

## DOMESTIC VENTILATION

**Vortice® provides comfort indoors.**

Air pollution in the home is caused by the presence of people and their activities. In order to safeguard our health, rooms must be properly ventilated to improve the quality of the air we breathe.

Vortice® offers a wide range of products that are specially designed to achieve this objective. These products start with the Vortice® Punto range of axial fans, which offers a comprehensive range of options for wall, ceiling (with ducting up to 4m long) and window extraction. Centrifugal extractor fans are available to meet the needs when axial fans are unacceptable. These include the standard type (Vort) which is used to ventilate through ducting, the professional centrifugal type, which includes like the Ariett and Vort Press® for either flush or wall mounting. The VMC Ariant central extract system provides continuous ventilation. Finally, Vortice offers 18 Cooker hood models and under hood fans to suit the décor of any kitchen.



SPLASHPROOF AXIAL EXTRACT FANS USED TO EXTRACT AIR EITHER DIRECTLY TO THE OUTSIDE OR INTO DUCTING UP TO 4m LONG

VORTICE® PUNTO RANGE

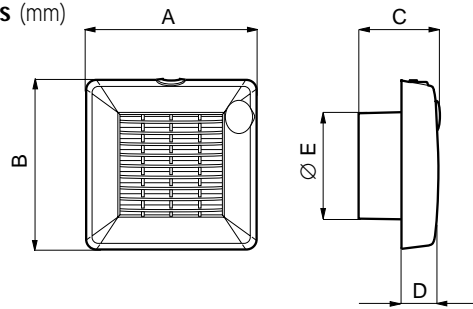


- IMQ data label ensures data and performance is third party certified.
  - High airflow rate, low operating noise level and low power consumption due to the wing profile blades and motor support.
  - IPX4 splashproof protection on all models.
  - Motor support and grille made of anti-UV ABS.
  - Available in three outlet sizes: Ø 100, 120 and 150 mm.
  - Conforms to the following standards: EN 60335-2-80 (Part 2: Particular requirements for fans), EN 60529 (Code IP) and CEI 107-53/1986.
  - For intermittent or continuous ventilation of bathrooms, toilets, kitchens or utility rooms in domestic or commercial properties.
  - 82 models available with or without the option of automatic shutters, timer, pull cord, humidistat, electronic microprocessor and Passive infrared.
  - Motor with shielded poles, either with bronze or ball bearings, and with thermal cut-out.
  - The standard models can be speed regulated.
- Design: F. Trabucco & Associates
- Accessories (description and data on page 23)
- Wiring diagrams shown on page XXVII.



- ① Installation showing extract directly to the outside.
- ② Ceiling installation on up to 4m duct.
- ③ Through the wall installation with wall sleeve and grille.
- ④ Window installation with standard window kit.

Dimensions (mm)

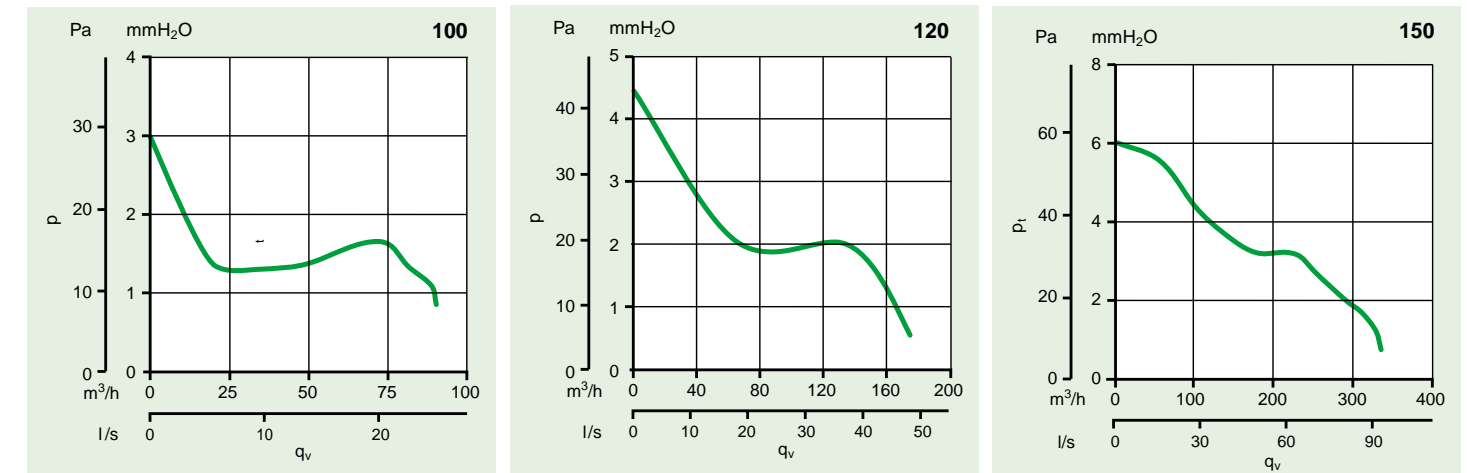


	A	B	C	D	Ø E
<b>M 100/4"</b>	159	160	100	47	99
<b>M 120/5"</b>	179	181	110	47	119
<b>M 150/6"</b>	214	215	117	47	156

Product	V ~ 50 Hz	W	A	Rpm	Delivery		P max		Lp dB(A) 3 m	Approvals	kg	Insulation	IP	°C max	
					m³/h	l/s	mm H₂O	Pa							
<b>M 100/4"</b>	230-240	18	0.1	2300	90	25	3	29	37.5		0.6		cl.II	X4	50
<b>M 120/5"</b>	230-240	20	0.12	2100	175	48.6	4.5	44	39.5		0.8		cl.II	X4	50
<b>M 150/6"</b>	230-240	30	0.15	2100	335	93.1	6	59	46		1.1		cl.II	X4	50

SPLASHPROOF AXIAL EXTRACT FANS USED TO EXTRACT AIR EITHER DIRECTLY TO THE OUTSIDE OR INTO DUCTING UP TO 4m LONG

Pressure/performance curves



Supply and install a Punto domestic axial extract fan (with or without automatic shutters), for installation in wall, window or ceiling as manufactured exclusively by Vortice only for Vortice. The fan should have a performance in excess of the requirements of the Building Regulations (Document F), even when installed with up to 4 m x (100mm, 120mm and 150mm diameters to suit the three model sizes) of flexible aluminium ducting with 2 number 90 degree bends. The requirements are 15l/s for Bathrooms/Toilets - 30 l/s for Utilities and 60 l/s for Kitchens (model with a 15 minute overrun timer for internal rooms). It should be tested and certified as IPX4 (splashproof) with all performance data third party IMQ (BEAB recognised equivalent) verified. The fan should be made from anti-UV ABS plastic and all components and packaging to be 100% recyclable. The internal cover should be of a snap fix design. The motor should be either a bronze bush or a stainless steel ball bearing, shielded pole motor (30,000-hour guarantee), be capable of operating at an ambient temperature up to 50°C and include a thermal cut out device. Control options should include: Speed control (using an optional controller), Pull cord, Timer, PIR (passive Infrared), T-HCS (humidity control system-timer) and MHC (microprocessor humidity control).

THE SPLASHPROOF VORTICE® PUNTO MODELS ARE AVAILABLE IN THE FOLLOWING VERSIONS:

**STANDARD**

**LONG LIFE 30.000 h**

**AUTOMATIC**

All models are manufactured with shielded poles and have bronze bearings for a long life

All models are manufactured with long-life ball-bearing motors which are guaranteed for 30,000 hours continuous, trouble-free operation.

The integral shutters positioned behind the front grille automatically open and close slowly when the unit is operated. The shutters are made from shockproof, anti-UV-treated, plastic.

THE VORTICE® PUNTO MODELS ARE AVAILABLE IN THE FOLLOWING OPTIONS:

**TIMER**

**TIMER**  
The timer comes on when the light is switched on. When the light is turned off, the unit continues to operate for 3 to 20 minutes, depending on the timer setting.

**T-HCS Humidity Control System - Timer**

**T-HCS VERSION**  
The unit turns on when relative humidity exceeds 65% and it turns back off when the RH drops back to 65%. When the light is switched off, the unit will continue to run from between 3 to 20 minutes depending on the timer setting.

**PULLCORD**

**PULL CORD**  
The unit is switched on by pulling the insulated pull cord.

**MHC Microprocessor Humidity Control**

**MHC VERSION**  
This model has the latest electronic micro-chip technology which provides high accuracy and continuous monitoring of both temperature and humidity. Intelligent self-adjusting switch-point which helps eliminate condensation at source, reduces health hazards and call backs.

**PIR Passive Infrared**

**INTEGRAL "PIR" SENSOR**  
The unit turns on a few seconds after the person has entered the room (sensor is located in an inclined position to increase sensitivity), and continues to operate during the person's presence. When the person leaves the room, the unit will continue to run from between 3 to 20 minutes depending on the timer setting.

**12 V Power Supply Unit**

**12 V MODELS**  
A power supply unit is needed wherever the use of low-voltage equipment is required. The two available low-voltage fans - one with and one without automatic shutter - can be used in combination with any of the power supply units.

## SPLASHPROOF AXIAL EXTRACT FANS USED TO EXTRACT AIR EITHER DIRECTLY TO THE OUTSIDE OR INTO DUCTING UP TO 4m LONG

## SPLASHPROOF AXIAL EXTRACT FANS USED TO EXTRACT AIR EITHER DIRECTLY TO THE OUTSIDE OR INTO DUCTING UP TO 4m LONG

### TYPE OF ROOM

Note: The ceiling kit is to preserve IPX4 integrity



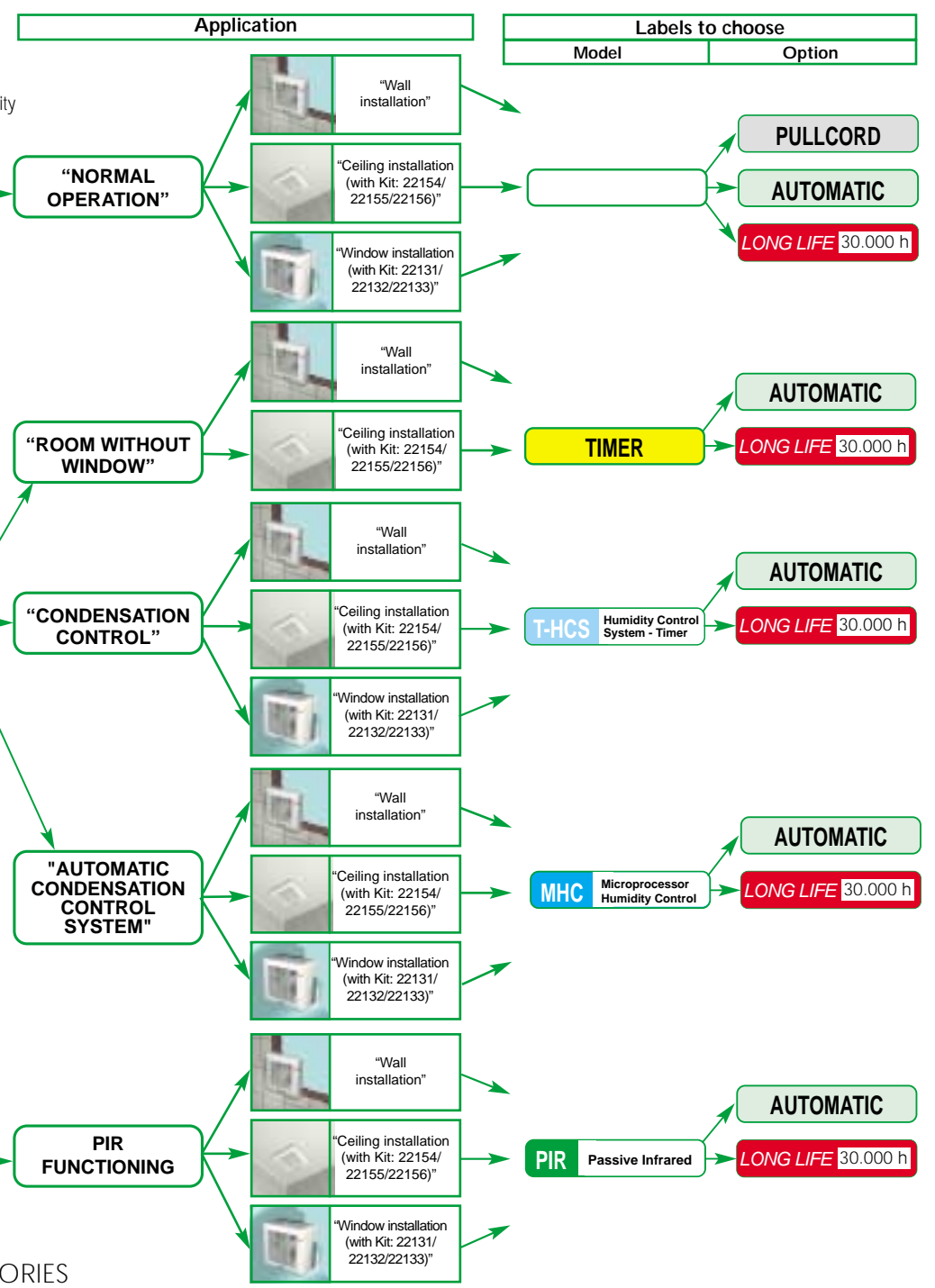
Ø 100: BATHROOM, SHOWER, TOILET



Ø 120: UTILITY ROOM



Ø 150: KITCHEN



### VORTICE® PUNTO ACCESSORIES

Model	Code	Suitable for use with
Fixed grille	22010	11221 - 11231 - 11611 - 11646 - 11683 - 11222 - 11232 - 11637 - 11684
	22020	11321 - 11331 - 11721 - 11746 - 11783 - 11421 - 11431 - 11808 - 11856 - 11883 - 11332 11737 - 11747 - 11784 - 11422 - 11432 - 11837 - 11857 - 11884
Gravity type grille	22300	11201 - 11211 - 11601 - 11641 - 11681 - 11202 - 11212 - 11642 - 11682
	22330	11301 - 11311 - 11201 - 11741 - 11781 - 11302 - 11312 - 11782 - 11742 - 11402
	22360	11401 - 11411 - 11801 - 11851 - 11881 - 11412 - 11853 - 11882
Grille kit	22140	11100 - 11101 - 11110 - 11111
	22141	11102 - 11103 - 11116
	22142	11104 - 11105 - 11117
	22143	11110 - 11111
SCNR electronic speed controller	12912	11201 - 11202 - 11301 - 11302 - 11401 - 11402
SCNRB recessed electronic speed controller	12971	11201 - 11202 - 11301 - 11302 - 11401 - 11402
Window kit	22131	11221 - 11231 - 11611 - 11646 - 11683 - 11222 - 11232 - 11637 - 11684
	22132	11321 - 11331 - 11721 - 11746 - 11783 - 11322 - 11332 - 11737 - 11747 - 11784
	22133	11421 - 11431 - 11808 - 11856 - 11883 - 11442 - 11432 - 11837 - 11857 - 11884
Ceiling kit	22154	11201 - 11211 - 11601 - 11681 - 11221 - 11231 - 11611 - 11683 - 11202 - 11212 - 11682 - 11222 - 11232 - 11637 - 11684
	22155	11301 - 11311 - 11701 - 11781 - 11321 - 11331 - 11721 - 11783 - 11302 - 11312 - 11782 - 11322 - 11332 - 11737 - 11784
	22156	11401 - 11411 - 11801 - 11881 - 11421 - 11431 - 11808 - 11883 - 11402 - 11412 - 11882 - 11422 - 11432 - 11837 - 11884



BATHROOM, SHOWER, TOILET

Model	Code	Option	Model	Code	Option	Model	Code	Option
11201	M 100/4"	11636	M 100/4" A MHC	11232	M 100/4" AT LL	11203 + 22157	M 100/4" 12 V T HCS	
11641	M 100/4" P	11202	M 100/4" LL	11684	M 100/4" A PIR LL	11203 + 22153	M 100/4" 12 V MHC	
11211	M 100/4" T	11642	M 100/4" P LL	11601	M 100/4" T HCS	11223 + 22150	M 100/4" 12 V A	
11681	M 100/4" PIR	11212	M 100/4" T LL	11611	M 100/4" AT HCS	11223 + 22152	M 100/4" 12 V AP	
11626	M 100/4" MHC	11682	M 100/4" PIR LL	11612	M 100/4" AT HCS LL	11223 + 22151	M 100/4" 12 V AT	
11221	M 100/4" A	11602	M 100/4" T HCS LL	11637	M 100/4" A MHC LL	11223 + 22157	M 100/4" 12 V AT HCS	
11646	M 100/4" AP	11627	M 100/4" MHC LL	11203 + 22150	M 100/4" 12 V	11223 + 22153	M 100/4" 12 V A MHC	
11231	M 100/4" AT	11222	M 100/4" A LL	11203 + 22152	M 100/4" 12 V P		-	
11683	M 100/4" A PIR	11647	M 100/4" AP LL	11203 + 22151	M 100/4" 12 V T		-	



UTILITY ROOM

Model	Code	Option	Model	Code	Option	Model	Code	Option
11301	M 120/5"	11331	M 120/5" AT	11322	M 120/5" A LL	11737	M 120/5" A MHC LL	
11741	M 120/5" P	11783	M 120/5" A PIR	11747	M 120/5" AP LL	11702	M 120/5" T HCS LL	
11311	M 120/5" T	11302	M 120/5" LL	11332	M 120/5" AT LL	11722	M 120/5" AT HCS LL	
11781	M 120/5" PIR	11742	M 120/5" P LL	11784	M 120/5" A PIR LL	11726	M 120/5" MHC	
11321	M 120/5" A	11312	M 120/5" T LL	11701	M 120/5" T HCS	11736	M 120/5" A MHC	
11746	M 120/5" AP	11782	M 120/5" PIR LL	11721	M 120/5" AT HCS	11727	M 120/5" MHC LL	



KITCHEN

Model	Code	Option	Model	Code	Option	Model	Code	Option
11401	M 150/6"	11431	M 150/6" AT	11857	M 150/6" AP LL	11837	M 150/6" A MHC LL	
11851	M 150/6" P	11883	M 150/6" A PIR	11432	M 150/6" AT LL	11802	M 150/6" T HCS LL	
11411	M 150/6" T	11402	M 150/6" LL	11882	M 150/6" PIR LL	11809	M 150/6" AT HCS LL	
11881	M 150/6" PIR	11853	M 150/6" P LL	11884	M 150/6" A PIR LL	11826	M 150/6" MHC	
11421	M 150/6" A	11412	M 150/6" T LL	11801	M 150/6" T HCS	11836	M 150/6" A MHC	
11856	M 150/6" AP	11422	M 150/6" A LL	11808	M 150/6" AT HCS	11827	M 150/6" MHC LL	

## VORTICE® PUNTO ACCESSOIRES

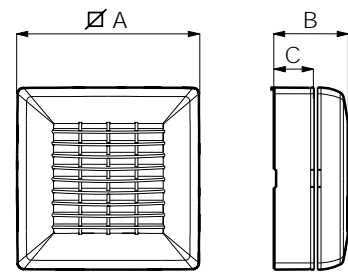
### KIT TO WINDOW-MOUNT ANY VORTICE® PUNTO MODEL

- Will allow any Vortice® Punto unit to be fitted to any single or double glazed window.
- The data and performances for the product + kit are IMQ certified with Data Label.
- The kit consists of closed-cell, expanded-polyethylene gasket and external grille, intermediate flange fitting, spacer, and a anti-UV-threaded ABS ring.
- Glass thickness: 2/3 mm (min) - 17/20 mm (max).
- Conforms to the following standards: EN 60335-2-80 (Part 2: Particular requirements for fans), EN 60529 (Code IP) and CEI 107-53/1986.

Design: F. Trabucco & Associates












#### Dimensions (mm)



	∅ A	B	C	∅ hole glass	thickness max
<b>F 100/4"</b>	158	69	22	123÷128	20
<b>F 120/5"</b>	179	80	33	143÷148	20
<b>F 150/6"</b>	213	87	40	178÷183	20

The following are the performance values for the product + kit

Product	Kit	Code	W	A	Rpm	Delivery		Lp dB(A) 3 m	Approvals	kg	Insulation	IP	°C max
						m³/h	l/s						
 <b>M 100/4"</b>	F 100/4"	22131	18	0.1	2300	85	23.6	38		0.85	 cl.II	X4	50
 <b>M 120/5"</b>	F 120/5"	22132	20	0.12	2000	140	38.9	40.5		1.15	 cl.II	X4	50
 <b>M 150/6"</b>	F 150/6"	22133	30	0.15	1950	280	77.8	44.5		1.56	 cl.II	X4	50

## VORTICE® PUNTO ACCESSOIRES



- ① Single-glazed window installation with window kit.
- ② Double-glazed window installation with window kit.






### Ceiling Kit



- Made of soft rubber to prevent water infiltration and to maintain IPX4 protection on all surfaces.

	Code
<b>S 100/4"</b>	22154
<b>S 120/5"</b>	22155
<b>S 150/6"</b>	22156

### Accessories on request (description and data on page 54)

Model	Code	Products
 Fixed Grille	22010	11201 - 11202 - 11203 - 11211 - 11212 - 11221 - 11222 - 11223 - 11231 - 11232 - 11612 - 11637 - 11682 - 11684
	22020	11301 - 11302 - 11311 - 11312 - 11321 - 11322 - 11331 - 11332 - 11401 - 11402 - 11411 - 11412 - 11421 - 11422 - 11431 - 11432 - 11722 - 11737 - 11782 - 11784 - 11809 - 11837 - 11882 - 11884
 Gravity type grille	22300	11201 - 11202 - 11203 - 11211 - 11212 - 11221 - 11222 - 11223 - 11231 - 11232 - 11612 - 11637 - 11682 - 11684
	22330	11301 - 11302 - 11311 - 11312 - 11321 - 11322 - 11331 - 11332 - 11722 - 11737 - 11782 - 11784
	22360	11401 - 11402 - 11411 - 11412 - 11421 - 11422 - 11431 - 11432 - 11809 - 11837 - 11882 - 11884
 Grille kit	22140 22141 22142 22143	11100 - 11101 - 11110 - 11111 11102 - 11103 - 11116 11104 - 11105 - 11117 11110 - 11111
 SCNR electronic speed controller	12912	11201 - 11202 - 11301 - 11302 - 11401 - 11402
 SCNRB recessed electronic speed controller	12971	11201 - 11202 - 11301 - 11302 - 11401 - 11402

SPLASHPROOF AXIAL FANS USED TO EXTRACT AIR EITHER DIRECTLY TO THE OUTSIDE OR INTO DUCTING UP TO 4m LONG.

**VORTICE® PUNTO RANGE 12V**



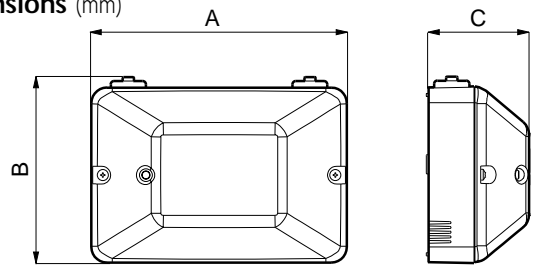
- For intermittent or continuous ventilation of bathrooms, toilets, kitchens or utility rooms in domestic or commercial business.
  - 2 models available with or without automatic shutters.
  - In the automatic version the shutters positioned behind the front grille automatically open and close slowly when the unit is operated. The shutters are made from shockproof, anti-UV-treated plastic.
  - 12V motor with shielded poles, bronze bearings and thermal cut-out.
  - IMQ data label ensures data and performance is certified.
  - High airflow rate, low operating noise level and low power consumption due to the wing-profile blades and motor support.
  - IPX4 splashproof protection.
  - Motor support and grille made of anti-UV ABS.
  - Conforms to the following standards: EN 60335-2-80 (Part 2: Special standards for ventilators), EN 60529 (Code IP) and CEI 107-53/1986.
- Design: F. Trabucco & Associates*
- Accessories**  
(description and data on page 23 and 54)
- Window kit.
  - Ceiling kit.
  - Fixed grille.
  - Gravity grille.
- Wiring diagrams shown on page XXVII.



① Installation showing extract directly to the outside.  
 ② Ceiling installation on up to 4m duct.  
 ③ Through the wall insulation with wall sleeve and grille.

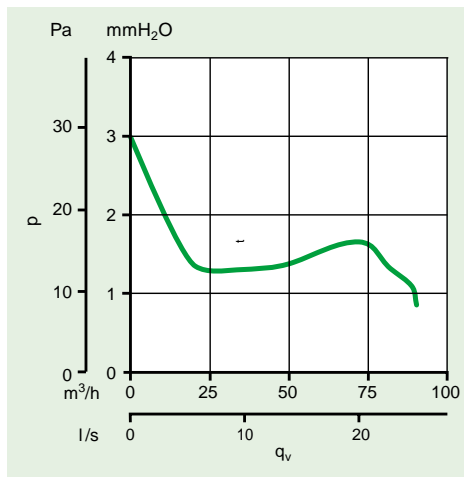
Product	With 12 V Power Supply - Transformer				
	Standard	Pull Cord	Timer	T HCS	MHC
M 100/4" 12 V	22150	22152	22151	22157	22153
M 100/4" A 12 V					

Dimensions (mm)



	A	B	C
GA 12V	161	117	65

Pressure/performance curve



Product	Code	V ~ 50 Hz	W	A	T/mn	Delivery		P max		Lp dB(A) 3 m	Approvals	kg	Insulation	IP	°C max
						m³/h	l/s	mm H <sub>2</sub> O	Pa						
M 100/4" 12 V	11203	12	18	0.1	2300	90	25	3	29	38		0.6	Selv cl.III	X4	50
M 100/4" A 12 V	11223	12	18	0.1	2300	90	25	3	29	38		0.6	Selv cl.III	X4	50

# WALL, WINDOW AND CEILING MOUNTED AXIAL FAN WITH PULL CORD AND HUMIDISTAT, TWO SPEEDS AND AUTOMATIC SHUTTERS

## VORTICE PUNTO M150/6" AP HCSDLL

**LONG LIFE** 30.000 h



- For intermittent or continuous ventilation of kitchens, and small/medium rooms in domestic or commercial properties.
- Motor support and grille made of anti-UV ABS.
- Two speed shielded pole motor with ball bearings and thermal cut-out.
- Shutters which slowly open and close when the unit is turned on and off.
- The unit can be window mounted using a Vortice window kit (F150/6" - code 22133).
- The pullcord should be removed, and a remote over ride switch (not supplied) fitted.
- A ceiling kit (S150/6" - code 22156) is required to maintain IPX4 integrity.
- Can be used on up to 4 metres of circular ducting with 2 x 90 degree bends.

Design: F. Trabucco & Ass.

**Accessories**

(description and data on page 23 and 54)

- Window kit.
- Ceiling kit.
- Fixed grille.
- Gravity grille.

Wiring diagrams shown on page XXVII.

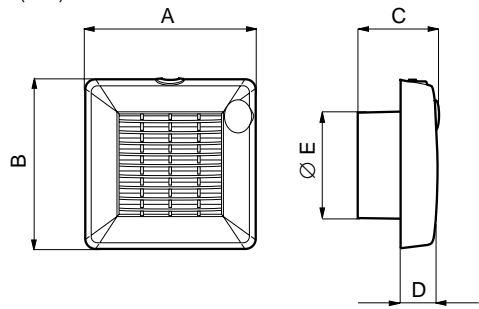


- ① Installation showing extract directly to the outside.
- ② Ceiling installation on up to 4m duct.
- ③ Through the wall insulation with wall sleeve and grille.

**Pull cord feature.** An integral pull cord allowing the user to manually switch the unit on at maximum speed. An indicator light is illuminated when in manual over-ride. The over-ride facility can also be connected to a remote switch not supplied).

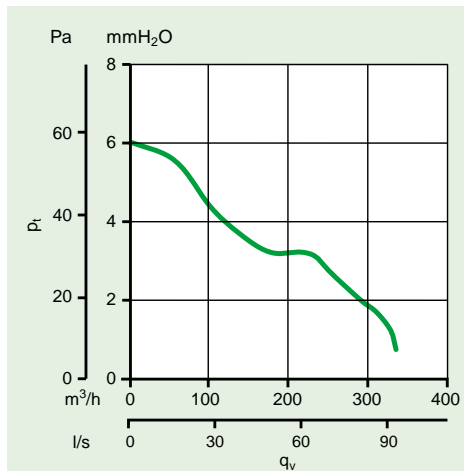
**HCS Feature.** Complete with an HCS (Humidity Control System) humidity sensor, the unit switches on at low speed when humidity exceeds the set point, and off again once humidity drops below the set point. The Relative Humidity (R.H.) set point is adjustable between 60% and 80% (±3%). It is also possible to over ride the HCS facility by using the pull cord which switches the fan on at full speed.

**Dimensions (mm)**



	A	B	C	D	Ø E
<b>M 150/6"</b>	214	215	117	47	156

**Pressure/performance curve**



Product	Code	V - 50 Hz	W		A		Rpm		Delivery				P max		Lp dB(A) 3 m	Approvals	kg	Insulation	IP	°C max			
			min	max	min	max	min	max	min	max	min	max	min	max							min	max	
<b>M 150/6"</b>	11854	230-240	6	30	0.07	0.15	760	2100	110	335	30.5	93.5	0.7	6	6.8	59	24	46		1.1	cl.II	X4	50

IN-LINE AXIAL FANS SUITABLE FOR UNOBTRUSIVE WALL OR DUCTED INSTALLATION

VORTICE PUNTO SLIM RANGE

**LONG LIFE** 30.000 h



- Due to their ultra slim grille profile, slim in-line fans can blend unobtrusively into every kind of environment. Suitable for installation in walls, ceilings/false ceilings. Complies with the requirements of Part F1 of the Building Regulations even when connected on 3m flexible aluminium duct (with 2 x 90° bends)
- 4 models available with or without timer Ø 90 and 100 mm
- The timer is adjustable for 3 to 20 minutes.
- IMQ data label ensures data

- and performance is third party certified.
- Motor with shielded poles and ball bearings (30.000 h guaranteed continuous operation) with thermal cut-out. Except codes (11112-11113).
- High airflow rate and low operating noise level due to wing-profile blades.
- Ultra slim grille and grille holder made of anti-uv abs thermoplastics.
- IPX4 splashproof protection on all models.
- Conforms to the following standards: EN 60335-2-80 (part 2: Particular requirements for fan), EN 60529 (code IP) and CEI 107-53/1986.

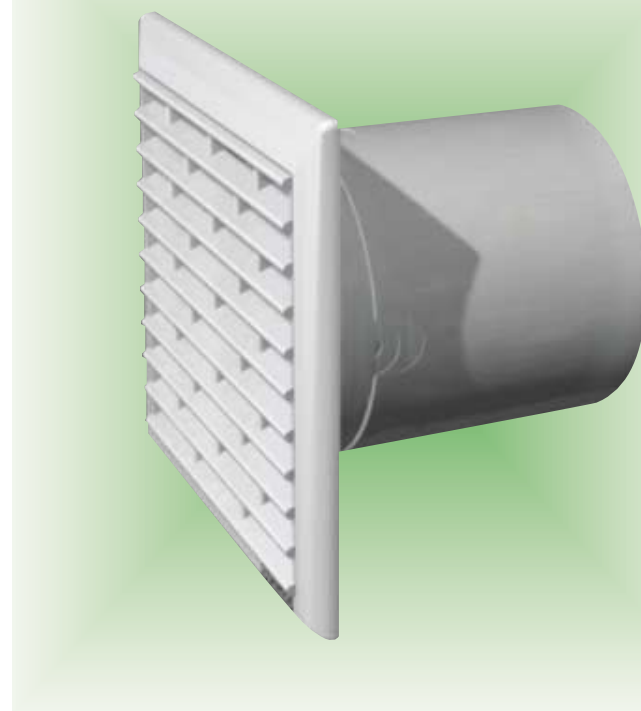
Design: F. Trabucco & Associates

**Accessories**

(description and data on page 54)

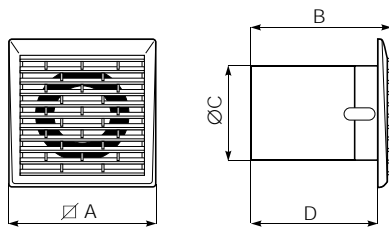
- SCNR electronic speed controller for standard models (code 12912)
- SCNRB built-in electronic speed controller for standard models (code 12971)
- Grille kit (code 22140-22143)
- 3m Ø 100mm flexible aluminium duct (code 22050)
- Surface wiring kit (code 22253)

Wiring diagrams shown on page XXVII.



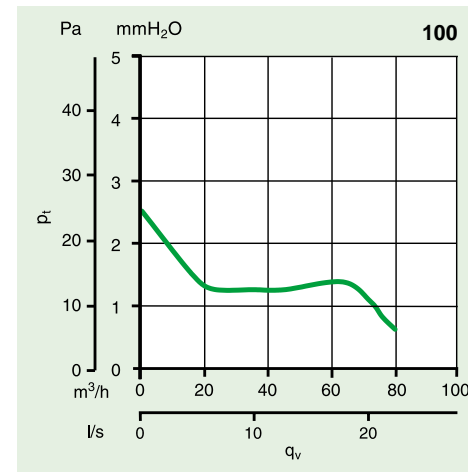
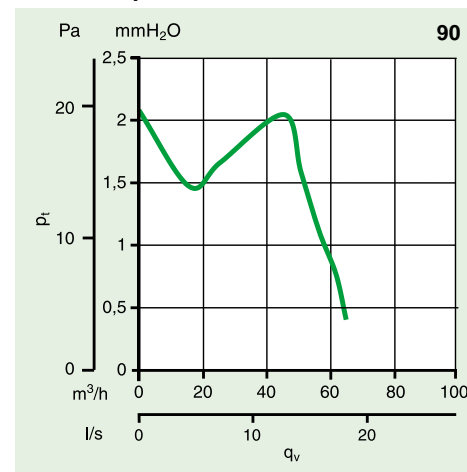
① Unique and stylish ultra slim grille (just 10,5 mm max)

**Dimensions (mm)**



	∅ A	B	∅ C	D
<b>MS 90/3.5"</b>	140	119.5	92.5	109
<b>MS 90/3.5" T</b>	140	119.5	92.5	109
<b>MS 100/4"</b>	140	119.5	99	109
<b>MS 100/4" T</b>	140	119.5	99	109

**Pressure/performance curve**



Product	Code		V ~ 50 Hz	W	A	Rpm	Delivery		P max		Lp dB(A) 3 m	Approvals	kg	Insulation	IP	°C max	
	TIMER						m³/h	l/s	mm H <sub>2</sub> O	Pa							
<b>MS 90/3.5"</b>	11112	11113	230-240	18	0.10	2450	65	18	2.1	21	38		0.45		cl.II	X4	40
<b>MS 100/4" LL</b>	11114	11115	230-240	18	0.10	2415	80	22	2.6	25	40		0.48		cl.II	X4	40

IN-LINE AXIAL FANS Ø 100 MM WITH OR WITHOUT TIMER, COMPLETE WITH FLEXIBLE DUCT, GRILLES, MOUNTING BRACKET AND PIPE CLAMPS

PUNTO GHOST KIT RANGE

**LONG LIFE** 30.000 h



- For continuous ventilation of toilet, bathroom, kitchen and utility room in domestic properties. Complies with the requirements of Part F1 of the Building Regulations even when connected on 3m flexible aluminium duct (with 2 x 90° bends).
- 2 models available with or without timer Ø 100 mm.
- The timer is adjustable from 3 to 20 minutes.
- IMQ data label ensures data and performance is third party certified
- Motor with shielded poles and ball bearings (30.000 h guaranteed continuous operation) with thermal cut-out
- High airflow rate and low operating noise level due

- to wing-profile blades.
- IPX4 splashproof protection on all models
- Conforms to the following standards: EN 60335-2-80 (Part 2: Particular requirements for fan) EN 60529 (Code IP) and CEI 107-53/1986.53/1986.

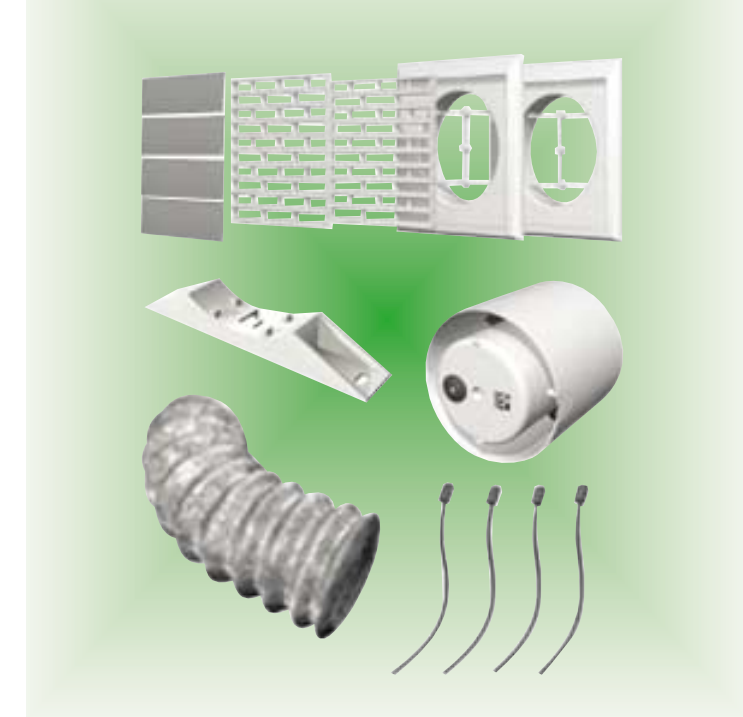
Design: Trabucco & Associates

**Accessories**

(description and data on page 54)

- SCNR electronic speed controller (code 12912) not for timer version.
- SCNRB recessed electronic speed controller (code 12971) not for timer version.

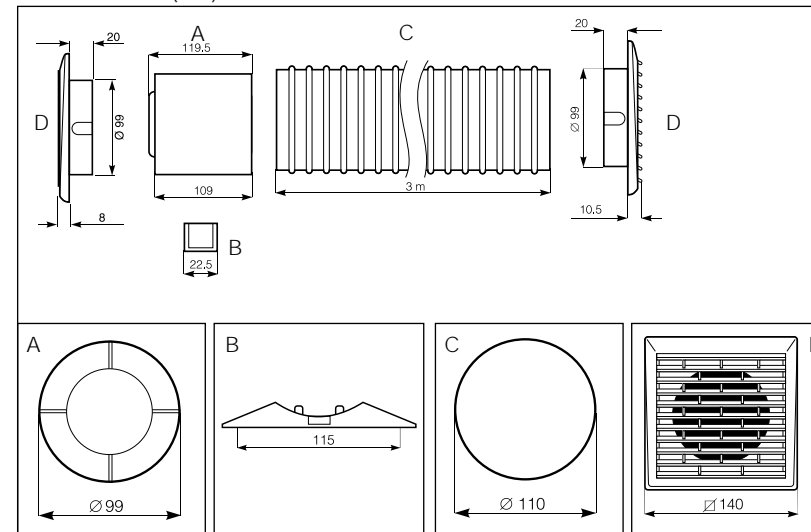
Wiring diagrams shown on page XXVII.



**COMPOSITION OF PUNTO GHOST KIT**

- MG 100/4": in-line axial fan Ø 100 mm
- Mounting brackets: made of PS shock-resistant resin for ceiling / loft mounting.
- Flexible aluminium duct extendible up to 3m
- Pipe clamps
- Gravity grille (suitable for external protection) and fixed grille (internal and external protection) made of ABS thermoplastic.

**Dimensions (mm)**



Product	Code	V ~ 50 Hz	W	A	Rpm	Delivery		P max		Lp dB(A) 3 m	Approvals	kg	Insulation	IP	°C max	
						m³/h	l/s	mm H <sub>2</sub> O	Pa							
<b>MGK 100/4"</b>	11106	230-240	18	0.1	2415	80	22	2.6	25	39		0.9		cl.II	X4	40
<b>MGK 100/4" T</b>	11107	230-240	18	0.1	2415	80	22	2.6	25	39		0.9		cl.II	X4	40

IN-LINE AXIAL FANS SUITABLE FOR UNOBTRUSIVE WALL OR DUCTED INSTALLATION

**NEW**

**VORTICE PUNTO GHOST RANGE**

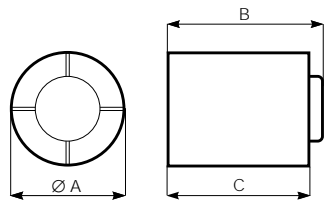
**LONG LIFE 30.000 h**

- Complies with the requirements of Part F1 of the Building Regulations even when connected on 3m flexible aluminium duct (with 2 x 90° bends). Suitable for installation in walls, ceilings/false ceilings, lofts, internal walls. These fans can be used as temperature blenders in adjacent rooms.
- 10 models available with and without timer Ø 100-120-150 mm.
- The timer is adjustable from 3 to 20 minutes.
- IMQ data label ensures data and performance is third party certified
- Motor with shielded poles and ball bearings (30.000 h guaranteed continuous operation) with thermal cut-out. Except codes (11110-11111-11116-11117).
- High airflow rate and low operating noise level due to wing-profile blades.
- IPX4 splashproof protection on all models.
- Conforms to the following standards: EN 60335-2-80 (Part 2: Particular requirements for fans) EN 60529 (Code IP) and CEI 107-53/1986.

Design: F. Trabucco & Associates



**Dimensions (mm)**



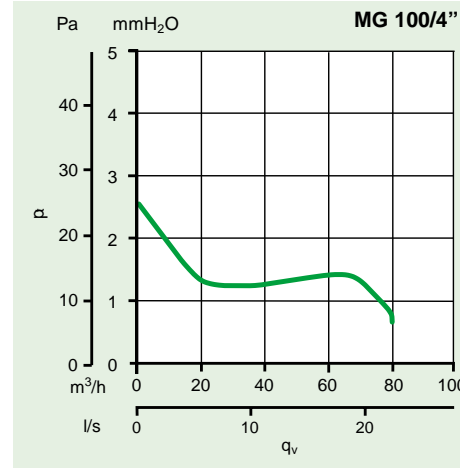
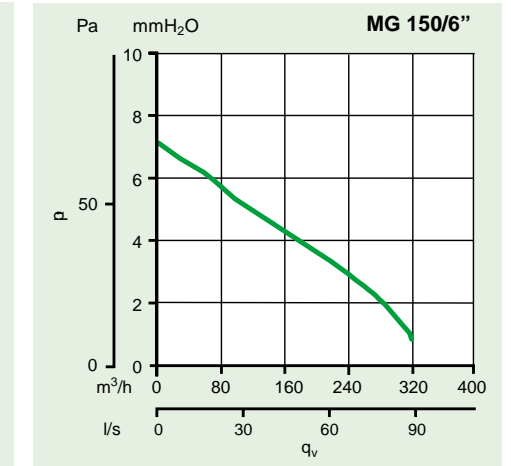
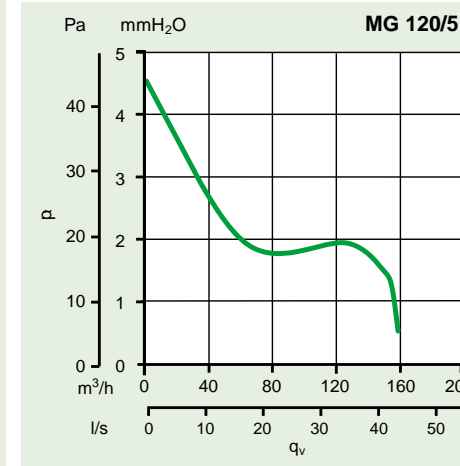
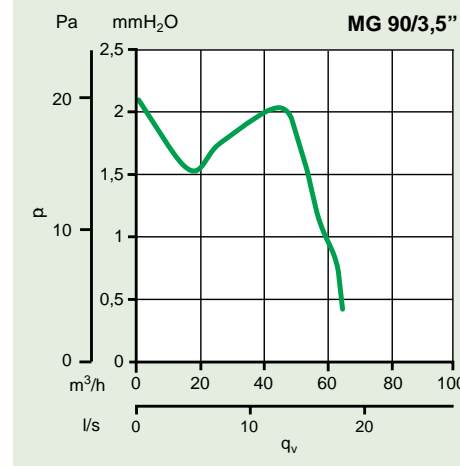
MG	Ø A	B	C
MG 90/3.5"	92.5	92	89
MG 90/3.5" T	92.5	96.5	89
MG 100/4" LL	99	92	92
MG 100/4" T LL	99	96.5	92
MG 120/5" / LL	119	103	100
MG 120/5" T LL	119	107.5	100
MG 150/6" / LL	155	110	107
MG 150/6" T LL	155	114.5	107

Product	Code		V ~ 50 Hz	W	A	Rpm	Delivery		P max		Lp dB(A) 3 m	Approvals	kg	Insulation	IP	°C max	
	TIMER						m³/h	l/s	mm H₂O	Pa							
MG 90/3.5"	11110	11111	230-240	18	0.10	2450	65	18	2.1	21	38		0.45		cl.II	X4	40
MG 100/4" LL	11100	11101	230-240	18	0.10	2415	80	22.2	2.6	25	39		0.43		cl.II	X4	40
MG 120/5"	11116	-	230-240	20	0.12	2250	160	44	4.5	44	43		0.56		cl.II	X4	50
MG 120/5" LL	11102	11103	230-240	20	0.12	2250	160	44.4	4.5	44	43		0.56		cl.II	X4	50
MG 150/6"	11117	-	230-240	30	0.18	2200	320	89	7.0	69	48		0.80		cl.II	X4	50
MG 150/6" LL	11104	11105	230-240	30	0.18	2200	320	88.9	7.0	69	48		0.80		cl.II	X4	50



False-ceiling installation (with optional kit). Installation showing extract directly to the outside (with optional kit). Wall installation. Installation as temperature blenders in adjacent rooms.

**Pressure/performance curves**



**Accessories on request (description and data on page 54)**

Model	Code	Product
SCNR electronic speed controller	12912	11100 - 11102 - 11104 11110 - 11116 - 11117
SCNRB built-in electronic speed controller	12971	11100 - 11102 - 11104 11110 - 11116 - 11117
Complete installation kit	22262 22263 22264 22265	11100 - 11101 11102 - 11103 - 11116 11104 - 11105 - 11117 11110 - 11101
Grille kit	22140 22141 22142 22143	11100 - 11101 - 11110 - 11111 11102 - 11103 - 11116 11104 - 11105 - 11117 11110 - 11111
3 mtrs flexible aluminium duct	22250 22251 22252	11100 - 11101 - 11110 - 11111 11102 - 11103 - 11116 11104 - 11105 - 11117
Surface wiring kit	22253 22254 22255	11100 - 11101 - 11110 - 11111 11102 - 11103 - 11116 11104 - 11105 - 11117
Telescopic wall liner	22256 - 8021* 22257 - 8035* 22258 - 8321*	11100 - 11101 - 11110 - 11111 11102 - 11103 - 11116 11104 - 11105 - 11117
Loft mounting brackets	22259 22260 22261	11100 - 11101 - 11110 - 11111 11102 - 11103 - 11116 11104 - 11105 - 11117

\*Available only in UK

Wiring diagrams shown on page XXVII.



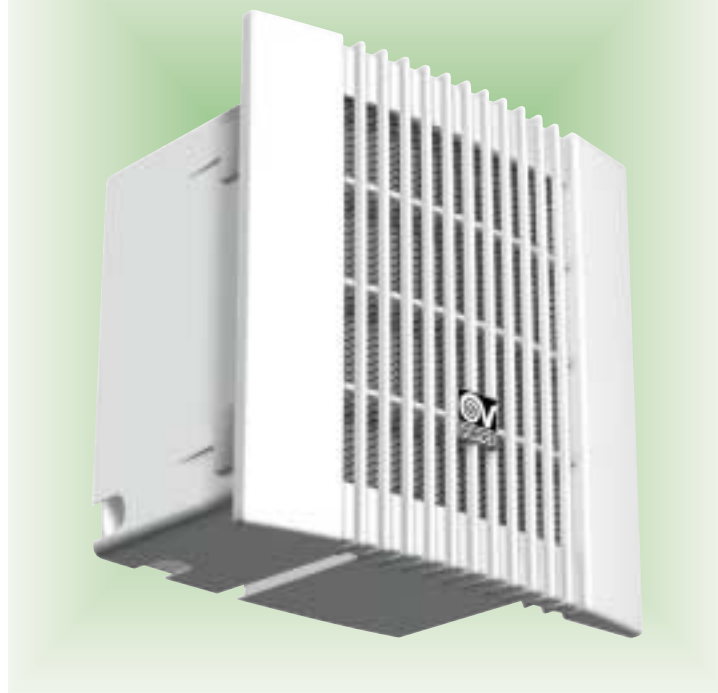
# CENTRIFUGAL EXTRACTOR FANS, FOR FLUSH MOUNTING IN WALLS OR SUITABLE FOR LONG DUCT RUNS.

## ARIETT RECESSED RANGE

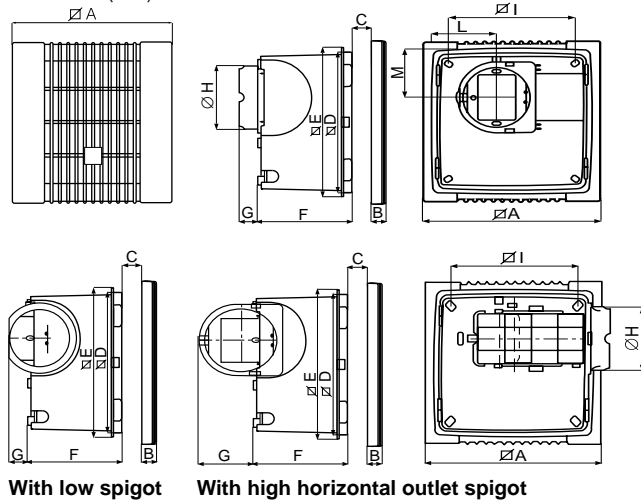
- Suitable for use in bathrooms, shower rooms and toilets. Complete with brackets and template, they are designed to be quickly and easily installed by one person. They also have the option of vertical or horizontal extract points.
- Powerful yet very quiet in operation, the unobtrusive styling provides all necessary extract requirements, while complementing the décor of the room. The fans meet all necessary requirement of F1 building regulations.
- The five Ariett models offer the choice of basic model, a timer version or built-in microprocessor for intelligent condensation control.
- All fans have the optional side or rear exit low profile connector, or high profile connector.
- These have been specifically designed for ceilings where the void area is restricted, for example, downstairs or between floors. In addition, there is a choice of fixing kits available. A template is supplied to allow easy cutting of the access hole.
- Developed with UK house builders and contractors.

Design: F. Trabucco & Associates

**LONG LIFE 30.000 h**

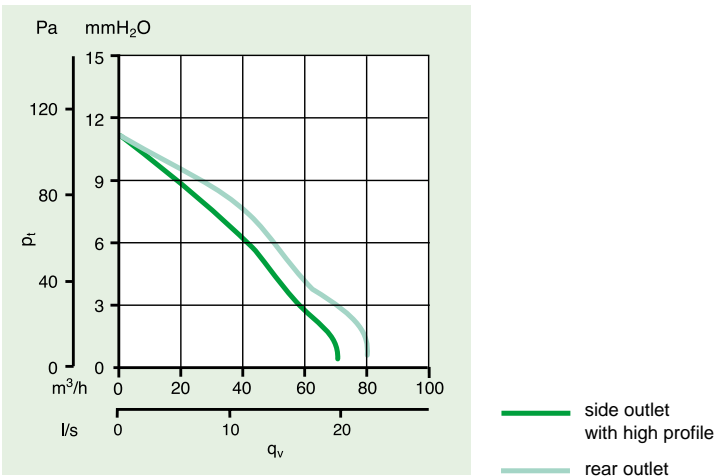


### Dimensions (mm)



	∅A	B	C	∅D	∅E	F	G	∅H	∅I	L	M
<b>Ariett LL I</b>	252	23	65	214.5	228	135.3	31.5/76.7	96.5	180	92	76

### Pressure/performance curve



Product	Code			V ~ 50 Hz	W	A	Rpm	Delivery		P max		Approvals	kg	Insulation	IP				
	TIMER	MHC						m³/h	l/s	mm H₂O	Pa								
Ariett I	12012	12013	12014	220-240	19	0.13	2450 <sup>(1)</sup> 2490 <sup>(2)</sup> 2580 <sup>(3)</sup>	80 <sup>(1)</sup> 70 <sup>(2)</sup> 55 <sup>(3)</sup>	22.2 <sup>(1)</sup> 19.4 <sup>(2)</sup> 15.3 <sup>(3)</sup>	11	108	[Logo]	1.9	Cl.II	X4				
	12010	12011	-	220-240	19	0.13	2450 <sup>(1)</sup> 2490 <sup>(2)</sup>	80 <sup>(1)</sup> 70 <sup>(2)</sup>	22.2 <sup>(1)</sup> 19.4 <sup>(2)</sup>	11	108					[Logo]	1.9	Cl.II	X4

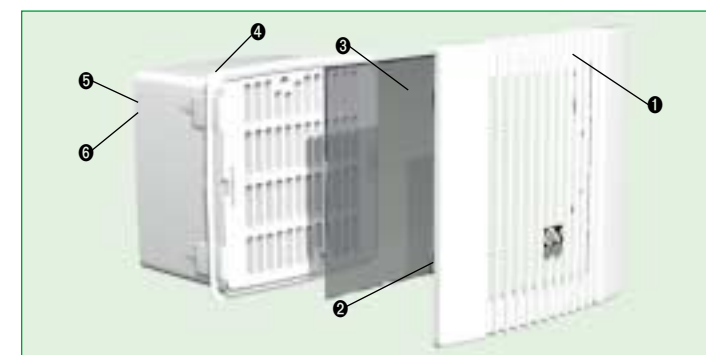
<sup>(1)</sup>Rear air outlet. <sup>(2)</sup>Side air outlet with high profile. <sup>(3)</sup>Side air outlet with low profile.

# CEILING, PROVIDED WITH IPX4 SPLASHPROOF PROTECTION, THESE FANS ARE



Wall-mounted with side extract. Wall-mounted with perpendicular extract. Ceiling-mounted. False-ceiling-mounted with perpendicular extract. Motor with ball bearings: 30,000 hours guaranteed continued operation. False-ceiling-mounted with low-profile spigot.

Supply and install an Ariett centrifugal extract fan with a removable, integral back draught shutter for flush mounting installation in wall or ceiling and ducted applications as manufactured exclusively by Vortice only for Vortice. The fan should have a performance in excess of the requirements of the Building Regulations (Document F). The requirements are 15 l/s for bathrooms/toilets/shower rooms and 6 l/s for toilets (model with a 15 minute overrun timer for internal rooms). It should be tested and certified as IPX4 (splashproof) with all performance data third party IMQ (BEAB recognised equivalent) verified. The fan should have an unobtrusive, spring clip-fix front grille complete with washable metallic filter. The rear spigot should provide a choice of either vertical or horizontal entry and be able to accept both the optional high and low profile connectors. The motor should include a thermal cut out device. Fixing brackets and template should be provided with the fan. Control options should include: Speed control (using an optional controller), Timer and MHC (microprocessor humidity control).



- 1 Unobtrusive front grille.
- 2 Support springs for the front grille, suitable for 65mm max false ceilings.
- 3 Metallic filter which can be removed and washed (dishwasher safe).
- 4 Made of rigid synthetic resin to guarantee high durability.
- 5 100 mm dia. Outlet spigot which can be positioned to the rear or side (using optional accessories).
- 6 Backdraught-shutter to avoid back-flow when unit is turned off.

### Accessories/Ancillaries (see also on page 54)

Model	Code	Products
	12912	12010 - 12012*
	12971	12010 - 12012*
	22823	for all products
	22824	for all products
	22841	for all products
	22842	for all products
	22010	for all products

\*Available only in UK

### Spare Parts

- Metallic anti-dust filter. (cod. 1193006023).

Wiring diagrams shown on page XXVII.

WALL OR CEILING-MOUNTED CENTRIFUGAL EXTRACTOR FANS, WITH IPX4 PROTECTION SUITABLE FOR DUCTED INSTALLATION.

**ARIETT MODELS**



- For bathrooms, showers and toilets.
  - Available with or without timer.
  - The timer is adjustable for 3 to 20 min.
  - Basic model has bronze bearing motor. Motor with shielded poles and ball bearings (30,000 hours guaranteed continuous operation) with thermal cut-out.
  - IMQ information label certifies third party product data and performance.
  - Complies with the CEI EN 60335-2-80 standards and IPX4 splashproof protection.
- Design: F. Trabucco and M. Vecchi*
- Wiring diagrams shown on page XXVII.

**LONG LIFE 30.000 h**



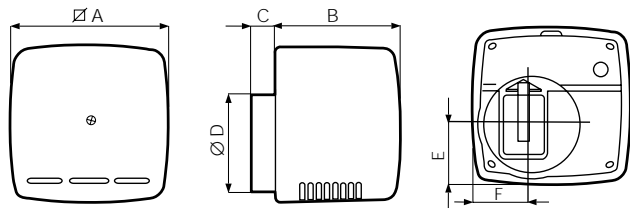
- ① Ducted installation.
- ② Wall or ceiling-mounted installation.
- ③ Model LL with motor with ball bearings: 30,000 h of guaranteed continuous operation.

**Accessories on request (description and data on page 54)**

Model	Code	Products
Electronic thermo-humidistat Humidity Control	12908	11965 - 11961
SCNR electronic speed controller	12912	11965 - 11961
SCNRB electronic speed controller	12971	11965 - 11961
Fixed grille	22010	for all products

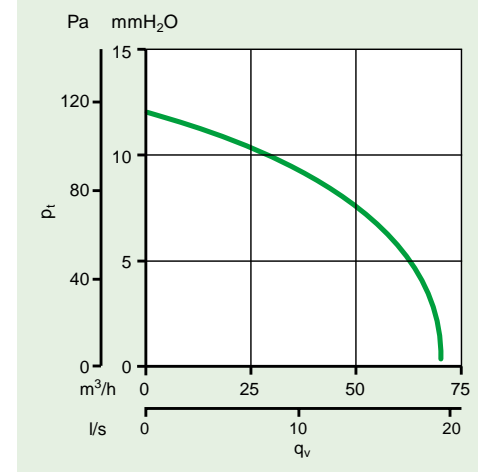
Supply and install an Ariett centrifugal extract fan with integral backdraught shutter for installation in wall or ceiling and ducted applications as manufactured exclusively by Vortice only for Vortice. The fan should have a performance in excess of the requirements of the Building Regulations (Document F). The requirements are 15l/s for bathrooms/toilets/shower rooms and 6 l/s for toilets (model with a 15 minute overrun timer for internal rooms). It should be tested and certified as IPX4 (splashproof) with all performance data third party IMQ (BEAB recognised equivalent) verified. The fan should have a high impact ABS thermoplastic resin cover and be supplied with an anti vibration support gasket for tiled or uneven walls. The motor should be either a bronze bush or a stainless steel ball bearing, shielded pole motor (30,000-hour guarantee), and include a thermal cut out device. Control options should include: Speed control (using an optional controller), Timer and MHC (microprocessor humidity control).

**Dimensions (mm)**



	∅ A	B	C	∅ D	E	F
<b>Ariett</b>	156	123	25	97	60	60

**Pressure/performance curve**



Product	Code		V ~ 50 Hz	W	A	Rpm	Delivery		P max		Approvals	kg	Insulation	IP
	TIMER						m³/h	l/s	mm H <sub>2</sub> O	Pa				
Ariett LL	11965	11966	220-240	18	0.14	2450	70	19.4	12	118	40	1.47	cl.II	X4
Ariett	11961*	11976*	220-240	18	0.14	2450	70	19.4	12	118	40	1.47	cl.II	X4

\*Available only in UK

Conforms with ISO 3744 for noise and pressure levels

WALL OR CEILING MOUNTED CENTRIFUGAL EXTRACTOR FAN WITH LONG LIFE MOTOR AND IPX4 PROTECTION. AUTOMATICALLY OPERATED BY A PIR DETECTOR

**NEW**

**ARIETT LL PIR**

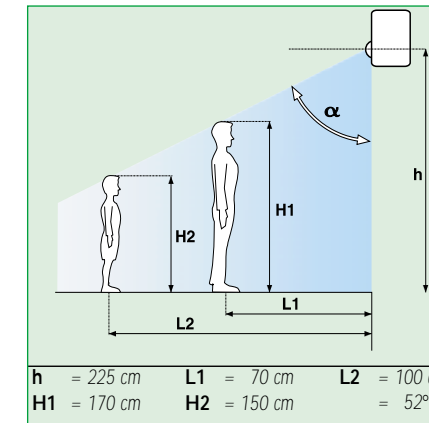


- For the ventilation of areas with intermittent use (small bathrooms, private or public toilets).
  - Motor with shielded poles and ball bearings (guaranteed for 30,000 fault-free hours of operation) and thermal overload protection.
  - Certified data and performances compliant with IMQ requirements.
  - Manufactured in compliance with CEI 60335-2-80 standards, IPX4 splashproof protection.
- Design: F. Trabucco and M. Vecchi*
- Accessories**  
(description and data on page 54)
- Air flow deflector (code 22310) not available in UK.
  - Fixed grille (code 22010).
- Wiring diagrams shown on page XXVII.

**LONG LIFE 30.000 h**

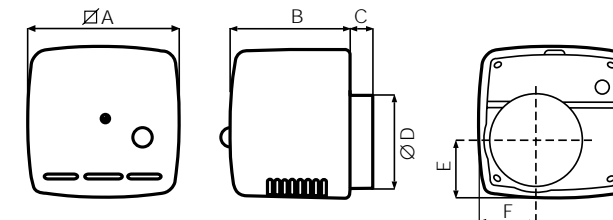


- ① Wall or ceiling mounted.
- ② Ducted installation.
- ③ PIR Sensor: turns on automatically after person enters the room.



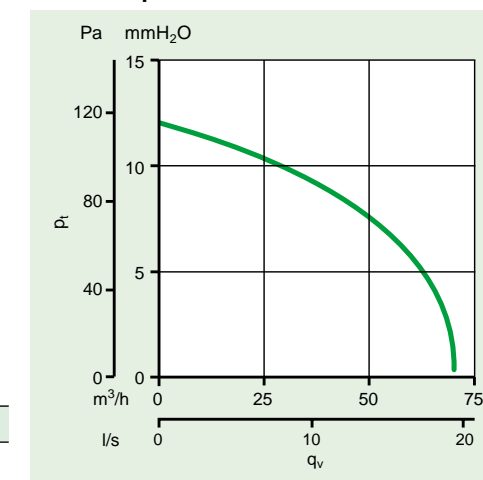
Activation range of PIR detector.

**Dimensions (mm)**



	∅ A	B	C	∅ D	E	F
<b>Ariett LL PIR</b>	156	123	25	97	60	60

**Pressure/performance curve**



Product	Code	V ~ 50 Hz	W	A	Rpm	Delivery		P max		Approvals	kg	Insulation	IP
						m³/h	l/s	mm H <sub>2</sub> O	Pa				
Ariett LL PIR	12015	220-240	18	0.14	2450	70	19.4	12	118	40	1.45	cl.II	X4

Conforms to ISO 3744 for noise and pressure levels.

WALL AND CEILING-MOUNTED CENTRIFUGAL EXTRACTOR FANS WITH ELECTRONIC MICROPROCESSOR FOR AUTOMATIC RELATIVE HUMIDITY AND TEMPERATURE CONTROL.

**ARIETT LL MHC**



- Includes same characteristics as the LL models described on the previous page.
  - Latest electronic micro-chip technology provides high accuracy in continuous monitoring of both temperature and humidity.
  - Intelligent self-adjusting switch-point which helps eliminate condensation at source and reduce health hazards and call backs.
  - Low temperature (night time) set-back facility.
  - Every model can be optionally wired to operate an over-run timer.
- Design: F. Trabucco and M. Vecchi  
Wiring diagrams shown on page XXVII.

**LONG LIFE 30.000 h**

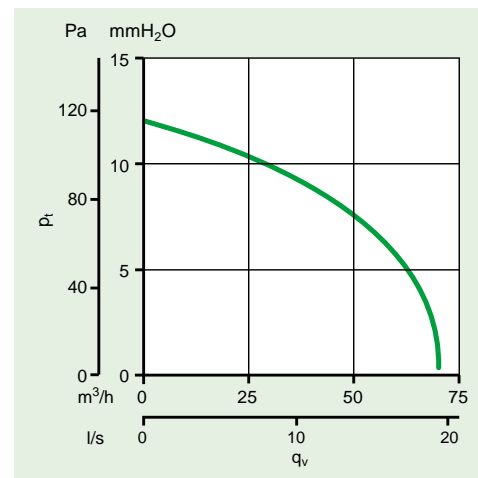


- 1 Ducted installations.
- 2 Wall or ceiling-mounted.
- 3 The microprocessor continually monitors the ambient conditions to maintain the ideal room conditions.

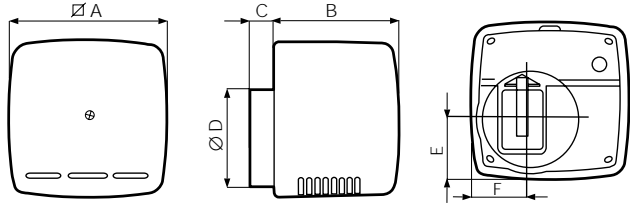


- 1 High impact ABS thermoplastic resin cover.
- 2 Nylon-fibreglass fan blades.
- 3 Antivibration support gasket, used for mounting on tiled or uneven walls.
- 4 Backdraught shutter to avoid back flow when unit is turned off.
- 5 100 mm dia. outlet spigot.
- 6 Complete with fixings.

Pressure/performance curve



Dimensions (mm)



	∅ A	B	C	∅ D	E	F
Ariett LL MHC	156	123	25	97	60	60

Product	Code	V ~ 50 Hz	W	A	Rpm	Delivery		P max		Lp dB(A) 3 m	Approvals	kg	Insulation	IP
						m³/h	l/s	mm H <sub>2</sub> O	Pa					
Ariett LL MHC	11962	220-240	18	0.14	2450	70	19.4	12	118	40		1.45	cl.II	X4

Conforms with ISO 3744 for noise and pressure levels

WALL OR CEILING MOUNTED CENTRIFUGAL FAN WITH PULL CORD AND HUMIDISTAT

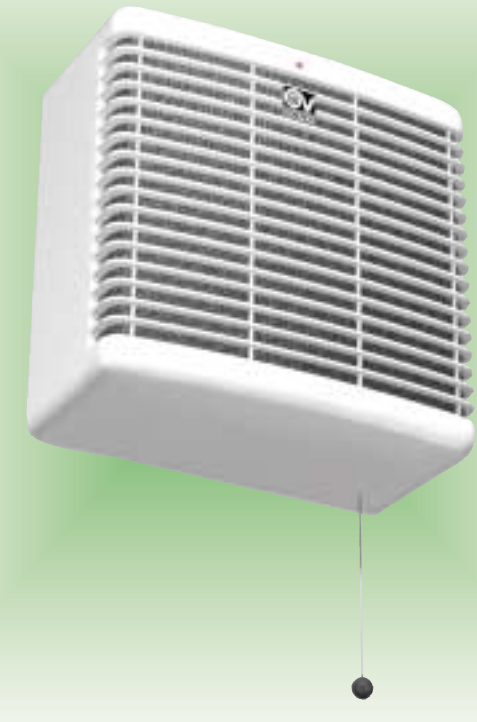
**NEW**

**VORT PRESS 220 RANGE P HCS D LL**

**LONG LIFE 30.000 h**



- For intermittent or continuous ventilation of kitchens, and small/medium rooms in domestic or commercial properties.
  - Housing, motor support and grille made of high-impact ABS thermoplastic resin.
  - Motor and fan mounted on anti-vibration supports.
  - Removable washable metallic filter.
  - Silent silicon back draught shutter.
  - The unit can be rotated by 90 degrees to allow the optimum siting of the unit during installation.
  - The pullcord should be removed, and a remote over ride switch (not supplied) fitted.
- Design: F. Trabucco - M. Vecchi

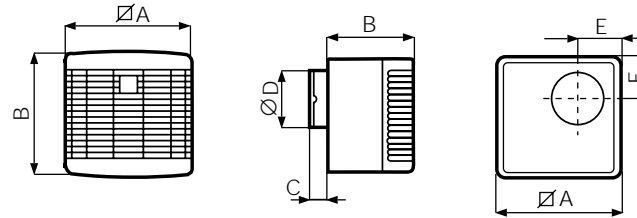


- 1 Ducted installation.
- 2 Wall or ceiling installation.
- 3 Kitchen installation.

**Pull cord feature.** An integral pull cord allowing the user to manually switch the unit on at maximum speed. An indicator light is illuminated when in manual over-ride. The over-ride facility can also be connected to a remote switch (not supplied).

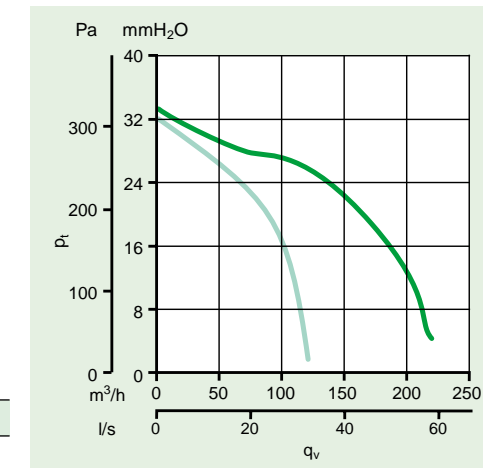
**HCS Feature.** Complete with a HCS (Humidity Control System) humidity sensor, the unit switches on at low speed when humidity exceeds the set point, and off again once humidity drops below the set point. The Relative Humidity (R.H.) set point is adjustable between 60% and 80% (±3%). It is also possible to over ride the HCS facility by using the pull cord which switches the fan on at full speed.

Dimensions (mm)



Vort Press 220 P HCS D LL	∅ A	B	C	∅ D	E
	275	140	28	97	73

Pressure/performance curve



Product	Code	V ~ 50 Hz	W		A		Rpm		Delivery		P max		Lp dB(A) 3 m		Approvals	kg	Insulation	IP
			max	min	max	min	max	min	max	min	max	min	max	min				
Vort Press 220 P HCS D LL	11926	220-240	68	35	0.3	0.24	2060	1200	220 <sup>min</sup> 61.1 <sup>min</sup>	120 <sup>max</sup> 33.3 <sup>max</sup>	33 <sup>min</sup> 324 <sup>min</sup>	32 <sup>max</sup> 314 <sup>max</sup>	55	43		2.3	cl.II	X4

<sup>min</sup>m³/h - <sup>min</sup>l/s - <sup>min</sup>mm H<sub>2</sub>O - <sup>min</sup>Pa

Conforms with ISO 3744 for noise and pressure levels

WALL OR CEILING-MOUNTED TWO-SPEED, CENTRIFUGAL EXTRACTOR FANS, WITH IPX4 PROTECTION, FOR EXTRACTION EITHER DIRECTLY TO THE OUTSIDE OR INTO DUCTING.

## ARIETT® LL HABITAT RANGE

**LONG LIFE 30.000 h**



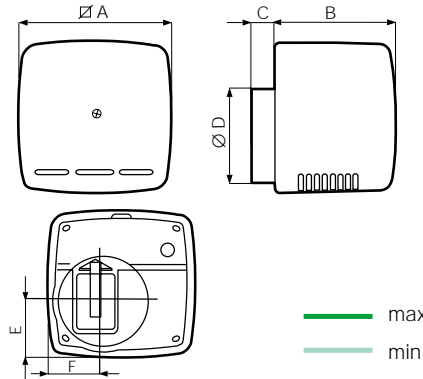
- For continuous ventilation, with boost facility. Ideal for use in public sector housing in bathrooms, showers, utilities and toilets.
  - Two models. Habitat 15/30 can be used to provide trickle ventilation for rooms housing open-flued combustion appliances.
  - Motor with shielded poles and ball bearings (30,000 h guaranteed continuous operation) with thermal protection.
  - Two speed motor.
  - IMQ information label certifies third party product data and performance.
  - Complies with the CEI EN 60335-2-80 standards and IPX4 protection.
  - Low power consumption.
  - Fully comply with F1 Building Regulations, plus 1.9D alternative approaches.
  - Antivibration support gasket, used for mounting on tiled or uneven walls.
  - Backdraught shutter to avoid back flow when unit is turned off.
  - 100 mm dia. outlet spigot.
  - Complete with fixings.
- Design: F. Trabucco - M. Vecchi*
- Accessories**  
(description and data on page 54)
- Wiring diagrams shown on page XXVII.



① Ducted installation. ② Wall or ceiling-mounted installation. ③ Motor with ball bearings: 30,000 h of guaranteed continuous operation.

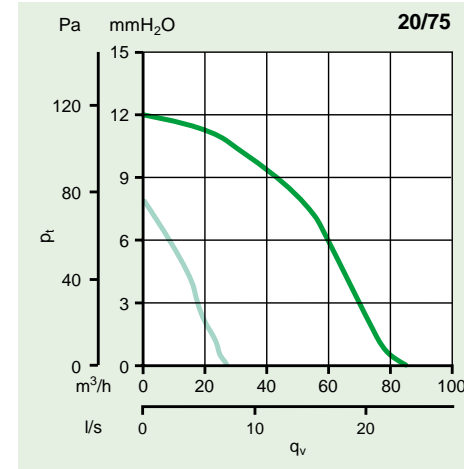
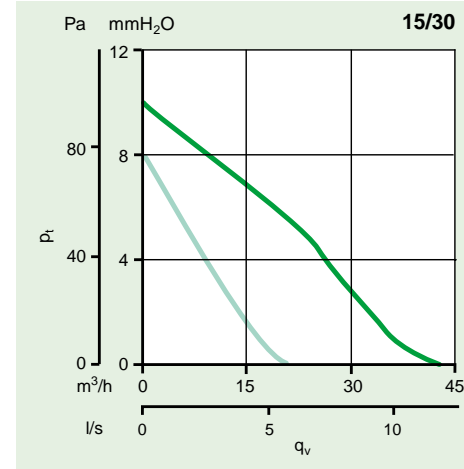
Supply and install an Ariett Habitat centrifugal extract fan with integral backdraught shutter for installation in wall or ceiling and ducted applications as manufactured exclusively by Vortice only for Vortice. The fan should provide continuous trickle ventilation at low speed and have a second boost speed option and comply with the requirements of the Building Regulations (Document F) and the alternative approach 1.9D. The requirements are 15 l/s for bathrooms/toilets/shower rooms and 6 l/s for toilets – alternative approach 1.9D requires 0.5 ACH throughout the dwelling. The 15/30 version should be capable of providing trickle ventilation in rooms where open flued combustion appliances are used. It should be tested and certified as IPX4 (splashproof) with all performance data third party IMQ (BEAB recognised equivalent) verified. The fan should have a high impact ABS thermoplastic resin cover and be supplied with an anti vibration support gasket for tiled or uneven walls. The motor should be a stainless steel ball bearing, shielded pole motor (30,000-hour guarantee), and include a thermal cut out device. It should consume 6 Watts per hour, or less, on trickle speed.

### Dimensions (mm)



	∅A	B	C	∅D	E	F
<b>Ariett Habitat</b>	156	123	25	97	60	60

### Pressure/performance curves



Product	Code	V ~ 50 Hz		A	Rpm	Delivery		P max		Lp 1m dB(A)	Approvals	Kg	Insulation	IP				
		min	max			min	max	min	max									
<b>Ariett Habitat</b> 	12000	230	5	8	0.02	0.04	1260	1870	20 <sup>(1)</sup> 5.6 <sup>(2)</sup>	43 <sup>(1)</sup> 11.9 <sup>(2)</sup>	8 <sup>(1)</sup> 78 <sup>(2)</sup>	10 <sup>(1)</sup> 98 <sup>(2)</sup>	30	41.5	Ⓜ	1.2	cl.II	X4
<b>Ariett Habitat</b> 	12001	230	6	25	0.03	0.17	890	2470	27 <sup>(1)</sup> 7.5 <sup>(2)</sup>	85 <sup>(1)</sup> 23.6 <sup>(2)</sup>	8 <sup>(1)</sup> 78 <sup>(2)</sup>	12 <sup>(1)</sup> 118 <sup>(2)</sup>	30.5	51	Ⓜ	1.4	cl.II	X4

<sup>(1)</sup> m<sup>3</sup>/h - <sup>(2)</sup> l/s - <sup>(3)</sup> mm H<sub>2</sub>O - <sup>(4)</sup> Pa

WALL OR CEILING-MOUNTED CENTRIFUGAL EXTRACTOR FANS, WITH IPX4 PROTECTION SUITABLE FOR DUCTED INSTALLATION.

## VORT PRESS® LL HABITAT RANGE

**LONG LIFE 30.000 h**



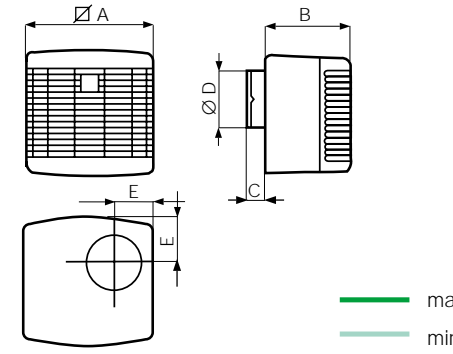
- For continuous ventilation with boost facility. Ideal for use in public sector houses in bathrooms, showers, toilets, utility rooms and kitchens.
  - Two models.
  - Motor with ball bearings (guaranteed 30,000 hours of continuous operation) with thermal cut-out.
  - Two speed motor.
  - Double motor-fan housing, anti-vibration supports and backdraught shutter for silent operation.
  - Complies with the CEI EN 60335-2-80 standards and IPX4 protection.
  - Low power consumption.
  - Metallic filter which can be removed and washed (dishwasher safe)
  - Fully comply with F1 Building Regulations, plus 1.9D alternative approaches.
- Design: F. Trabucco - M. Vecchi*
- Accessories**  
(description and data on page 54)
- Spare Parts**
- Metallic anti-dust filter (30/90: code 1193006019 - 45/135: code 1193006021).
- Wiring diagrams shown on page XXVII.



① Ducted installation. ② Wall or ceiling installation. ③ Motor with ball bearings: 30,000 hours guaranteed continuous operation.

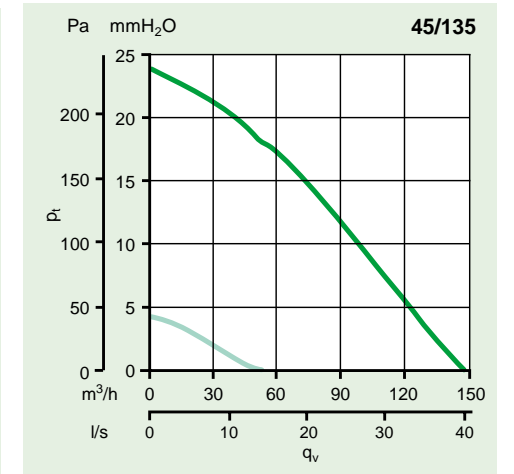
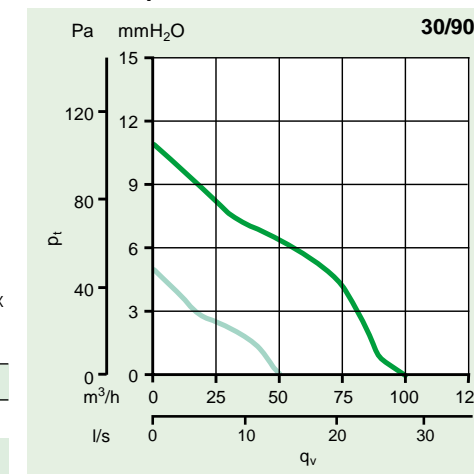
Supply and install a Vort Press Habitat centrifugal extract fan with removable, integral backdraught shutter for installation in wall or ceiling and ducted applications as manufactured exclusively by Vortice only for Vortice. The fan should provide continuous trickle ventilation at low speed and have a second boost speed option and comply with the requirements of the Building Regulations (Document F) and the alternative approach 1.9D. The requirements are 15 l/s for bathrooms/toilets/shower rooms and 6 l/s for toilets – alternative approach 1.9D requires 0.5 ACH throughout the dwelling. It should be tested and certified as IPX4 (splashproof) with all performance data third party IMQ (BEAB recognised equivalent) verified. The fan should be manufactured from durable, rigid synthetic resin and have a clip-fix front grille complete with washable metallic filter. The motor should be a stainless steel ball bearing, shielded pole motor (30,000-hour guarantee), and include a thermal cut out device. It should consume 8 Watts per hour, or less, on trickle speed.

### Dimensions (mm)



VP Habitat	∅A	B	C	∅D	E
<b>30/90</b>	202	147	30	97	73
<b>45/135</b>	275	140	28	97	73

### Pressure/performance curves



Product	Code	V ~ 50 Hz		A	Rpm	Delivery		P max		Lp 1m dB(A)	Approvals	Kg	Insulation	IP				
		min	max			min	max	min	max									
<b>Vort Press Habitat</b> 	12002	230	8	22	0.06	0.18	820	1450	51 <sup>(1)</sup> 14.2 <sup>(2)</sup>	101 <sup>(1)</sup> 28.1 <sup>(2)</sup>	4 <sup>(1)</sup> 39 <sup>(2)</sup>	14 <sup>(1)</sup> 137 <sup>(2)</sup>	28.5	44.5	Ⓜ	2.1	cl.II	X4
<b>Vort Press Habitat</b> 	12004	230	4	29	0.04	0.12	430	1170	52 <sup>(1)</sup> 14.4 <sup>(2)</sup>	149 <sup>(1)</sup> 41.4 <sup>(2)</sup>	5 <sup>(1)</sup> 49 <sup>(2)</sup>	23 <sup>(1)</sup> 225 <sup>(2)</sup>	26.5	48	Ⓜ	2.7	cl.II	X4

<sup>(1)</sup> m<sup>3</sup>/h - <sup>(2)</sup> l/s - <sup>(3)</sup> mm H<sub>2</sub>O - <sup>(4)</sup> Pa

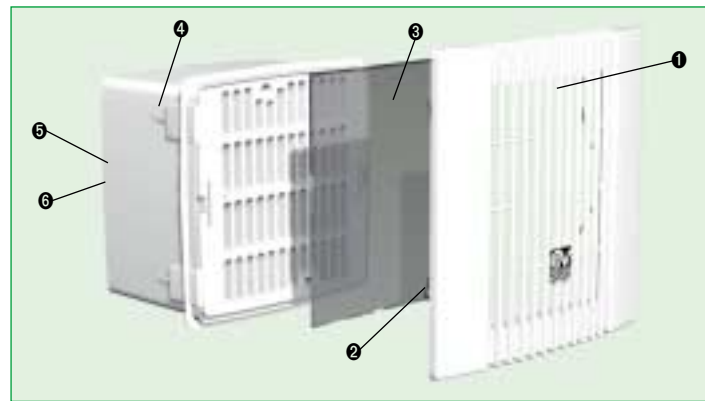
# WALL OR CEILING, FLUSH-MOUNTED CENTRIFUGAL EXTRACTOR FANS, WITH IPX4

## VORT PRESS® LL FLUSH-MOUNTED MODELS

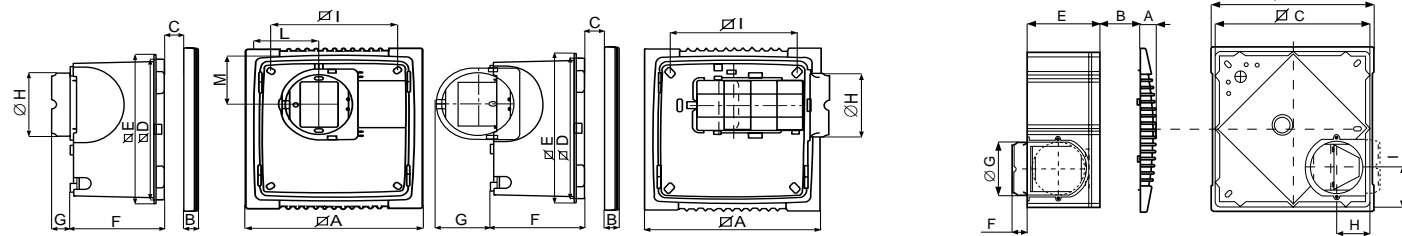
**LONG LIFE 30.000 h**

- For the ventilation of medium-sized or large rooms in commercial applications plus bathrooms/showers/toilets/utilities and kitchens in domestic situations.
- Six models with or without timers.
- "Intelligent" timer turns the unit on approximately 40 sec. after the activation. When switched off, the unit continues to operate at the minimum speed for between 30 sec. and 30 min. (depending on the setting).
- Motor with ball bearings (guaranteed 30,000 hours of continuous operation) with thermal cut-out.
- Two speed motor.
- IMQ information certifies third party product data and performance.
- Double motor-fan housing, anti-vibration supports and backdraught shutter for silent operation.
- Complies with the CEI 61-28 (140/240) and EN 60335-2-80 (110) standards and IPX4 protection.

Design: F. Trabucco & Associati (110) and F. Trabucco and M. Vecchi (140/240).



- Unobtrusive front grille with support springs which clamp it to the surface, making it suitable for all types of walls and ceilings (max 65 mm).
- Metallic filter can be removed and washed (dishwasher safe).
- Made of rigid synthetic resin to guarantee high durability.
- On 110 model, the outlet spigot can be changed to a high or low level spigot.
- Silicon backdraught shutter on 140 and 240 models to avoid back flow when unit is turned off.



Vort Press LL I	A	B	C	∅D	∅E	F	G	∅H	I	M	
110	252	23	65	214.5	228	135.3	31.5/76.7	96.5	180	92	76

Vort Press LL I	A	B	∅C	∅D	E	F	∅G	H	I
140 / 240	28	65	284	300	133	28.5	97	62	71.5

Product	Code		V ~ 50 Hz	W		A		Rpm		Delivery		P max		Lp dB(A)		Approvals	kg	Insulation	IP			
	TIMER			max	min	max	min	max/min	max/min	max/min	max/min	max/min	max/min	max/min	max/min					max/min		
Vort Press 110 LL I - T	11995	11996	220-240	24	12	0.18	0.07	1720	1980	120	100	33.3	27.8	14.5	13.5	142	132	41	<30	2.1	Cl.II	X4
Vort Press 140 LL I - T	11971	11972	220-240	22	6	0.1	0.05	1130	829	118	140	32.8	38.9	22	22	216	216	38	<30	2.9	Cl.II	X4
Vort Press 240 LL I - T	11973	11974	220-240	65	33	0.3	0.25	2180	1550	220	240	61.1	66.7	33	34	324	334	56	44	3.3	Cl.II	X4

<sup>1</sup>Rear air outlet. <sup>2</sup>Side air outlet with high profile. <sup>3</sup>Side air outlet. <sup>4</sup>11971. <sup>5</sup>11971-11974-11995. Conforms with ISO 3744 for noise and pressure levels

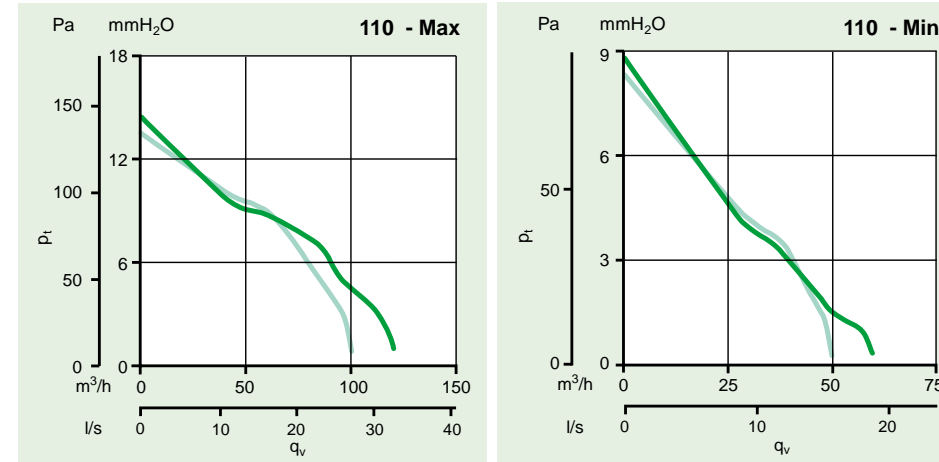
# SPLASHPROOF PROTECTION, SUITABLE FOR DUCTED INSTALLATION.



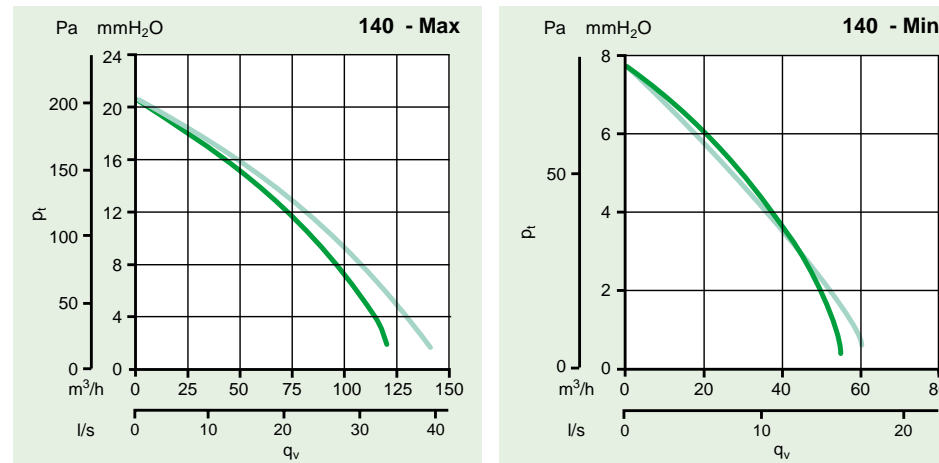
Wall-mounted with side extract. Wall-mounted with side extract. Ceiling-mounted. False-ceiling-mounted with back extract. False-ceiling-mounted with side extract. Motor with ball bearings: 30,000 hours guaranteed continual operation.

Supply and install a Vort Press centrifugal extract fan with integral, silicon backdraught shutter for flush mounting installation in wall or ceiling and ducted applications as manufactured exclusively by Vortice only for Vortice. The fan should have two speed motor and have a performance, on max., in excess of the requirements of the Building Regulations (Document F). The requirements are 15 l/s for Bathrooms/Toilets - 30 l/s for Utilities and 60 l/s for Kitchens (model with a 15 minute overrun timer for internal rooms). It should be tested and certified as IPX4 (splashproof) with all performance data third party IMQ (BEAB recognised equivalent) verified. The fan should be manufactured from durable, rigid synthetic resin and have an unobtrusive, spring clip-fix front grille complete with washable metallic filter. The rear spigot should provide a choice of either vertical or horizontal entry (Vort Press 140i and 240i) and be able to accept both the optional high and low profile connectors Vort Press 110i). The motor should be a stainless steel ball bearing, shielded pole motor (30,000-hour guarantee), and include a thermal cut out device. Control options should include: Speed Control and Electronic Humidity Control (using an optional controller) and Intelligent (delay on) Timer.

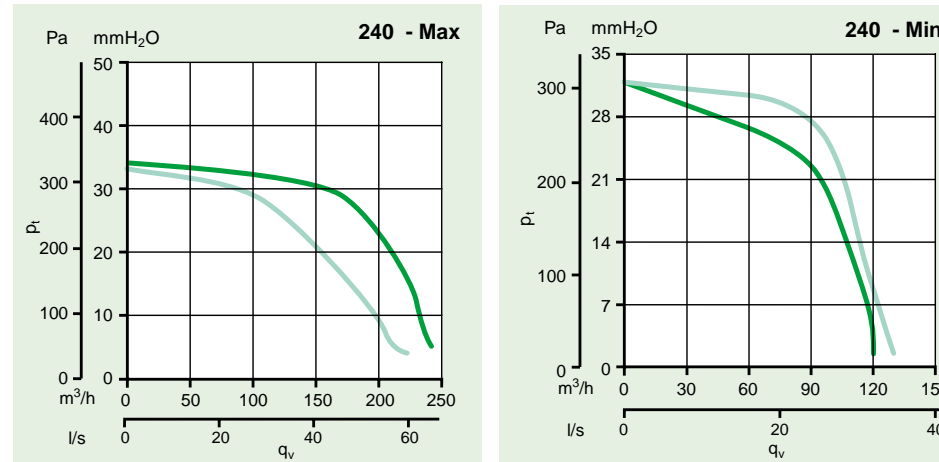
### Pressure/performance curves



- Vort Press 110 LL I - T**
- Back air outlet
  - Side air outlet with high profile (optional kit)
- Vort Press 140 LL I - T**
- Back air outlet
  - Side air outlet



- Vort Press 240 LL I - T**
- Back air outlet
  - Side air outlet



### Accessories (see also on page 54)

Model	Code	Products
Electronic thermo-humidistat Humidity Control	12908	11971 11973
SCNR electronic speed controller	12912	11995 11971 11973
SCNRB electronic speed controller	12971	11995 11971 11973
False-ceiling/wall installation kit	22823	11995 - 11996
Wall/ceiling installation kit	22815	11971 11972 - 11973 11974
High profile connector	22841	11995 - 11996
Low profile connector	22842	11995 - 11996
Fixed grille	22010	for all products
SCB Kit	22481	11973

- Spare Parts**
- Metallic anti-dust filter (110: code 1193006023 - 140/240: code 1193006022).

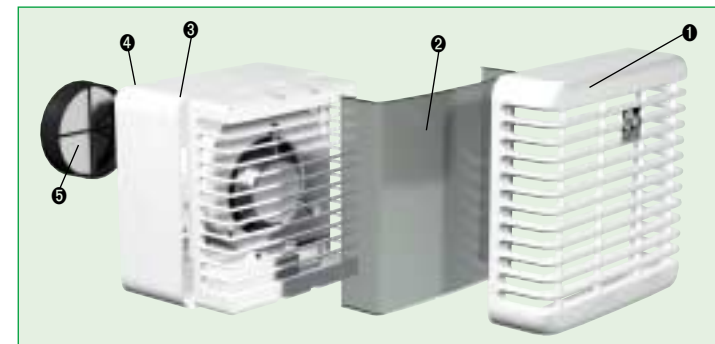
Wiring diagrams shown on page XXVII.

WALL OR CEILING-MOUNTED CENTRIFUGAL EXTRACTOR FANS, WITH TWO SPEEDS

**VORT PRESS® LL STANDARD RANGE**

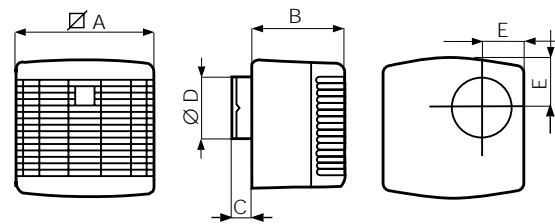
**LONG LIFE 30.000 h**

- For the ventilation of medium-sized or large rooms in commercial applications plus bathrooms/showers/toilets/ utilities and kitchens in domestic situations.
  - Four models with or without timers.
  - "Intelligent" timer turns the unit on for approximately 40 sec. after the activation. When switched off, the unit continues to operate at the minimum speed for between 30 sec. and 30 min. (depending on the setting).
  - Motor with ball bearings (guaranteed 30,000 hours of continuous operation) with thermal cut-out.
  - Two speed unit.
  - IMQ information label certifies third party product data and performance.
  - Double motor-fan housing, anti-vibration supports and backdraught shutter for silent operation.
  - Complies with the CEI 61-28 standards and IPX4 protection.
- Design: F. Trabucco - M. Vecchi*



- 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.

Dimensions (mm)



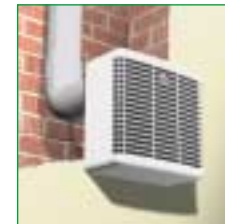
Vort Press LL	∅ A	B	C	∅ D	E
110	202	147	30	97	73
220	275	140	28	97	73

Product	Code		V ~ 50 Hz	W		A		Rpm		Delivery		P max		Lp dB(A) 3 m		Approvals	kg	Insulation	IP
	TIMER			max	min	max	min	max	min	max	min	max	min	max	min				
Vort Press 110 LL	11967	11968	220-240	24	12	0.22	0.07	1760	925	110 <sup>(1)</sup> 30.6 <sup>(2)</sup>	55 <sup>(1)</sup> 15.3 <sup>(2)</sup>	16 <sup>(3)</sup> 157 <sup>(6)</sup>	10 <sup>(3)</sup> 98 <sup>(6)</sup>	41	<30		1.95	cl.II	X4
Vort Press 220 LL	11977	11978	220-240	68	35	0.3	0.24	2060	1200	220 <sup>(1)</sup> 61.1 <sup>(2)</sup>	120 <sup>(1)</sup> 33.3 <sup>(2)</sup>	33 <sup>(3)</sup> 324 <sup>(6)</sup>	32 <sup>(3)</sup> 314 <sup>(6)</sup>	55	43		2.3	cl.II	X4

<sup>(1)</sup>m<sup>3</sup>/h - <sup>(2)</sup>l/s - <sup>(3)</sup>mm H<sub>2</sub>O - <sup>(6)</sup>Pa

Conforms with ISO 3744 for noise and pressure levels

AND IPX4 SPLASHPROOF PROTECTION SUITABLE FOR DUCTED INSTALLATION.



Ducted installation.



Wall or ceiling installation.



Kitchen installation.



Bathroom installation.

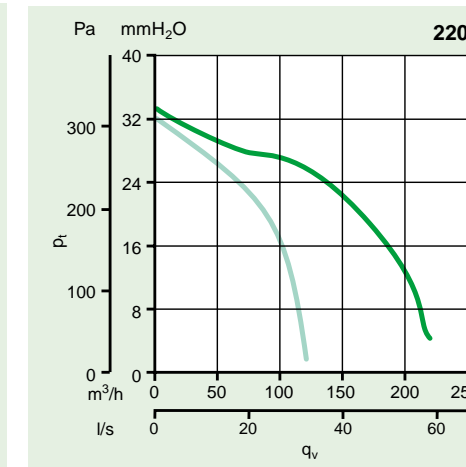
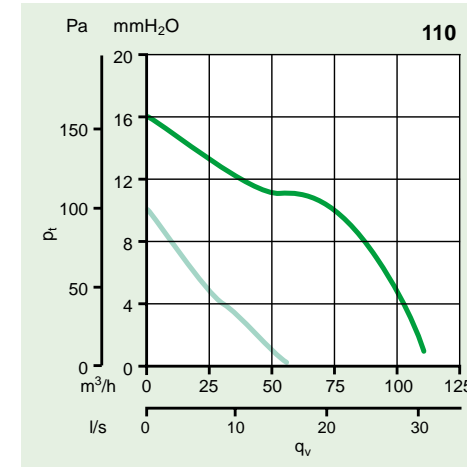


Motor with ball bearings: 30,000 hours guaranteed continual operation

Supply and install a Vort Press centrifugal extract fan with integral, silicon backdraught shutter for installation in wall or ceiling and ducted applications as manufactured exclusively by Vortice only for Vortice. The fan should have two speed motor and have a performance, on max., in excess of the requirements of the Building Regulations (Document F). The requirements are 15l/s for Bathrooms/Toilets - 30 l/s for Utilities and 60 l/s for Kitchens (model with a 15 minute overrun timer for internal rooms). It should be tested and certified as IPX4 (splashproof) with all performance data third party IMQ (BEAB recognised equivalent) verified.

The fan should be manufactured from durable, rigid synthetic resin and have a clip-fix front grille complete with washable metallic filter. The motor should be a stainless steel ball bearing, shielded pole motor (30,000-hour guarantee), and include a thermal cut out device. Control options should include: Speed Control and Electronic Humidity Control (using an optional controller) and Intelligent (delay on) Timer.

Pressure/performance curves



— max  
— min

Accessories on request (description and data on page 54)

Model	Code	Products
	12908	11967 - 11977
	12912	11967 - 11977
	12971	11967 - 11977
	22010	for all products
	22481	11967 - 11977

Spare Parts

- Metallic anti-dust filter (110: code 1193006019 - 220: code 1193006021).

Wiring diagrams shown on page XXVII.