



### VORTICE VARIO RANGE

#### Wall/window reversible axial fans

Manual and automatic version unidirectional and reversible axial fans, designed for wall or glass installation in domestic or commercial premises subjected to heavy-duty daily use.

#### Version

- 7 models, with nominal diameter between 150 and 300 mm, in unidirectional and reversible versions, driven by bushing and bearing motors, with manual and automatic drive closing fins.

#### Key features

- Wide range of possible alternative installations (windows, walls, false-ceilings, roofs, dark rooms, etc.) thanks to the optional accessories available.
- Easy, fast installation.
- Elegant, "Intel Design" and "Design Index Adi" award-winning design.
- Suitable for bathroom installation.

#### Technical features

- White, shock-proof, plastic resin (ABS) panels, prevents ageing caused by exposure to sunlight ("UV resistant").
- Heat protected motors with shafts mounted on bushings with self-centring and self-lubricating neck to favour low sound emissions, or on ball bearings LL models to ensure long lasting (at least 30,000 h) continuous service at the maximum plate temperature.
- Axial impellers moulded in plastic resin, resistant to aggressive agents.
- Possibility of combining with a timer and temperature, relative humidity, smoke and presence sensors (optional).
- Fully compliant with Reg. No. 327/2011/EU.
- Protection rating from dust and water: IPX4.
- Class of electric isolation: II □ (earthing not required).

#### TECHNICAL DATA

MODELS	CODE	V <sub>n</sub> 50/60HZ	W max	A max	RPM max	MAX AIRFLOW		Lp dB(A)* 3m max	MAX °C**	KG
						m³/h	l/s			
VORTICE 150/6" P	12611	220-240	18	0.10	1340	235	65.3	37.5	50	2.07
VORTICE 150/6" AR	12612	220-240	25	0.11	1340 <sup>(1)</sup> 2040 <sup>(2)</sup>	235 <sup>(1)</sup> 150 <sup>(2)</sup>	65.3 <sup>(1)</sup> 41.7 <sup>(2)</sup>	37.5	50	2.07
VORTICE 150/6" AR LL S	12 615	220-240	35	0.17	2110 <sup>(2)</sup> 2520 <sup>(1)</sup>	380 <sup>(2)</sup> 215 <sup>(1)</sup>	105.6 <sup>(2)</sup> 59.7 <sup>(1)</sup>	49.6	50	2.07
VORTICE 150/6" P LL S	12614	220-240	32	0.16	2110	380	105.6	46.9	50	2.07
VORTICE 230/9" P	12451	220-240	22	0.10	790	480	133	35.6	50	3.45
VORTICE 230/9" AR	12452	220-240	26	0.13	790 <sup>(1)</sup> 1080 <sup>(2)</sup>	480 <sup>(1)</sup> 310 <sup>(2)</sup>	133 <sup>(1)</sup> 86 <sup>(2)</sup>	35.6	50	3.45
VORTICE 230/9" P LL S	12454	220-240	32 (50 Hz) 38 (60 Hz)	0.18	1200	700	194.4	43.6	50	3.45
VORTICE 230/9" AR LL S	12455	220-240	35 (50 Hz) 40 (60 Hz)	0.19	1200 <sup>(1)</sup> 1300 <sup>(2)</sup>	700 <sup>(1)</sup> 370 <sup>(2)</sup>	194.4 <sup>(1)</sup> 102.8 <sup>(2)</sup>	43.6	50	3.45
VORTICE 300/12" AR	12412	220-240	45	0.21	840 <sup>(1)</sup> 1085 <sup>(2)</sup>	1050 <sup>(1)</sup> 700 <sup>(2)</sup>	292 <sup>(1)</sup> 194.4 <sup>(2)</sup>	40.2	50 (50 Hz) 40 (60 Hz)	6.13
VORTICE 300/12" AR LL S	12415	220-240	75 (50 Hz) 90 (60 Hz)	0.41	1215 <sup>(1)</sup> 1280 <sup>(2)</sup>	1650 <sup>(1)</sup> 920 <sup>(2)</sup>	458.3 <sup>(1)</sup> 255.6 <sup>(2)</sup>	53.6	50 (50 Hz) 40 (60 Hz)	6.13

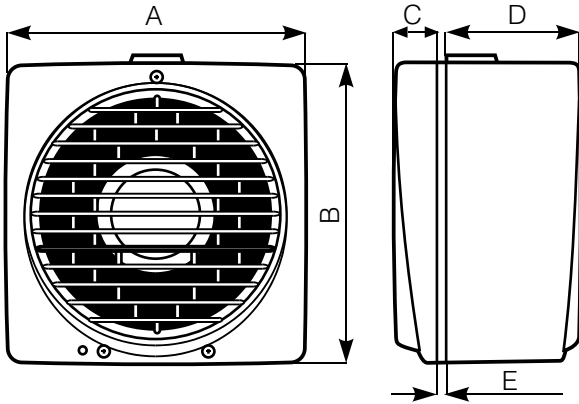
<sup>(1)</sup> Intake - <sup>(2)</sup> Extract

Legend: P= Pull Cord, A= Automatic, R= Reversible, LL= Long Life, S= High Performance





DIMENSIONS

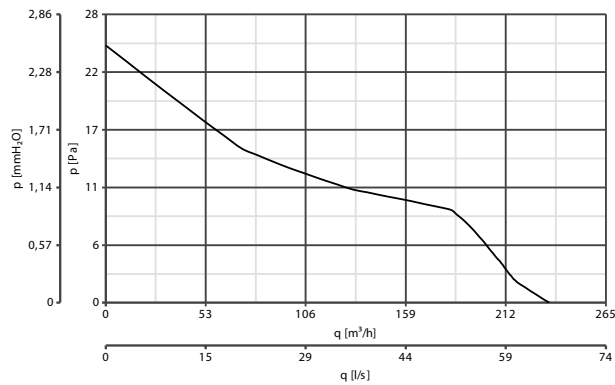


MODELS	A	B	C	D	E MIN/MAX	HOLE DIA Ø
VORTICE 150/6"	215	218	31	97,5	2/38	185÷190
VORTICE 230/9"	294	297	31	130	2/38	257÷262
VORTICE 300/12"	390	393	31	147	2/38	324÷329

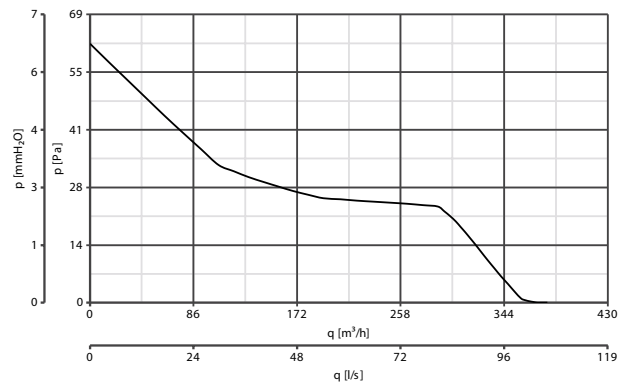
Dimensions (mm)

PERFORMANCE CURVES

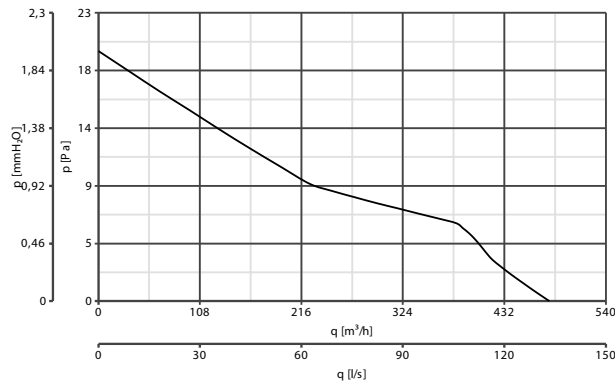
150/6" P - 150/6" AR



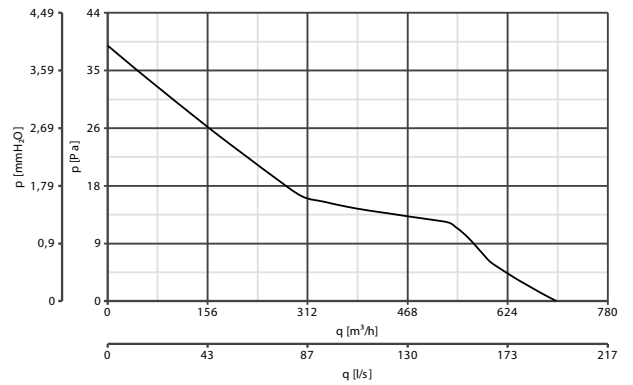
150/6" P AR LL S - 150/6" AR LL S - HIGH PERFORMANCE



230/9" P - 230/9" AR



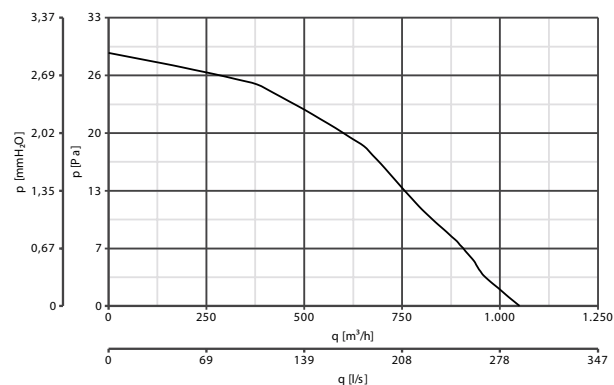
230/9" P AR LL S - 230/9" AR LL S - HIGH PERFORMANCE



— Power consumption — Delivery

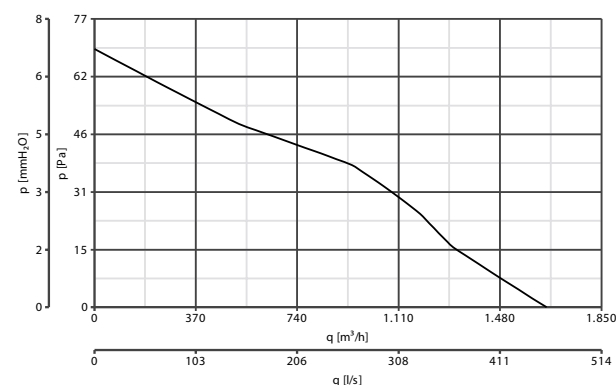
### PERFORMANCE CURVES

300/12" AR



— Power consumption — Delivery

300/12" AR LL S



### CONTROLLER

MODELS	DESCRIPTION	CODE	PRODUCTS
	<b>CR5N</b> - Reversible 5 speeds controller	12941	All products (not for code 12611 - 12451)
	<b>CREN</b> - Reversible 5 speeds controller	12944	All products (not for code 12611 - 12451)
	<b>C TEMP</b> - Environmental sensor for temperature	12992	All products (not for code 12611 - 12451)
	<b>C SMOKE</b> - Environmental sensor for air quality	12993	All products (not for code 12611 - 12451)
	<b>C HCS</b> - Environmental sensor for humidity	12994	All products (not for code 12611 - 12451)
	<b>C PIR</b> - Passive infrared sensor	12998	All products (not for code 12611 - 12451)
	<b>C TIMER</b> - Adjustable over-run timer	12999	All products (not for code 12611 - 12451)

### ACCESSORIES ON REQUEST

MODELS	DESCRIPTION	CODE	PRODUCTS
	<b>KIT VV</b> - Double opening window kit	150/6"	13021 12611 - 12612 - 12615 - 12614
		230/9"	13022 12451 - 12452 - 12454 - 12455
		300/12"	13023 12412 - 12415
	<b>KIT FF</b> - Double opening window kit	150/6"	13024 12611 - 12612 - 12615 - 12614
		230/9"	13025 12451 - 12452 - 12455
		300/12"	13026 12412 - 12415
	<b>KIT TC</b> - Spigot plate remote application	150/6"	13027 12611 - 12612 - 12615 - 12614
		230/9"	13028 12451 - 12452 - 12454 - 12455
		300/12"	13029 12412 - 12415
	<b>KIT MU</b> - Wall mounting kit with rods	13018	12611 - 12612 - 12451 - 12452 - 12455 12412 - 12415



### ACCESSORIES ON REQUEST

MODELS	DESCRIPTION	CODE	PRODUCTS
	KIT TE - Roof cowl/wind baffle kit	150/6"	12611 - 12612 - 12615 - 12614
		230/9"	12451 - 12452 - 12454 - 12455
		300/12"	12412 - 12415
	KIT SA - Darkroom cowl kit	13004	12451 - 12452 - 12455 - 12613 - 12616 12653 - 12456 - 12413 - 12416



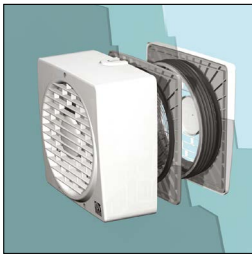
#### SINGLE AND DOUBLE-GLAZED WINDOW

Models	Code	Kit required (code)	thickness min/max
150/6" P	12611		
150/6" AR	12612		
150/6" P LL S	12614		
150/6" AR LL S	12615		
230/9" P	12451	none	2-38
230/9" AR	12452		
230/9" P LL S	12454		
230/9" AR LL S	12455		
300/12" AR	12412		
300/12" AR LL S	12415		



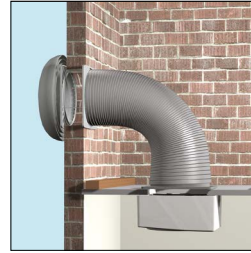
#### WINDOW/PANEL MOUNTING WITH EXTERNAL COWL AS A WIND BAFFLE

Models	Code	Kit required (code)
150/6" P	12611	
150/6" AR	12612	13001
150/6" P LL S	12614	
150/6" AR LL S	12615	
230/9" P	12451	
230/9" AR	12452	13002
230/9" P LL S	12454	
230/9" AR LL S	12455	
300/12" AR	12412	
300/12" AR LL S	12415	13003



#### KIT VV - DOUBLE-GLAZED (OPENING) WINDOW

Models	Code	Kit required (code)	thickness min/max
150/6" P	12611		
150/6" AR	12612		
150/6" P LL S	12614	13021	
150/6" AR LL S	12615		
230/9" P	12451		30-43
230/9" AR	12452	13022	
230/9" AR LL S	12455		
230/9" P LL S	12454		
300/12" AR	12412	13023	
300/12" AR LL S	12415		



#### WALL MOUNTING FOR REMOTE APPLICATION\*

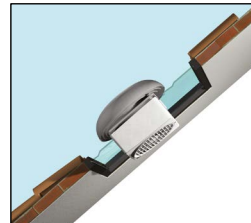
Models	Code	Kit required (code)
150/6" AR	12612	13003 + 13018 + 2 items 13027
150/6" AR LL S	16615	
230/9" AR	12452	13002 + 13018 + 2 items 13028
230/9" AR LL S	12455	
300/12" AR	12412	13003 + 13018 + 2 items 13029
300/12" AR LL S	12611	

\* duct not included



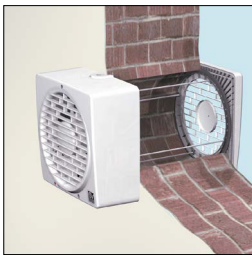
#### KIT FF - DOUBLE (OPENING) WINDOW SECONDARY-GLAZED

Models	Code	Kit required (code)	thickness min/max
150/6" P	12611		
150/6" AR	12612		
150/6" P LL S	12614	13024	
150/6" AR LL S	12615		
230/9" P	12451		230-300
230/9" AR	12452		
230/9" AR LL S	12455	13025	
230/9" P LL S	12454		
300/12" AR	12412		
300/12" AR LL S	12415	13026	



#### KIT TE - ROOF COWL/WIND BAFFLE KIT

Models	Code	Kit required (code)
150/6" P	12612	
150/6" P LL S	12614	13001
150/6" AR LL S	12615	
230/9" AR	12452	
230/9" AR LL S	12455	13002
230/9" P LL S	12454	
300/12" AR	12412	
300/12" AR LL S	12415	13003



#### KIT MU - WALL MOUNTING

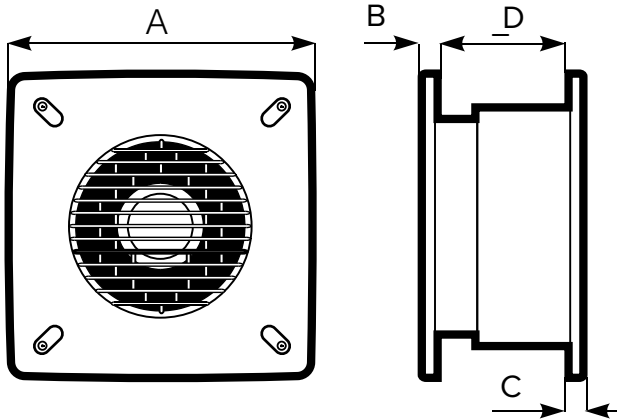
Models	Code	Kit required (code)	thickness min/max
150/6" P	12611		
150/6" AR	12612		
150/6" P LL S	12614		
150/6" AR LL S	12615		
230/9" P	12451		300
230/9" AR	12452	13018	
230/9" AR LL S	12455		
230/9" P LL S	12454		
300/12" AR	12412		
300/12" AR LL S	12415		



#### ROOF MOUNTING WITH EXTERNAL COWL AS A WIND BAFFLE

Models	Code	Kit required (code)	thickness min/max
150/6" P	12611		
150/6" AR	12612		
150/6" P LL S	12614	13001 + 13018	
150/6" AR LL S	12615		
230/9" P	12451		300
230/9" AR	12452		
230/9" AR LL S	12455	13002 + 13018	
230/9" P LL S	12454		
300/12" AR	12412		
300/12" AR LL S	12415	13003 + 13018	

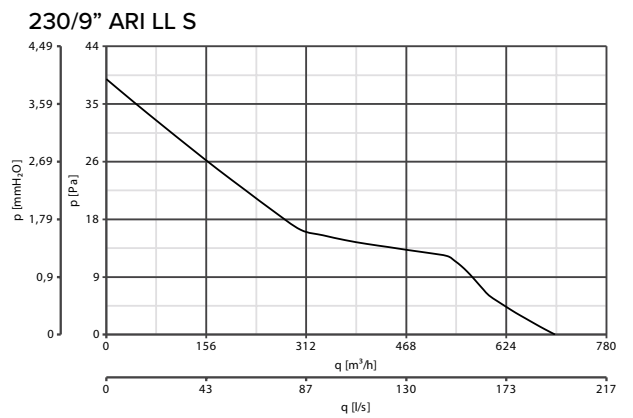
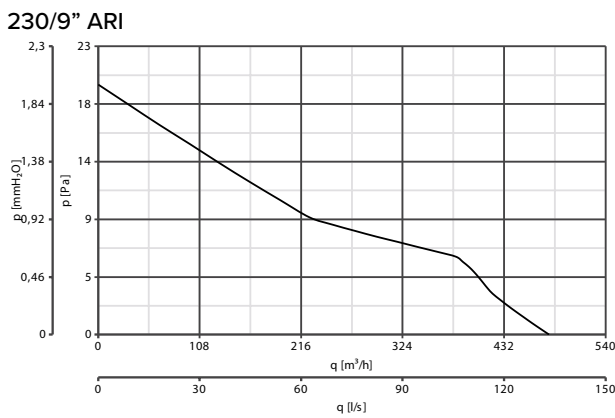
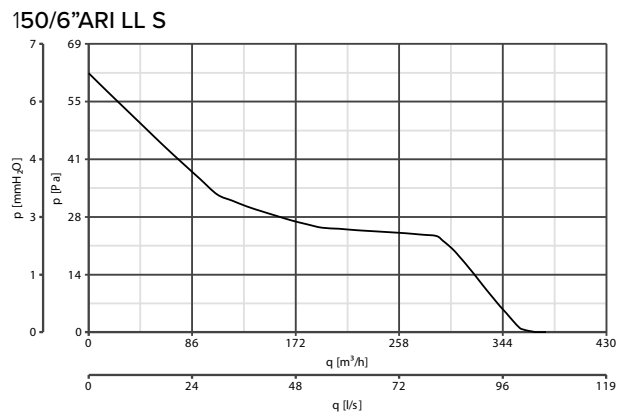
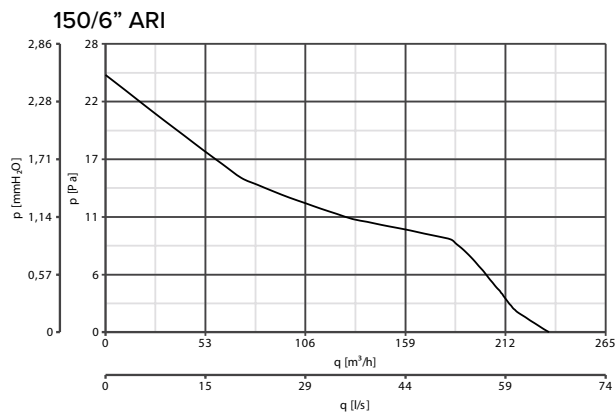
### DIMENSIONS



PRODUCT	ØA	B	C	D	HOLE THROUGH WALL SIZE
VORTICE 150/6" ARI	300	9.5	10.5	135	260/265
VORTICE 230/9" ARI	400	10	11.0	180	335/340
VORTICE 300/12"	495	10.5	11.5	210	435/440

mm

### PERFORMANCE CURVES

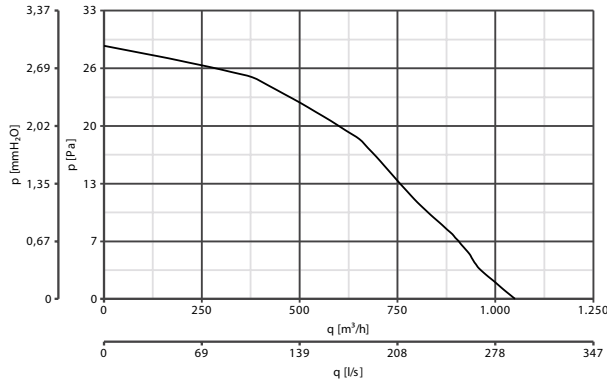


— Power consumption — Delivery

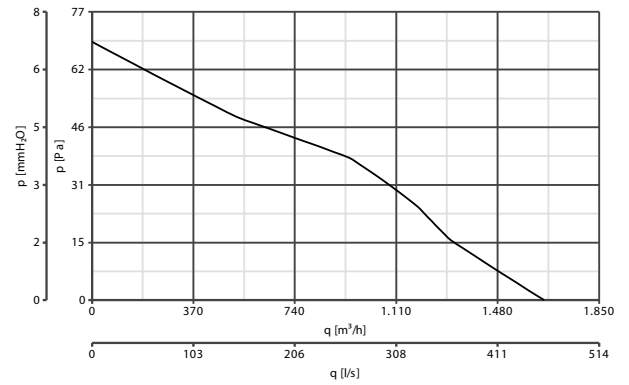


PERFORMANCE CURVES

300/12" ARI



300/12" AR LL S



— Power consumption — Delivery

CONTROLLER

MODELS	DESCRIPTION	CODE	PRODUCT
	<b>CR5N</b> - Reversible 5 speeds controller	12941	All products
	<b>CREN</b> - Reversible 5 speeds controller	12944	All products
	<b>C TEMP</b> - Environmental sensor for temperature	12992	All products
	<b>C SMOKE</b> - Environmental sensor for air quality	12993	All products
	<b>C HCS</b> - Environmental sensor for humidity	12994	All products
	<b>C PIR</b> - Passive infrared sensor	12998	All products
	<b>C TIMER</b> - Adjustable over-run timer	12999	All products

ACCESSORIES ON REQUEST

MODELS	DESCRIPTION	CODE	PRODUCT
	150/6"	13015	12616 - 12613
	230/9"	13016	12456 - 12653
	300/12"	13017	12416 - 12413
	150/6"	13027	12616 - 12613
	230/9"	13028	12456 - 12653
	300/12"	13029	12416 - 12413
	150/6"	13012	12616 - 12456 - 12613 - 12653
	230/9"		
	300/12"	13014	12413 - 12416