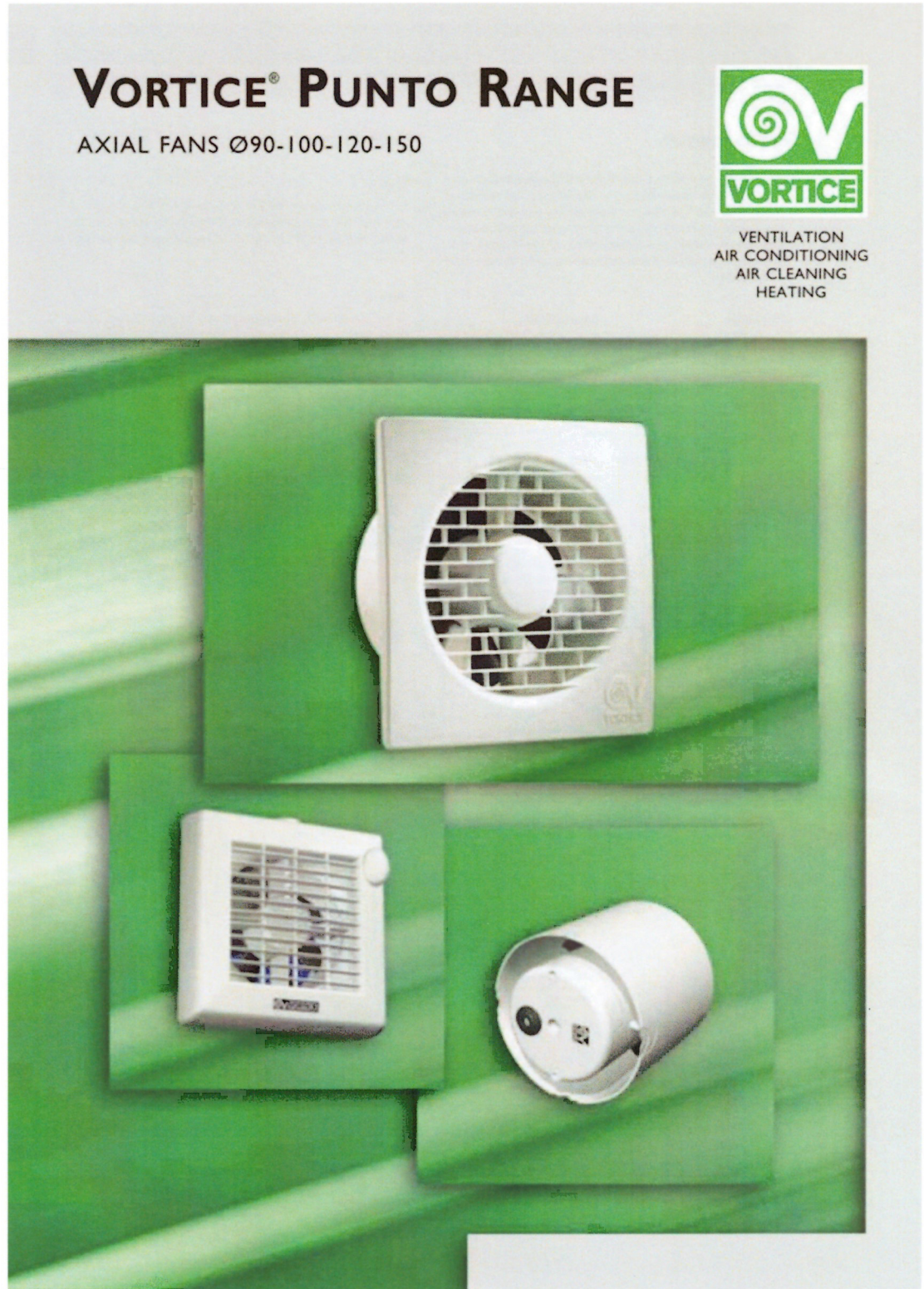


3.7 Extract Fans



VORTICE PUNTO MODELS ARE AVAILABLE IN THE FOLLOWING VERSIONS:

STANDARD All models are manufactured with shielded poles and bronze bearings motor.

LONG LIFE All models with Long-life ball-bearing motors guaranteed for 30,000 hours continuous, trouble-free operation.

TIMER Over run timer adjustable from 3 to 20 minutes, depending on the timer setting.

MHC This model has the latest electronic micro-chip technology which provides high accuracy and continuous monitoring of both temperature and humidity.

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

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

VOLT 12 A power supply unit is needed wherever the use of low-voltage equipment is required. The available low-voltage fans - with or without automatic shutter - can be used in combination with any of the power supply units.

PIR 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.

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

IPX4

Protection against splashing, technically known as IPX4 protection, is a characteristic that makes many Vortice products ideal for installation in bathrooms and other damp environments.



All Vortice extractor fans leave the factory with certified performance levels. This certificate, issued by Italian Mark of Quality Institute (IMQ), indicates the performance levels for each product.



Vortice Punto Range

Punto Filo Range

Axial fans with ultra-slim grille to expel the air outside or into short ducts.

16 models with and without timer.
Diameters: 90 - 100 - 120 - 150 mm



STANDARD	LONG LIFE 30.000 h	TIMER
----------	-----------------------	-------

Punto Range

Splashproof axial extract fans used to extract air either directly to the outside or into ducting up to 4m long.

63 models with and without timer.
Diameters: 100 - 120 - 150 mm



STANDARD	LONG LIFE 30.000 h	TIMER	AUTOMATIC	PULL CORD ON OFF	HCS
			MHC	PIR	VOLT 12

Punto Ghost Range

In-line axial fans suitable for walls, ceilings/false ceilings, lofts, installation.

10 models with and without timer.
Diameters: 90 - 100 - 120 - 150 mm



STANDARD	LONG LIFE 30.000 h	TIMER
----------	-----------------------	-------

3

AXIAL FANS WITH ULTRA-FLAT GRILLE TO EXPEL THE AIR OUTSIDE OR INTO SHORT DUCTS. FOR WALL AND CEILING INSTALLATION

Punto Filo Range

- The front grille of just 17 mm and the roundness of the four sides makes the appliance "virtually" invisible.
- 4 diameters 90-100-120-150, standard, timer, long life versions.
- Data, Safety and Performance Certified by IMQ Performance CE Mark.
- Extremely easy installation and maintenance. Fitted with just 1 screw, supplied in the box.
- Virtually silent thanks to a new impeller that permits very limited noise levels with high performance.
- Integral backdraught shutter already installed on the appliance, that prevents unwanted air from getting back in when the appliance is switched off.
- IPX4 splashproof protection on all models.



- Conforms to the following standards: CEI EN 60335-2-80 (part 2: Particular requirements for fan), CEI EN 60529 (code IP) and CEI 107-53/1986.
- Eco-Friendly: It guarantees a low environmental impact. Recyclable materials have been used and the "Design for Disassembly" technique has been followed (2002/96/EC-WEE).

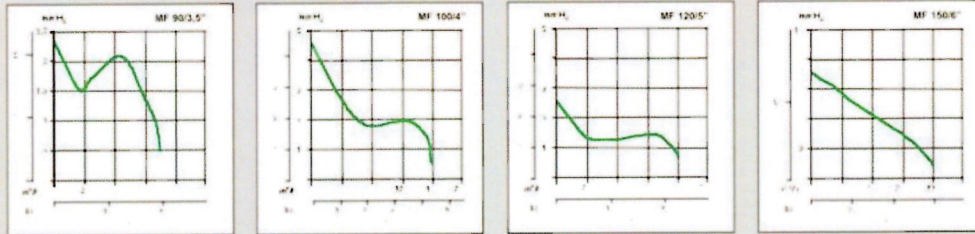
Design: F. Trabucco & Associati

Accessories on request

- SCNR electronic speed controller (code 12912) for standard models.
- C 1.5 electronic speed controller (code 12912) for standard models.
- SCB Kit (code 22481) for SCNR.
- Fixed grille (code 22010 and 22020) for all products.
- Ceiling kit:
 (Ø 90-100 code 22162)
 (Ø 120 code 22163)
 (Ø 150 code 22164)

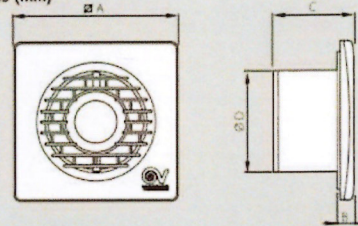
Product	Code		V = 50 Hz	W	A	Rpm	Delivery		P max		Lp dB(A) 3 m	Approvals	kg	Insulation	IP	°C max
	TIMER						m³/h	l/s	mm H ₂ O	Pa						
MF 90/3.5"	11122	11126	230-240	14	0.08	2500	65	18	2.5	25	28.8		0.50	cl. II	X4	50
MF 100/4"	11123	11127	230-240	15	0.09	2400	85	24	3	29	31		0.51	cl. II	X4	50
MF 120/5"	11124	11128	230-240	20	0.12	2150	175	49	5	49	34.4		0.61	cl. II	X4	50
MF 150/6"	11125	11129	230-240	28	0.15	2100	335	93	6	59	40.1		0.97	cl. II	X4	50
MF 100/4" LL	11131	11135	230-240	15	0.09	2400	85	24	3	29	31		0.52	cl. II	X4	50
MF 120/5" LL	11132	11136	230-240	20	0.12	2150	175	49	5	49	34.4		0.62	cl. II	X4	50
MF 150/6" LL	11133	11137	230-240	28	0.15	2100	335	93	6	59	40.1		0.98	cl. II	X4	50

Pressure/performance curve



The front grille of just 17 mm and the roundness of the four sides makes the appliance "virtually" invisible. The design of a special miniaturized Timer has made it possible to keep the grille ultra-slim for these versions too.

Dimensions (mm)



	∅ A	B	C	∅ D
MF 90/3.5"	159	17	77	92.5
MF 100/4"	159	17	77	98
MF 120/5"	179	17	89	119
MF 150/6"	214	17	96	156

Accessories/Ancillaries

Model	Code	Products
SCNR electronic speed controller C 1.5 electronic speed controller	12912* 12966	for standard models
SCB Kit	22481	for SCNR (12912)
Fixed grille ∅ 90-100	22010	for all products
Fixed grille ∅ 120-150	22020	for all products
Ceiling kit (∅ 90 - 100)	22162	11122 - 11123 - 11126 - 11127 11130 - 11131 - 11134 - 11135
Ceiling kit (∅ 120)	22163	11124 - 11128 - 11132 - 11136
Ceiling kit (∅ 150)	22164	11125 - 11129 - 11133 - 11137

* Upon stock depletion.

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



Installation showing the extraction directly to the outside

Ceiling installation

Through the wall insulation with wall sleeve and grille

	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

Punto Range

- For intermittent or continuous ventilation of bathrooms, toilets, kitchens or utility rooms in domestic or commercial properties.
- 63 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.
- 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 fan and motor support.

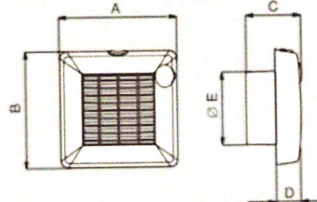
- IPX4 protection on all models
- Motor support and grille made of anti-UV ABS.
- Available in three sizes: 100, 120 and 150 mm.
- Conforms to the following standards: EN 60335-2-80 (Part 2: particular requirements for fans), EN 60529 (Code IP) and CEI 107-53/1986.

Design: F. Trabucco & Associati

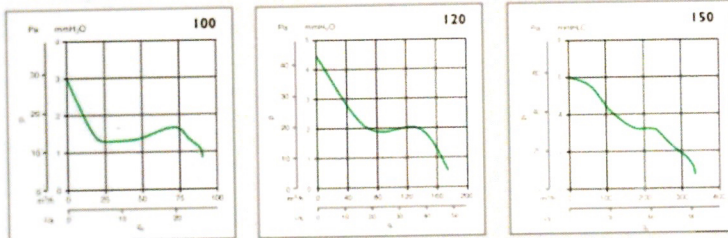
Accessories on request

- C5 0.5 electronic speed controller.
- SCNRB recessed electronic speed controller.
- Window kit.
- Ceiling kit (it guarantees IPX4 protection on ceiling application).
- Fixed grille.
- Gravity grille.

Dimensions (mm)



Pressure/performance curves



Product	Code	V ~ 50 Hz	W	A	Rpm	Delivery		P max		Lp dB(A) 3 m	Approvals	kg	Insulation	IP	°C max
						m³/h	Pa	mm H ₂ O	Pa						
M 100/4"	11201	230-240	18	0.1	2300	90	25	3	29	37.5		0.6		X4	50
M 120/5"	11301	230-240	20	0.12	2100	175	48.6	4.5	44	39.5		0.8		X4	50
M 150/6"	11401	230-240	30	0.15	2100	335	93.1	6	59	46		1.1		X4	50

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

Punto 12V

- For intermittent or continuous ventilation of bathrooms, toilets, kitchens or utility rooms in domestic or commercial businesses.
 - 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 shock-proof, 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 & Associati

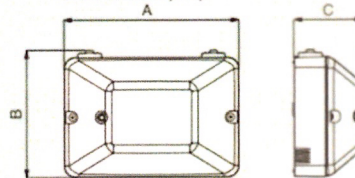
Accessories on request

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

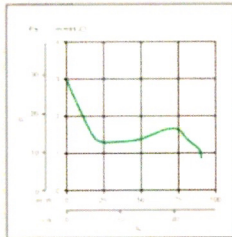


IPX4 splashproof protection Bathroom, shower, toilette.

Dimensions (mm)



Pressure/performance curves



	A	B	C
GA 12V	161	117	65

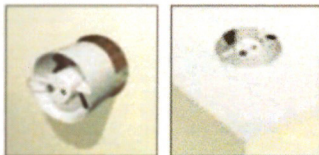
Product	With 12V Power Supply				
	Standard	Pull Cord	Timer	T HCS	MHC
M 100/4" 12V	22150	22152	22151	22157	22153
M 100/4" A 12V					

Product	Code	V 50 Hz	W	A	Rpm	Delivery		P max		Lp dB(A) 3 m	Approvals	kg	Insulation	IP	°C max
						g	in	mm H ₂ O	Pa						
M 100/4" 12V	I1203	12	18	0.1	2300	90	25	3	29	38		0.6	Selv cl III	X4	50
M 100/4" A 12V	I1223	12	18	0.1	2300	90	25	3	29			0.6	cl II	-	50
GA 12V	-	12	-	-	-	-	-	-	-	-		0.8	cl II	-	50

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

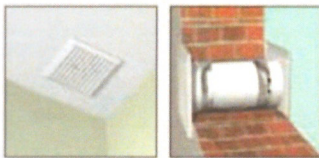
Punto Ghost Range

- These fans can be used as temperature blenders in adjacent rooms, suitable for installation in wall, ceiling / double ceiling. Complies with the requirements of Part F1 of the Building Regulations even when connected on 4 metres of flexible aluminium duct (with 2 x 90 degree bends).
 - 10 models available with or without timer 90-100-120-150 mm
 - The timer is adjustable from 3 to 20 minutes.
 - IMQ label ensures that data and performance are 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 thanks 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 (IP Code) and CEI 107-53/1986.
- Design: F. Trabucco & Associati
- Accessories**
(see previous descriptions page)



Wall installation.

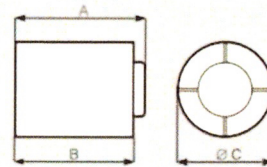
Ceiling installation.



False-ceiling installation (with optional kit).

Installation showing extracting directly to the outside (with optional kit).

Dimensions (mm)

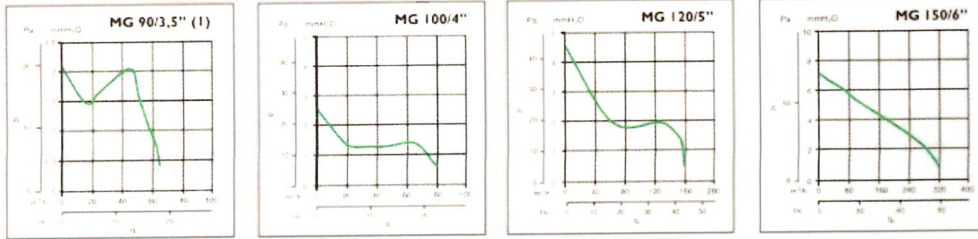


	A	B	C
MG 90/3.5 TM	92	89	92.5
MG 90/3.5 ^T	96.5	89	92.5
MG 100/4 ^{LL}	92	92	99
MG 100/4 ^{T LL}	96.5	92	99
MG 120/5 TM / LL	103	100	119
MG 120/5 ^{T LL}	107.5	100	119
MG 150/6 TM / LL	110	107	155
MG 150/6 ^{T LL}	114.5	107	155

TM Not available in UK

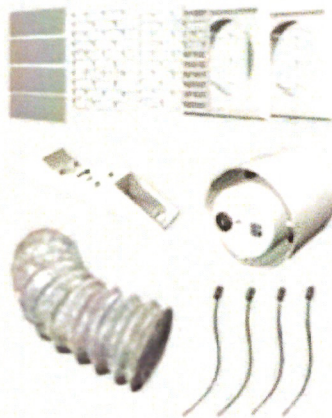
Product	Code		V – 50 Hz	W	A	Rpm	Delivery		P max		Lp dB(A) 3 m	Approvals	kg	Insulation	IP	°C max	
	TIMER						m/h	g	mm Hg	g							
MG 90/3.5 TM	11110 TM	11111 TM	230-240	18	0.10	2450	65	18	2.1	21	38		0.4		d. II	X4	40
MG 100/4 ^{LL}	11100	11101	230-240	18	0.1	2415	80	22.2	2.6	25	39		0.43		d. II	X4	40
MG 120/5 TM	11116 TM	-	230-240	20	0.12	2200	160	44	4.5	44	43		0.56		d. II	X4	50
MG 120/5 ^{LL}	11102	11103	230-240	20	0.12	2250	160	44.4	4.5	44	43		0.56		d. II	X4	50
MG 150/6 TM	11117 TM	-	230-240	30	0.18	2150	320	89	7.0	69	48		0.8		d. II	X4	50
MG 150/6 ^{LL}	11104	11105	230-240	30	0.18	2200	320	88.9	7	69	48		0.8		d. II	X4	50

Pressure/performance curves - Vortice Punto Ghost Range



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

Punto Ghost Kit Range



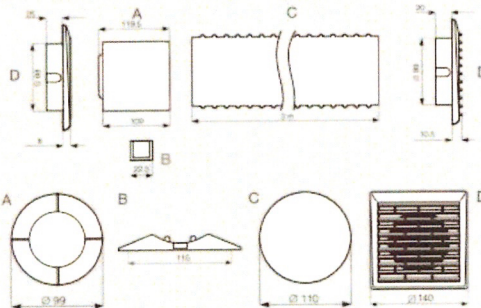
- For continuous ventilation of toilet, bathroom, kitchen and utility room in domestic properties. Complies with the requirements of Part F1 of the Building Regulations even when connected on 3m flexible aluminium duct (with 2 x 90° bends).
- Available with or without timer one diameter 100 mm.
- The 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 fans) EN 60529 (IP Code) and CEI 107-53/1986.53/1986.

Design: F. Trabucco & Associati

Accessories

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

Dimensions - Punto Ghost Kit Range (mm)



Duct installation.

Composition of punto Ghost Kit

- MG 100/4" in-line axial fan 100 mm
- Mounting foot: 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.

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




Punto Versions:

Product							
M 100/4"	11201	11211	11601		11681	11641	11203
M 100/4" LL	11202	11212		11637	11682	11642	
M 100/4" A	11221	11231	11611		11683	11646	11223
M 100/4" A LL	11222	11232	11612		11684	11647	
M 120/5"	11301	11311	11701		11781	11741	
M 120/5" LL	11302	11312			11782	11742	
M 120/5" A	11321	11331	11721		11783	11746	
M 120/5" A LL	11322	11332	11722	11737	11784	11747	
M 150/6"	11401	11411	11801		11881	11851	
M 150/6" LL	11402	11412			11882	11853	
M 150/6" A	11421	11431	11808		11883	11856	
M 150/6" A LL	11422	11432	11809	11837	11884	11857	

Punto Filo Range

Axial fans with ultra-slim grille to expel the air outside or into short ducts.
16 models with and without timer.
Diameters: 90 - 100 - 120 - 150 mm




STANDARD

Low Noise

TIMER

Punto Range

Splashproof axial extract fans used to extract air either directly to the outside or into ducting up to 4m long.
63 models with and without timer.
Diameters: 100 - 120 - 150 mm



STANDARD

Low Noise

TIMER


AUTOMATIC

FULL COVER

12

Punto Ghost Range

In-line axial fans suitable for walls, ceilings/false ceilings, lofts, installation.
10 models with and without timer.
Diameters: 90 - 100 - 120 - 150 mm

















STANDARD

Low Noise





TIMER

Accessories/Ancillaries

Model	Code	Products
	12912*	for standard models
	12966	
	12971	11201-11202-11301-11302-11401-11402
	22481	for SCNR (12912) and C 1.5 (12966)
	22010	for all filo products - 11221-11231-11611-11646-11683-11222-11232-11637-11684 and for all products ø 10
	22020	for all filo products - 11321-11331-11721-11746-11783-11421-11431-11806-11856-11883-11332-11737-11747-11784-11422-11432-11837-11857-11884 and for all products ø 12/15
	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
	22140	11100-11101-11110-11111
	22141	11102-11103-11116
	22142	11104-11105-11117
	22143	11110-11111
	22262	11100-11101
	22263	11102-11103-11116
	22264	11104-11105-11117
	22265	11100-11101
	22162	11123 - 11123-11126-11127-11130-11131-11134-11135
	22163	11124-11128-11132-11136
	22164	11125-11129-11133-11137
	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
	22131	11221-11231-11611-11646-11683-11222-11232-11637-11684
	22132	11321-11331-11721-11746-11783-11322-11332-11737-11747-11784
	22133	11421-11431-11808-11856-11883-11442-11432-11637-11857-11884
	22250-8001**	11100-11101-11110-11111
	22251-8023**	11102-11103-11116
	22252-8002**	11104-11105-11117
	22253	11100-11101-11110-11111
	22254	11102-11103-11116
	22255	11104-11105-11117
	22256-8021**	11100-11101-11110-11111
	22257-8035**	11102-11103-11116
	22258-8321**	11104-11105-11117
	22259	11100-11101-11110-11111
	22260	11102-11103-11116
	22261	11104-11105-11117

* Upon stock depletion. ** Available only in UK

Certifications

	IMQ S.p.A. I-20138 Milano - via Quintilano, 43 tel. 02/5073111 s.r.l. - fax 02/50991300 e-mail: info@imq.it - www.imq.it	Reg. Imprese 189586 Reg. Imprese SR 1289410108 C.F. P.I. 1289410108 Capitale Sociale € 4.000.000 SAL0001111	CA05.01354 SAL0001111
NO: 08310120 CO: C.1911.2418	Certificato di approvazione <i>Approval certificate</i>		
IMQ, ente di certificazione accreditato, autorizza la ditta		<i>IMQ, accredited certification body, grants to</i>	
VORTICE ELETTROSOCIALI SPA STRADA CERCA 2 20067 TRIBIANO MI			
all'uso del marchio		<i>the licence to use the mark</i>	
IMQ + IMQ-PERFORMANCE			
 			
<p><small>Il presente certificato è soggetto alle condizioni previste nel "Regolamento IMQ - Certificazione prodotti e Tabelle Informativa IMQ" ed è relativo ai prodotti descritti nell' allegato al presente certificato.</small></p>			
per i seguenti prodotti		<i>for the following products</i>	
Ventilatore/aspiratore (Tipo M100)		<i>Fan/aspirator</i> <i>(Type M100)</i>	
<p><small>The certificate is subject to the conditions stated in "IMQ Rules - Product Certification and IMQ Informative Tables" and it refers to the products listed in the annex to this certificate.</small></p>			
<p><small>Emesso / Issued on:</small> 2000-07-19 <small>Data di approvamento / (approved on)</small> 2005-03-30 <small>Scadenza / Expiry date</small> 2001-10-29</p>			
			 <small>(Vortice spa)</small>

Cod. S.170.064.774 07/07

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