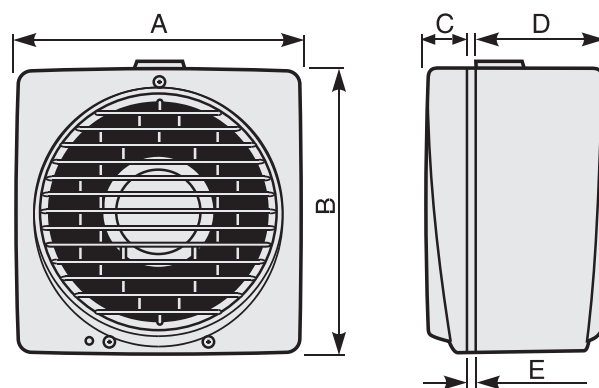
8

Product	Product	Code	V	Hz	W	A	m <sup>3</sup> /h extract (50 hz)	m <sup>3</sup> /h intake (50 hz)	rpm/1' extract (50 hz)
	150/6" P	12611	220-240	50/60	18	0,1	235	no	1340
		12617	127	60	18	0,14	235	no	1300
	150/6" P LL S	12614	220-240	50/60	32	0,16	380	no	2110
	150/6" AR	12612	220-240	50/60	25	0,11	235	150	1340
		12618	127	60	25	0,22	235	140	1300
	150/6" AR LL S	12615	220/240	50/60	35	0,17	380	215	2110
	150/6" ARI	12613	220-240	50/60	25	0,11	220	130	1330
150/6" ARI LL S	12616	220-240	50/60	35	0,17	350	200	2080	
	230/9" P	12451	220-240	50/60	22	0,1	480	no	790
		12457	127	60	25	0,22	480	no	900
	230/9" P LL S	12454	220-240	50/60	32/38	0,18	700	no	1200
	230/9" AR	12452	220-240	50/60	26	0,13	480	310	790
		12458	127	60	27	0,23	480	310	900
	230/9" AR LL S	12455	220-240	50/60	35/40	0,19	700	370	1200
	230/9" ARI	12453	220-240	50/60	26	0,13	450	300	810
230/9" ARI LL S	12456	220-240	50/60	35/40	0,19	680	350	1160	
	300/12" AR	12412	220-240	50/60	45	0,21	1050	700	840
		12417	127	60	50	0,40	1050	700	710
	300/12" AR LL S	12415	220-240	50/60	75/90	0,41	1650	920	1215
	300/12" ARI	12413	220-240	50/60	45	0,21	1200	850	850
300/12" ARI LL S	12416	220-240	50/60	75/90	0,41	1750	1000	1230	



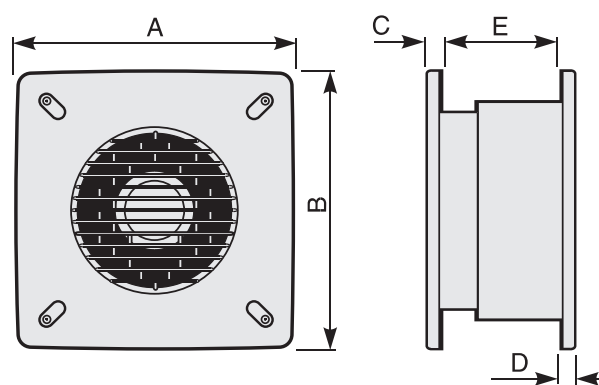
rpm/1' intake (50 hz)	Lp dB(A) 3m (extract)	Approvals	Kg	IP	Insulation	Max. amb. temp. °C
no	37,5	Ⓜ	2,07	X4	□ d. II	50
no	37,5	-	2,07	X4	□ d. II	50
no	49,6	Ⓜ	2,07	X4	□ d. II	50
2040	37,5	Ⓜ	2,07	X4	□ d. II	50
1760	37,5	-	2,07	X4	□ d. II	50
2520	49,6	Ⓜ	2,07	X4	□ d. II	50
1880	38,2	Ⓜ	2,52	X4	□ d. II	50
2460	49,1	Ⓜ	2,52	X4	□ d. II	50
no	35,6	Ⓜ	3,45	X4	□ d. II	50
no	35,6	-	3,45	X4	□ d. II	50
no	43,6	Ⓜ	3,45	X4	□ d. II	50
1080	35,6	Ⓜ	3,45	X4	□ d. II	50
1195	35,6	-	3,45	X4	□ d. II	50
1300	43,6	Ⓜ	3,45	X4	□ d. II	50
1080	35,7	Ⓜ	3,88	X4	□ d. II	50
1260	45,3	Ⓜ	3,88	X4	□ d. II	50
1085	40,2	Ⓜ	6,13	X4	□ d. II	50 - 40(60Hz)
900	40,2	-	6,13	X4	□ d. II	50
1280	53,6	Ⓜ	6,13	X4	□ d. II	50-40(60Hz)
1150	40,7	Ⓜ	7,2	X4	□ d. II	50-40(60Hz)
1310	53,5	Ⓜ	7,2	X4	□ d. II	50-40(60Hz)

**Dimensions Windows/wall**



Model	A	B	C	D	E	∅ Window/Wall
150/6"	215	218	31	97,5	2	185 - 190
230/9"	294	297	31	130	2	257 - 262
300/12"	390	393	31	147	2	324 - 329

**Dimensions Built-in**



Model	A	B	C	D	E	∅ Window/Wall
150/6"	300	300	9,5	10,5	135	260 - 265
230/9"	400	400	10	11	180	335 - 340
300/12"	495	495	10,5	11,5	210	435 - 440

# INSTALLATION OPTIONS AND REQUIRED KITS

10

Product	BUILT-IN							
	Code	Wall	Deep wall	Panel	Ceiling	False ceiling	Wall mounted for remote application (duct not included)	Roof-mounted or remote application (duct not included)
Number of required kits		1	1			1	3	3
150/6" P	12611/12617*	13018						
150/6" P LL S	12614	13018						
150/6" AR	12612/12618*	13018						
150/6" AR LL S	12615	13018						
150/6" ARI	12613		13015	13012	13012	13012	13027+13012+13015	13001+13027+13012
150/6" ARI LL S	12616		13015	13012	13012	13012	13027+13012+13015	13001+13027+13012
230/9" P	12451/12457*	13018						
230/9" P LL S	12454	13018						
230/9" AR	12452/12458*	13018						
230/9" AR LL S	12455	13018						
230/9" ARI	12453		13016	13012	13012	13012	13028+13012+13016	13002+13028+13012
230/9" ARI LL S	12456		13016	13012	13012	13012	13028+13012+13016	13002+13028+13012
300/12" AR	12412/12417*	13018						
300/12" AR LL S	12415	13018						
300/12" ARI	12413		13017	13014	13014	13014	13029+13014+13017	13003+13029+13014
300/12" ARI LL S	12416		13017	13014	13014	13014	13029+13014+13017	13003+13029+13014

\* 127 V - 60 Hz

## KITS AVAILABLE

OPTIONAL KITS FOR SPECIAL INSTALLATIONS ARE AVAILABLE ON REQUEST

### Telescopic frame for wall mounting

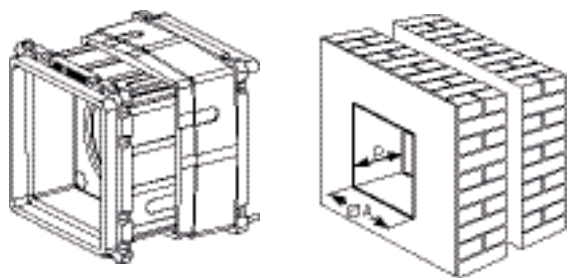
Model	Code	Description
Kit MU	13018	Wall mounting kit with rods and fixings
Kit FF 150/6"	13024	Double opening window kit, Mod. 150/6" (including flanges for protective grille holder and double window, gaskets, protective grille, duct and fixings)
Kit FF 230/9"	13025	Double opening window kit, Mod. 230/9" (including flanges for protective grille holder and double window, gaskets, protective grille, duct and fixings)
Kit FF 300/12"	13026	Double opening window kit, Mod. 300/12" (including flanges for protective grille holder and double window, gaskets, protective grille, duct and fixings)
Kit VV 150/6"	13021	Double opening window, secondary-glazed kit, Mod. 150/6" (including flanges for protective grille holder and secondary glazing, gaskets, protective grille, duct and fixings)
Kit VV 230/9"	13022	Double opening window, secondary-glazed kit, Mod. 230/9" (including flanges for protective grille holder and secondary glazing, gaskets, protective grille, duct and fixings)
Kit VV 300/12"	13023	Double opening window, secondary-glazed kit, Mod. 300/12" (including flanges for protective grille holder and secondary glazing, gaskets, protective grille, duct and fixings)
Kit TE 150/6"	13001	Roof Cowl/Wind Baffle kit, Mod. 150/6" (including external roof cowl and base, gasket, and fixings)
Kit TE 230/9"	13002	Roof Cowl/Wind Baffle kit, Mod. 230/9" (including external roof cowl and base, gasket, and fixings)
Kit TE 300/12"	13003	Roof cowl/wind baffle kit, Mod. 300/12" (including external roof cowl and base, gasket and fixings)
Kit ML 150/6"	13015	Deep wall installation kit, Mod. 150/6" (including flush-mounting frame, and duct)
Kit ML 230/9"	13016	Deep wall installation kit, Mod. 230/9" (including flush-mounting frame and duct)
Kit ML 300/12"	13017	Deep wall installation kit, Mod. 300/12" (including flush-mounting frame, and duct)
Kit SO 150/6" - 230/9"	13012	Ceiling, false ceiling and panel kit, Mod. 150/6" and 230/9" (including 2 brackets and fixings)
Kit SO 300/12"	13014	Ceiling, false ceiling and panel kit, Mod. 300/12" (including 4 ceiling brackets and fixings)
Kit TC 150/6"	13027	Spigot Plate for remote application, Mod. 150/6" (including flange for duct, gasket and fixings)
Kit TC 230/9"	13028	Spigot Plate for remote application, Mod. 230/9" (including flange for duct, gasket and fixings)
Kit TC 300/12"	13029	Spigot Plate for remote application, Mod. 300/12" (including flange for duct, gasket and fixings)
Kit SA 230/9"	13004	Darkroom cowl kit, Mod. 230/9" (external baffle and base, gasket) - UV stabilized material, painted with dark, non-reflective paint

WINDOW				WINDOW			
Double-glazed (opening) window	Double (opening) window secondary-glazing	Roof	Window-panel mounted with darkroom cowl	Wall-mounted with darkroom cowl	Wall-mounted with external cowl	Wall-mounted	Wall mounted for remote application
1	1	1	1	2	2	1	4
13021	13024				13001+13018	13018	
13021	13024				13001+13018	13018	
13021	13024	13001			13001+13018	13018	13001+13008+2 items 13027
13021	13024	13001			13001+13018	13018	13001+13008+2 items 13027
13022	13025		13004	13004+13018	13002+13018	13018	
13022	13025		13004	13004+13018	13002+13018	13018	
13022	13025	13002	13004	13004+13018	13002+13018	13018	13002+13008+2 items 13028
13022	13025	13002	13004	13004+13018	13002+13018	13018	13002+13008+2 items 13028
13023	13026	13003			13003+13018	13018	13003+13008+2 items 13029
13023	13026	13003			13003+13018	13018	13003+13008+2 items 13029

## WALL MOUNTING ACCESSORY INCLUDED IN ALL BUILT-IN MODELS

### Telescopic frame for wall mounting

This frame is made of expanded polystyrene and facilitates wall mounting of the Vortice Vario built-in models.



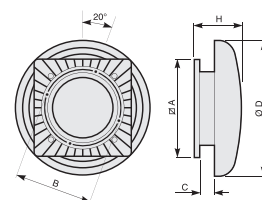
## ACCESSORIES (AVAILABLE ONLY IN UK)

Code	Description
<b>Ducting</b>	
8501	175 mm flexible duct 3m length
8511	175 mm flexible duct 10m length
8502	243 mm flexible duct 3m length
8512	243 mm flexible duct 10m length
8503	305 mm flexible duct 3m length
8513	305 mm flexible duct 10m length
<b>Flat roof upstand</b>	
8558	Flat Roof Upstand 150/6
8559	Flat Roof Upstand 230/9
8560	Flat Roof Upstand 300/12
<b>Soaker sheet with integral upstand</b>	
8550	Soaker Sheet with integral upstand 150/6
8551	Soaker Sheet with integral upstand 230/9

## DIMENSIONS (mm)

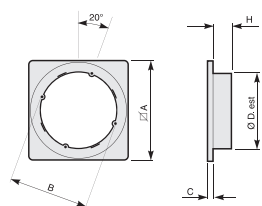
### Roof cowl kit

Model	code	øD	∠A	B	C	H
150/6"	13001	300	215	175	28	111
230/9"	13002	400	294	249	30	145
300/12"	13003	534	390	316	33	181



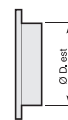
### SpigotPlate

Model	code	ø D	∠A	B	C	H
150/6"	13027	171	215	175	8	30
230/9"	13028	240	294	249	10	30
300/12"	13029	300	390	316	12	30

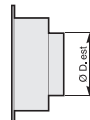


### Duct diameter for flush-mounting frame

Model	code	ø D ext
150/6"	13027	171
230/9"	13028	240
300/12"	13029	300



Model	code	ø D ext
150/6"	13015	171
230/9"	13016	240
300/12"	13017	300



**Diameter of PVC ducts**  
Suitable for Vortice applications.  
With the following dimensions.

Model	ø D int	ø D ext	thickn.
150/6"	171	215	175
230/9"	240	294	249
300/12"	300	390	316

**Diameter of aluminium flexible ducts**  
Suitable for Vortice applications.  
With the following internal diameters.

Model	ø D int
150/6"	171
230/9"	240
300/12"	300



# CONTROLLERS

12

Wall mounted reversible speed controllers suitable for use with the automatic Vortice Vario models



- TELEVARIO - code 22597**
- Infrared remote control and speed controller
  - 3 speeds
  - On/Off
  - Reversible
  - Timer
  - Televario can also be recessed using a suitable backbox



- CR5 - code 12943**
- 5 speed controller
  - On/Off
  - Reversible
  - Can be used to regulate more than one fan.
  - Maximum load 100 W



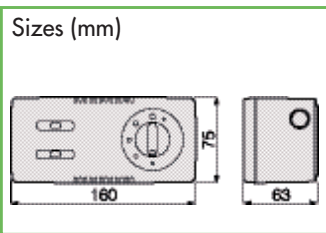
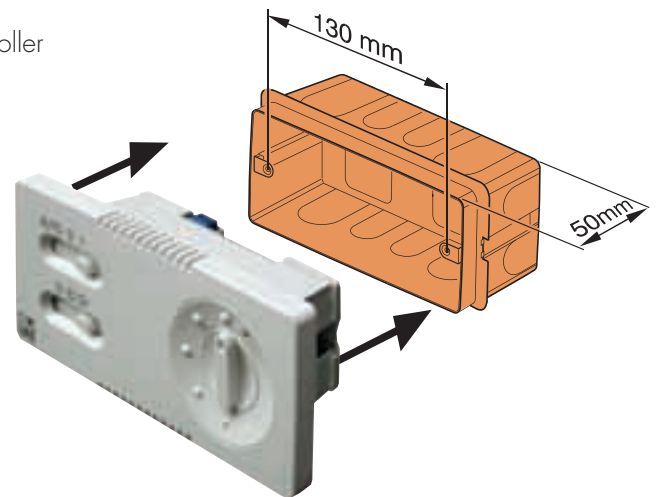
- CREN - code 12944**
- Variable electronic speed controller
  - On/Off
  - Reversible
  - Natural Ventilation
  - Can be used to regulate more than one fan
  - Maximum load 1,2 A



- CRN - code 12945**
- On/Off
  - Reversible
  - Natural Ventilation
  - Can be used to regulate more than one fan
  - Maximum load 100 W



- CR5N - code 12941**
- 5 speed controller
  - On/Off
  - Reversible
  - Natural Ventilation
  - Can be used to regulate more than one fan
  - Maximum load 100 W



- Supply power: 220-240 V
- Frequency: 50/60Hz
- Operating temperature: 50 °C
- Protection class: IP20
- The controller can also be recessed using a backbox of harmonised size mm 130x50 (not included)

# ENVIRONMENTAL SENSORS

Environmental sensors are designed to detect specific environmental conditions (humidity, temperature, presence of a moving body and air quality) and suitable for use with all Vortice Vario models. These sensors can also be connected to the CR range of Vario speed controllers



**C HCS-HUMIDITY  
code 12994**

Measures ambient relative humidity (R.H.), and starts the Vortice Vario fan when the R.H. exceeds 65%. The sensor can also be

wired to allow the unit to be switched on when the R.H. is below 65%, and incorporates an over-run timer (adjustable between 3 and 20 minutes).



**C PIR- MOVEMENT  
DETECTOR  
code 12998**

Detects the presence of a moving body within its sensor range, and starts the fan automatically. The built-in over-run timer can be adjusted between 3 and 20 minutes.



**C TEMP-TEMPERATURE  
code 12992**

Measures ambient room temperature, and starts the Vortice Vario fan when the temperature exceeds the preset value. Once the temperature drops below

the preset value, the unit will over-run for between 3 and 20 minutes (dependent on setting).



**C TIMER - code 12999**

Adjustable over-run timer (adjustable between 3 and 20 minutes).

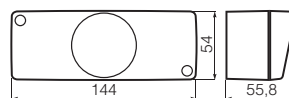


**C SMOKE  
code 12993**

Measures the air quality, detecting the presence of cigarette smoke, odours and other pollutants, and starts the Vortice Vario fan when the concentration

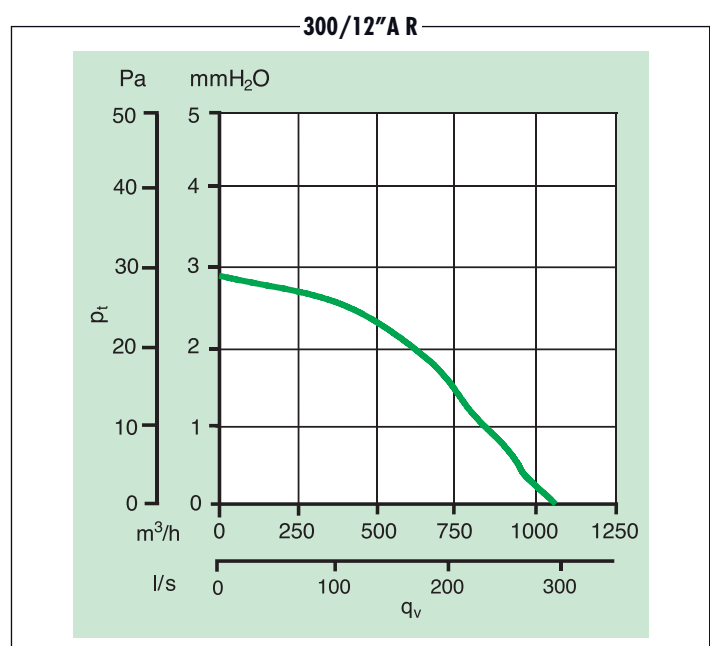
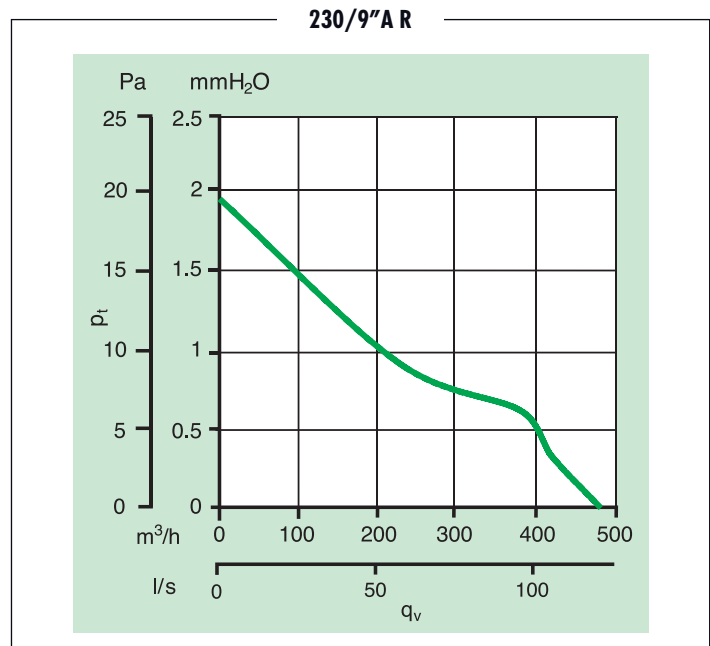
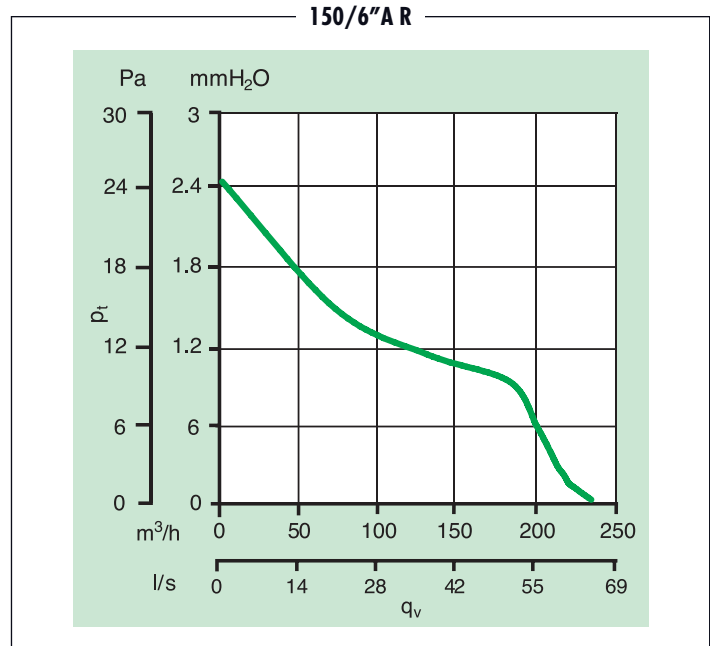
of pollutants exceeds the preset value. The unit will also over-run for between 3 and 20 minutes (dependent on setting).

**Sizes (mm)**



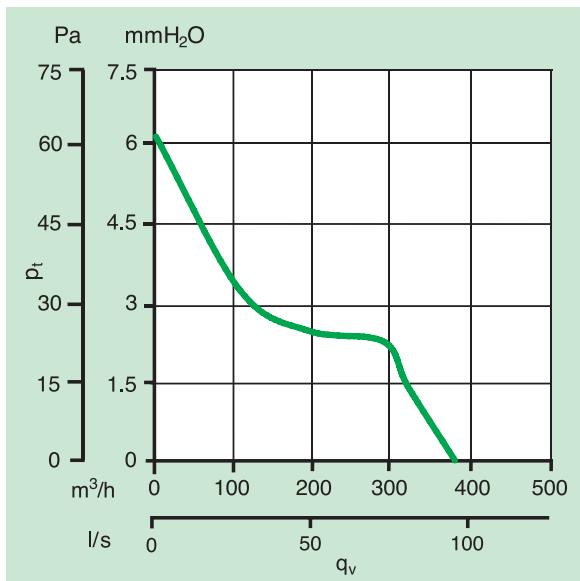
- Supply power: 220-240 V
- Frequency: 50/60Hz
- Maximum load: 3 A
- Operating temperature: 50 °C
- Protection class: IP20

# PERFORMANCE CURVES

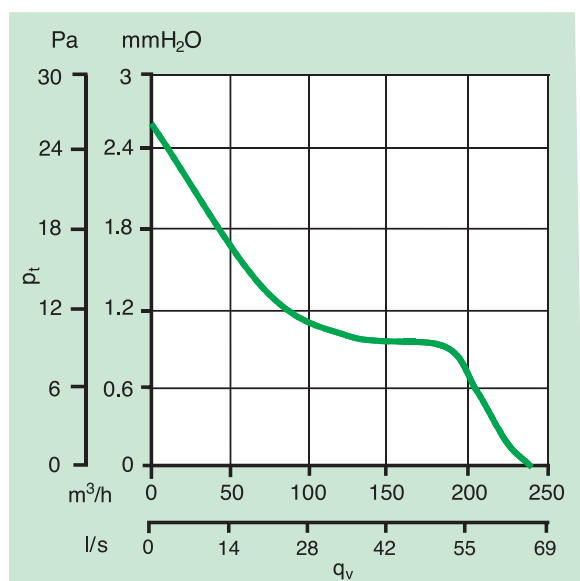




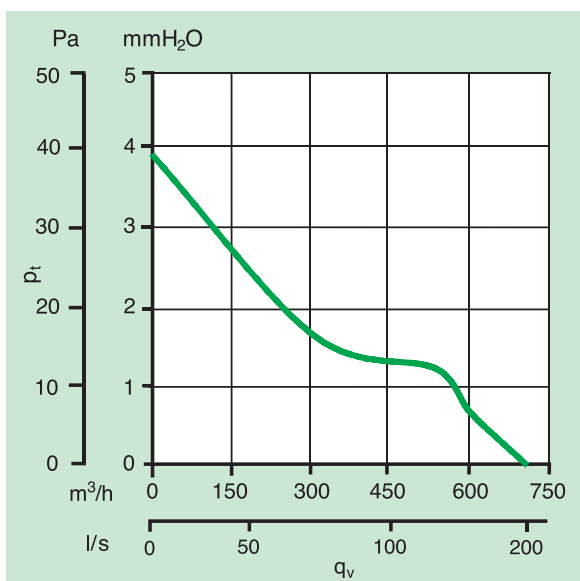
150/6" AR LL S



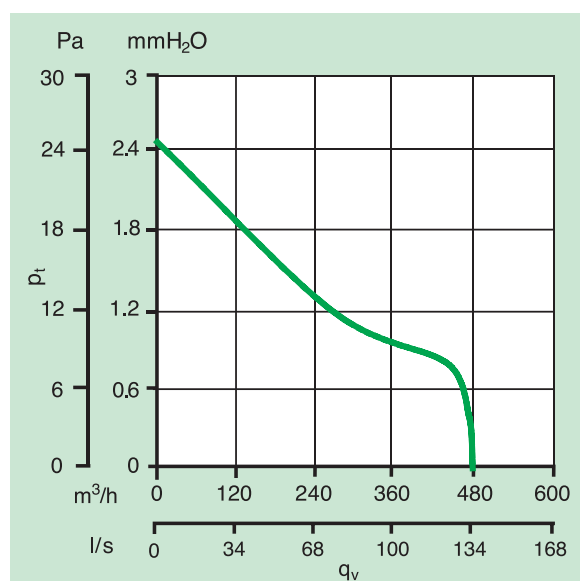
150/6" P - 150/6" AR - 127 V 60Hz



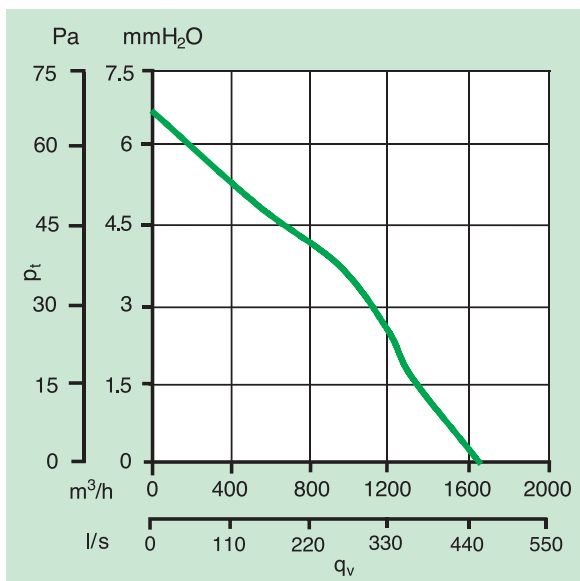
230/9" AR LL S



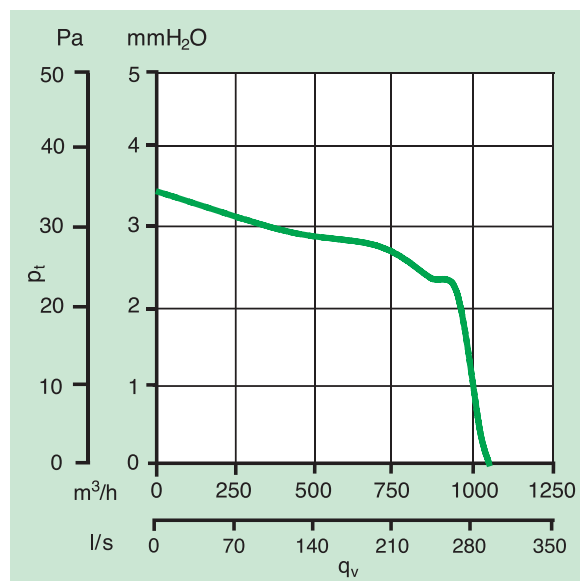
230/9" P - 230/9 AR - 127 V 60 Hz



300/12" AR LL S



300/12" AR - 127 V 60 Hz



# CERTIFICATIONS



Code 5.170.084.274

02/09

Vortice Elettrosociali Sp.A  
 Strada Cerca, 2  
 Frazione di Zoate  
 20067 Tribiano (Milano)  
 Tel. (+39) 02 906991  
 Fax (+39) 02 90699314  
 Italia  
[www.vortice-export.com](http://www.vortice-export.com)  
[www.vortice.com](http://www.vortice.com)  
[export@vortice-italy.com](mailto:export@vortice-italy.com)

Vortice France  
 72, Rue Baratte-Cholet  
 94106 Saint Maur  
 Cedex  
 Tel. (+33) 1.55.12.50.00  
 Fax (+33) 1.55.12.50.01  
 France  
[www.vortice-france.com](http://www.vortice-france.com)  
[contact@vortice-france.com](mailto:contact@vortice-france.com)

Vortice Limited  
 Beeches House-Eastern Avenue  
 Burton on Trent  
 DE13 0BB  
 Tel. (+44) 1283-49.29.49  
 Fax (+44) 1283-54.41.21  
 United Kingdom  
[www.vortice.ltd.uk](http://www.vortice.ltd.uk)  
[sales@vortice.ltd.uk](mailto:sales@vortice.ltd.uk)

