VORTICE® PUNTO RANGE

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- **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 sheilded poles, either with bronze or ball bearings, and with thermal cut-out.
- The standard models can be speed regulated.

- 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: ∅ 100, 120 and 150 mm.
- Conforms to the following standards: CEI EN 60335-2-80 (Part 2: Particular requirements for fans), CEI EN 60529 (Code IP) and CEI 107-53/1986.
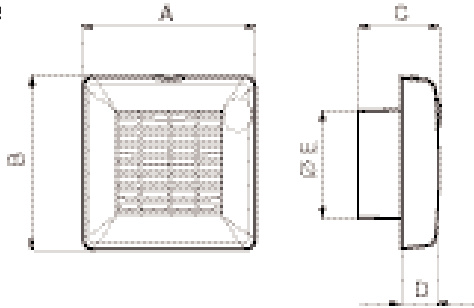
Design: F. Trabucco & Associates

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

	A	B	C	D	∅ E
M 100/4”	159	160	100	47	99
M 120/5”	179	181	110	47	119
M 150/6”	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						
M 100/4”	230-240	18	0.1	2300	90	25	3	29	37.5	⊕	0.6	▢ cl.II	X4	50
M 120/5”	230-240	20	0.12	2100	175	48.6	4.5	44	39.5	⊕	0.8	▢ cl.II	X4	50
M 150/6”	230-240	30	0.15	2100	335	93.1	6	59	46	⊕	1.1	▢ cl.II	X4	50

Pressure/performance curves
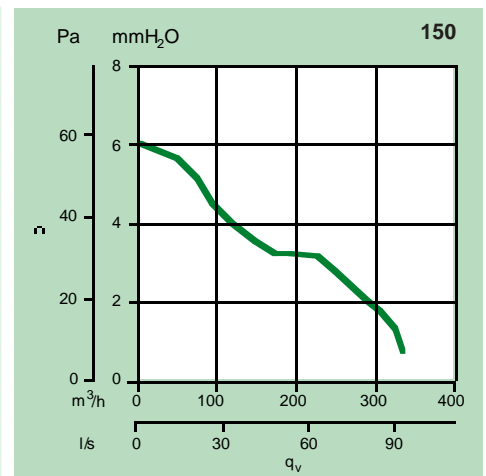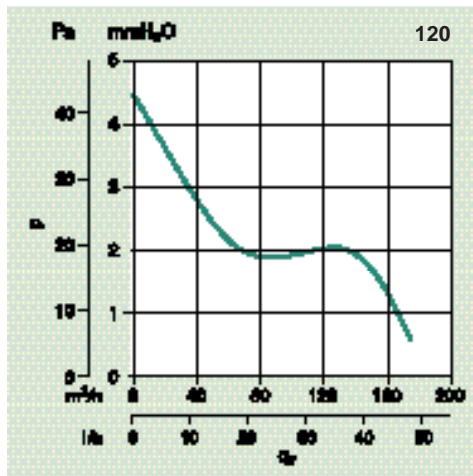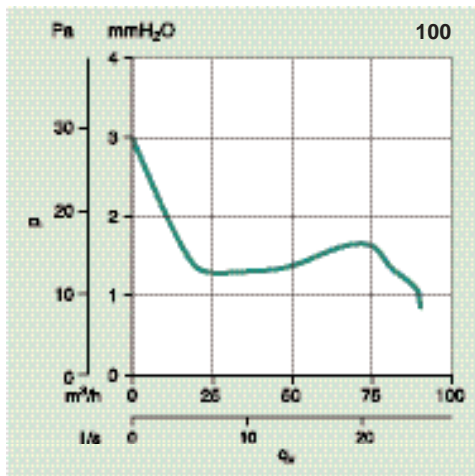
Supply and install a Punto domestic axial extract fan (with or without automatic shutters), for installation in wall, window or ceiling as manufactured exclusively by Vortice only for Vortice. The fan should have a performance in excess of the requirements of the Building Regulations (Document F), even 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

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

LONG LIFE 30.000 h

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

AUTOMATIC

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.

TYPE OF ROOM

Note: The ceiling kit is to preserve IPX4 integrity

	Application		Labels to choose	
			Model	Option

⌀ 100: BATHROOM, SHOWER, TOILET

⌀ 120: UTILITY ROOM

⌀ 150: KITCHEN

"NORMAL OPERATION"
- "Wall installation"
- "Ceiling installation (with Kit: 22154/22155/22156)"
- "Window installation (with Kit: 22131/22132/22133)"

→ **PULLCORD** / **AUTOMATIC** / *LONG LIFE* 30.000 h

"ROOM WITHOUT WINDOW"
- "Wall installation"
- "Ceiling installation (with Kit: 22154/22155/22156)"

→ **TIMER** / **AUTOMATIC** / *LONG LIFE* 30.000 h

"CONDENSATION CONTROL"
- "Wall installation"
- "Ceiling installation (with Kit: 22154/22155/22156)"
- "Window installation (with Kit: 22131/22132/22133)"

→ **T-HCS** Humidity Control System - Timer / **AUTOMATIC** / *LONG LIFE* 30.000 h

"AUTOMATIC CONDENSATION CONTROL SYSTEM"
- "Wall installation"
- "Ceiling installation (with Kit: 22154/22155/22156)"
- "Window installation (with Kit: 22131/22132/22133)"

→ **MHC** Microprocessor Humidity Control / **AUTOMATIC** / *LONG LIFE* 30.000 h

PIR FUNCTIONING
- "Wall installation"
- "Ceiling installation (with Kit: 22154/22155/22156)"
- "Window installation (with Kit: 22131/22132/22133)"

→ **PIR** Passive Infrared / **AUTOMATIC** / *LONG LIFE* 30.000 h

VORTICE® PUNTO ACCESSORIES

Model	Code	Suitable for use with
Fixed grille	22010	11221 - 11231 - 11611 - 11646 - 11683 - 11222 - 11232 - 11637 - 11684 - And for all products ⌀ 10
	22020	11321 - 11331 - 11721 - 11746 - 11783 - 11421 - 11431 - 11808 - 11856 - 11883 - 11332 - And for all products ⌀ 12/15 11737 - 11747 - 11784 - 11422 - 11432 - 11837 - 11857 - 11884
Gravity type grille	22300	11201 - 11211 - 11601 - 11641 - 11681 - 11202 - 11212 - 11642 - 11682 - 11602 - 11626 - 11627
	22330	11301 - 11311 - 11741 - 11781 - 11302 - 11312 - 11782 - 11742 - 11701 - 11702 - 11726 - 11727
	22360	11401 - 11411 - 11801 - 11851 - 11881 - 11412 - 11853 - 11882 - 11402 - 11802 - 11826 - 11827
Grille kit	22140	11100 - 11101 - 11110 - 11111
	22141	11102 - 11103 - 11116
	22142	11104 - 11105 - 11117
	22143	11110 - 11111
SCNR electronic speed controller C 1.5 electronic speed controller	12912* 12966	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

* Upon stock depletion

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

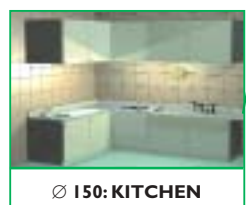|						
BATHROOM, SHOWER, TOILET						
11201	M 100/4"	**11636**	M 100/4" A MHC	**11232**	M 100/4" AT LL	**11203 + 22157**	M 100/4" 12 V T HCS
11641	M 100/4" P	**11202**	M 100/4" LL	**11684**	M 100/4" A PIR LL	**11203 + 22153**	M 100/4" 12 V MHC
11211	M 100/4" T	**11642**	M 100/4" P LL	**11601**	M 100/4" 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						
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						
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

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: CEI EN 60335-2-80 (Part 2: Particular requirements for fans), CEI EN 60529 (Code IP) and CEI 107-53/1986.

Design: F. Trabucco & Associates

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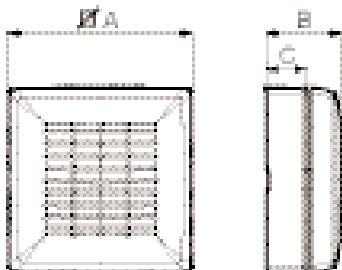
	∅ A	B	C	∅ hole glass	thickness max
F 100/4"	158	69	22	123÷128	20
F 120/5"	179	80	33	143÷148	20
F 150/6"	213	87	40	178÷183	20

The following are the performance values for the product + kit

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

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.

Rubber ceiling kit	Code
S 100/4"	22154
S 120/5"	22155
S 150/6"	22156

Accessories on request (description and data on page 88)

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 - 11211 - 11601 - 11641 - 11681 - 11202 - 11212 - 11642 - 11682 - 11602 - 11626 - 11627
		22330	11301 - 11311 - 11741 - 11781 - 11302 - 11312 - 11782 - 11742 - 11701 - 11702 - 11726 - 11727
		22360	11401 - 11411 - 11801 - 11851 - 11881 - 11412 - 11853 - 11882 - 11402 - 11802 - 11826 - 11827
	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
	C 1.5 electronic speed controller	12966	11201 - 11202 - 11301 - 11302 - 11401 - 11402
	SCB Kit	22481	12912 - 12966

* Upon stock depletion