



VORTICE® VARIO RANGE

Wall/window axial fans



Supply to improve the quality of air we breathe daily in any domestic or commercial environment: dwellings, shops & cafes, sports centers/gyms, restaurants, public houses, offices, schools, community halls and many more....

- **10 models:** from 150 to 230 diameters, long life, Pull Cord and automatic reversible.
- Body made of shock-resistant ABS plastic anti-UV.
- Structural components in UV resistant ABS, internal components from shock resistant PS.
- 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.
- Highly efficient impellers.
- Extremely low noise emission.
- Model for installation on glass/panel/wall.
- Ceiling installation and wall installation.
- Protection rating: IPX4.
- Insulation class: II. □

Design: F. Trabucco & Associates



Wiring diagrams shown from page 458

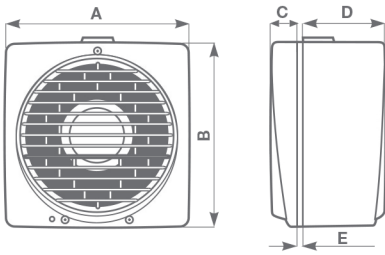
TECHNICAL DATA

Models	Code	V ~ 50/60 Hz	W	A	RPM	Max Airflow		Lp dB(A) 3 m	Max °C
						m³/h	l/s		
VORTICE 150/6" AR	12612	220 - 240	25	0.11	1340** 2040*	235** 150*	65.3** 41.7*	37.5	50
VORTICE 150/6" AR LL S	12615		35	0.17	2110** 2520*	380** 215*	105.6** 59.7*	49.6	50
VORTICE 150/6" P	12611		18	0.10	1340	235	65.3	37.5	50
VORTICE 150/6" P LL S	12614		32	0.16	2110	380	105.6	46.9	50
VORTICE 230/9" AR	12452		26	0.13	790** 1080*	480** 310*	133** 86*	35.6	50
VORTICE 230/9" AR LL S	12455		35 (50 Hz) 40 (60 Hz)	0.19	1200** 1300*	700** 370*	194.4** 102.8*	43.6	50
VORTICE 230/9" P	12451		22	0.10	790	480	133	35.6	50
VORTICE 230/9" P LL S	12454		32 (50 Hz) 38 (60 Hz)	0.18	1200	700	194.4	43.6	50
VORTICE 300/12" AR	12412		45	0.21	840** 1085*	1050** 700*	292** 194.4*	40.2	50 (50 Hz) 40 (60 Hz)
VORTICE 300/12" AR LL S	12415		75 (50 Hz) 90 (60 Hz)	0.41	1215** 1280*	1650** 920*	458.3** 255.6*	53.6	

* Extract; ** Intake.



DIMENSIONS



Models	∅A	B	C	D	E min/max	hole dia∅	Kg
VORTICE 150/6"	215	218	31	97.5	2/38	185÷190	2.07
VORTICE 230/9"	294	297	31	130	2/38	257÷262	3.45
VORTICE 300/12"	390	393	31	147	2/38	324÷329	6.13

Dimensions (mm)

EASY AND QUICK 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.

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.



PRODUCT ACCESSORIES

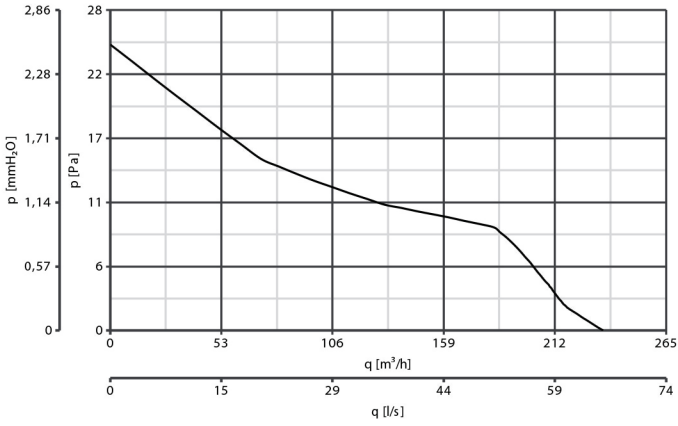
Models	Code	Product										
		VORTICE 150/6" AR code 12612	VORTICE 150/6" AR LL S code 12615	VORTICE 150/6" P code 12611	VORTICE 150/6" P LL S code 12614	VORTICE 230/9" AR code 12452	VORTICE 230/9" AR LL S code 12455	VORTICE 230/9" P code 12451	VORTICE 230/9" P LL S code 12454	VARIO 300/12" AR code 12412	VORTICE 300/12" AR LL S code 12415	
 CR5 Reversible 5 speeds controller	12943	●	●	●	●	●	●	●	●	●	●	●
 CR5N Reversible 5 speeds controller	12941	●	●	●	●	●	●	●	●	●	●	●
 CREN Reversible 5 speeds controller	12944	●	●	●	●	●	●	●	●	●	●	●
 C HCS Environmental sensor for humidity	12994	●	●	●	●	●	●	●	●	●	●	●
 C PIR Passive infrared sensor	12998	●	●	●	●	●	●	●	●	●	●	●
 C SMOKE Environmental sensor for air quality	12993	●	●	●	●	●	●	●	●	●	●	●
 C TEMP Environmental sensor for temperature	12992	●	●	●	●	●	●	●	●	●	●	●
 C TIMER Adjustable over-run timer	12999	●	●	●	●	●	●	●	●	●	●	●

Description and sizes on page 98
System components on page xxxx

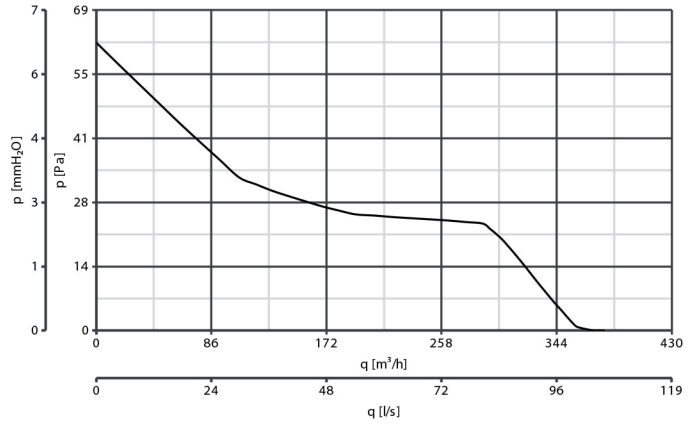


PERFORMANCE CURVES

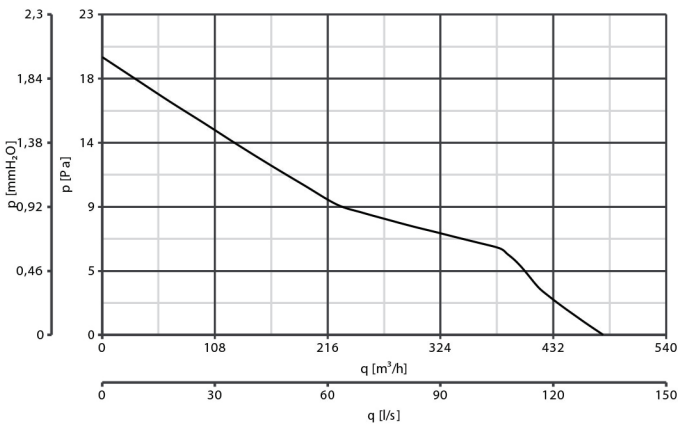
VORTICE 150/6" AR code 12612
VORTICE 150/6" P code 12611



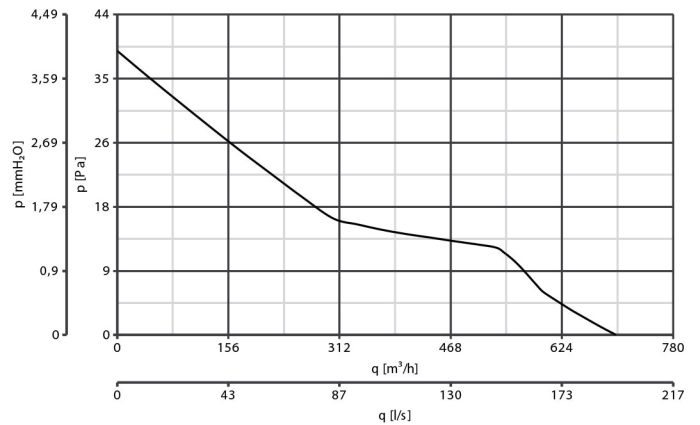
VORTICE 150/6" AR LL S code 12615
VORTICE 150/6" P LL S code 12614



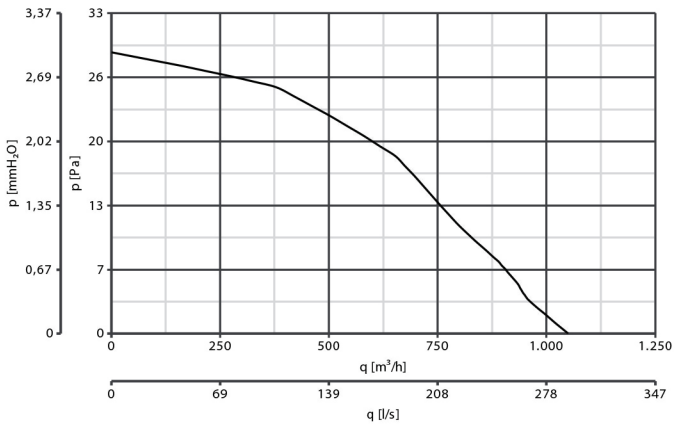
VORTICE 230/9" AR code 12452
VORTICE 230/9" P code 12451



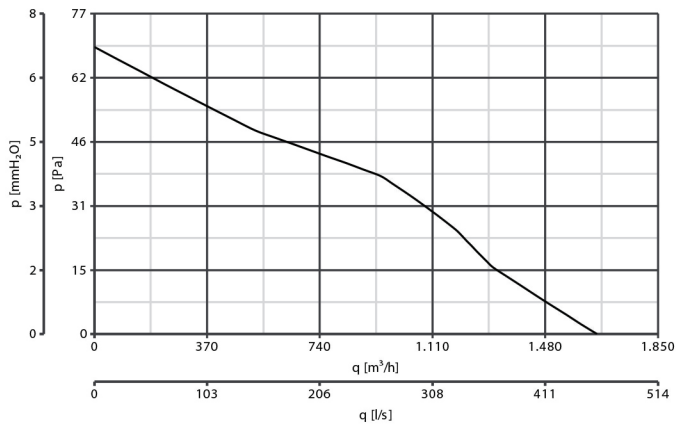
VORTICE 230/9" AR LL S code 12455
VORTICE 230/9" P LL S code 12454



VORTICE 300/12" AR code 12412



VORTICE 300/12" AR LL S code 12415





VORTICE® VARIO I RANGE

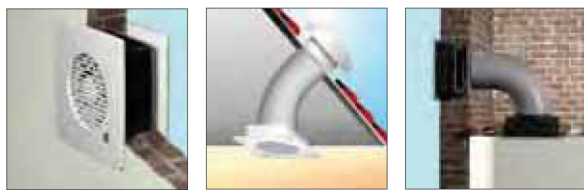
Flush mounted axial fans



Supply to improve the quality of air we breathe daily in any domestic or commercial environment: dwellings, shops & cafes, sports centers/gyms, restaurants, public houses, offices, schools, community halls and many more....

- **6 models:** from 150 to 230 diameters, Long life, Pull cord and automatic reversible.
- Flush mounting.
- Body made of shock-resistant ABS plastic anti-UV.
- Structural components in UV resistant ABS, internal components from shock resistant PS.
- 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.
- Highly efficient impellers.
- Extremely low noise emission.
- Model for installation on glass/panel/wall.
- Ceiling installation and wall installation.
- Protection rating: IPX4.
- Insulation class: II. □

Design: F. Trabucco & Associates



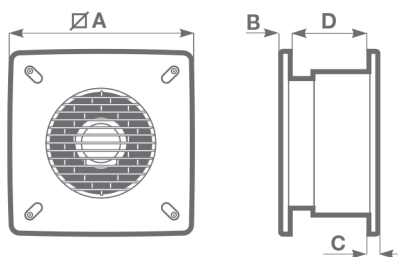
TECHNICAL DATA

Models	Code	V ~ 50/60 Hz	W	A	RPM	Max Airflow		Lp dB(A) 3 m	Max °C
						m³/h	l/s		
VORTICE 150/6" ARI	12613	220 - 240	25	0.11	1330* 1880**	220* 130**	61.1* 36.1**	38.2	50
VORTICE 150/6" ARI LL S	12616	220 - 240	35	0.17	2080* 2460**	350* 200**	97.2* 55.6**	49.1	50
VORTICE 230/9" ARI	12453	220 - 240	26	0.13	810* 1080**	450* 300**	125* 83.3**	35.7	50
VORTICE 230/9" ARI LL S	12456	220 - 240	35 (50 Hz) 40 (60 Hz)	0.19	1160* 1260**	680* 350**	188.9* 97.2**	45.3	50
VORTICE 300/12" ARI	12413	220 - 240	45	0.21	850* 1150**	1200* 850**	333.3* 236.1**	40.7	50 (50 Hz) 40 (60 Hz)
VORTICE 300/12" ARI LL S	12416	220 - 240	75 (50 Hz) 90 (60 Hz)	0.41	1230* 1310**	1750* 1000**	486.1* 277.7**	53.5	

* Extract; ** Intake.



DIMENSIONS



Models	∅A	B	C	D	E min/max	hole dia ∅	Kg
VORTICE 150/6" ARI	300	9.5	10.5	135	260÷265	2.52	2.07
VORTICE 230/9" ARI	400	10	11	180	335÷340	3.88	3.45
VORTICE 300/12" ARI	495	10.5	11.5	210	435÷440	7.2	6.13

Dimensions (mm)

EASY AND QUICK 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.

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.



PRODUCT ACCESSORIES

Models	Code	Product							
		VORTICE 150/6" ARI code 12613	VORTICE 150/6" ARI LL S code 12616	VORTICE 230/9" ARI code 12453	VORTICE 230/9" ARI LL S code 12456	VORTICE 300/12" ARI code 12413	VORTICE 300/12" ARI LL S code 12416		
 CR5 Reversible 5 speeds controller	12943	●	●	●	●	●	●	●	
 CR5N Reversible 5 speeds controller	12941	●	●	●	●	●	●	●	
 CREN Reversible 5 speeds controller	12944	●	●	●	●	●	●	●	
 C HCS Environmental sensor for humidity	12994	●	●	●	●	●	●	●	
 C PIR Passive infrared sensor	12998	●	●	●	●	●	●	●	
 C SMOKE Environmental sensor for air quality	12993	●	●	●	●	●	●	●	
 C TEMP Environmental sensor for temperature	12992	●	●	●	●	●	●	●	
 C TIMER Adjustable over-run timer	12999	●	●	●	●	●	●	●	

Description and sizes on page 126; System components on page 330.

ACCESSORIES ON REQUEST FOR VORTICE VARIO AND VORTICE VARIO I

Models	Code	Product															
		VORTICE 150/6" AR code 12612	VORTICE 150/6" AR LL S code 12615	VORTICE 150/6" P code 12611	VORTICE 150/6" P LL S Código 12614	VORTICE 230/9" AR code 12452	VORTICE 230/9" AR LL S code 12455	VORTICE 230/9" P code 12451	VORTICE 230/9" P LL S code 12454	VORTICE 300/12" AR code 12412	VORTICE 300/12" AR LL S code 12415	VORTICE 150/6" ARI code 12613	VORTICE 150/6" ARI LL S code 12616	VORTICE 230/9" ARI code 12653	VORTICE 230/9" ARI LL S code 12456	VORTICE 300/12" ARI code 12413	VORTICE 300/12" ARI LL S code 12416
KIT MU Wall mounting kit with rods	13018	●	●	●	●	●	●	●	●	●	●						
Kit FF 150/6" Double opening window kit, Mod. 150/6" (including special flanges for protective grille holder and double window, gaskets for grille and flange, protective grille, duct and fixings)	13024	●	●	●	●												
Kit FF 230/9" Double opening window kit, Mod. 230/9" (including special flanges for protective grille holder and double window, gaskets for grille and flange, protective grille, duct and fixings)	13025					●	●	●	●								
KIT FF 300/12" Double opening window kit, Mod. 300/12" (including special flanges for protective grille holder and double window, gaskets for grille and flange, protective grille, duct and fixings)	13026									●	●						
KIT VV 150/6" Double opening window, secondary-glazed kit, Mod. 150/6" (including special flanges for protective grille holder and secondary glazing, gaskets for grille and window, protective grille, duct, nuts and screws)	13021	●	●	●	●												
KIT VV 230/9" Double opening window, secondary-glazed kit, Mod. 230/9" (including special flanges for protective grille holder and secondary glazing, gaskets for grille and window, protective grille, duct, nuts and screws)	13022					●	●	●	●								
KIT VV 300/12" Double opening window, secondary-glazed kit, Mod. 300/12" (including special flanges for protective grille holder and secondary glazing, gaskets for grille and window, protective grille, duct, nuts and screws)	13023									●	●						
KIT TE 150/6" Capucha de Techo/Kit deflector de viento Mod. 150/6" (incluyendo capucha de techo externa y base, juntas, collar roscado y anillos intermedios)	13001	●	●	●	●												
KIT TE 230/9" Roof Cowl/Wind Baffle kit, Mod. 150/6" (including external roof cowl and base, gasket, threaded collar and intermediate rings)	13002					●	●	●	●								
KIT TE 300/12" Roof Cowl/Wind Baffle kit, Mod. 300/12" (including external roof cowl and base, gasket, threaded collar and intermediate rings)	13003									●	●						
KIT ML 150/6" Deep wall installation kit, Mod. 150/6" (including flush-mounting frame, feet, duct)	13015											●	●				



Models	Code	Product															
		VORTICE 150/6" AR code 12612	VORTICE 150/6" AR LL S code 12615	VORTICE 150/6" P code 12611	VORTICE 150/6" P LL S Código 12614	VORTICE 230/9" AR code 12452	VORTICE 230/9" AR LL S code 12455	VORTICE 230/9" P code 12451	VORTICE 230/9" P LL S code 12454	VORTICE 300/12" AR code 12412	VORTICE 300/12" AR LL S code 12415	VORTICE 150/6" ARI code 12613	VORTICE 150/6" ARI LL S code 12616	VORTICE 230/9" ARI code 12653	VORTICE 230/9" ARI LL S code 12456	VORTICE 300/12" ARI code 12413	VORTICE 300/12" ARI LL S code 12416
Kit ML 230/9" Deep wall installation kit, Mod. 230/9" (including flush-mounting frame, feet, duct)	13016												•	•			
Kit ML 300/12" Deep wall installation kit, Mod. 300/12" (including flush-mounting frame, feet, duct)	13017														•	•	
Kit SO 150/6" - 230/9" Ceiling, false ceiling and panel kit. Mod. 150/6" and 230/9" (including 4 ceiling brackets - M5 X 70 - M5 X 30 screws - springs - washers)	13012											•	•	•	•		
Kit SO 300/12" Ceiling, false ceiling and panel kit. Mod. 300/12" (including 4 ceiling brackets - M5 X 70 - M5 X 30 screws - springs - washers)	13014														•	•	
Kit TC 150/6" Spigot Plate for remote application, Mod. 150/6" (including flange for duct, coupling gasket, 4 nuts, 4 screws, M4 X 20/M4 X 50)	13027											•	•				
Kit TC 230/9" Spigot Plate for remote application, Mod. 230/9" (including flange for duct, coupling gasket, 4 nuts, 4 screws, M4 X 20/M4 X 50)	13028												•	•			
Kit TC 300/12" Spigot Plate for remote application, Mod. 300/12" (including flange for duct, coupling gasket, 4 nuts, 4 screws, M4 X 20/M4 X 50)	13029														•	•	
Kit SA 230/9" Darkroom cowl kit, Mod. 230/9" (darkroom and intermediate rings, external baffle and base, gasket, mesh) - UV stabilized material, painted with dark, non-reflective paint	13004											•	•	•	•	•	•

	Number of required kits	VORTICE 150/6" AR Code 12612	VORTICE 150/6" ARI LL S Code 12615	VORTICE 150/6" P Code 12611	VORTICE 150/6" P LL S Code 12614	VORTICE 230/9" AR Code 12452	VORTICE 230/9" ARI LL S Code 12455	VORTICE 230/9" P Code 12451	VORTICE 230/9" P LL S Code 12454	VORTICE 300/12" AR Code 12412	VORTICE 300/12" ARI LL S Code 12415	VORTICE 150/6" ARI Code 12613	VORTICE 150/6" ARI LL S Code 12616	VORTICE 230/9" ARI Code 12653	VORTICE 230/9" ARI LL S Code 12456	VORTICE 300/12" ARI Code 12413	VORTICE 300/12" ARI LL S Code 12416
Single-glazed window																	
Wall	1	13018	13018	13018	13018	13018	13018	13018	13018	13018	13018						
Double-glazed (opening) window	1	13021	13021	13021	13021	13022	13022	13022	13022	13023	13023						
Double (opening) window secondary-glazing	1	13024	13024	13024	13024	13025	13025	13025	13025	13026	13026						
Window-mounted with darkroom cowl	1					13004	13004	13004	13004								
Window / panel mounted with external cowl	1	13001	13001	13001	13001	13002	13002	13002	13002	13003	13003						
Roof application	1	13001	13001	13001	13001	13002	13002	13002	13002	13003	13003						
Wall-mounted with external cowl	2	13001 13018	13001 13018	13001 13018	13001 13018	13002 13018	13002 13018	13002 13018	13002 13018	13003 13018	13003 13018						
Wall-mounted for remote application (duct not included)	1	13001 13018 13027x2	13001 13018 13027x2	13001 13018 13027x2	13001 13018 13027x2	13002 13018 13027x2	13002 13018 13027x2	13002 13018 13027x2	13002 13018 13027x2	13003 13018 13027x2	13003 13018 13027x2						
Built-in wall mounted																	
Thin wall mounted for remote application (duct not included)	3	13001 13012 13018 13027	13001 13012 13018 13027	13001 13012 13018 13027	13001 13012 13018 13027	13002 13012 13018 13028	13002 13012 13018 13028	13002 13012 13018 13028	13002 13012 13018 13028	13003 13014 13018 13029	13003 13014 13018 13029						
Panel-mounted with darkroom cowl	1					13004	13004	13004	13004								
Wall-mounted with darkroom cowl	2					13018 13004	13018 13004	13018 13004	13018 13004								
Built-in deep wall mounted	1											13015	13015	13016	13016	13017	13017
Panel - Ceiling - False ceiling	1											13012	13012	13012	13012	13014	13014
Roof-mounted for remote application (duct not included)	3											13001 13027 13012	13001 13027 13012	13002 13028 13012	13002 13028 13012	13003 13029 13014	13003 13029 13014
Built-in wall mounted for remote application (duct not included)	3											13012 13015 13027	13012 13015 13027	13012 13016 13028	13012 13016 13028	13014 13017 13029	13014 13017 13029

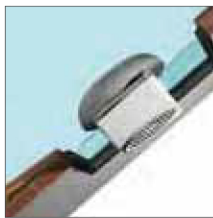


SINGLE AND DOUBLE-GLAZED WINDOW



Models	Kit required ¹	Thickness min/max
150/6"	none	3÷38
230/9"		3÷38
300/12"		3÷38

ROOF MOUNTING ON WINDOW / PANEL



Models	Kit required
150/6"	13001
230/9"	13002
300/12"	13003

DOUBLE-GLAZED (OPENING) WINDOW



Models	Kit required ²	Thickness min/max
150/6"	13021	30÷43
230/9"	13022	
300/12"	13023	

WINDOW/PANEL MOUNTING WITH EXTERNAL COWL AS A WIND BAFFLE



Models	Kit required
150/6"	13001
230/9"	13002
300/12"	13003

DOUBLE (OPENING) WINDOW SECONDARY-GLAZED



Duct not included.

Models	Kit required ³	Thickness min/max
150/6"	13024	230÷300
230/9"	13025	
300/12"	13026	

WALL MOUNTING FOR REMOTE APPLICATION



Duct not included.

Models	Kit required
150/6"	13001 + 13018 + 2 items 13027
230/9"	13002 + 13018 + 2 items 13028
300/12"	13003 + 13018 + 2 items 13029

WALL MOUNTING



Models	Kit required ⁴	Thickness min/max
150/6"	13018	38÷300
230/9"		
300/12"		

WALL MOUNTING WITH EXTERNAL COWL AS A WIND BAFFLE



Models	Kit required ⁴	Thickness min/max
150/6"	13001 + 13018	31 ÷ 300
230/9"	13002 + 13018	
300/12"	13003 + 13018	

PANEL / WALL MOUNTING WITH DARKROOM COWL

Models	Kit required ⁴
230/9"	Panel: 13004 Wall: 13004 + 13018,

(1) No kit is 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.

For built-in models

BUILT-INWALL MOUNTING



Models	Kit required ⁵	Thickness
150/6"	none	135
230/9"		180
300/12"		210

BUILT-IN DEEP WALL MOUNTING

Models	Kit required	Thickness min/max
150/6"	13015	260 ÷ 460
230/9"	13016	320 ÷ 500
300/12"	13017	375 ÷ 550

BUILT-IN PANEL, CEILING AND FALSE CEILING MOUNTING



Models	Kit required
150/6"	13012
230/9"	13012
300/12"	13014

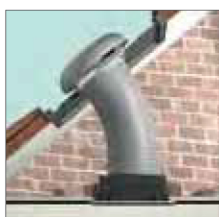
BUILT-IN WALL MOUNTED FOR REMOTE APPLICATION



Duct not included.

Models	Kit required
150/6"	13027 + 13012 + 13015
230/9"	13028 + 13012 + 13016
300/12"	13029 + 13014 + 13017

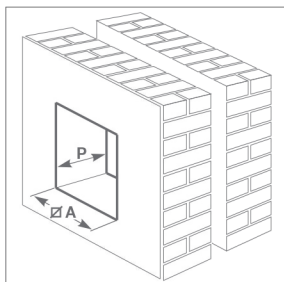
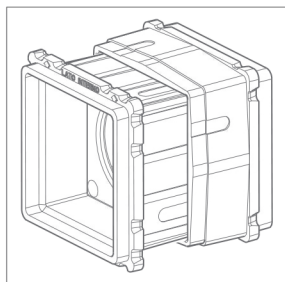
BUILT-IN ROOF MOUNTED FOR REMOTE APPLICATION



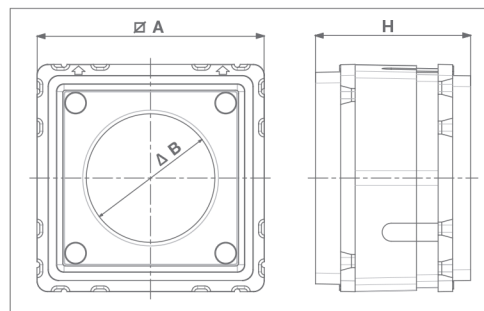
Models	Kit required
150/6"	13001 + 13027 + 13012
230/9"	13002 + 13028 + 13012
300/12"	13003 + 13029 + 13014

⁽⁵⁾ No kit is required for walls with thickness ranging from 135 to 210 mm.

TELESCOPIC FRAME FORWALL MOUNTED MODELS



This frame is made of expanded polystyrene and facilitates wall mounting of the Vortice Vario series. Accessory included.

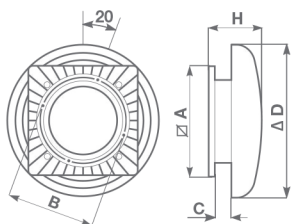


Models	∅ A	P (min)	P (max)
150/6"	325	220	330
230/9"	400	220	330
300/12"	500	220	330

Models	∅ A	∅ B	H
KIT IN 150/6"	315	180	205-330
KIT IN 230/9"	390	260	205-330
KIT IN 300/12"	490	305	205-330

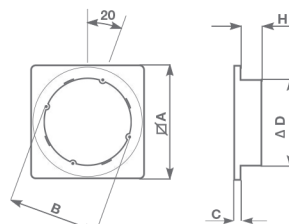
KIT AVAILABLE

Roof cowl kit



Models	Code	∅ A	B	C	∅ D	H
150/6"	13001	215	175	28	300	111
230/9"	13002	294	249	30	400	145
300/12"	13003	390	316	33	534	181

Spigot Plate



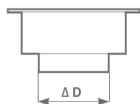
Models	Code	∅ A	B	C	∅ D	H
150/6"	13027	215	175	8	171	30
230/9"	13028	294	249	10	240	30
300/12"	13029	390	316	12	300	30

Duct diameter for Spigot Plate



Models	Code	∅ D
150/6"	13027	171
230/9"	13028	240
300/12"	13029	300

Duct diameter for flush mounting frame



Models	Code	∅ D
150/6"	13015	171
230/9"	13016	240
300/12"	13017	300

Diameter of PVC ducts

Light series for ventilation. Suitable for Vortice applications. With the following internal diameters.

Models	∅ D int	∅ D ext	thickness
150/6"	176	180	2
230/9"	245	250	2.5
300/12"	309	315	3

Diameter of aluminium ducts

Flexible. Suited for Vortice applications. With the following internal diameters.

Models	∅ D int
150/6"	171
230/9"	240
300/12"	300