

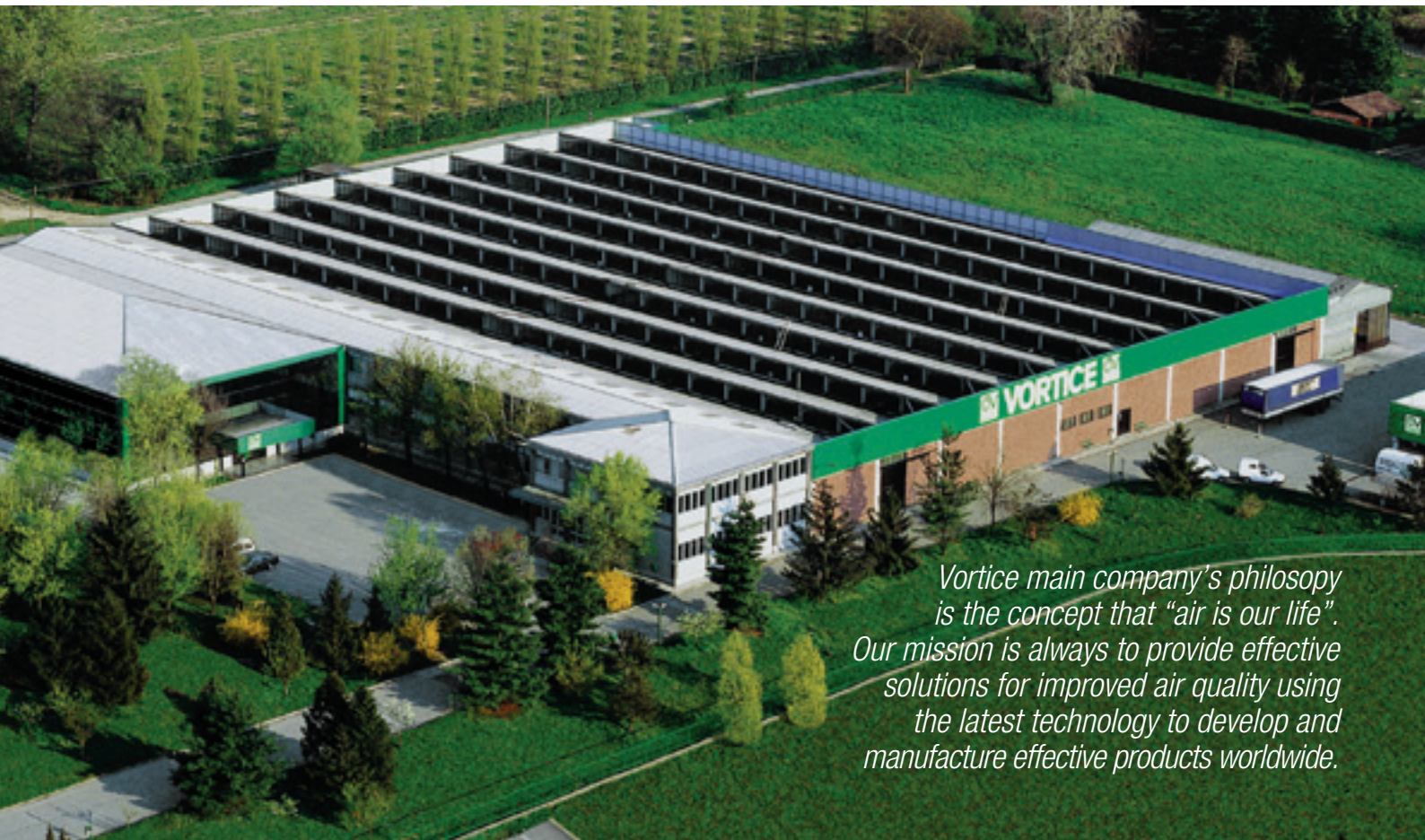


www.vortice.com

IN-LINE FANS COMMERCIAL VENTILATION



NEW



Vortice main company's philosophy is the concept that "air is our life". Our mission is always to provide effective solutions for improved air quality using the latest technology to develop and manufacture effective products worldwide.

Our current Vortice Headquarters have been located in Tribiano (Milan) since 1972.

Vortice has achieved European market leadership by dedicating their efforts to the production of products for ventilation, climate control, heating, extraction, purification and the treatment of air, for domestic, commercial and industrial applications. Since 1954 Vortice has been synonymous with quality and excellence and continues to make significant improvements by investing in continuous research to improve the efficiency and quality of its products.

VORTICE IN THE WORLD

FRANCE



Founded in 1974, Vortice France is located at Créteil about 10 Km from Paris.

ENGLAND



Founded in 1977, Vortice Limited is located at Burton on Trent in the East Midlands.

CHINA



Founded in 2012, Vortice Ventilation System is located about 200 Km from Shanghai.

SOUTH AMERICA



Founded in 2012, Vortice Latam is located in San José, Costa Rica.

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CE MARKING

Commercial Ventilation appliances conform to the following European Directives:

2009/125/EC Directive Ecocompatible Design (ErP),
2006/42/EC Machines Directive (MD),
2004/108/EC Electromagnetic Compatibility Directive (EMC),

According to the following state-of-the-art Standards:

Safety

EN 60204-1; EN ISO 12100-1; EN ISO 12100-2; EN ISO 12499;
EN ISO 13857; EN 60335-1; EN 60335-2-80; EN 62233

Electromagnetic Compatibility

EN 55014-1; EN 55014-2; EN 61000-3-2; EN 61000-3-3

The fans built into the IN LINE Range are conform to the following European Directive N° 1253/2014 and N° 1254/2014.

LEGEND



SILENT RUNNING AND CERTIFIED, GUARANTEED PERFORMANCE

IMQ PERFORMANCE is an independent quality mark which certifies, according to international standards, performances (air flow and pressure) and noise levels of the product.



ECO-FRIENDLY

Guarantees the low environmental impact. Recyclable materials have been used and the "design for disassembly" technique has been followed (2002/96/EC - WEEE).



SAFE

Safety, power rating, enclosure protection rating (IP44 to EN 60529) and electrical insulation are certified by IMQ (Quality Mark Institute), the Italian national certifying agency. The IMQ mark certifies that the product is manufactured in compliance with the provisions of relevant established safety standards and directives: (EN 60335-1, EN 60335-2-80 and EN 62333) Low Voltage Directive (LVD) and Electromagnetic Compatibility Directive (EMC). IMQ also guarantees regular, constant monitoring of production quality.



ENERGY SAVING

ES label means that the appliance is fitted with EC Brushless motor and provides high energy savings, thanks to a wide range of speed regulation options and very low consumption levels.



LONG LIFE 30.000 H

The Long Life 30,000 h label certifies that the appliance is guaranteed to continuously run at max operating temperature for 30.000 hours without mechanical failure thanks to its motor, equipped with ball bearings.



ERP COMPLIANT

The ErP compliant logo indicates that the appliance is ecocompatible and adheres to the ErP directive 2009/125/CE.



ADJUSTABLE 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.



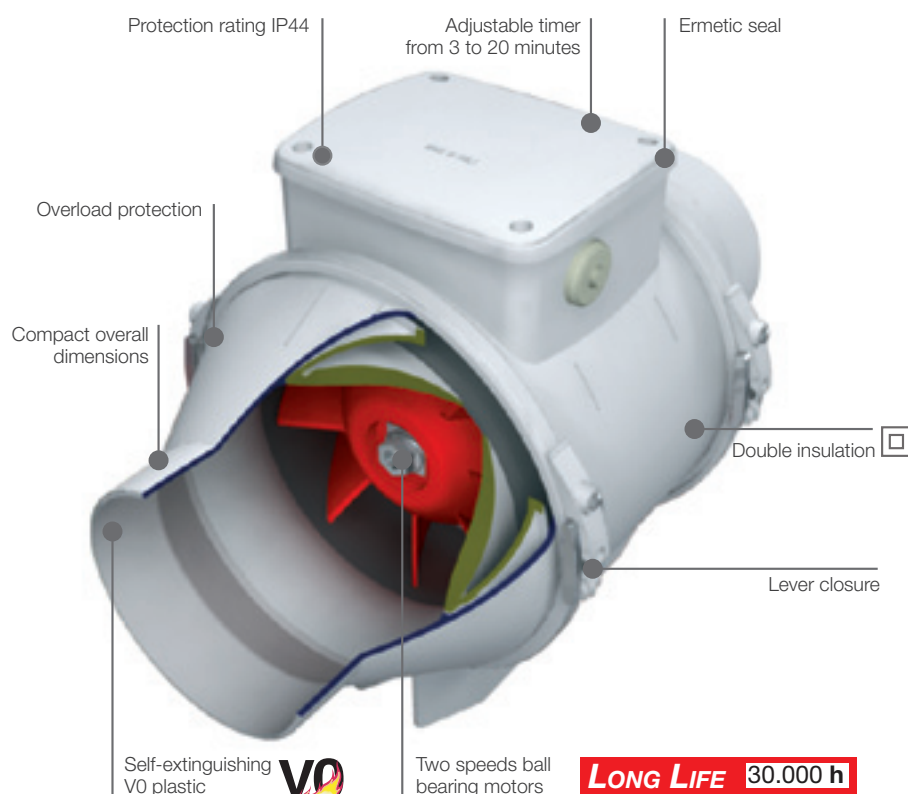
SELF-EXTINGUISHING V0 PLASTIC

Models made of V0 grade (according to UL 94 standard) plastics combine excellent fire resistance with high mechanical strength.

VORTICE LINEO

Vortice Lineo series in-line mixed flow fans are ideal for duct-mounted ventilation system requiring a good pressure, high air flow and low noise levels

KEY FEATURES



Vortice Lineo fans can be mounted in a wide range of options: at the beginning, middle or end of the air duct and horizontally, vertically, against walls, ceilings, false ceilings or any flat surface. Vortice Lineo range is easy to install and to be removed for inspection and maintenance.

Vortice Lineo fans can be fitted to standard round section pipes and to rectangular air ducts (using special mounting accessories). The integrated IP44 rated electrical junction box has an airtight cover. The product is supplied complete with a bag of accessories including anchor bolts and plugs, cable clamps and grommets.



COMPACT OVERALL DIMENSIONS

The products have a very small overall size, making them ideal for installation in cramped areas. Slim yet powerful, the overall diameter is only slightly larger than the ventilation duct it connects to.

OVERLOAD PROTECTION

Vortice Lineo models from 100 to 200 are provided with thermal cut-out devices. Lineo models from 250 to 315 are equipped with thermal cut-out, manually resettable.

COMPLIANCE TO STANDARDS

Vortice Lineo range is complying with EN 60335-2-80-1997. Performance conforms to UNI 10531 (Category D). They bear the CE Mark for compliance with the Low Voltage Directive (LVD) and Electromagnetic Compatibility Directive (EMC).

ENVIRONMENTAL SENSORS

Vortice Lineo fans are capable of advanced functionality in combination with optional sensor units for monitoring humidity, detecting persons, ambient temperature, pollutant levels and air quality.



VORTICE LINEO V0 RANGE

In-line mixed flow fans

PRODUCT SPECIFICATIONS

Suitable for residential, commercial and industrial applications: kitchens, bathrooms, offices, laboratories, factories, shops, laundromats, models, restaurants, bars, theatres, ballrooms, etc.

- **18 models:** from 100 to 315 diameter.
- Enclosure and impellers made of self-extinguishing V0 mineral charged polypropylene.
- Ball bearing motors; motors 30.000 hours operation without mechanical malfunction.
- Two speeds.
- Speed adjustable through optional speed controllers.
- Controllable through Vortice environmental sensors and DUO two-speed controller.
- Available with an adjustable timer, from 3 to 20 minutes (T versions).
- Wide range of continuous operation temperatures between -25°C and +60°C.
- Protection rating: IP44.
- Insulation class: II □.



LONG LIFE 30.000 h

TIMER



TECHNICAL DATA

Models	Code	W		A		RPM		Max Airflow				Max Pressure				Lp dB(A)*	Max °C	Kg	
		min	max	min	max	min	max	m³h		I/S		mmH₂O		Pa					
VORTICE LINEO 100 Q V0	17005	12	15	0.05	0.07	1860	2450	155	200	43.1	55.6	6.5	7.5	63.8	73.6	29.4	37.9	60	1.25
VORTICE LINEO 100 Q T V0	17025					1860	2450	155	200	43.1	55.6	6.5	7.5	63.8	73.6	29.4	37.9		
VORTICE LINEO 100 V0	17001	20	23	0.09	0.11	1520	2030	180	255	50	70.8	13	16.5	127.5	161.9	30.7	39.4	60	1.8
VORTICE LINEO 100 T V0	17021					1520	2030	180	255	50	70.8	13	16.5	127.5	161.9	30.7	39.4		
VORTICE LINEO 125 V0	17002	25	33	0.11	0.15	1570	2140	250	365	69.4	101.4	13	17	127.5	166.8	33.9	43	60	2.4
VORTICE LINEO 125 T V0	17022					1570	2140	250	365	69.4	101.4	13	17	127.5	166.8	33.9	43		
VORTICE LINEO 150 V0	17003	40	58	0.18	0.26	1580	2100	385	550	106.9	152.8	21	27	206	264.9	41.4	50.5	60	2.4
VORTICE LINEO 150 T V0	17023					1580	2100	385	550	106.9	152.8	21	27	206	264.9	41.4	50.5		
VORTICE LINEO 160 V0	17004	40	58	0.18	0.26	1580	2100	385	550	106.9	152.8	21	27	206	264.9	41.7	50.8	60	2.4
VORTICE LINEO 160 T V0	17024					1580	2100	385	550	106.9	152.8	21	27	206	264.9	41.7	50.8		
VORTICE LINEO 200 Q V0	17007	45	75	0.22	0.37	1780	2740	700	950	194.4	263.9	13	29	127.5	284.5	39.6	49	60	4.3
VORTICE LINEO 200 Q T V0	17028					1780	2740	700	950	194.4	263.9	13	29	127.5	284.5	39.6	49		
VORTICE LINEO 250 Q V0	17027	85	110	0.40	0.50	1850	2550	720	990	200	275	34	53	333.5	519.9	49.1	56.2	60	5.8
VORTICE LINEO 250 Q T V0	17029					1850	2550	720	990	200	275	34	53	333.5	519.9	49.1	56.2		
VORTICE LINEO 200 V0	17006	98	145	0.43	0.64	1580	2140	790	1060	219.4	294.4	29	33	284.5	323.7	46.2	52.5	60	4.3
VORTICE LINEO 200 T V0	17026					1580	2140	790	1060	219.4	294.4	29	33	284.5	323.7	46.2	52.5		
VORTICE LINEO 250 V0	17009	110	180	0.48	0.78	1900	2550	990	1350	275	375	36	53	353.5	519.9	51.4	59.1	60	5.8
VORTICE LINEO 315 V0	17010	200	300	0.90	1.32	1780	2450	1740	2300	483.3	638.9	43.5	75	426.7	735.8	50.6	63.4	60	11.3

Available only for the Extra EU market**

* Sound pressure level measured at 3 m in free field conditions with long-cased appliance in delivery mode, in accordance with standard EN ISO 3741:2009.

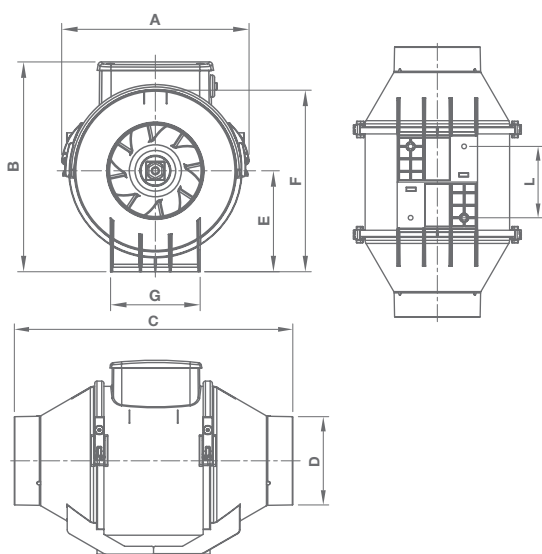
Electric supply: 220-240 V ~ 50 Hz.



VORTICE LINEO V0
RANGE



DIMENSIONS

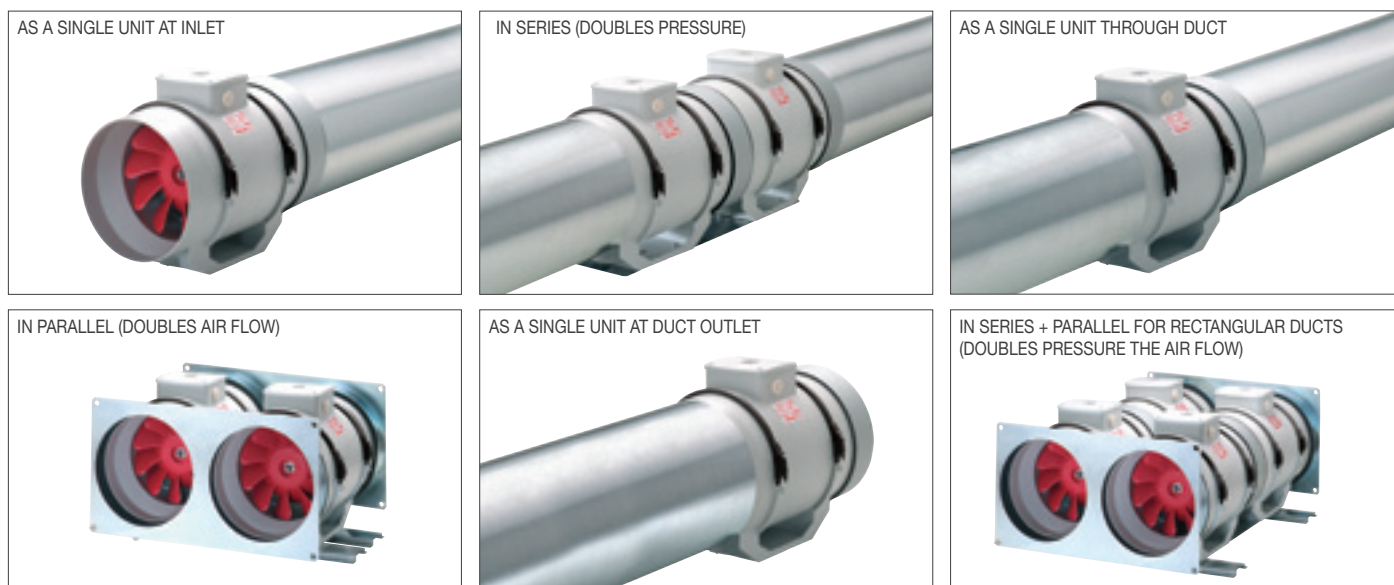


Models	A	B	C	Ø D	E	F	G	L
VORTICE LINEO 100 Q V0	156	174	231	96	82	152	95	47.5
VORTICE LINEO 100 Q T V0								
VORTICE LINEO 100 V0	188.5	211	303	96	101.5	189	90	80
VORTICE LINEO 100 T V0								
VORTICE LINEO 125 V0	188.5	211	258	122	101.5	189	90	80
VORTICE LINEO 125 T V0								
VORTICE LINEO 150 V0	214.5	234	294	146	112.5	212	110	80
VORTICE LINEO 150 T V0								
VORTICE LINEO 160 V0	214.5	234	272.5	156	112.5	212	110	80
VORTICE LINEO 160 T V0								
VORTICE LINEO 200 Q V0	234.5	260.5	300	196	125.5	235	140	100
VORTICE LINEO 200 Q T V0								
VORTICE LINEO 250 Q V0	300	317	385	247	152.5	292	176.5	145
VORTICE LINEO 250 Q T V0								
VORTICE LINEO 315 V0	361.5	394.5	448	312	188.5	359	220.5	182

Dimensions (mm)

INSTALLATION

Vortice Lineo extractors can be mounted in a wide range of options - at the beginning, in the middle or at end of air duct and horizontally, vertically, against walls, ceilings, false ceilings on any flat surface. One of the main features is easy inspection and maintenance, in just a few seconds. Vortice Lineo units can be fitted to standard round section pipes and to rectangular air ducts (using unique special mounting accessories).





VORTICE LINEO V0 RANGE

In-line mixed flow fans

SOUND PRESSURE LEVELS



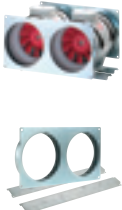
Models	Code	Sound pressure level [db(A)] *EN ISO 3741:1999	
		min	max
VORTICE LINEO 100 Q V0	17005	25	29
VORTICE LINEO 100 Q T V0	17025		
VORTICE LINEO 100 V0	17001	25	30
VORTICE LINEO 100 T V0	17021		
VORTICE LINEO 125 V0	17002	27	33
VORTICE LINEO 125 T V0	17022		
VORTICE LINEO 150 V0	17003	28	33
VORTICE LINEO 150 T V0	17023		
VORTICE LINEO 160 V0	17004	28	34
VORTICE LINEO 160 T V0	17024		
VORTICE LINEO 200 Q V0	17007	30	36
VORTICE LINEO 200 Q T V0	17028		
VORTICE LINEO 200 V0	17006	46.2	52.5
VORTICE LINEO 200 T V0	17026		
VORTICE LINEO 250 Q V0	17027	38	40
VORTICE LINEO 250 Q T V0	17029		
VORTICE LINEO 250 V0	17009	51.4	59.1
VORTICE LINEO 315 V0	17010	50.6	63.4

Sound Level measured at 3 m in free air condition with product completely ducted.

SOUND PRESSURE LEVELS

Models	Code	125 Hz	250 Hz	500 Hz	1K Hz	2K Hz	4K Hz	8K Hz	Lw dB(A)
VORTICE LINEO 100 Q V0	17005	45.6	56.5	55.5	55.6	47.4	44.3	33.6	58.5
VORTICE LINEO 100 Q T V0	17025								
VORTICE LINEO 100 V0	17001	52.3	62.3	58.6	53.5	51.0	42.6	34.0	60
VORTICE LINEO 100 T V0	17021								
VORTICE LINEO 125 V0	17002	51.4	61.8	59.5	59.6	56.8	48.6	40.5	63.6
VORTICE LINEO 125 T V0	17022								
VORTICE LINEO 150 V0	17003	60.5	68.3	67.8	63.7	66.7	55.6	45.8	71.1
VORTICE LINEO 150 T V0	17023								
VORTICE LINEO 160 V0	17004	59.1	68.9	66.7	64.4	67.0	57.8	48.4	71.3
VORTICE LINEO 160 T V0	17024								
VORTICE LINEO 200 Q V0	17007	64.2	69.6	66.5	62.8	63.5	55.2	47.3	69.5
VORTICE LINEO 200 Q T V0	17028								
VORTICE LINEO 200 V0	17006	68.6	68.6	71.2	69.1	70.7	66.3	57.4	75.7
VORTICE LINEO 200 T V0	17026								
VORTICE LINEO 250 Q V0	17027	65.8	75.1	71.5	74.0	66.7	60.8	52.5	76.5
VORTICE LINEO 250 Q T V0	17029								
VORTICE LINEO 250 V0	17009	69.0	73.1	77.2	76.0	72.3	62.9	55.1	79.7
VORTICE LINEO 315 V0	17010	73.3	78.4	79	81.1	76.5	67.6	59.6	83.9










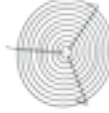
ACCESSORIES FOR SERIES AND PARALLEL INSTALLATION

	Description	Code	Product
	LINEO-C 100 Installation kit tube	22584	17001 - 17021
	LINEO-C 125 Installation kit tube	22585	17002 - 17022
	LINEO-C 150 Installation kit tube	22586	17003 - 17023
	LINEO-C 160 Installation kit tube	22587	17004 - 17024
	LINEO-C 200 Installation kit tube	22588	17007 - 17028 - 17006 - 17026
	LINEO-C 250 Installation kit tube	22589	17027 - 17029 - 17009 - 17010
	LINEO-SF 500 Series installation plate	22593	17001 - 17021 - 17002 - 17003 - 17023 - 17004 17024 - 17007 - 17028 - 17026 - 17026
	LINEO-SF 700 Series installation plate	22594	17027 - 17029 - 17009 - 17010
	LINEO-PF 100 Parallel installation kit (flanges and rails)	22577	17001 - 17021
	LINEO-PF 125 Parallel installation kit (flanges and rails)	22578	17002 - 17022
	LINEO-PF 150 Parallel installation kit (flanges and rails)	22579	17003 - 17023
	LINEO-PF 160 Parallel installation kit (flanges and rails)	22581	17004 - 17024
	LINEO-PF 200 Parallel installation kit (flanges and rails)	22582	17007 - 17028 - 17006 - 17026
	LINEO-PF 250 Parallel installation kit (flanges and rails)	22583	17027 - 17029 - 17009 - 17010

VORTICE LINEO V0 RANGE

In-line mixed flow fans

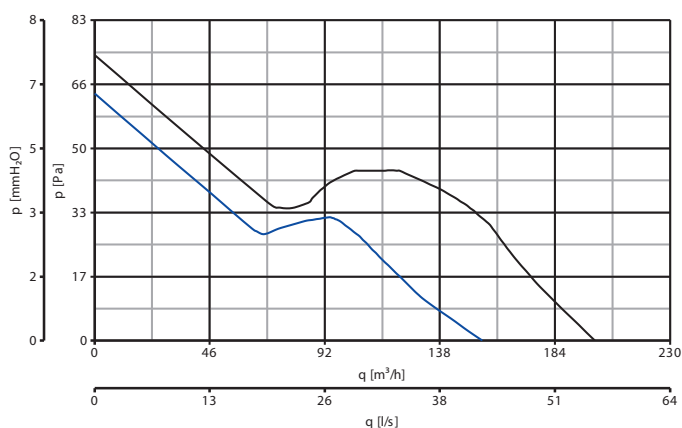
PRODUCT ACCESSORIES

	Description	Code	Product
	C HCS Environmental sensor for humidity	12994	All products
	C PIR Passive infrared sensor	12998	
	C SMOKE Environmental sensor for air quality	12993	
	C TEMP Environmental sensor for temperature	12992	
	C TIMER Adjustable over-run timer	12999	17005 - 17001 - 17002 - 17003 - 17004 - 17007 17006 - 17027 - 17009 - 17010
	DUO Speed controller	22914	All products
	C5 0.5 Speed controller 0.5 A	12987	17005 - 17001 - 17002 - 17003 - 17004 - 17007 17006 - 17027 - 17009 - 17010
	C 1.5 Electronic speed controller 1.5 A	12966	
	C 2.5 Electronic speed controller 2.5 A	12967	
	KIT SCB Built-in controller adaptors for C 1.5 and C 2.5	22481	12966 - 12967
	KIT SCB5 Built-in controller adaptors for C5 0.5	22483	12987
	LINEO-G 100 Lineo grille nominal diameter 100	22701	17005 - 17025 - 17001 - 17021
	LINEO-G 125 Lineo grille nominal diameter 125	22702	17002 - 17022
	LINEO-G 150 Lineo grille nominal diameter 150	22703	17003 - 17023
	LINEO-G 160 Lineo grille nominal diameter 160	22704	17004 - 17024
	LINEO-G 200 Lineo grille nominal diameter 200	22705	17007 - 17028 - 17006 - 17026
	LINEO-G 250 Lineo grille nominal diameter 250	22706	17027 - 17029 - 17009 - 17010

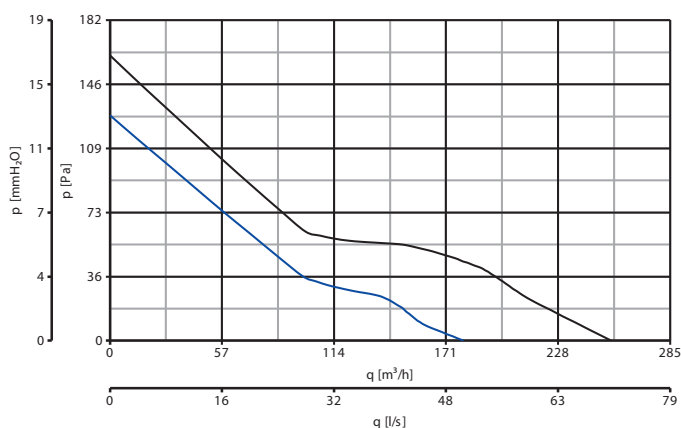
Description and size on page 52; System components on page 54

PERFORMANCE CURVES

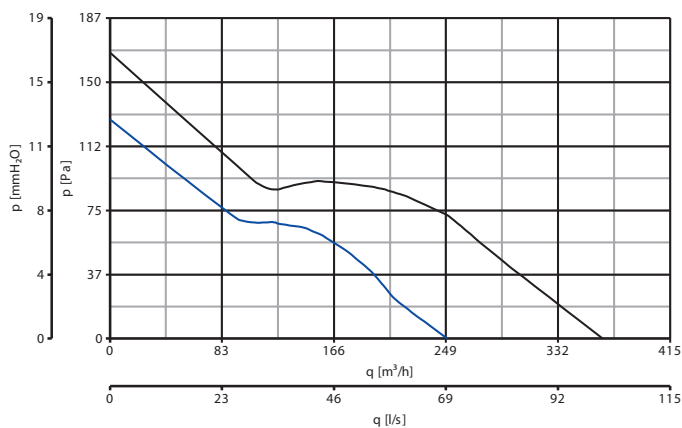
LINEO 100 Q V0 cod. 17005 - LINEO 100 Q T V0 cod. 17025



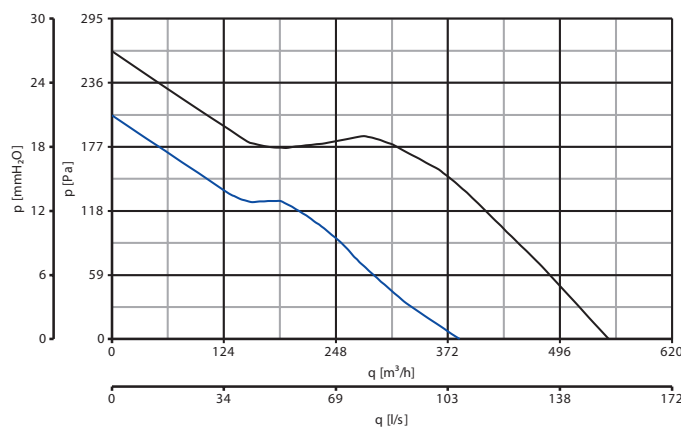
LINEO 100 V0 cod. 17001 - LINEO 100 T V0 cod. 17021



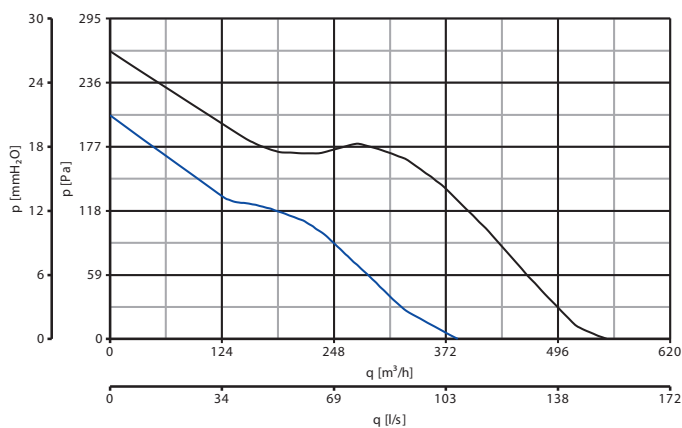
LINEO 125 V0 cod. 17002 - LINEO 125 T V0 cod. 17022



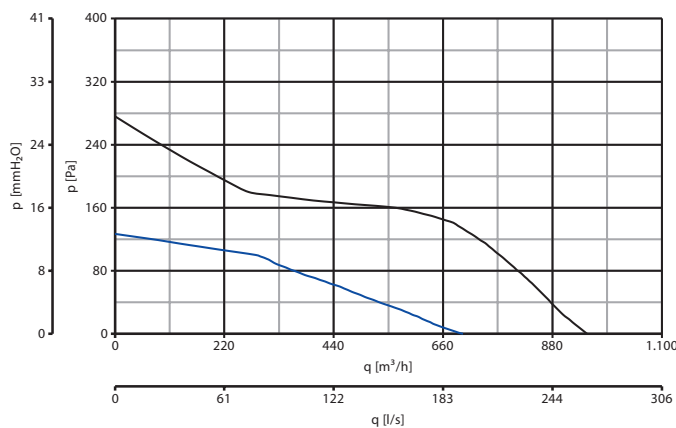
LINEO 150 V0 cod. 17003 - LINEO 150 T V0 cod. 17023



LINEO 160 V0 cod. 17004 - LINEO 160 T V0 cod. 17024



LINEO 200 Q V0 cod. 17007 - LINEO 200 Q T V0 cod. 17028



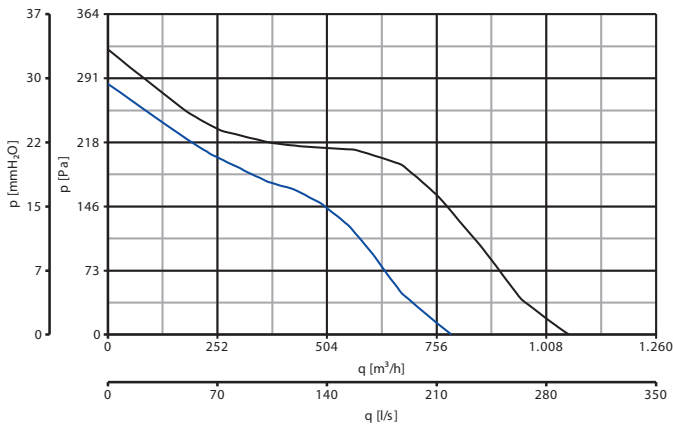


VORTICE LINEO V0 RANGE

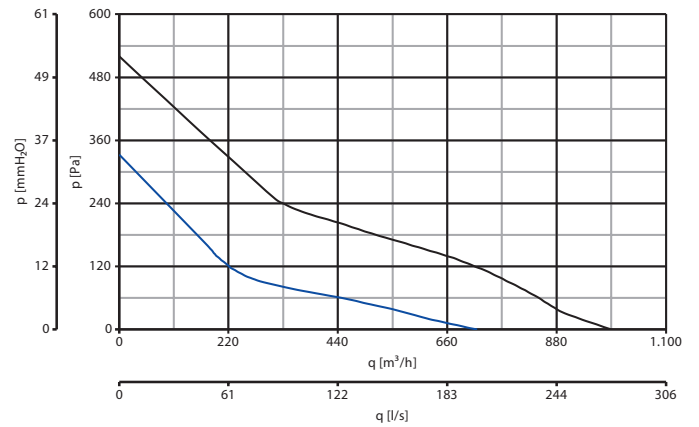
In-line mixed flow fans

PERFORMANCE CURVES

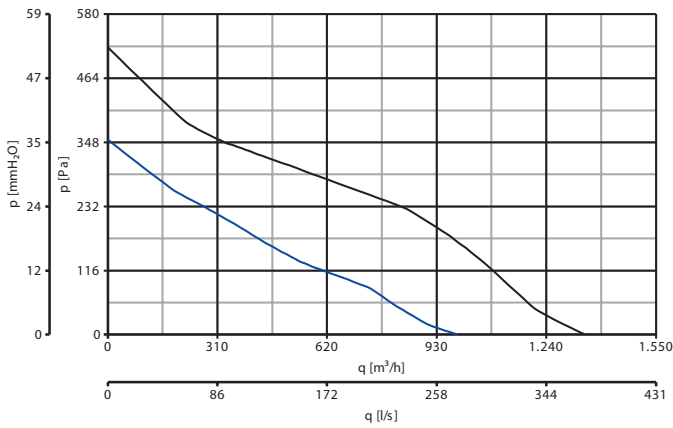
LINEO 200 V0 cod. 17006 - LINEO 200 V0 T CODE 17026



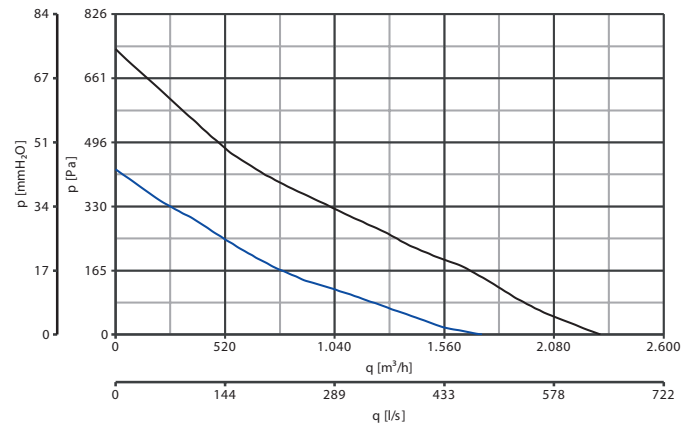
LINEO 250 Q V0 cod. 17027 - LINEO 250 Q T V0 cod. 17029



LINEO 250 V0 cod. 17009

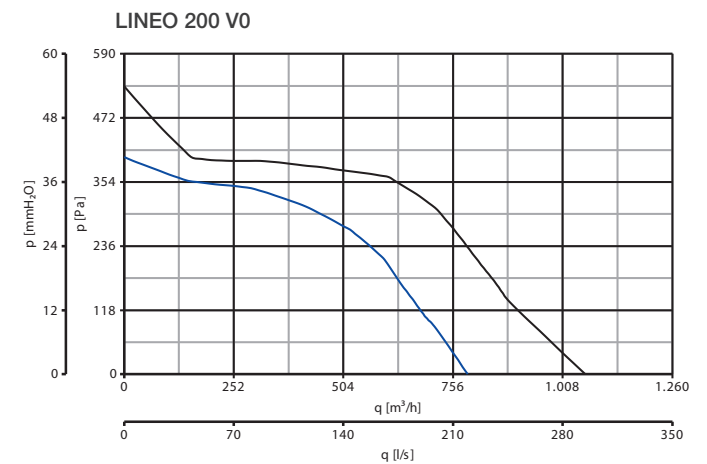
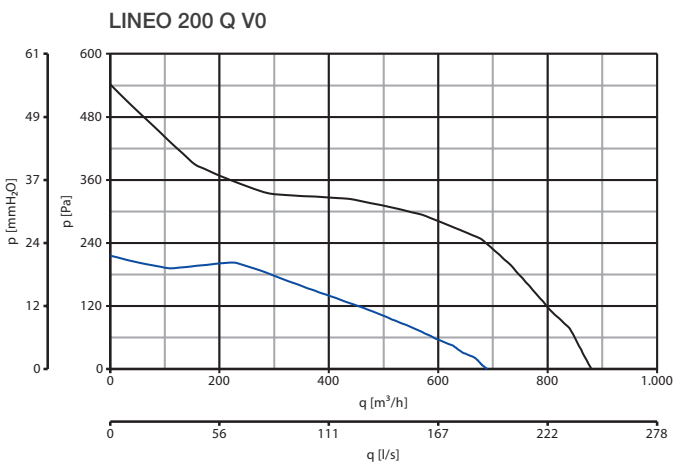
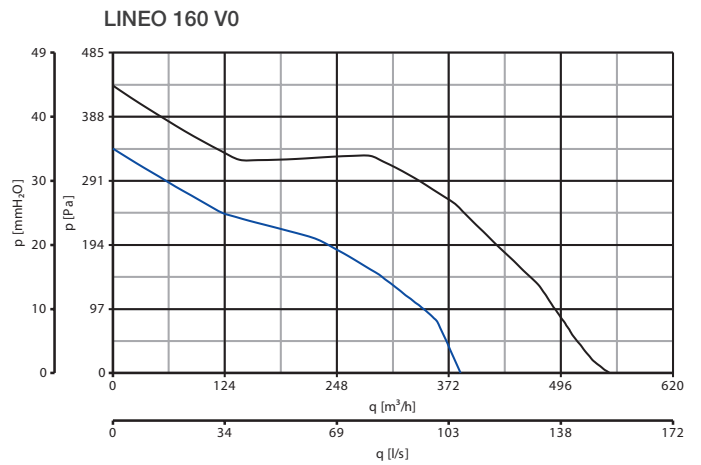
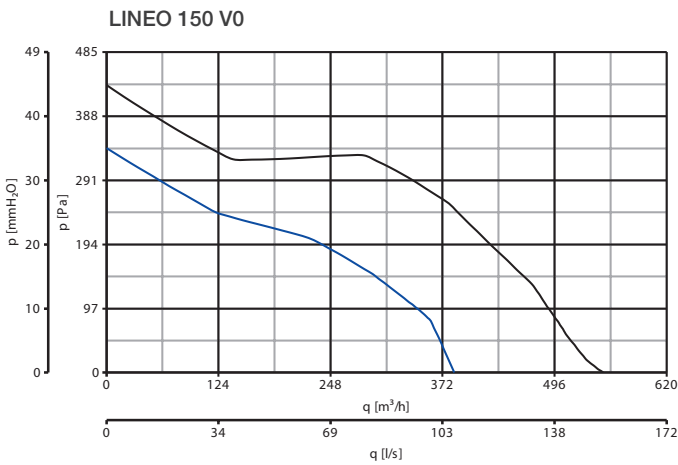
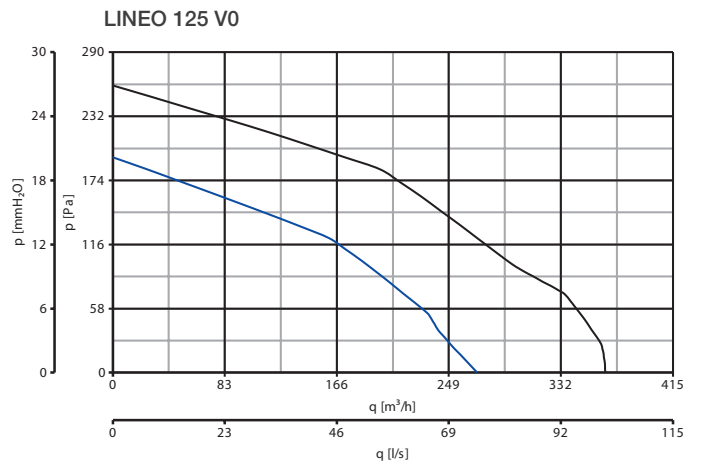
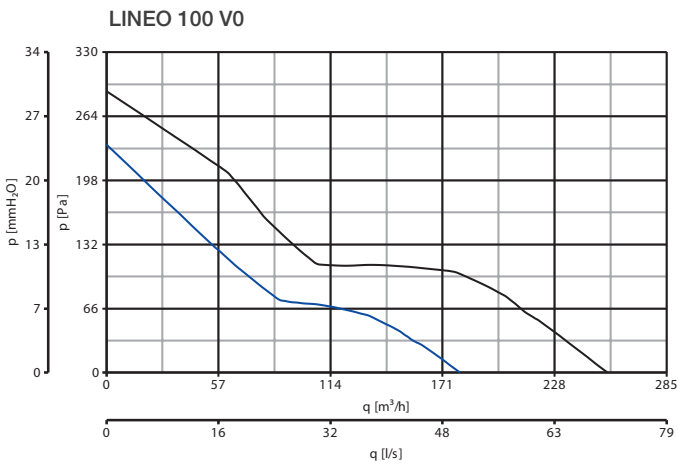


LINEO 315 cod. 17010



— min. — max.

IN SERIES PERFORMANCE CURVES

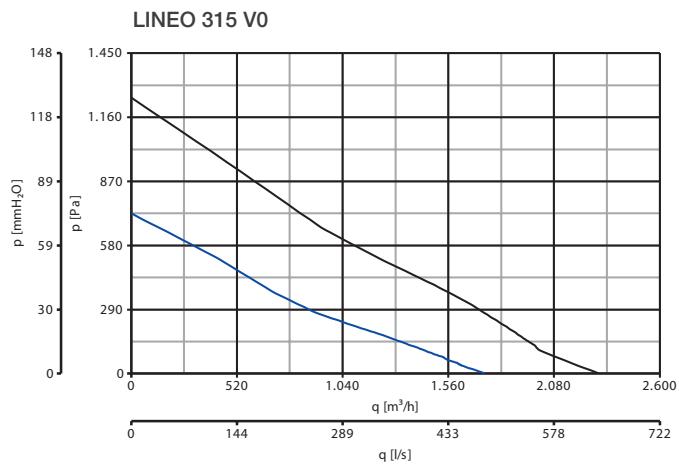
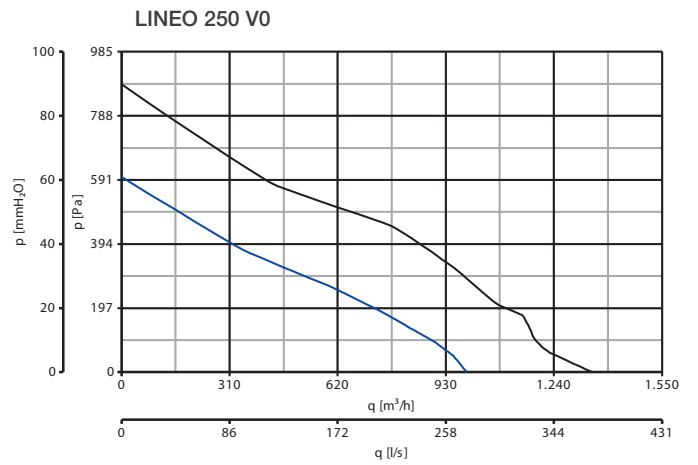
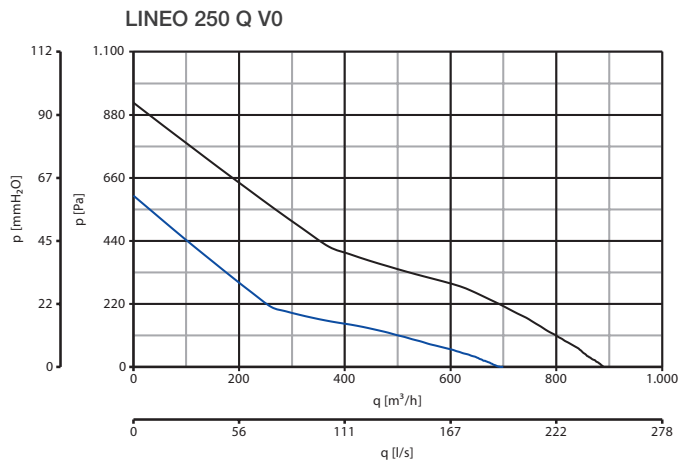




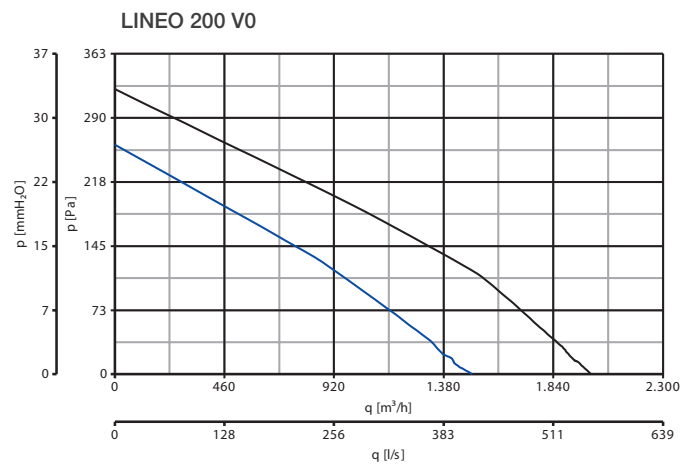
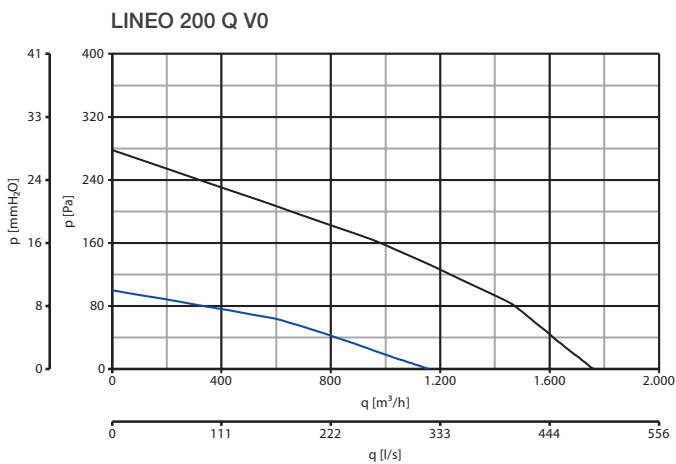
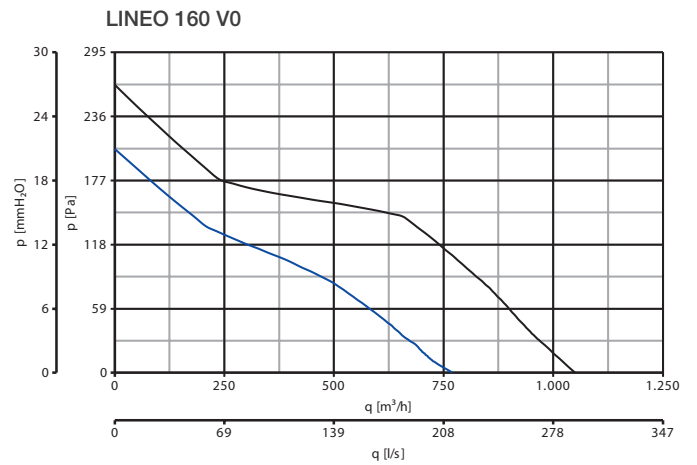
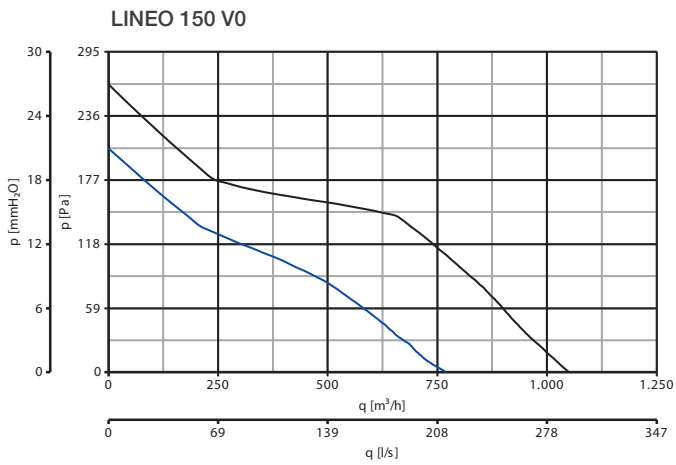
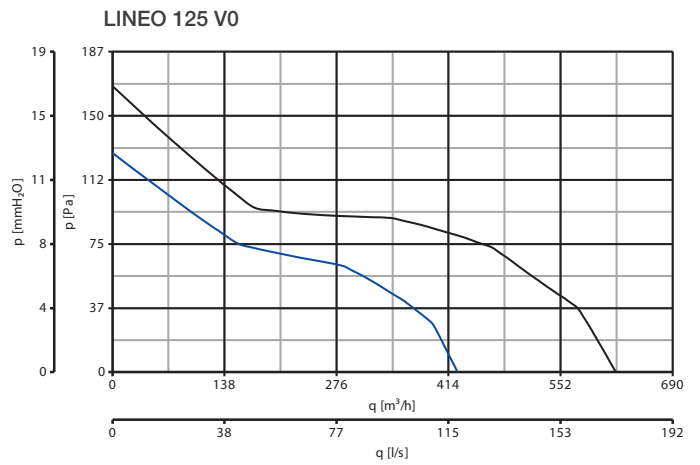
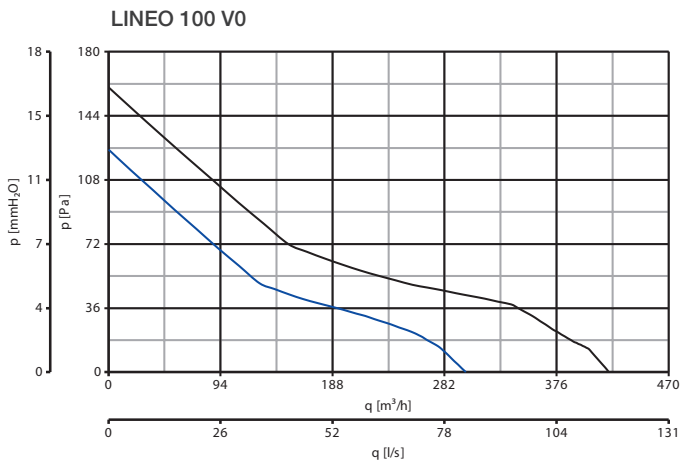
VORTICE LINEO V0 RANGE

In-line mixed flow fans

IN SERIES PERFORMANCE CURVES



IN PARALLEL PERFORMANCE CURVES

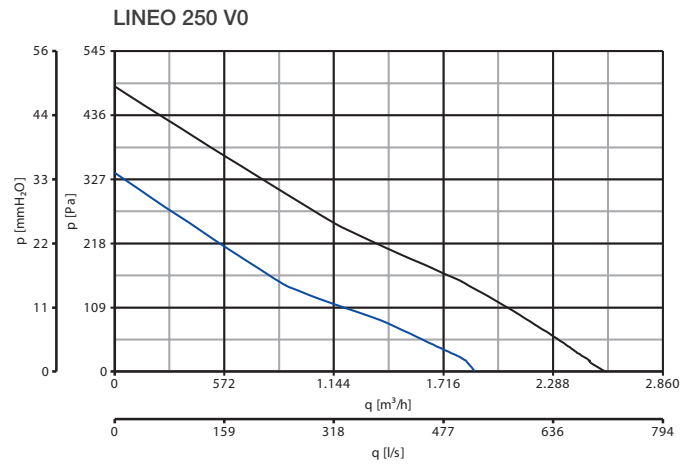
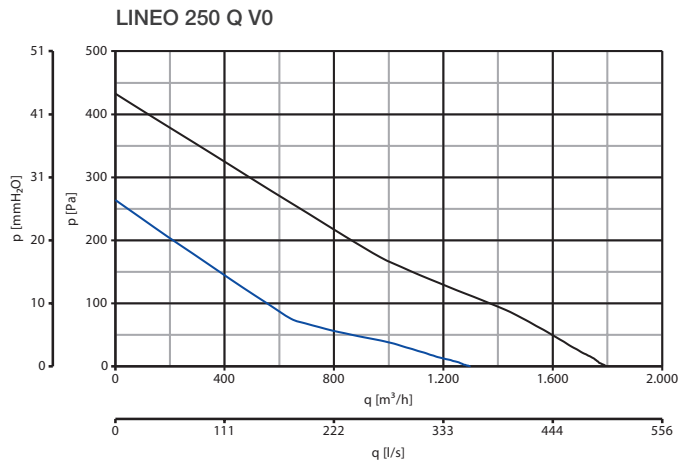




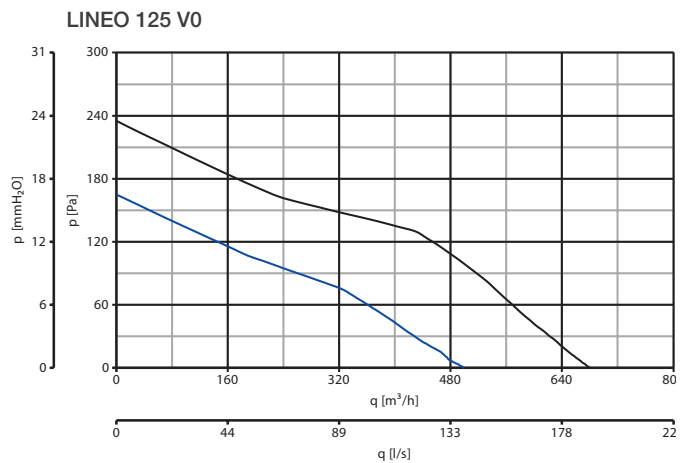
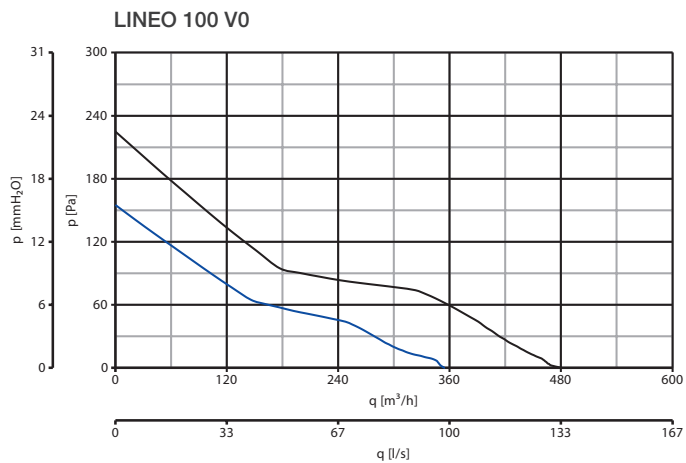
VORTICE LINEO V0 RANGE

In-line mixed flow fans

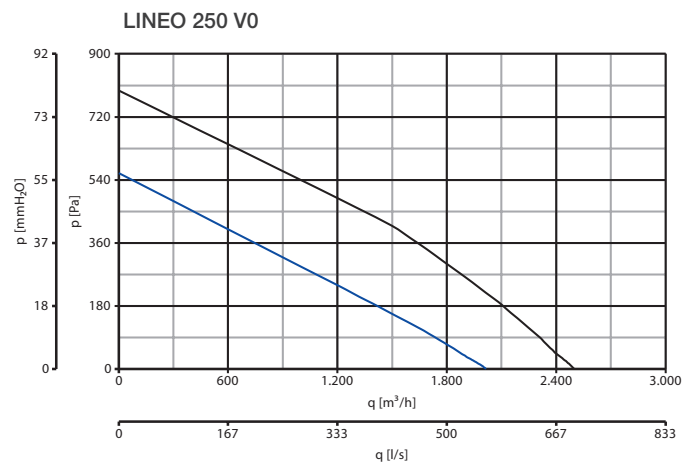
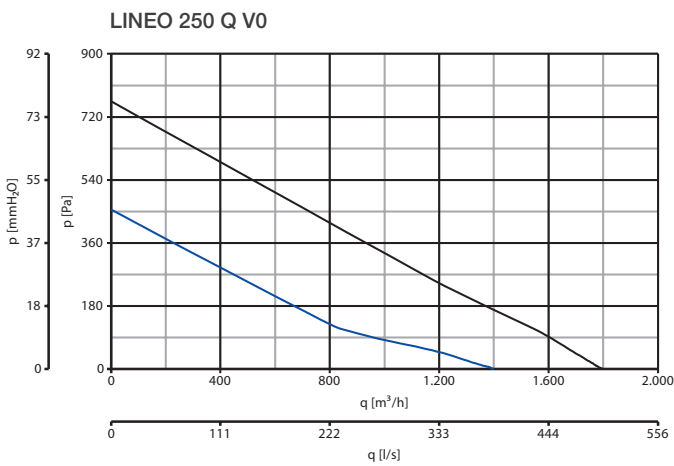
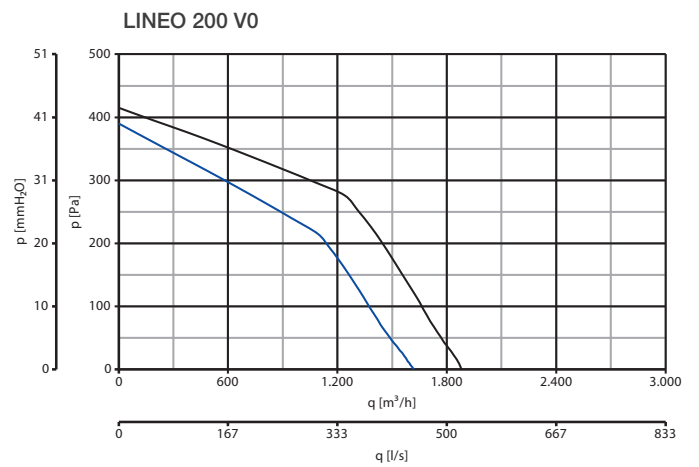
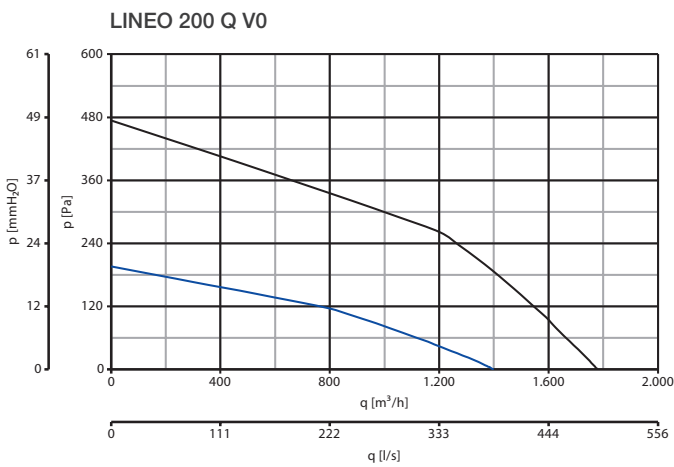
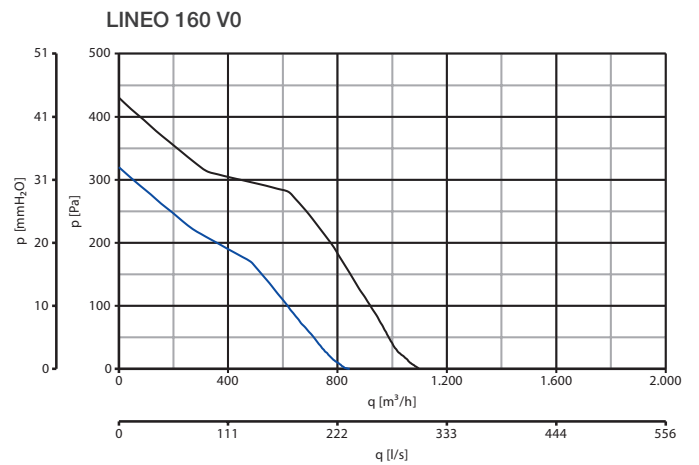
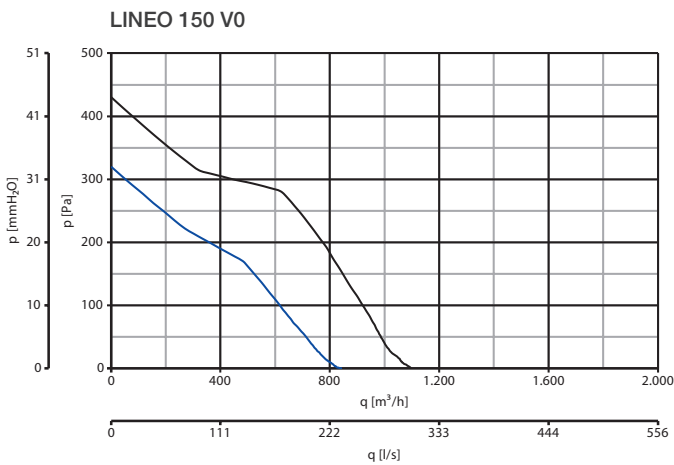
IN SERIES PERFORMANCE CURVES



IN SERIES + PARALLEL PERFORMANCE CURVES



IN SERIES + PARALLEL PERFORMANCE CURVES





LINEO ES RANGE

“Energy Saving” mixed flow extractor fans

PRODUCT SPECIFICATIONS



Suitable for residential, commercial and industrial applications: kitchens, bathrooms, offices, laboratories, factories, shops, laundromats, models, restaurants, bars, theatres, ballrooms, etc.

- **8 models:** from 100 to 315 diameter.
- Enclosure and impellers made of self-extinguishing V0 mineral charged polypropylene.
- EC brushless motors.
- Ball bearing motors for at least 30.000 hours operation without mechanical malfunction.
- Two speeds.
- Controllable through Vortice environmental sensors and DUO two-speed controller.
- Protection rating: IP44 (inline installation).
- Insulation class: I Ⓛ (for model LINEO ES 315).
- Insulation class: II. □

LONG LIFE 30.000 h



TECHNICAL DATA

Models	Code	W		A		RPM		Max Airflow				Max Pressure				Lp dB(A)*		Max C°	Kg
		min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max		
LINEO 100 Q ES	17036	4.5	7	0.05	0.08	1420	2120	90	145	25	40	3.6	8	35	78	21.0	33.3	60	1.5
		7	12	0.07	0.12	2125	2850	155	210	43	58	9	15	88	147	28.9	40.0		
		10	16.5	0.10	0.16	2560	3300	170	230	47	64	11	18	108	177	33.5	44.5		
LINEO 100 ES	17031	5.5	8	0.06	0.09	1320	1650	140	185	39	51	7	12	69	118	25.3	31.4	60	1.9
		8	12	0.09	0.12	1620	2000	180	255	50	71	12	23	118	225	31.4	36.4		
		11	17	0.11	0.17	1920	2330	220	270	61	75	17	26	167	255	35.7	40.8		
LINEO 125 ES	17032	6.5	10.5	0.07	0.11	1285	1660	190	270	53	75	9	16	88	157	28.9	35.1	60	1.8
		10	17	0.10	0.17	1600	2040	250	365	69	101	15	29	147	284	34.8	40.3		
		13.5	24	0.13	0.22	1870	2370	300	380	83	105	20	33	196	324	39.3	44.4		
LINEO 150 ES	17033	10	22	0.10	0.20	1340	1875	325	440	90	122	15	28	147	275	35.0	44.1	60	2.2
		15	35	0.15	0.31	1630	2230	385	550	107	153	22	43	216	422	41.6	47.1		
		22	52	0.20	0.44	1870	2560	465	620	129	172	31	53	304	520	46.0	53.2		
LINEO 160 ES	17034	10	23	0.10	0.21	1300	1900	325	450	90	125	15	28	147	275	33.8	44.6	60	2.1
		15	38	0.15	0.33	1560	2290	385	570	107	158	22	43	216	422	39.2	47.7		
		22	55	0.20	0.45	1830	2620	465	630	129	175	31	53	304	520	45.7	54.1		
LINEO 200 ES	17037	22	34	0.21	0.32	1990	2330	620	760	172	211	13	19	127	186	39.4	44.3	60	2.5
		36	57	0.33	0.50	2400	2820	750	1000	208	278	19	27	186	265	44.8	46.2		
		53	74	0.47	0.63	2750	3120	870	1080	242	300	25	37	245	363	45.3	47.5		
LINEO 250 ES	17038	27	59	0.26	0.54	1720	2280	650	850	180	236	19	34	186	333	43.0	50.9	50	5.3
		45	95	0.42	0.83	2100	2750	800	1150	222	319	29	51	284	500	47.4	55.0		
		65	124	0.59	1.06	2400	3010	920	1250	255	347	37	65	363	637	50.4	57.3		
LINEO 315 ES	17039	119	240	0.83	1.60	1800	2350	1400	1900	530	389	40	70	392	686	54.1	64.9		9.5

* Sound pressure level measured at 3 m in free field conditions with long-cased appliance in delivery mode, in accordance with standard EN ISO 3741:2009. The values in the table refer to three conditions: minimum setting, nominal and maximum setting.

Electric supply: 230 V - 50 Hz.



LINEO ES
RANGE

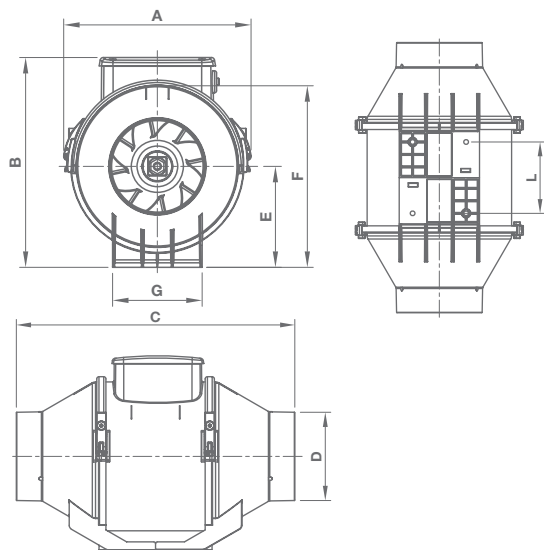


ErP data
Directive 2009/125/EC ErP (Energy related Products)

Models	Code	Measurement cat.	Efficiency cat.	Year of construction	Variable drive	BEP*						Spec. ratio <1.04
						η	N.	(kW) Pe	m ³ /h q	Pa p	RPM	
LINEO 315 ES	17039	C	STATIC	01-01-2013	YES	37.80	54.4	0.261	1061.2	296.95	2350	YES

* Best efficiency point.

DIMENSIONS



Models	A	B	C	Ø D	E	F	G	L
LINEO 100 Q ES	156	205	231	96	82	152	95	47.5
LINEO 100 ES	188.5	240	303	96	101.5	189	90	80
LINEO 125 ES	188.5	240	258	122	101.5	189	90	80
LINEO 150 ES	214.5	265	294	146	112.5	212	110	80
LINEO 160 ES	214.5	265	272.5	156	112.5	212	110	80
LINEO 200 ES	234.5	290	300	196	125.5	235	140	100
LINEO 250 ES	300	350	385	247	152.5	292	176.5	145
LINEO 315 ES	361.5	460	448	312	188.5	359	220.5	182

Dimensions (mm)

PRODUCT ACCESSORIES

	Description	Code	Product
	C HCS Environmental sensor for humidity	12994	All products
	C PIR Passive infrared sensor	12998	
	C SMOKE Environmental sensor for air quality	12993	
	C TEMP Environmental sensor for temperature	12992	
	C TIMER Adjustable over-run timer	12999	
	DUO Speed controller	22914	

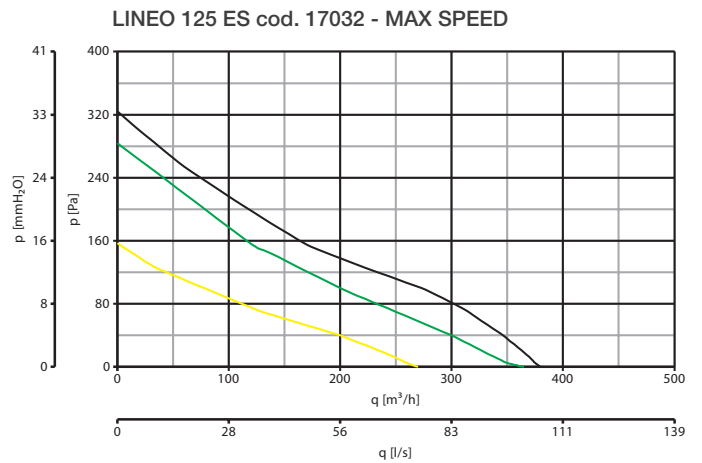
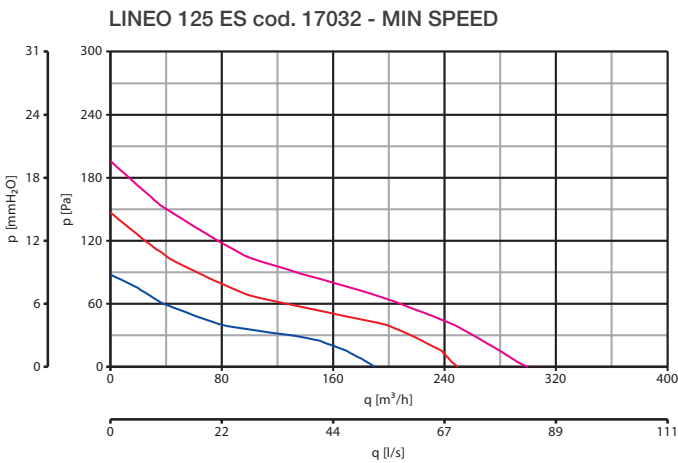
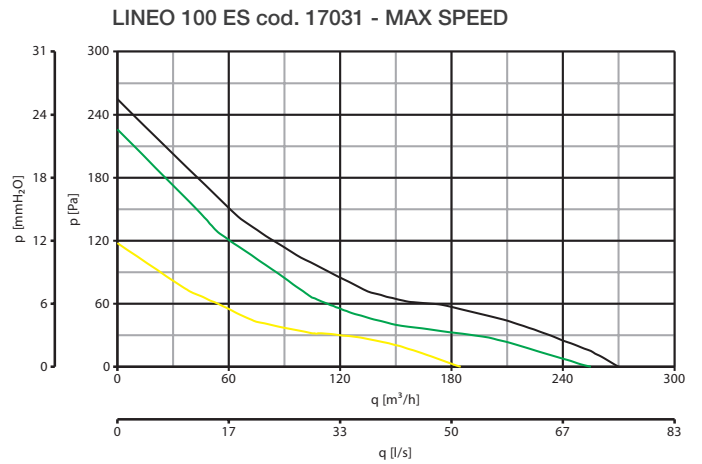
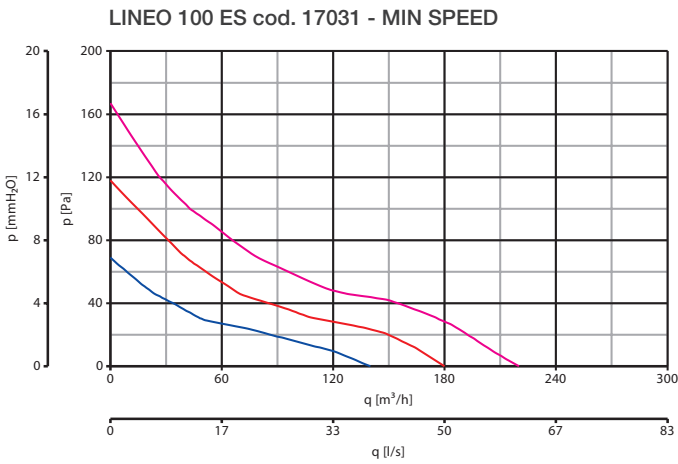
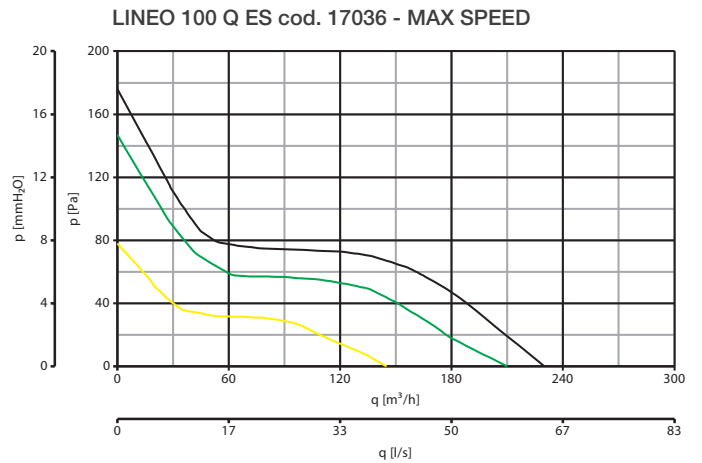
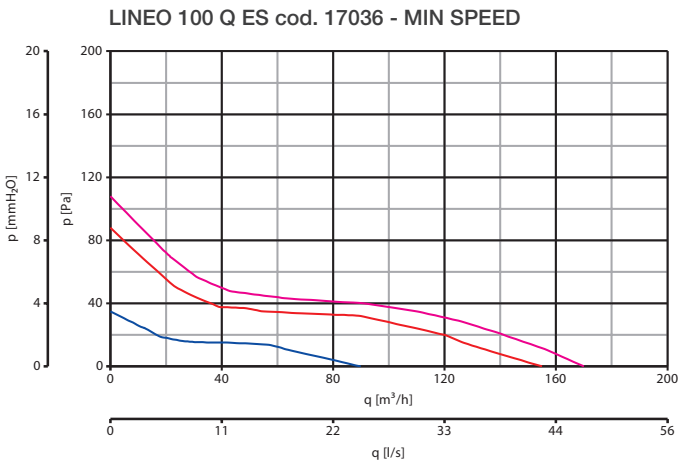
Description and size on page 52; System components on page 54



LINEO ES RANGE

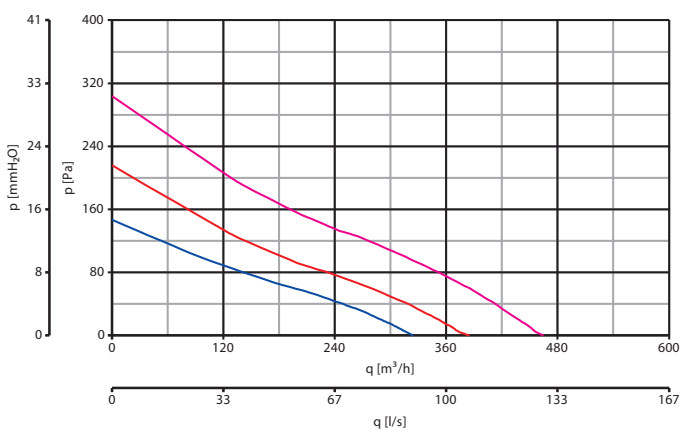
“Energy Saving” mixed flow extractor fans

PERFORMANCE CURVES

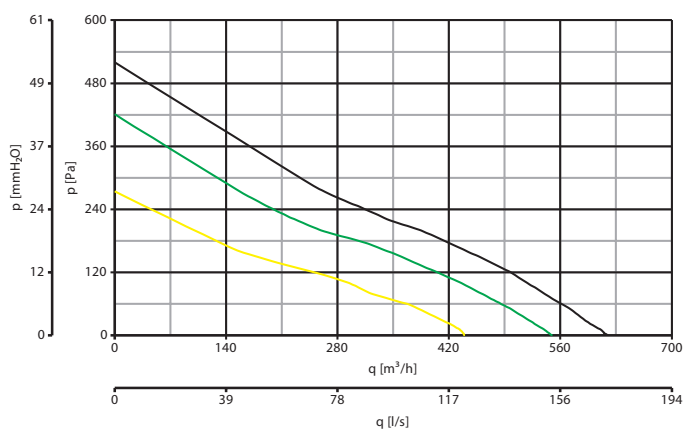


PERFORMANCE CURVES

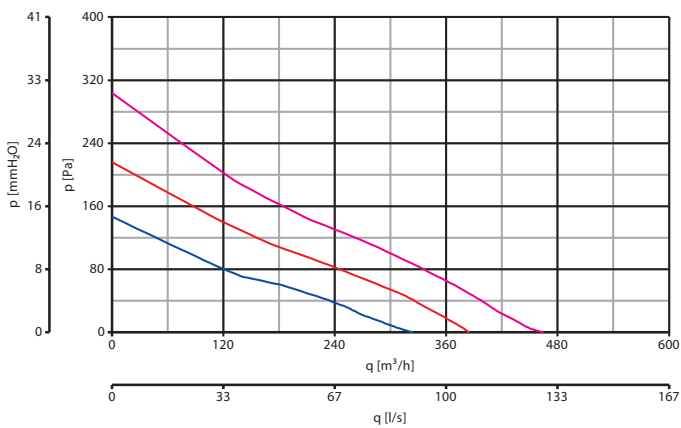
LINEO 150 ES cod. 17033 - MIN SPEED



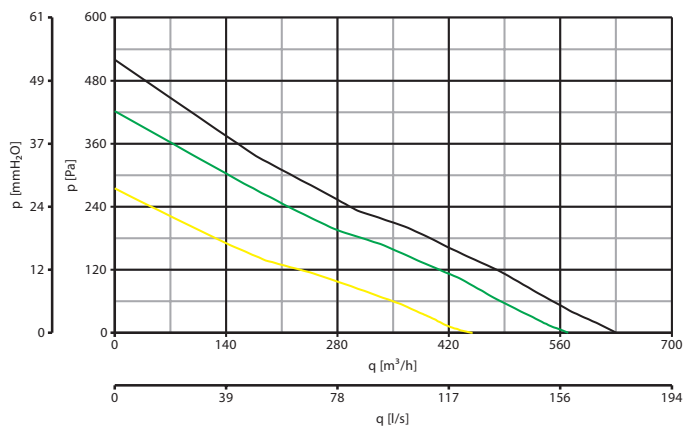
LINEO 150 ES cod. 17033 - MAX SPEED



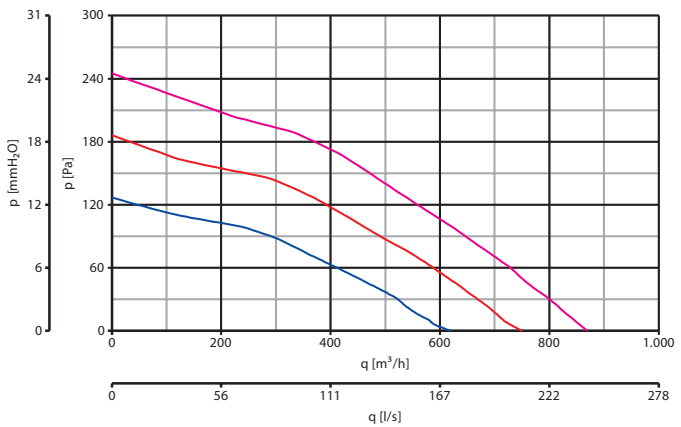
LINEO 160 ES cod. 17034 - MIN SPEED



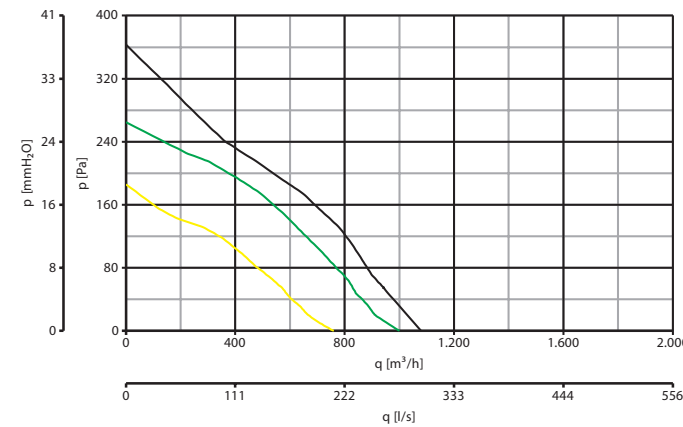
LINEO 160 ES cod. 17034 - MAX SPEED



LINEO 200 ES cod. 17037 - MIN SPEED



LINEO 200 ES cod. 17037 - MAX SPEED

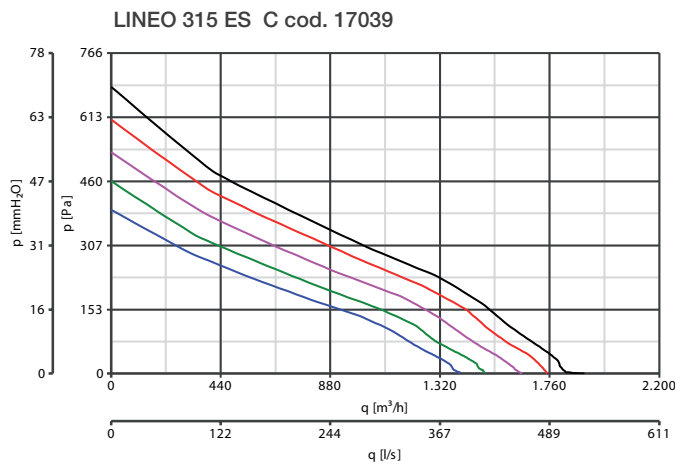
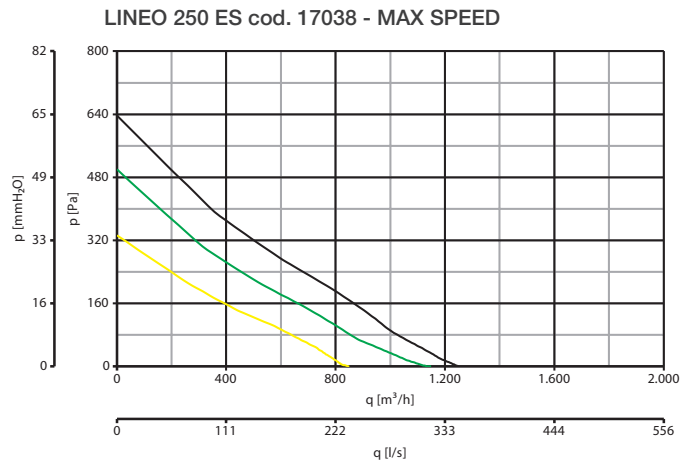
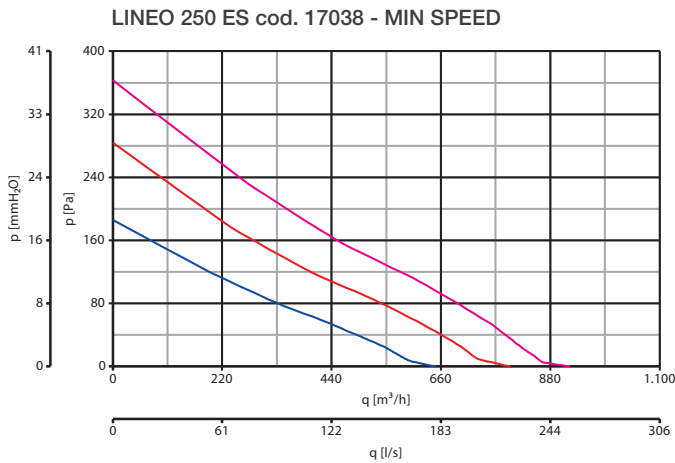




LINEO ES RANGE

“Energy Saving” mixed flow extractor fans

PERFORMANCE CURVES



- min speed**
 - min. setting (blue line)
 - nominal setting (red line)
 - max. setting (magenta line)
- max speed**
 - min. setting (yellow line)
 - nominal setting (green line)
 - max. setting (black line)
- p = static pressure

NOTE



CA V0 E RANGE

In-line centrifugal fans in self-extinguishing plastic

PRODUCT SPECIFICATIONS

Suitable for residential, commercial and industrial applications: kitchens, bathrooms, offices, laboratories, factories, shops, laundromats, restaurants, bars, theatres, ballrooms, etc.

- **7 models:** CA 100 V0 D, CA 125 V0 D, CA 150 V0 D, CA 200 V0 Q, CA 200 V0 E, CA 250 V0 E, CA 315 V0 E.
- Structure in self-extinguishing V0 PP thermoplastic resin.
- Backward curved centrifugal impellers.
- High efficient ball bearing motors.
- Low noise emissions.
- Low specific consumption.
- Constructed to withstand splashing (suitable for damp environments).
- Wide range of continuous operation temperatures between -25°C and +55°C.
- Mounting brackets made of galvanized steel included.
- Protection rating: IP44 CA V0 E.
- Protection rating: IPX4 CA V0.
- Insulation class: II. □



LONG LIFE 30.000 h



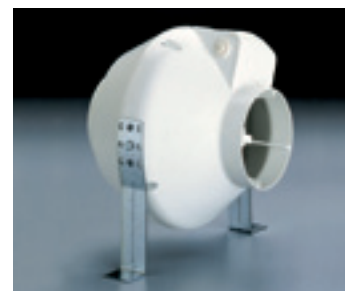
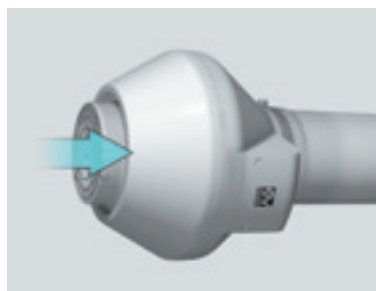
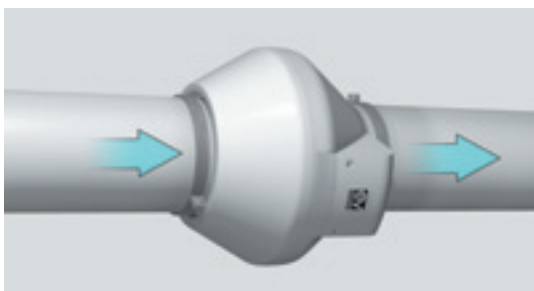
TECHNICAL DATA

Models	Code	W min/max	A min/max	RPM min/max	Max Airflow		Max Pressure		Lp dB(A)* min/max	Max C°	Kg
					m³h min/max	l/s min/max	mmH₂O min/max	Pa min/max			
CA 100 V0 D	16008	65 - 85	0.32 - 0.38	1660 - 2540	150 - 235	41.7 - 65.3	30 - 40	274 - 392	51 - 56 (*)	50	2.4
CA 125 V0 D	16018	67 - 85	0.34 - 0.40	1480 - 2470	210 - 360	58.3 - 100	25 - 36	245 - 353	45 - 56 (*)		2.3
CA 150 V0 D	16028	70 - 85	0.34 - 0.41	1400 - 2390	280 - 500	77.8 - 138.9	20 - 34	196 - 333	44 - 56 (*)		2.6
CA 200 V0 Q	16035	100	0.35	2290	700	194.4	37	363	59 (*)		3.1
CA 200 V0 E	16038	90	0.40	2615	840	233	45	441	50.3 (**)	55	4.0
CA 250 V0 E	16039	90	0.40	2650	920	256	42	412	49.9 (**)		4.3
CA 315 V0 E	16041	120	0.54	2660	1100	305	55	539	54 (**)		6.5

* Sound pressure level measured at 3 m in free field conditions with long-cased appliance in delivery mode in accordance with standard EN ISO 3741.

** Sound pressure level measured at 3 m in free field conditions with long-cased appliance in delivery mode in accordance with standard EN ISO 9614.

Electrical supply: 230 V - 50 Hz for CA V0 E models.
Electrical supply: 220/240 V - 50 Hz for CA 100, 120, 150 V0 models.
Electrical supply: 220/240 V - 50/60 Hz for CA 200 V0 Q model.

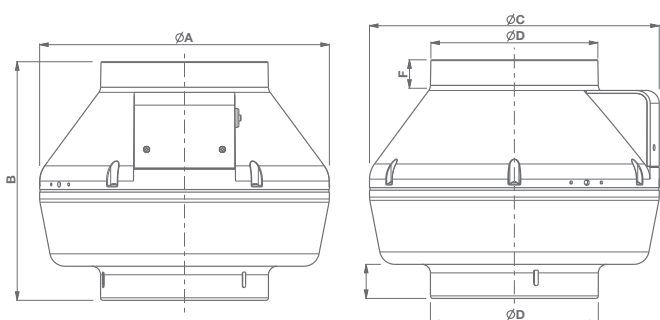




CA V0 E
RANGE



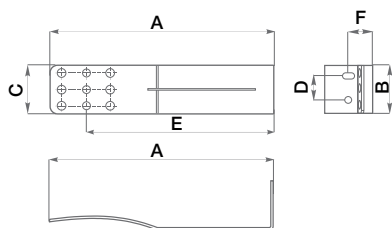
DIMENSIONS



Models	A	B	Ø C	Ø D	E	F
CA 100 V0 D	250	250	250	97	30	30
CA 125 V0 D				122		
CA 150 V0 D	300	305	300	147/157		
CA 200 V0 Q	340	280	340	197	40	40
CA 200 V0				247		
CA 250 V0		305		247	60	
CA 315 V0	400	340	400	312	75	40

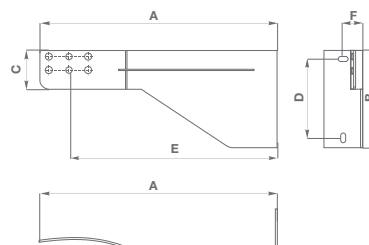
Dimensions (mm)

Galvanised sheet-metal brackets (for model Ø 100-125-150)



Models	A	B	C	D	E	F
Brackets	186	40	40	20	156	10

Galvanised sheet-metal brackets (for model Ø 200-250-315)



Models	A	B	C	D	E	F
Brackets	245	100	40	80	215	10

SOUND LEVELS

Models	Code		63 Hz	125 Hz	250 Hz	500 Hz	1K Hz	2K Hz	4K Hz	8K Hz
CA 100 V0 D	16008	max speed	43.6	54.4	69.3	64.0	65.2	63.1	60.0	53.1
CA 125 V0 D	16018		47.2	54.6	69.0	65.8	66.2	63.0	59.8	52.3
CA 150 V0 D	16028		44.6	52.6	66.1	62.9	65.8	63.0	61.9	51.7
CA 200 V0 Q	16035		-	-	-	-	-	-	-	-
CA 200 V0 E	16038		10.70	37.80	48.30	58.0	59.20	62.40	56.30	55.30
CA 250 V0 E	16039		23.50	37.10	51.30	56.30	60.50	57.80	55.30	57.80
CA 315 V0 E	16041		23.80	38.80	61.40	60.70	67.10	63.10	60.90	59.70

CA V0 E RANGE

In-line centrifugal fans in self-extinguishing plastic

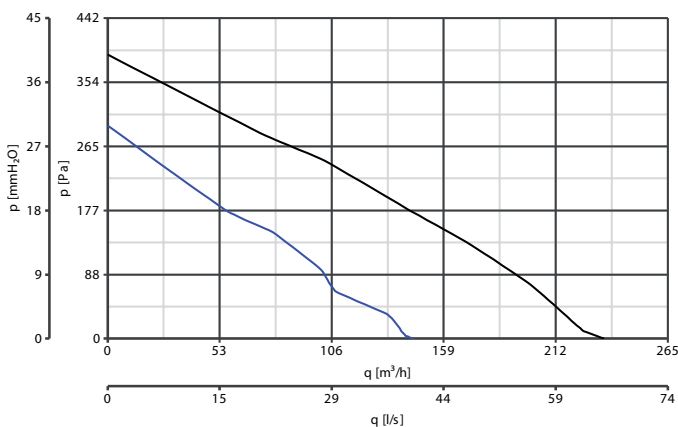
PRODUCT ACCESSORIES

	Description	Code	Product
	C HCS Environmental sensor for humidity	12994	All products
	C PIR Passive infrared sensor	12998	
	C SMOKE Environmental sensor for air quality	12993	
	C TEMP Environmental sensor for temperature	12992	
	C TIMER Adjustable over-run timer	12999	
	DUO Speed controller	22914	16008 - 16018 - 16028
	C 1.5 Electronic speed controller 1.5 A	12966	All products
	C 2.5 Electronic speed controller 2.5 A	12967	
	SCNRB Non-reversible built-in electronic speed controller	12971	
	KIT SCB Built-in controller adaptors for C 1.5 and C 2.5	22481	12966 - 12967
	CA-G 100 Protection grille nominal diameter 100 mm	22750	16008
	CA-G 125 Protection grille nominal diameter 125 mm	22755	16018
	CA-G 150 Protection grille nominal diameter 150 mm	22760	16028
	CA-G 200 Protection grille nominal diameter 200 mm	22765	16035 - 16038
	CA-G 250 Protection grille nominal diameter 250 mm	22770	16039
	CA-G 315 Protection grille nominal diameter 315 mm	22775	16041
	CA-MU Galvanized sheet-metal brackets	22674	All products

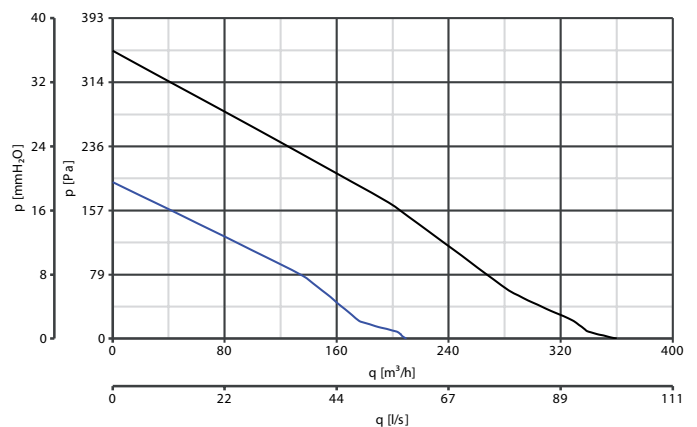
Description and size on page 52; System components on page 54

PERFORMANCE CURVES

CA 100 V0 D Cod. 16008

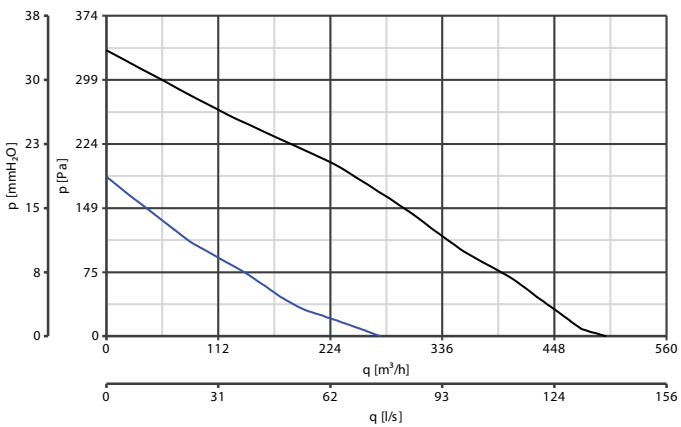


CA 125 V0 D Cod. 16018

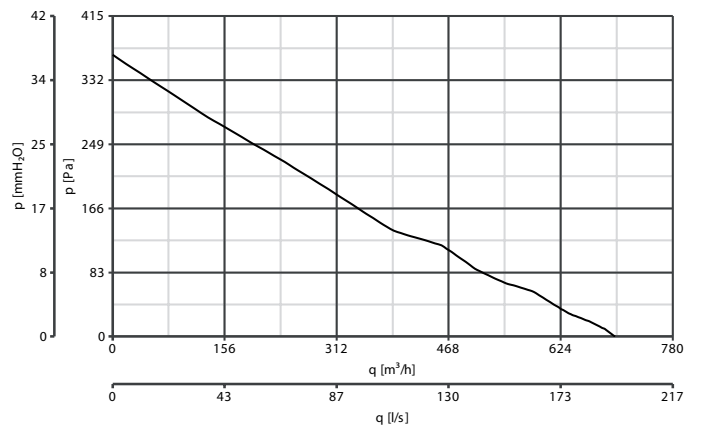


PERFORMANCE CURVES

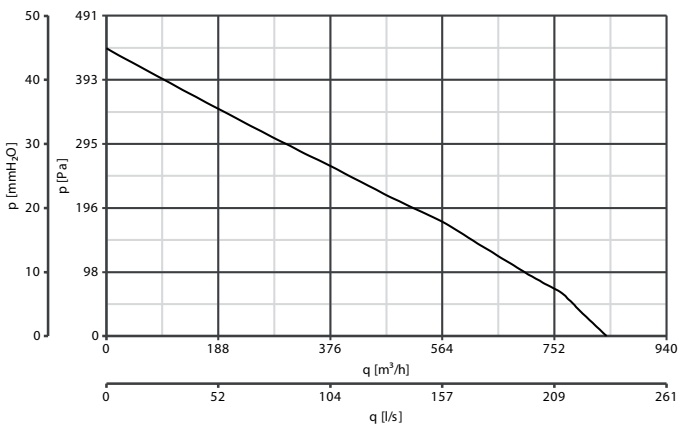
CA 150 V0 D Cod. 16028



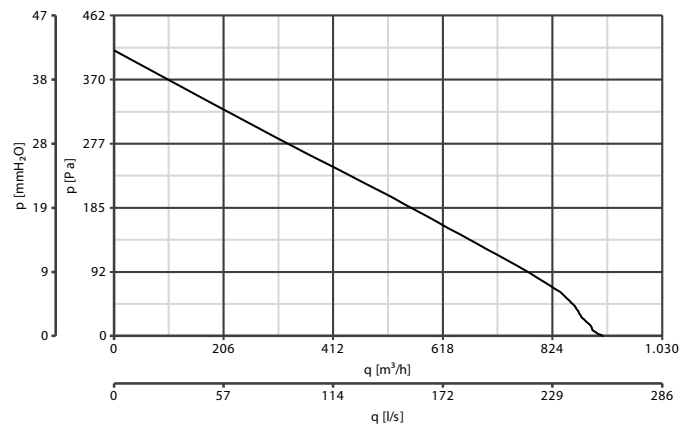
CA 200 V0 Q Cod. 16035



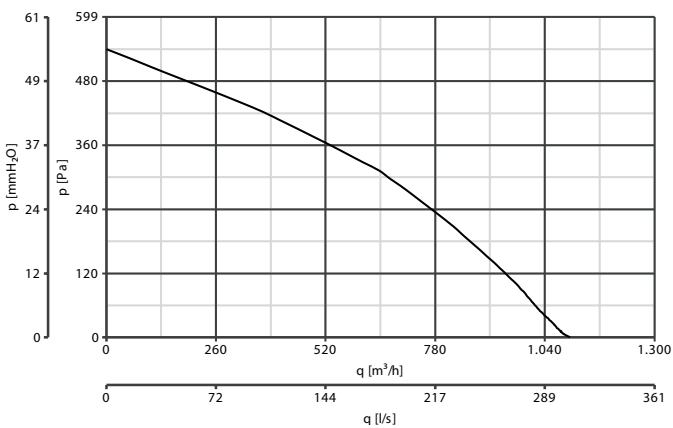
CA 200 V0 E Cod. 16038



CA 250 V0 E Cod. 16039



CA 315 V0 E Cod. 16041



— min. — max.



NEW

CA V0 EP RANGE

In-line centrifugal fans in self-extinguishing plastic

PRODUCT SPECIFICATIONS

Suitable for residential, commercial and industrial applications: kitchens, bathrooms, offices, laboratories, factories, shops, laundromats, restaurants, bars, theatres, ballrooms, etc.

- **7 models:** CA 100 V0 D EP, CA 125 V0 D EP, CA 150 V0 D EP, CA 200 V0 Q EP, CA 200 V0 EP, CA 250 V0 EP, CA 315 V0 EP.
- Structure in self-extinguishing V0 PP thermoplastic resin.
- Backward curved centrifugal impellers.
- High efficient ball bearing motors.
- Low noise emissions.
- Low specific consumption.
- Constructed to withstand splashing (suitable for damp environments).
- Wide range of continuous operation temperatures between -25°C and +55°C.
- Mounting brackets made of galvanized steel included.
- Protection rating: IP44 CA V0 E.
- Protection rating: IPX4 CA V0.
- Insulation class: II. □



LONG LIFE 30.000 h



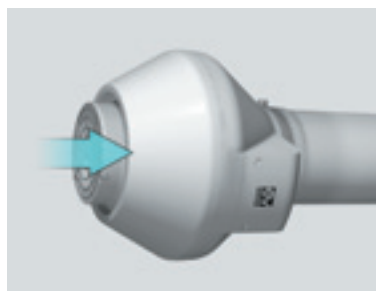
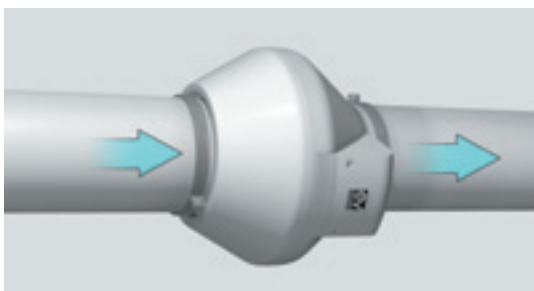
TECHNICAL DATA

Models	Code	W min/max	A min/max	RPM min/max	Max Airflow		Max Pressure		Lp dB(A)* min/max	Max C°	Kg
					m³h min/max	l/s min/max	mmH₂O min/max	Pa min/max			
CA 100 V0 D EP	16216	26 - 85	0.22 - 0.38	1255 - 2480	110.0 - 231.0	30.5 - 64.1	16.9 - 38.1	165.5 - 373.7	51 - 56 (*)	50	2.4
CA 125 V0 D EP	16217		0.22 - 0.40	1180 - 2400	162.0 - 347.0	45.0 - 96.3	14.7 - 35.7	144.2 - 350.4	45 - 56 (*)		2.3
CA 150 V0 D EP	16218		0.22 - 0.41	1125 - 2335	235.0 - 506.7	65.2 - 140.5	10.9 - 32.6	107.2 - 319.7	44 - 56 (*)		2.6
CA 200 V0 Q EP	16219	39 - 100	0.27 - 0.35	1545 - 2355	440.0 - 690.0	122.2 - 191.6	23.6 - 35.3	231.9 - 346.1	59 (*)	55	3.1
CA 200 V0 EP	16220	39 - 90	0.35 - 0.40	1320 - 2611	387.1 - 775.0	107.5 - 215.3	24.6 - 42.2	241.2 - 413.9	50.3 (**)		3.5
CA 250 V0 EP	16221	45 - 90	0.37 - 0.40	1600 - 2610	525.0 - 855.0	145.8 - 237.5	22.2 - 38.1	218.0 - 373.2	49.9 (**)		3.7
CA 315 V0 EP	16222	48 - 120	0.48 - 0.54	1280 - 2640	527.0 - 1100.0	146.3 - 305.5	27.5 - 56.6	270.0 - 554.7	54 (**)		5.5

* Sound pressure level measured at 3 m in free field conditions with long-cased appliance in delivery mode in accordance with standard EN ISO 3741.

** Sound pressure level measured at 3 m in free field conditions with long-cased appliance in delivery mode in accordance with standard EN ISO 9614.

Electrical supply: 220/240 V - 50 Hz for CA 100, 120, 150 V0 D EP models.
Electrical supply: 220/240 V - 50/60 Hz for CA 200 V0 Q EP model.
Electrical supply: 230 V - 50 Hz for CA 200, 250, 315 V0 EP models.





CA V0 EP
RANGE



Remote Control Unit
included



CA V0 EP RANGE | TECHNICAL DATA FOR REGULATION N° 1254/2014/UE

	Models Code	CA 100 V0 D EP	CA 125 V0 D EP	CA 150 V0 D EP	CA 200 V0 Q EP
		16216	16217	16218	16219
Supplier's name or trade mark	-	Vortice	Vortice	Vortice	Vortice
Specific Energy Consumption class SEC in average climate zone	-	F	F	E	E
Specific Energy Consumption class SEC average	kWh/m²a	-6,3	-9	-11,3	-12,6
Specific Energy Consumption class SEC cold		-15,4	-18,4	-20,8	-22,3
Specific Energy Consumption class SEC warm		5,7	2,6	0,2	-1,3
Declared typology	-	RVU-U*	RVU-U*	RVU-U*	RVU-U*
Type of drive	-	MSD***	MSD***	MSD***	MSD***
Type of heat recovery system HRS	-	None	None	None	None
Thermal efficiency of heat recovery at reference air flow	%	NA	NA	NA	NA
Maximum flow rate [m³/s]	m³/s	0,0514	0,0703	0,1014	0,1375
Electric power input of the fan drive, including any motor control equipment, at maximum flow rate	W	77	80	83,5	83,5
Sound power level LWA	LWA [dB(A)]	77	77	77	80
Reference flow rate	m³/s	0,036	0,0492	0,071	0,0963
Reference pressure difference	Pa	100	80	55	60
SPI	W/(m³/h)	0,34749	0,25974	0,18787	0,14661
Control factor CTRL	%	1	1	1	1
Control typology	-	manual	manual	manual	manual
Maximum internal leakage rates	-	NA	NA	NA	NA
Maximum external leakage rates	%	-	-	-	-
Mixing rate	-	NA	NA	NA	NA
Airflow sensitivity to pressure variations at + 20Pa and - 20 Pa	m³/h	NA	NA	NA	NA
Indoor/outdoor air tightness	-	NA	NA	NA	NA
Annual electricity consumption (AEC)	kWh electricity/a	4,353	3,254	2,353	1,837
AHS average Annual heating saved	kWh primary energy/a	17,151	17,151	17,151	17,151
AHS cold Annual heating saved		27,322	27,322	27,322	27,322
AHS warm Annual heating saved		6,315	6,315	6,315	6,315
Position and description of visual filter warning	-	-	-	-	-

* RVU-U: Unit Ventilation Residential - Unidirectional
 ** NRVU-U: Unit Ventilation Non Residential - Unidirectional
 *** MSD: Multi-Speed Drive

CA V0 EP RANGE

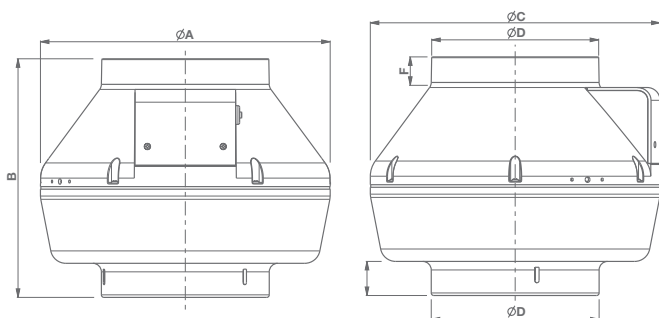
In-line centrifugal fans in self-extinguishing plastic

CA V0 EP RANGE | TECHNICAL DATA FOR REGULATION N° 1254/2014/UE

Models		CA 200 V0 E EP	CA 250 V0 E EP	CA 315 V0 E EP
Code		16220	16221	16222
Supplier's name or trade mark	-	Vortice	Vortice	Vortice
Specific Energy Consumption class SEC in average climate zone	-	E	E	E
Specific Energy Consumption class SEC average	kWh/m ² a	-13	-13,2	-13,5
Specific Energy Consumption class SEC cold		-22,7	-23	-23,3
Specific Energy Consumption class SEC warm		-1,7	-2	-2,3
Declared typology	-	RVU-U*	RVU-U*	RVU-U*
Type of drive	-	MSD***	MSD***	MSD***
Type of heat recovery system HRS	-	None	None	None
Thermal efficiency of heat recovery at reference air flow	%	NA	NA	NA
Maximum flow rate [m ³ /s]	m ³ /s	0,1722	0,1972	0,275
Electric power input of the fan drive, including any motor control equipment, at maximum flow rate	W	96	98,4	139
Sound power level LWA	LWA [dB(A)]	71	70	75
Reference flow rate	m ³ /s	0,1206	0,1381	0,1925
Reference pressure difference	Pa	50	60	50
SPI	W/(m ³ /h)	0,13272	0,12555	0,11717
Control factor CTRL	%	1	1	1
Control typology	-	manual	manual	manual
Maximum internal leakage rates	-	NA	NA	NA
Maximum external leakage rates	%	-	-	-
Mixing rate	-	NA	NA	NA
Airflow sensitivity to pressure variations at + 20Pa and - 20 Pa	m ³ /h	NA	NA	NA
Indoor/outdoor air tightness	-	NA	NA	NA
Annual electricity consumption (AEC)	kWh electricity/a	1,663	1,573	1,468
AHS average Annual heating saved	kWh primary energy/a	17,151	17,151	17,151
AHS cold Annual heating saved		27,322	27,322	27,322
AHS warm Annual heating saved		6,315	6,315	6,315
Position and description of visual filter warning	-	-	-	-

* RVU-U: Unit Ventilation Residential - Unidirectional
 ** NRVU-U: Unit Ventilation Non Residential - Unidirectional
 *** MSD: Multi-Speed Drive

DIMENSIONS

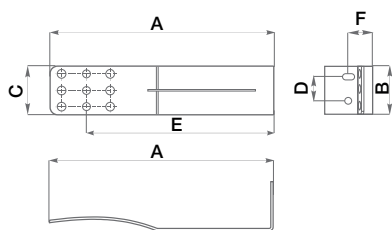


Models	A	B	Ø C	Ø D	E	F
CA 100 V0 D EP	250	250	250	97	30	30
CA 125 V0 D EP				122		
CA 150 V0 D EP	300	305	300	147/157		
CA 200 V0 Q EP	340	280	340	197		
CA 200 V0 EP				40		
CA 250 V0 EP				60		
CA 315 V0 EP	400	340	400	312	75	40

Dimensions (mm)

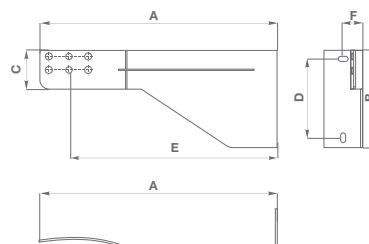
DIMENSIONS

Galvanised sheet-metal brackets (for model Ø 100-125-150)



Models	A	B	C	D	E	F
Brackets	186	40	40	20	156	10

Galvanised sheet-metal brackets (for model Ø 200-250-315)



Models	A	B	C	D	E	F
Brackets	245	100	40	80	215	10

PRODUCT ACCESSORIES

	Description	Code	Product
	C HCS Environmental sensor for humidity	12994	All products
	C PIR Passive infrared sensor	12998	
	C SMOKE Environmental sensor for air quality	12993	
	C TEMP Environmental sensor for temperature	12992	
	C TIMER Adjustable over-run timer	12999	
	CA-G 100 Protection grille nominal diameter 100 mm	22750	16216
	CA-G 125 Protection grille nominal diameter 125 mm	22755	16217
	CA-G 150 Protection grille nominal diameter 150 mm	22760	16218
	CA-G 200 Protection grille nominal diameter 200 mm	22765	16219 - 16220
	CA-G 250 Protection grille nominal diameter 250 mm	22770	16221
	CA-G 315 Protection grille nominal diameter 315 mm	22775	16222
	CA-MU Galvanized sheet-metal brackets	22674	All products

Description and size on page 52; System components on page 54

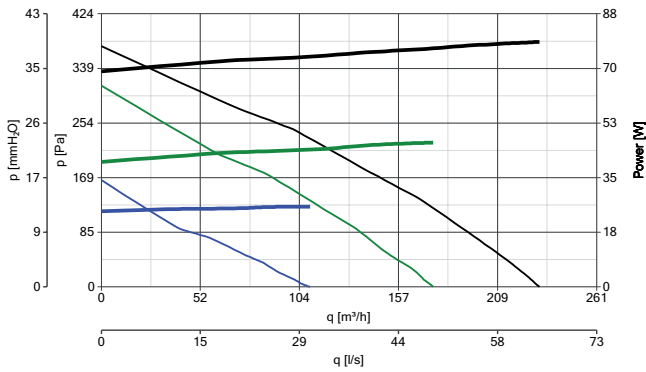


CA V0 EP RANGE

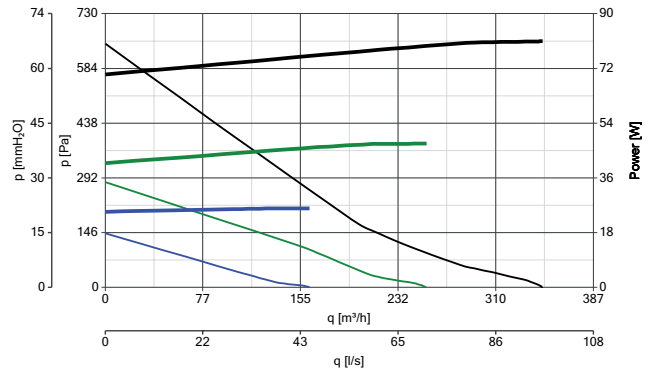
In-line centrifugal fans in self-extinguishing plastic

PERFORMANCE CURVES

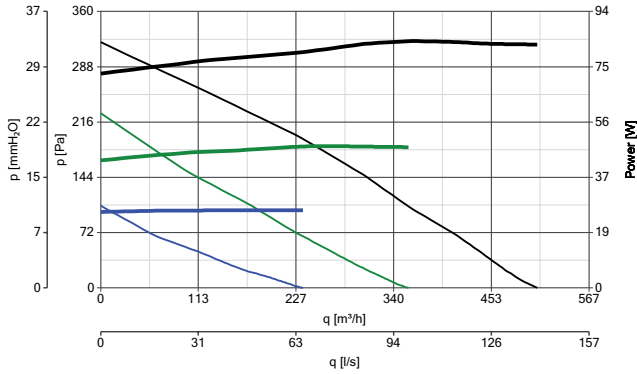
CA 100 V0 D EP Cod. 16216



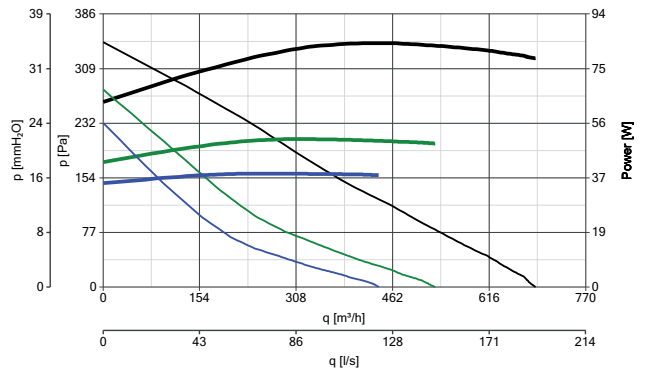
CA 125 V0 D EP Cod. 16217



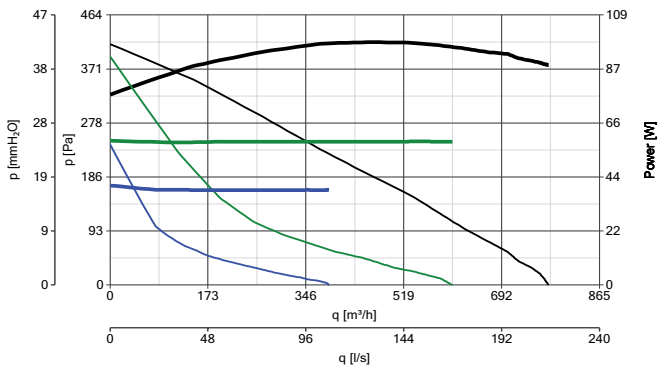
CA 150 V0 D EP Cod.. 16218



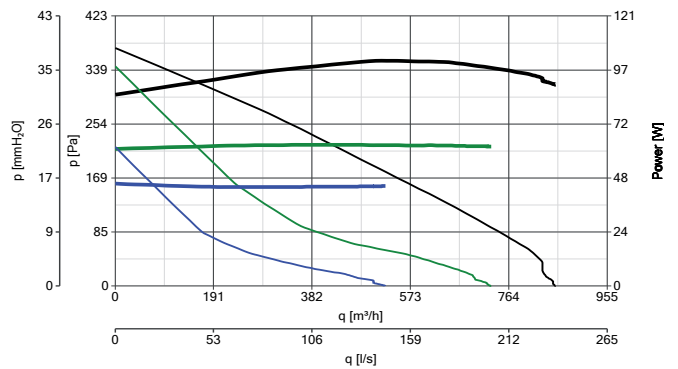
CA 200 V0 Q EP Cod. 16219



CA 200 V0 EP Cod. 16220

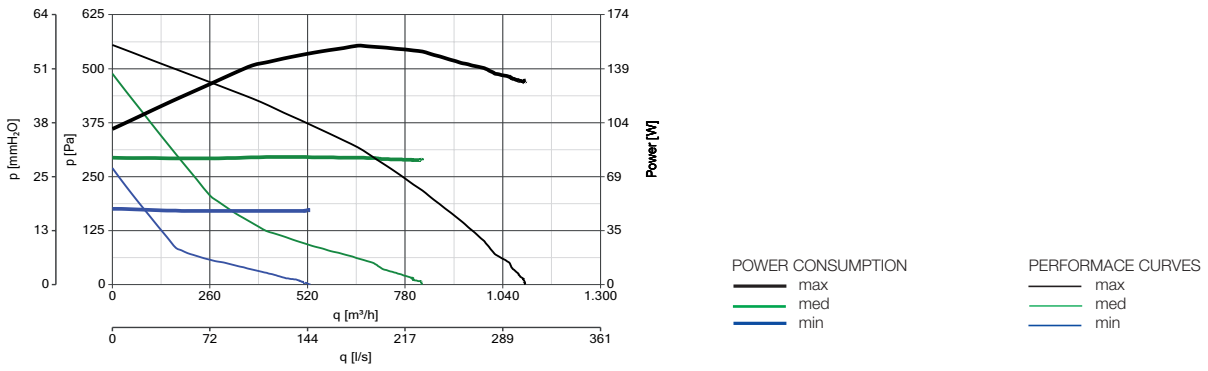


CA 250 V0 D EP Cod. 16221



PERFORMANCE CURVES

CA 315 V0 D EP Cod. 16222





CA MD and CA MD E RANGE

In-line centrifugal fans in metal

PRODUCT SPECIFICATIONS

Suitable for residential, commercial and industrial applications: kitchens, bathrooms, offices, laboratories, factories, shops, laundromats, restaurants, bars, theatres, ballrooms, etc.

- **13 models:** from 100 diameter to 315.
- Stripped and phosphated steel structure, painted with polyester powder which is particularly resistant to the aggressive action of atmospheric agents.
- Two speeds.
- Backward curved centrifugal impellers.
- High efficient ball bearing motors.
- Low noise emissions.
- Low specific consumption.
- Direction flaps optimised to reduce turbulence inside the appliance.
- Wide range of continuous operation temperatures between -25°C and +50°C.
- Mounting brackets made of galvanized steel included.
- Protection rating: IP44.
- Insulation class: II □ .



LONG LIFE 30.000 h



TECHNICAL DATA

Models	Code	W min/max	A min/max	RPM min/max	Max Airflow		Max Pressure		Lp dB(A)* min/max	Max °C	Kg
					m³/h min/max	l/s min/max	mmH₂O min/max	Pa min/max			
CA 100 MD	16150	60 - 85	0.30 - 0.40	1730 - 2450	220 - 340	61 - 94	30 - 39	294 - 383	32.2 - 43.2 (*)	50	2.97
CA 125 MD	16151	60 - 85	0.30 - 0.40	1580 - 2380	280 - 450	78 - 125	27 - 37	265 - 363	30.8 - 45.9 (*)		3.0
CA 150 Q MD	16152	60 - 85	0.30 - 0.40	1430 - 2350	300 - 500	83 - 139	21 - 35	206 - 343	34.7 - 48.1 (*)		2.98
CA 150 MD	16153	110 - 155	0.50 - 0.70	1815 - 2080	570 - 770	188 - 214	44 - 54	432 - 530	40.7 - 48.0		5.52
CA 160 MD	16154	110 - 155	0.55 - 0.70	1654 - 2080	640 - 840	178 - 228	41 - 50	402 - 491	40.7 - 47.4		5.47
CA 200 MD	16155	110 - 155	0.55 - 0.70	1700 - 2100	820 - 1050	228 - 292	37 - 48	363 - 471	43.8 - 49.6		5.43
CA 250 MD	16156	115 - 200	0.55 - 0.90	1800 - 2420	950 - 1300	264 - 361	42 - 56	412 - 549	46.7 - 55.9		6.55
CA 315 MD	16157	190 - 280	0.85 - 1.25	1940 - 2500	1350 - 1800	375 - 500	52 - 72	510 - 706	52.4 - 57.7	9.47	

Available only for the Extra EU market**

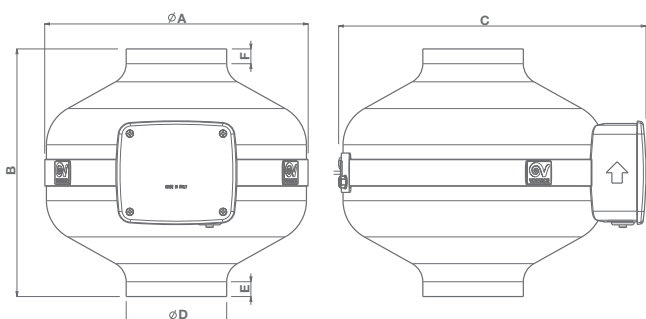
CA 150 MD E	16163	45 - 85	0.37 - 0.38	1775 - 2670	340 - 550	94 - 153	40 - 45	392 - 441	42.4 - 53.2 (**)	50	6.1
CA 160 MD E	16164	45 - 85	0.37 - 0.38	1860 - 2665	370 - 570	103 - 158	37 - 45	363 - 441	43.4 - 53.4 (**)		6.3
CA 200 MD E	16165	45 - 90	0.37 - 0.40	1610 - 2610	500 - 830	139 - 231	42 - 46	412 - 451	36.2 - 48.1 (**)		6.0
CA 250 MD E	16166	58 - 120	0.51 - 0.53	1615 - 2660	600 - 1000	167 - 278	42 - 53	412 - 520	38.3 - 52.7 (**)		7.6
CA 315 MD E	16167	58 - 120	0.51 - 0.53	1560 - 2660	620 - 1080	172 - 300	43 - 58	422 - 569	41.8 - 52.3 (**)		11.0

* Sound pressure level measured at 3 m in free field conditions with long-cased appliance in delivery mode in accordance with standard EN ISO 3741.
 ** Sound pressure level measured at 3 m in free field conditions with long-cased appliance in delivery mode in accordance with standard EN ISO 9614.

Electrical supply: 230 V - 50 Hz.



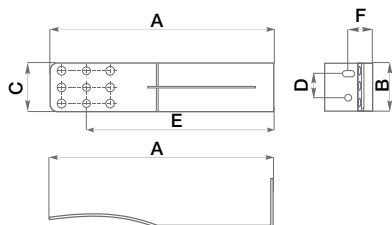
DIMENSIONS



Models	Ø A	B	C	Ø D	E	F
CA 100 MD	255	239	300	97	15	15
CA 125 MD				122	23	23
CA 150 Q MD				147	30	30
CA 150 MD	347	275	392	147	17	17
CA 160 MD				157	18	18
CA 200 MD				197	20	17
CA 250 MD	406	306	455	247	38	35
CA 315 MD				312	36	30
CA 150 MD E				147	17	17
CA 160 MD E	347	275	392	157	18	18
CA 200 MD E				197	20	17
CA 250 MD E				247	38	35
CA 315 MD E	406	294	455	312	21	30

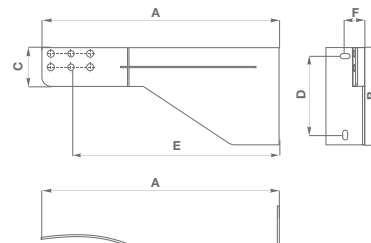
Dimensions (mm)

Galvanised sheet-metal brackets (for model Ø 100-125-150)



Models	A	B	C	D	E	F
Brackets	186	40	40	20	156	10

Galvanised sheet-metal brackets (for model Ø 200-250-315)



Models	A	B	C	D	E	F
Brackets	245	100	40	80	215	10

SOUND LEVELS











Models	Code	Speed	125 Hz	250 Hz	500 Hz	1K Hz	2K Hz	4K Hz	8K Hz
CA 100 MD	16150	min	49.4	42	51.7	49.3	46.4	42.8	38.7
		max	58.2	53.3	60.7	59.8	56.5	54.1	46.3
CA 125 MD	16151	min	45	51.7	51	45.9	42.1	35.1	n.a.
		max	55.4	63.4	64.5	61.6	58.7	55.2	48.4
CA 150 Q MD	16152	min	45.2	57.6	53.7	48.9	48.9	39.7	26.3
		max	55.9	68.4	66.1	62.6	62.6	56.9	48.9
CA 150 MD	16153	min	56	65.4	59.7	53.3	50	42.6	32.8
		max	62.2	71.1	67.3	61.6	59.2	51.9	44.6
CA 160 MD	16154	min	58.6	64.9	59.8	53	53	41.5	32.2
		max	62.1	70.4	66.5	60.9	60.9	50.4	43.1
CA 200 MD	16155	min	58	68.3	61.5	55.4	54.2	45.7	38
		max	61.5	70.3	69.7	63.2	60.8	54.5	47.4
CA 250 MD	16156	min	60.2	69.6	65.1	60.9	58.5	51.5	44.7
		max	68.8	71.2	77.9	69.4	65.8	60.9	55.6
CA 315 MD	16157	min	70.8	71.8	74	64.7	62.8	60.5	57.7
		max	74.3	72.4	77.6	71.6	70.3	67.1	66

Frequency bands in octaves and sound output. The measurements of the sound power have been carried out according to international standards EN ISO-3741.

CA MD and CA MD E RANGE

In-line centrifugal fans in metal

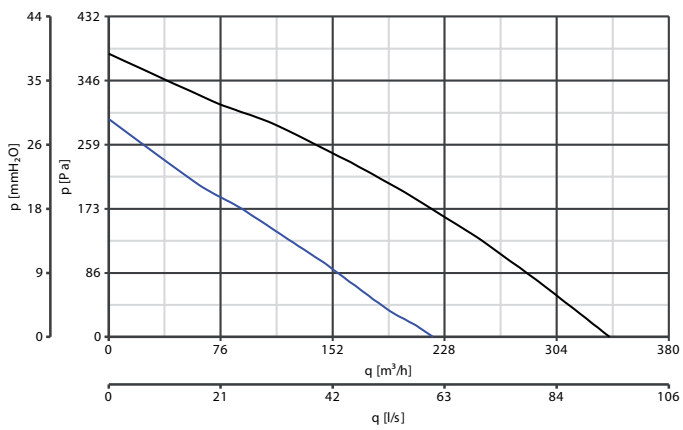
PRODUCT ACCESSORIES

	Description	Code	Product
	C HCS Environmental sensor for humidity	12994	All products
	C PIR Passive infrared sensor	12998	
	C SMOKE Environmental sensor for air quality	12993	
	C TEMP Environmental sensor for temperature	12992	
	C TIMER Adjustable over-run timer	12999	
	DUO Speed controller	22914	16150 - 16151 - 16152 - 16153
	C 1.5 Electronic speed controller 1.5 A	12966	All products
	C 2.5 Electronic speed controller 2.5 A	12967	
	SCNRB Non-reversible built-in electronic speed controller	12971	
	KIT SCB Built-in controller adaptors for C 1.5 and C 2.5	22481	12966 - 12967
	CA-G 100 Protection grille nominal diameter 100 mm	22750	16150
	CA-G 125 Protection grille nominal diameter 125 mm	22755	16151
	CA-G 150 Protection grille nominal diameter 150 mm	22760	16152 - 16153
	CA-G 160 Protection grille nominal diameter 160 mm	22762	16154
	CA-G 200 Protection grille nominal diameter 200 mm	22765	16155
	CA-G 250 Protection grille nominal diameter 250 mm	22770	16156
	CA-G 315 Protection grille nominal diameter 315 mm	22775	16157 - 16167
	CA-MU Galvanized sheet-metal brackets	22674	All products

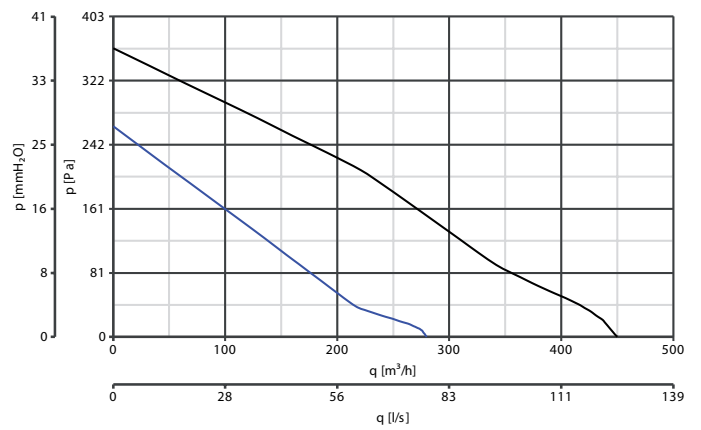
Description and size on page 52; System components on page 54

PERFORMANCE CURVES

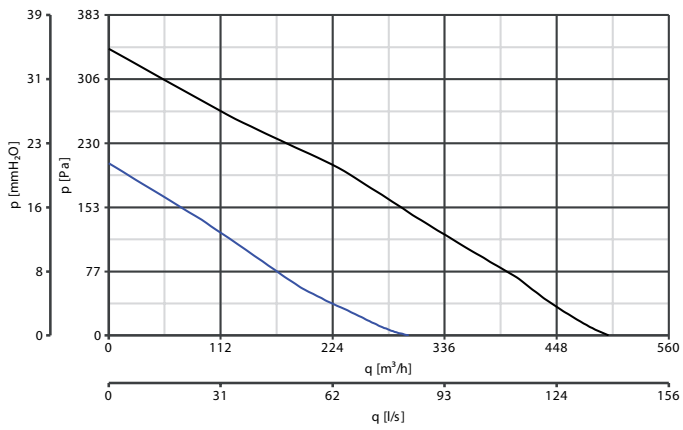
CA 100 MD Cod. 16150



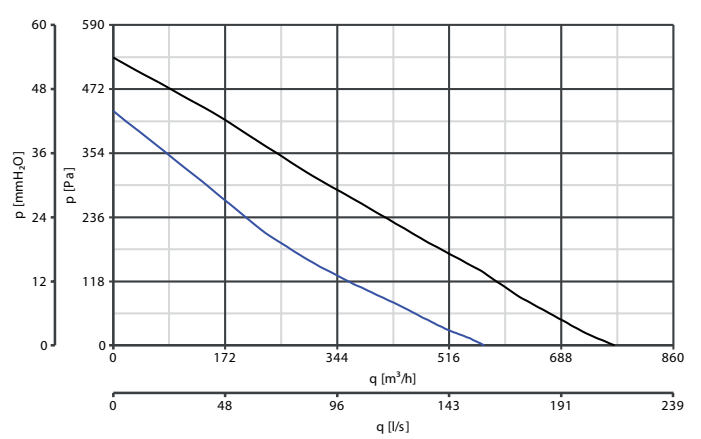
CA 125 MD Cod. 16151



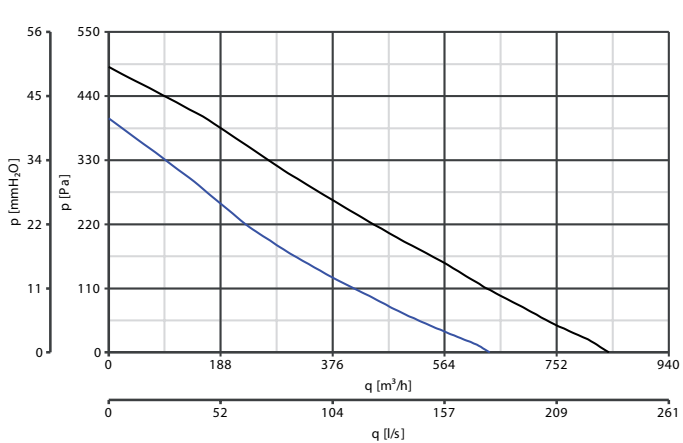
CA 150 Q MD Cod. 16152



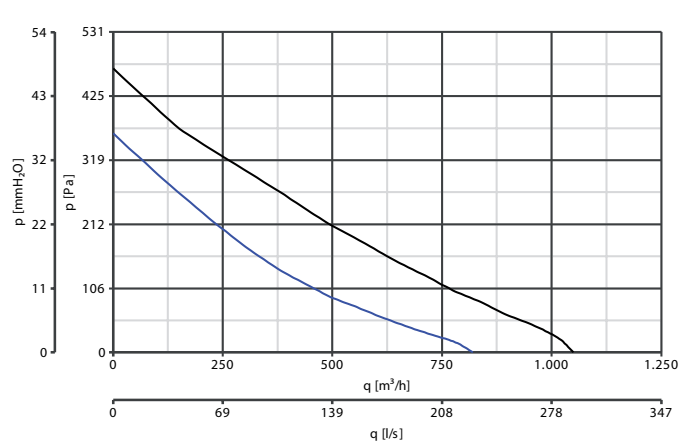
CA 150 MD Cod. 16153



CA 160 MD Cod. 16154



CA 200 MD Cod. 16155

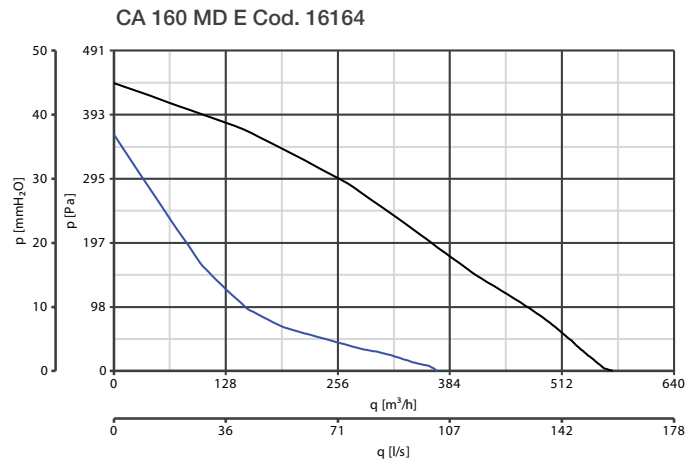
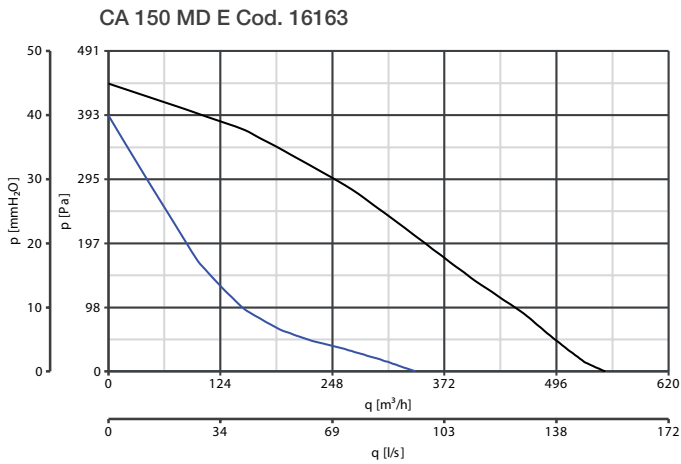
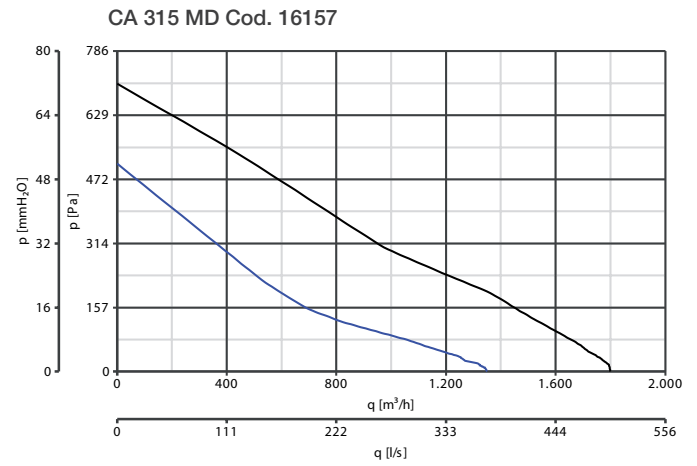
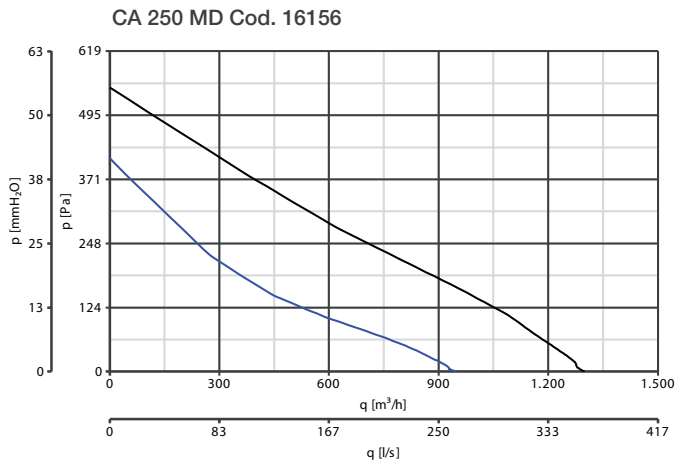




CA MD and CA MD E RANGE

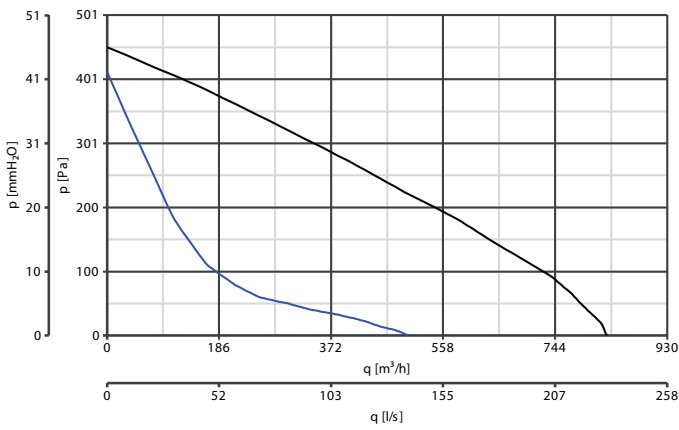
In-line centrifugal fans in metal

PERFORMANCE CURVES

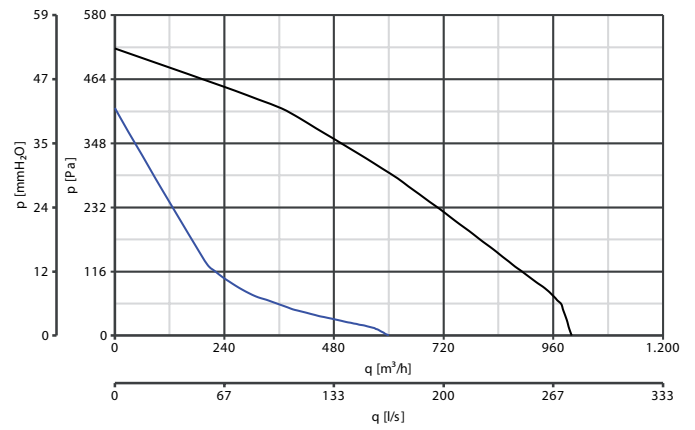


PERFORMANCE CURVES

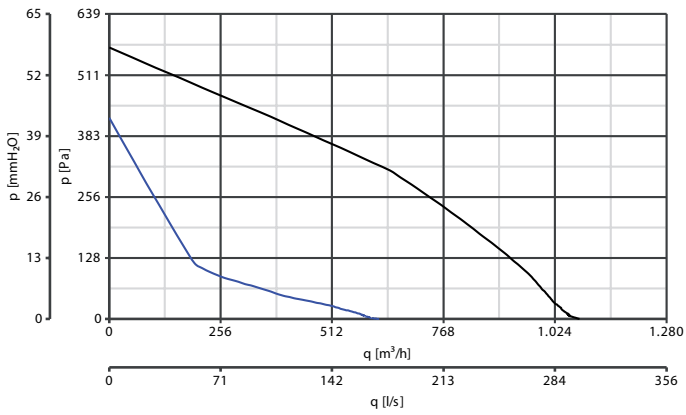
CA 200 MD E Cod. 16165



CA 250 MD E Cod. 16166



CA 315 MD E Cod. 16167



— min. — max.



NEW

CA MD EP RANGE

In-line centrifugal fans in metal

PRODUCT SPECIFICATIONS

Suitable for residential, commercial and industrial applications: kitchens, bathrooms, offices, laboratories, factories, shops, laundromats, restaurants, bars, theatres, ballrooms, etc.

- **8 models:** from 100 diameter to 315.
- Stripped and phosphated steel structure, painted with polyester powder which is particularly resistant to the aggressive action of atmospheric agents.
- Two speeds.
- Backward curved centrifugal impellers.
- High efficient ball bearing motors.
- Low noise emissions.
- Low specific consumption.
- Direction flaps optimised to reduce turbulence inside the appliance.
- Wide range of continuous operation temperatures between -25°C and +50°C.
- Mounting brackets made of galvanized steel included.
- Protection rating: IP44.
- Insulation class: II □.



LONG LIFE 30.000 h



TECHNICAL DATA

Models	Code	W min/max	A min/max	RPM min/max	Max Airflow		Max Pressure		Lp dB(A)* min/max	Max °C	Kg
					m³/h min/max	l/s min/max	mmH₂O min/max	Pa min/max			
CA 100 MD EP	16208	26 - 85	0.22 - 0.40	1190 - 2370	163 - 337	45.0 - 93.0	19.9 - 38.9	195.9 - 381.6	32.2 - 43.2 (*)	50	2.97
CA 125 MD EP	16209			1130 - 2300	210 - 445	58.0 - 123.6	17.6 - 36.8	172.6 - 361.4	30.8 - 45.9 (*)		3.0
CA 150 Q MD EP	16210			1160 - 2340	230 - 470	63.8 - 130.5	12.3 - 33.3	121.1 - 327.0	34.7 - 48.1 (*)		2.98
CA 150 MD EP	16211	39 - 85	0.34 - 0.38	1580 - 2650	313 - 535	86.9 - 148.6	32.2 - 44.3	316.0 - 435.1	42.4 - 53.2 (**)		4.9
CA 160 MD EP	16212			1130 - 2665	325 - 555	90.2 - 154.1	32.7 - 44.0	321.5 - 431.8	43.4 - 53.4 (**)		
CA 200 MD EP	16213	39 - 98	0.35 - 0.43	1440 - 2630	412 - 775	114.0 - 215.0	36.0 - 45.0	353.0 - 441.0	36.2 - 48.1 (**)		4.8
CA 250 MD EP	16214	50 - 120	0.47 - 0.53	1410 - 2635	540 - 1010	150.0 - 280.5	33.7 - 54.8	330.8 - 537.6	38.3 - 52.7 (**)		5.3
CA 315 MD EP	16215			1510 - 2630	570 - 1015	158.3 - 281.9	36.0 - 22.5	353.2 - 544.9	41.8 - 52.3 (**)		

* Sound pressure level measured at 3 m in free field conditions with long-cased appliance in delivery mode in accordance with standard EN ISO 3741.
 ** Sound pressure level measured at 3 m in free field conditions with long-cased appliance in delivery mode in accordance with standard EN ISO 9614.

Electrical supply: 230 V - 50 Hz.


 Remote Control Unit
included


CA MD EP RANGE | TECHNICAL DATA FOR REGULATION N° 1254/2014/UE

	Models Code	CA 100 MD EP	CA 125 MD EP	CA 150 Q MD EP	CA 150 MD EP
		16208	16209	16210	16211
Supplier's name or trade mark	-	Vortice	Vortice	Vortice	Vortice
Specific Energy Consumption class SEC in average climate zone	-	F	E	E	E
Specific Energy Consumption class SEC average	kWh/m ² a	-9,5	-10,6	-11,2	-11,9
Specific Energy Consumption class SEC cold		-18,9	-20,1	-20,7	-21,5
Specific Energy Consumption class SEC warm		2,1	0,9	0,3	-0,5
Declared typology	-	RVU-U*	RVU-U*	RVU-U*	RVU-U*
Type of drive	-	MSD***	MSD***	MSD***	MSD***
Type of heat recovery system HRS	-	None	None	None	None
Thermal efficiency of heat recovery at reference air flow	%	NA	NA	NA	NA
Maximum flow rate [m ³ /s]	m ³ /s	0,075	0,0894	0,0972	0,1222
Electric power input of the fan drive, including any motor control equipment, at maximum flow rate	W	80,5	80	82	90
Sound power level LWA	LWA [dB(A)]	64	66	69	74
Reference flow rate	m ³ /s	0,0525	0,0626	0,0681	0,0856
Reference pressure difference	Pa	75	70	70	60
SPI	W/(m ³ /h)	0,24497	0,20852	0,19102	0,16883
Control factor CTRL	%	1	1	1	1
Control typology	-	manual	manual	manual	manual
Maximum internal leakage rates	-	NA	NA	NA	NA
Maximum external leakage rates	%	-	-	-	-
Mixing rate	-	NA	NA	NA	NA
Airflow sensitivity to pressure variations at + 20Pa and - 20 Pa	m ³ /h	NA	NA	NA	NA
Indoor/outdoor air tightness	-	NA	NA	NA	NA
Annual electricity consumption (AEC)	kWh electricity/a	3,069	2,612	2,393	2,115
AHS average Annual heating saved	kWh primary energy/a	17,151	17,151	17,151	17,151
AHS cold Annual heating saved		27,322	27,322	27,322	27,322
AHS warm Annual heating saved		6,315	6,315	6,315	6,315
Position and description of visual filter warning	-	-	-	-	-

* RVU-U: Unit Ventilation Residential - Unidirectional

** NRVU-U: Unit Ventilation Non Residential - Unidirectional

*** MSD: Multi-Speed Drive

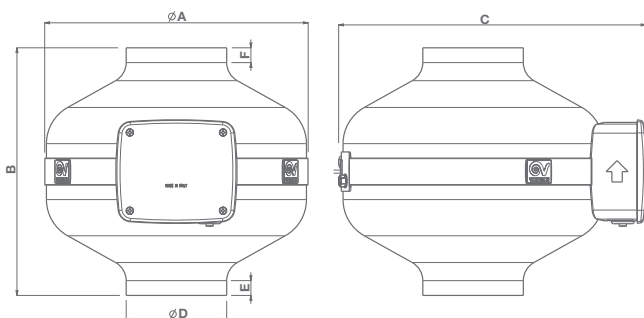
CA MD EP RANGE

In-line centrifugal fans in metal

CA MD EP RANGE | TECHNICAL DATA FOR REGULATION N° 1254/2014/UE

Models		CA 160 MD EP	CA 200 MD EP	CA 250 MD EP	CA 315 MD EP
Code		16212	16213	16214	16215
Supplier's name or trade mark	-	Vortice	Vortice	Vortice	Vortice
Specific Energy Consumption class SEC in average climate zone	-	E	E	E	E
Specific Energy Consumption class SEC average	kWh/m²a	-11,6	-13,3	-13	-13,1
Specific Energy Consumption class SEC cold		-21,2	-23,1	-22,7	-22,9
Specific Energy Consumption class SEC warm		-0,2	-2,1	-1,7	-1,9
Declared typology	-	RVU-U*	RVU-U*	RVU-U*	RVU-U*
Type of drive	-	MSD***	MSD***	MSD***	MSD***
Type of heat recovery system HRS	-	None	None	None	None
Thermal efficiency of heat recovery at reference air flow	%	NA	NA	NA	NA
Maximum flow rate [m³/s]	m³/s	0,1292	0,1847	0,2472	0,2583
Electric power input of the fan drive, including any motor control equipment, at maximum flow rate	W	89	94	136	131
Sound power level LWA	LWA [dB(A)]	74	69	73	73
Reference flow rate	m³/s	0,0904	0,1293	0,1731	0,1808
Reference pressure difference	Pa	80	62	65	85
SPI	W/(m³/h)	0,17819	0,12374	0,13355	0,1278
Control factor CTRL	%	1	1	1	1
Control typology	-	manual	manual	manual	manual
Maximum internal leakage rates	-	NA	NA	NA	NA
Maximum external leakage rates	%	-	-	-	-
Mixing rate	-	NA	NA	NA	NA
Airflow sensitivity to pressure variations at + 20Pa and - 20 Pa	m³/h	NA	NA	NA	NA
Indoor/outdoor air tightness	-	NA	NA	NA	NA
Annual electricity consumption (AEC)	kWh electricity/a	2,232	1,55	1,673	1,601
AHS average Annual heating saved	kWh primary energy/a	17,151	17,151	17,151	17,151
AHS cold Annual heating saved		27,322	27,322	27,322	27,322
AHS warm Annual heating saved		6,315	6,315	6,315	6,315
Position and description of visual filter warning	-	-	-	-	-

* RVU-U: Unit Ventilation Residential - Unidirectional
 ** NRUVU-U: Unit Ventilation Non Residential - Unidirectional
 *** MSD: Multi-Speed Drive

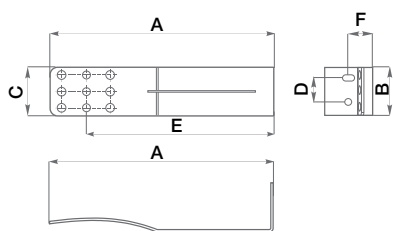
DIMENSIONS


Models	Ø A	B	C	Ø D	E	F
CA 100 MD EP	255	239	300	97	15	15
CA 125 MD				122	23	23
CA 150 Q MD EP				147	30	30
CA 150 MD EP	347	275	392	147	17	17
CA 160 MD EP				157	18	18
CA 200 MD EP				197	20	17
CA 250 MD EP				247	38	35
CA 315 MD EP	406	294	455	312	21	30

Dimensions (mm)

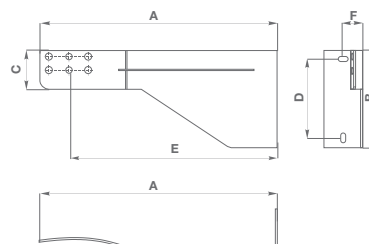
DIMENSIONS

Galvanised sheet-metal brackets (for model Ø 100-125-150)



Models	A	B	C	D	E	F
Brackets	186	40	40	20	156	10

Galvanised sheet-metal brackets (for model Ø 200-250-315)



Models	A	B	C	D	E	F
Brackets	245	100	40	80	215	10

PRODUCT ACCESSORIES

	Description	Code	Product
	C HCS Environmental sensor for humidity	12994	All products
	C PIR Passive infrared sensor	12998	
	C SMOKE Environmental sensor for air quality	12993	
	C TEMP Environmental sensor for temperature	12992	
	C TIMER Adjustable over-run timer	12999	
	CA-G 100 Protection grille nominal diameter 100 mm	22750	16208
	CA-G 125 Protection grille nominal diameter 125 mm	22755	16209
	CA-G 150 Protection grille nominal diameter 150 mm	22760	16210 - 16211
	CA-G 150 Protection grille nominal diameter 160 mm	22762	16212
	CA-G 200 Protection grille nominal diameter 200 mm	22765	16213
	CA-G 250 Protection grille nominal diameter 250 mm	22770	16214
	CA-G 315 Protection grille nominal diameter 315 mm	22775	16215
	CA-MU Galvanized sheet-metal brackets	22674	All products

Description and size on page 52; System components on page 54

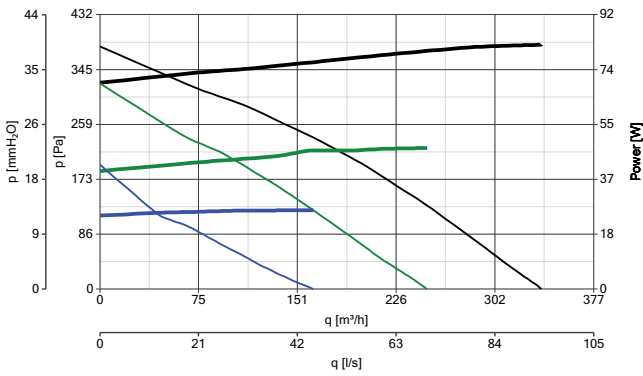


CA MD EP RANGE

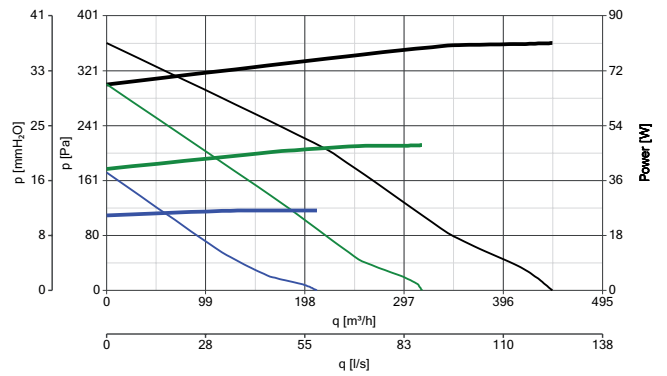
In-line centrifugal fans in metal

PERFORMANCE CURVES

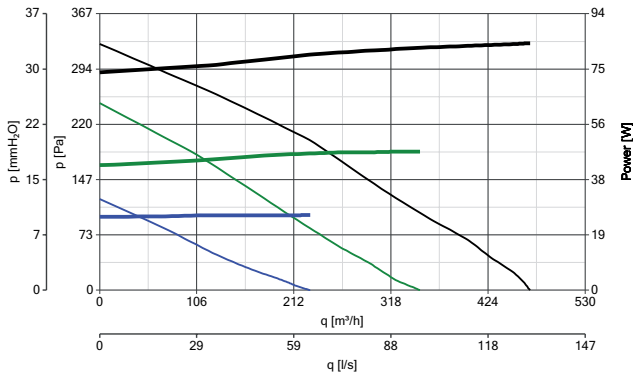
CA 100 MD EP Cod. 16208



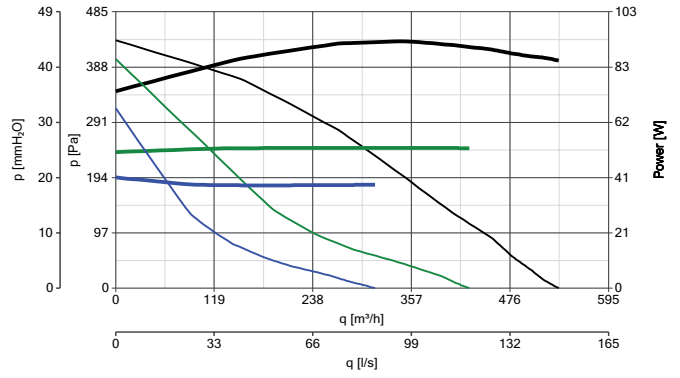
CA 125 MD EP Cod. 16209



CA 150 Q MD EP Cod. 16210

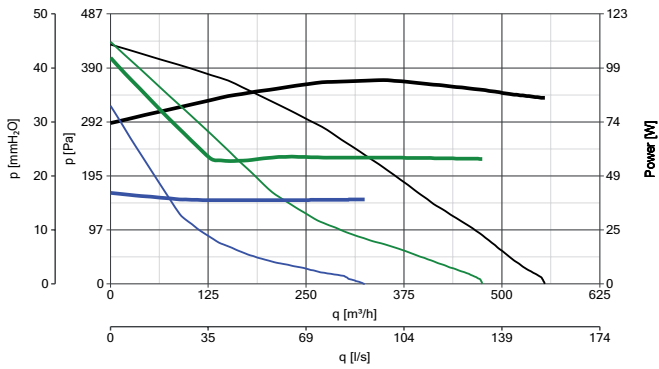


CA 150 MD EP Cod. 16211

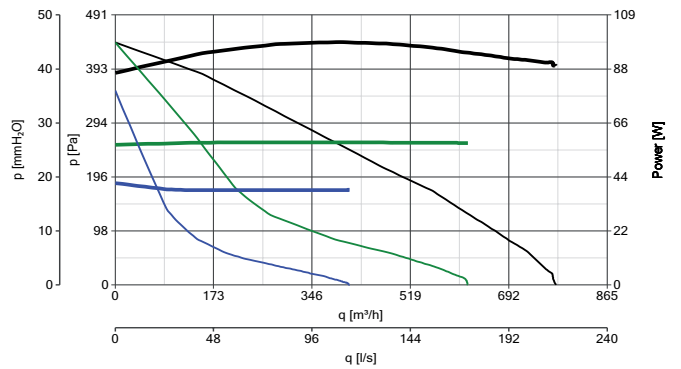


PERFORMANCE CURVES

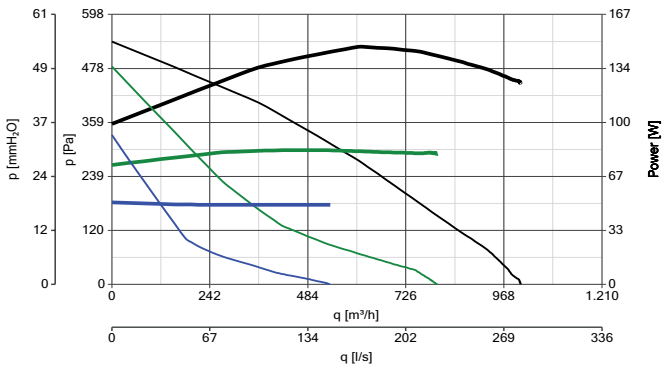
CA 160 MD EP Cod. 16212



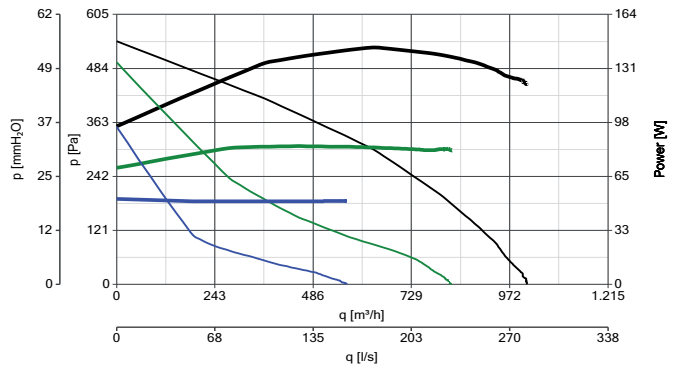
CA 200 MD EP Cod. 16213



CA 250 MD EP Cod. 16214



CA 315 MD EP Cod. 16216



POWER CONSUMPTION
 — max
 — med
 — min

PERFORMANCE CURVES
 — max
 — med
 — min



CA ES RANGE

“Energy Saving” in-line centrifugal fans in metal

PRODUCT SPECIFICATIONS



Suitable for residential, commercial and industrial applications: kitchens, bathrooms, offices, laboratories, factories, shops, laundromats, restaurants, bars, theatres, ballrooms, etc.

- **8 models:** CA 100 ES, CA 125 ES, CA 150 Q ES, CA 150 ES, CA 160 ES, CA 200 ES, CA 250 ES, CA 315 ES.
- Stripped and phosphated steel structure, painted with polyester powder which is particularly resistant to the aggressive action of atmospheric agents.
- Two speeds, one speed for models CA 250 ES and CA 315 ES.
- Backward curved centrifugal impellers.
- High efficient ball bearing EC motors.
- Low noise emissions.
- Low specific consumption.
- Two levels of airflow, pressure, noise emissions and consumption (for all the models with a diameter until 200).
- Wide range of continuous operation temperatures between -25°C and +50°C.
- Mounting brackets made of galvanized steel included.
- Protection rating: IP44.
- Insulation class: II □.
- Insulation class: I. ⊕ (for models 250 ES and 315 Es).

TECHNICAL DATA

Models	Code	W		A		RPM		Max Airflow				Max Pressure				Lp dB(A)*		Max °C	Kg
		min	max	min	max	min	max	m³h		I/S		mmH₂O		Pa		min	max		
CA 100 ES	16170	11	29	0.12	0.29	1310	2020	170	270	47	75	16	37	157	363	24.9	36.8	50	2.7
		19	55	0.20	0.53	1690	2530	220	340	61	94	27	49	265	480	35.4	43.4		
		35	80	0.35	0.75	2140	2880	280	380	78	105	43	51	422	500	38.5	46.9		
CA 125 ES	16171	11	29	0.12	0.29	1180	1820	220	350	61	97	14	34	137	333	25.3	38.4	50	2.6
		19	55	0.20	0.53	1520	2310	280	440	78	122	23	47	225	461	33.2	45.9		
		35	80	0.35	0.75	1930	2620	370	500	103	139	38	49	373	480	40.3	49.7		
CA 150 Q ES	16172	11	29	0.12	0.29	1170	1810	240	380	67	105	11	26	108	255	27.5	40.0	50	2.6
		19	55	0.20	0.53	1515	2300	310	490	86	136	18	42	176	412	34.7	46.6		
		35	80	0.35	0.75	1925	2590	410	560	114	155	30	45	294	441	41.5	49.6		
CA 150 ES	16173	20	30	0.21	0.30	1230	1420	420	480	117	133	17	22	167	216	30.3	34.3	50	4.5
		44	105	0.43	0.93	1620	2170	550	750	153	208	29	51	284	500	38.0	47.3		
		58	120	0.55	1.05	1800	2260	630	820	175	228	36	56	353	549	41.4	48.1		
CA 160 ES	16174	20	30	0.21	0.30	1230	1410	470	540	130	150	17	22	167	216	34.3	35.1	50	4.6
		44	105	0.43	0.93	1620	2160	630	840	175	233	29	51	284	500	39.2	47.1		
		58	120	0.55	1.05	1780	2230	700	890	194	247	36	56	353	549	41.7	48.1		
CA 200 ES	16175	20	30	0.21	0.30	1210	1385	580	675	161	187	15	20	147	196	32.1	34.8	50	4.6
		44	105	0.43	0.93	1600	2140	770	1050	214	292	26	47	255	461	38.0	46.7		
		58	120	0.55	1.05	1760	2240	880	1120	244	311	31	50	304	490	40.8	47.6		
CA 250 ES	16176	140		1.20		3050		1150		319		73		716		57.3			4.9
CA 315 ES	16177	148		1.27		1935		1800		500		51		500		50.7			6.9

* Sound pressure level measured at 3 m in free field conditions with long-cased appliance in delivery mode in accordance with standard EN ISO 9614.

Electrical supply: 230 V – 50 Hz.

CA ES
RANGE



CA ES
RANGE



CA ES RANGE | TECHNICAL DATA FOR REGULATION N° 1254/2014/UE

	Models Code	CA 100 ES 16170	CA 125 ES 16171	CA 150 Q ES 16172	CA 150 ES 16173	CA 160 ES 16174
Supplier's name or trade mark	-	Vortice	Vortice	Vortice	Vortice	Vortice
Specific Energy Consumption class SEC in average climate zone	-	F	F	E	E	E
Specific Energy Consumption class SEC average	kWh/m²a	-5,8	-9,3	-10,3	-10,9	-11,6
Specific Energy Consumption class SEC cold		-21,1	-23	-23,6	-23,9	-24,2
Specific Energy Consumption class SEC warm		-0,11	-2,0	-2,6	-2,9	-3,2
Declared typology	-	RVU-U*	RVU-U*	RVU-U*	RVU-U*	RVU-U*
Type of drive	-	VSD***	VSD***	VSD***	VSD***	VSD***
Type of heat recovery system HRS	-	None	None	None	None	None
Thermal efficiency of heat recovery at reference air flow	%	NA	NA	NA	NA	NA
Maximum flow rate	m³/s	0,075	0,1083	0,1244	0,1806	0,1944
Electric power input of the fan drive, including any motor control equipment, at maximum flow rate	W	80,5	77,8	80	119	113,9
Sound power level LWA	LWA [dB(A)]	56	54	55	58	60
Reference flow rate	m³/s	0,0525	0,0758	0,0871	0,1264	0,1361
Reference pressure difference	Pa	70	70	60	60	60
SPI	W/(m³/h)	0,17989	0,12454	0,10842	0,989	0,08816
Control factor CTRL	%	1	1	1	1	1
Control typology	-	manual	manual	manual	manual	amb. centralized
Maximum internal leakage rates	-	NA	NA	NA	NA	NA
Maximum external leakage rates	%	-	-	-	-	-
Mixing rate	-	NA	NA	NA	NA	NA
Airflow sensitivity to pressure variations at + 20Pa and - 20 Pa	m³/h	NA	NA	NA	NA	NA
Indoor/outdoor air tightness	-	NA	NA	NA	NA	NA
Annual electricity consumption (AEC)	kWh electricity/a	4,507	3,12	2,716	2,478	2,209
AHS average Annual heating saved	kWh primary energy/a	17,151	17,151	17,151	17,151	17,151
AHS cold Annual heating saved		27,322	27,322	27,322	27,322	27,322
AHS warm Annual heating saved		6,315	6,315	6,315	6,315	6,315
Position and description of visual filter warning	-	-	-	-	-	-

* RVU-U: Unit Ventilation Residential - Unidirectional
 ** NRVU-U: Unit Ventilation Non Residential - Unidirectional
 *** VSD: Variable-Speed Drive



CA ES RANGE

“Energy Saving” in-line centrifugal fans in metal

CA ES RANGE | TECHNICAL DATA FOR REGULATION N° 1254/2014/UE

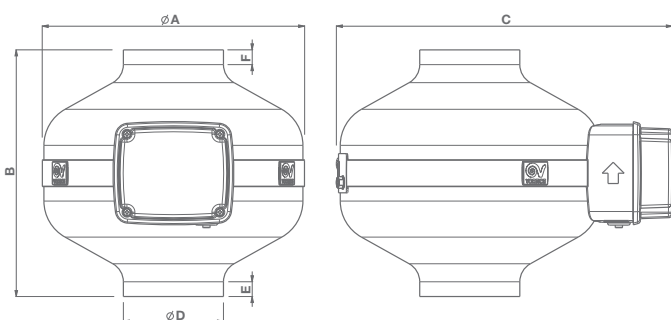
	Models Code	CA 200 ES 16175	CA 250 ES 16176	CA 315 ES 16177
Supplier's name or trade mark	-	Vortice	Vortice	Vortice
Declared typology	-	NRVU-U**	NRVU-U**	NRVU-U**
Type of drive		VSD***	VSD***	VSD***
Type of heat recovery system HRS	-	None	None	None
Thermal efficiency of heat recovery	-	NA	NA	NA
Nominal NRVU flow rate	m ³ /s	0,22639	0,31333	0,49528
Effective electric power input	kW	0,113	0,144	0,153
SFPint	W/(m ³ /h)	NA	NA	NA
Face velocity at design flow rate	m/s	7,20618	6,38318	6,35533
Nominal external pressure (?ps,int)	Pa	111	5	16
Internal pressure drop of ventilation components (?ps,int)	Pa	4	155	154
Internal pressure drop of non-ventilation components (?ps,int)	Pa	0	0	0
Static efficiency of fans used in accordance with Regulation (EU) N. 3272011	%	23,0	34,8	55,0
Declared maximum internal leakage rate of the casing of ventilation units	%	NA	NA	NA
Declared maximum external leakage rate of the casing of ventilation units	%			
Energy performance energy or classification of the filters	-	NA	NA	NA
Description of visual filter warning	%	NA	NA	NA
Casing sound power level (LWA)	dB(A)	NA	NA	NA

* RVU-U: Unit Ventilation Residential - Unidirectional

** NRVU-U: Unit Ventilation Non Residential - Unidirectional

*** VSD: Variable-Speed Drive

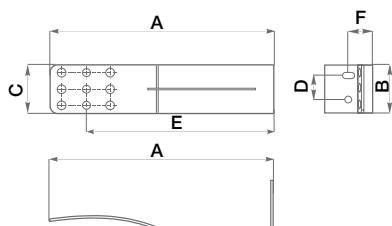
DIMENSIONS



Models	Ø A	B	C	Ø D	E	F
CA 100 ES	255	239	330	97	15	15
CA 125 ES				122	23	23
CA 150 Q ES				147	30	30
CA 150 ES	347	275	422	147	17	17
CA 160 ES				157	18	18
CA 200 ES				197	20	17
CA 250 ES				267	392	247
CA 315 ES	406	362	455	315	35	30

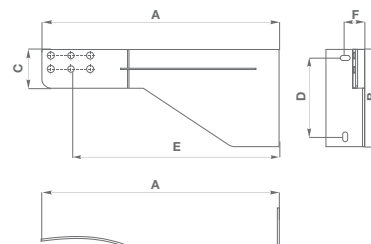
Dimensions (mm)

Galvanised sheet-metal brackets (for model Ø 100-125-150)

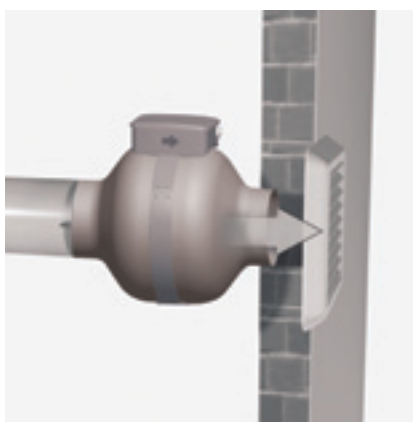
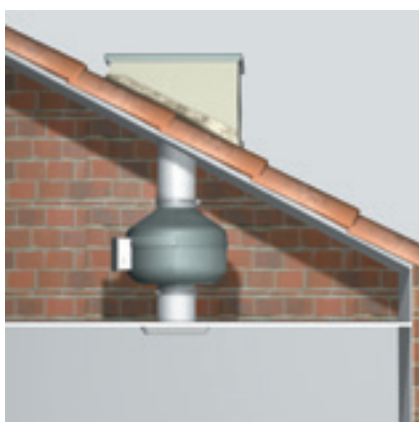


Models	A	B	C	D	E	F
Brackets	186	40	40	20	156	10

Galvanised sheet-metal brackets (for model Ø 200-250-315)









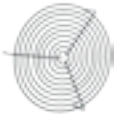

Models	A	B	C	D	E	F
Brackets	245	100	40	80	215	10



CA ES RANGE

“Energy Saving” in-line centrifugal fans in metal

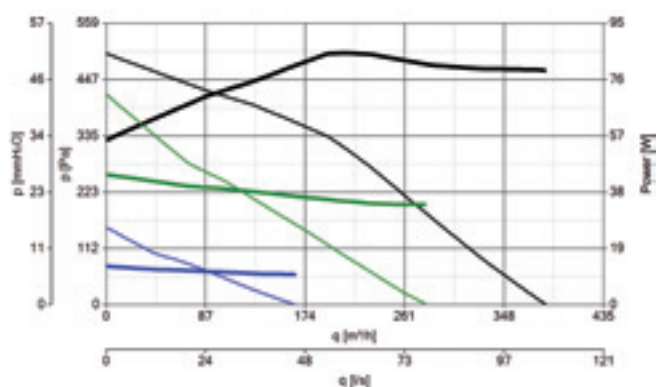
PRODUCT ACCESSORIES

	Description	Code	Product
	C HCS Environmental sensor for humidity	12994	All products
	C PIR Passive infrared sensor	12998	
	C SMOKE Environmental sensor for air quality	12993	
	C TEMP Environmental sensor for temperature	12992	
	C TIMER Adjustable over-run timer	12999	
	DUO Speed controller	22914	16150 - 16151 - 16152 - 16153
	CA-G 100 Protection grille nominal diameter 100 mm	22750	16170
	CA-G 125 Protection grille nominal diameter 125 mm	22755	16171
	CA-G 150 Protection grille nominal diameter 150 mm	22760	16172 - 16173
	CA-G 160 Protection grille nominal diameter 160 mm	22762	16174
	CA-G 200 Protection grille nominal diameter 200 mm	22765	16175
	CA-G 250 Protection grille nominal diameter 250 mm	22770	16176
	CA-G 315 Protection grille nominal diameter 315 mm	22775	16177
	CA-MU Galvanized sheet-metal brackets	22674	All products

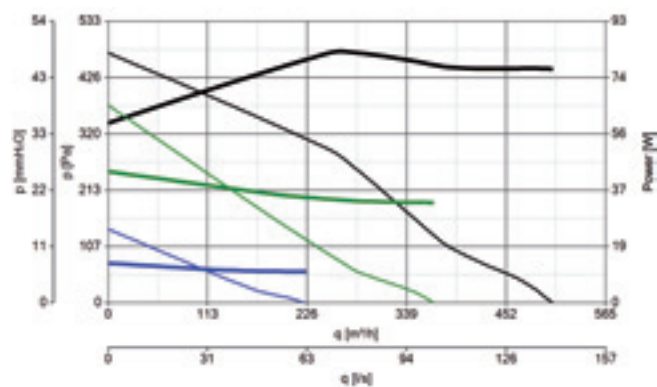
Description and size on page 52; System components on page 54

PERFORMANCE CURVES

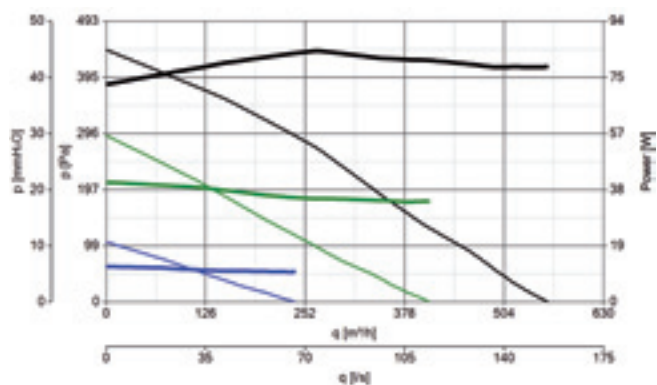
CA 100 ES Cod. 16170



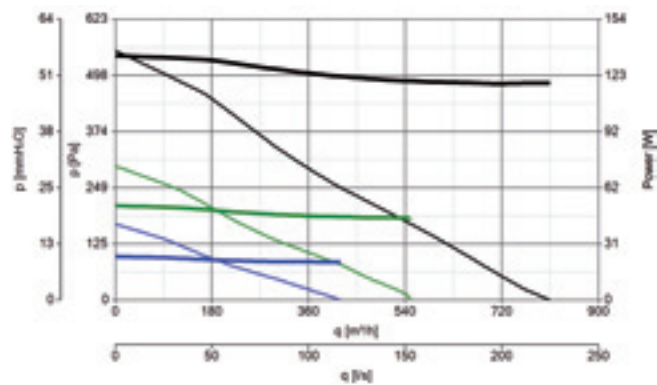
CA 125 ES Cod. 16171



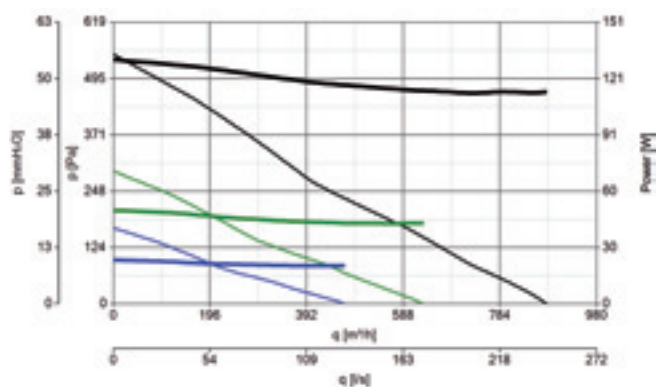
CA 150 Q ES Cod. 16172



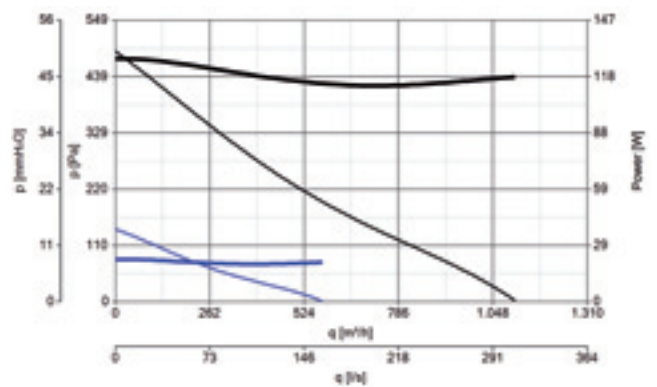
CA 150 ES Cod. 16173



CA 160 ES Cod. 16174



CA 200 ES Cod. 16175



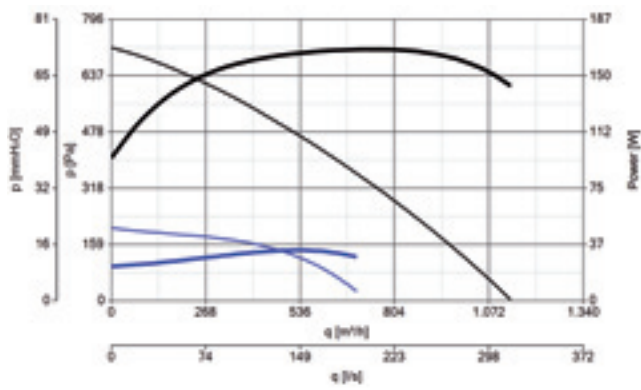


CA ES RANGE

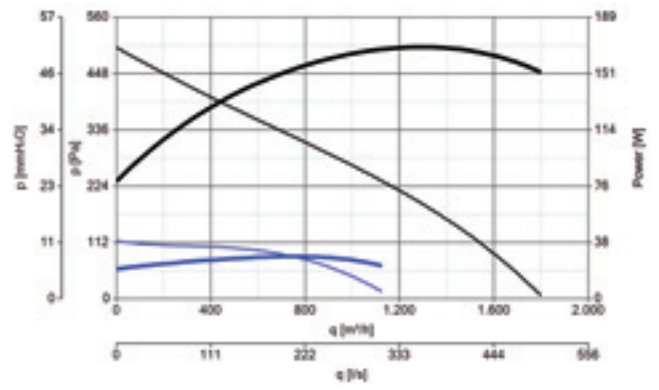
“Energy Saving” in-line centrifugal fans in metal

PERFORMANCE CURVES

CA 250 ES Cod. 16176



CA 315 ES Cod. 16177





CA WE D E RANGE

Centrifugal duct fans for external wall

PRODUCT SPECIFICATIONS

Designed for silent extraction from kitchens, bathrooms, utility rooms, cellars, garages, public spaces such as bars and shops, and workplaces such as workshops and laboratories.

- **6 models:** CA 100 WE D, CA 125 WE D, CA 150 Q WE D, CA 150 WE D E, CA 160 WE D E, CA 200 WE D E.
- P04 sheet steel structure painted with polyester paint which is resistant to atmospheric agents.
- Induction motor with external rotor, manual reset thermal protection device.
- Two speeds.
- Backward curved centrifugal impellers.
- High efficient ball bearing motors.
- Motor support flange in mineral charged PP.
- Low noise emissions.
- Low specific consumption.
- PVC made gravity shutters.
- Backdraught shutters.
- Automatic delivery outlet and protective grille closure avoids the risk of air re-entry and prevents foreign bodies from entering.
- Wide range of continuous operation temperatures between -25°C and +60°C.
- Protection rating IPX5.
- Insulation class: I ⊕ .



LONG LIFE 30.000 h



TECHNICAL DATA

Models	Code	W min/max	A min/max	RPM min/max	Max Airflow		Max Pressure		Lp dB(A)* min/max	Max °C	Kg
					m³/h min/max	l/s min/max	mmH ₂ O min/max	Pa min/max			
CA 100 WE D	16091	60 - 80	0.26 - 0.35	1600 - 2380	200 - 330	56 - 92	29 - 37	284 - 363	38.3 - 50.1 (*)	60	4.6
CA 125 WE D	16092	60 - 80	0.26 - 0.35	1400 - 2325	215 - 380	60 - 106	30 - 39	294 - 383	36.3 - 49.5 (*)	60	
CA 150 Q WE D	16093	60 - 80	0.26 - 0.35	1760 - 2350	220 - 400	61 - 111	25 - 36	245 - 353	37.1 - 49.5 (*)	60	
CA 150 WE D E	16087	45 - 100	0.39 - 0.44	1230 - 2520	275 - 620	76 - 172	33 - 43	324 - 422	23.1 - 42.9 (**)	55	6.7
CA 160 WE D E	16088	45 - 100	0.39 - 0.44	1230 - 2520	280 - 660	78 - 183	36 - 45	353 - 441	22 - 37.5 (**)	55	
CA 200 WE D E	16089	45 - 100	0.39 - 0.44	1310 - 2530	310 - 680	86 - 189	33 - 44	324 - 431	20.9 - 39.1 (**)	55	

* Sound pressure level measured at 3 m in free field conditions with long-cased appliance in delivery mode in accordance with standard EN ISO 3741.

** Sound pressure level measured at 3 m in free field conditions with long-cased appliance in delivery mode in accordance with standard EN ISO 9614.

Electrical supply: 230 V - 50 Hz for CA WE D E models.

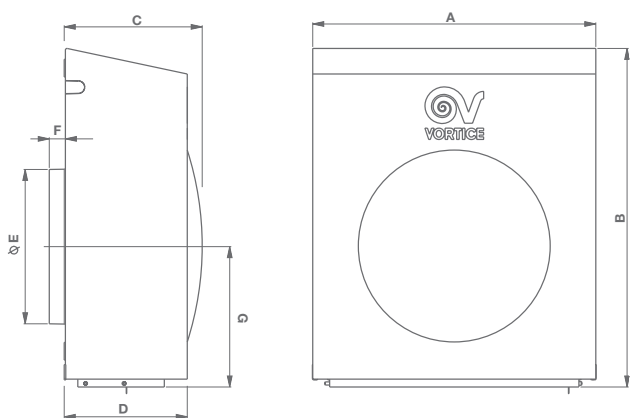
Electrical supply: 220/240 V - 50 Hz for CA WE D models.



CA WE D E
RANGE

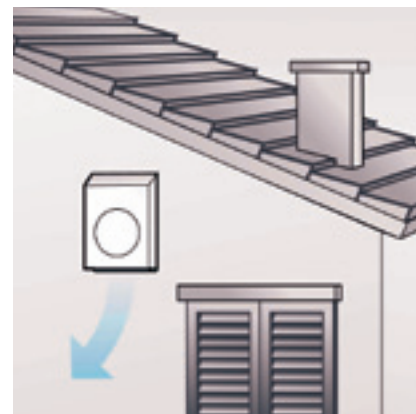


DIMENSIONS



Models	A	B	C	D	Ø E	F	G
CA 100 WE D	262	345	127	113	97	20	-
CA 125 WE D							
CA 150 Q WE D							
CA 150 WE D E	360	430	173	155	147	178.5	
CA 160 WE D E					157		
CA 200 WE D E					197		

Dimensions (mm)











SOUND LEVELS

Models	Code	125 Hz	250 Hz	500 Hz	1K Hz	2K Hz	4K Hz	8K Hz
CA 100 WE D	16091	61.9	65.8	62.2	62.1	61	59.5	50.6
CA 125 WE D	16092	59.7	64.5	62	61.7	60.6	58.4	49.8
CA 150 Q WE D	16093	65	62.5	60.3	61.5	60.7	59.4	51.1

CA WE D E RANGE

Centrifugal duct fans for external wall

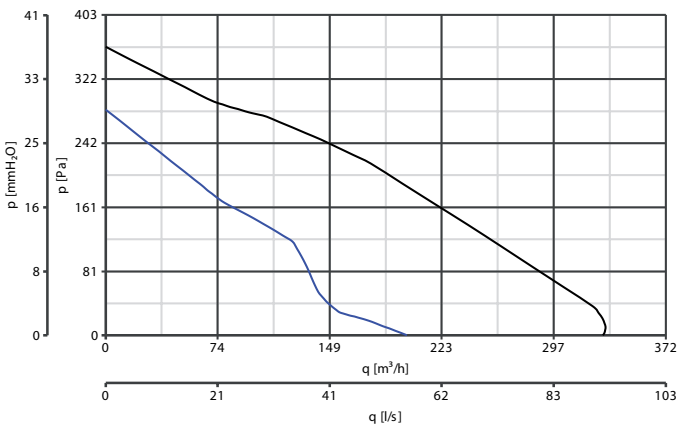
PRODUCT ACCESSORIES

	Description	Code	Product
	C HCS Environmental sensor for humidity	12994	All products
	C PIR Passive infrared sensor	12998	
	C SMOKE Environmental sensor for air quality	12993	
	C TEMP Environmental sensor for temperature	12992	
	C TIMER Adjustable over-run timer	12999	
	DUO Speed controller	22914	16091 - 16092 - 16093
	C 1.5 Electronic speed controller 1.5 A	12966	All products
	C 2.5 Electronic speed controller 2.5 A	12967	
	KIT SCB Built-in controller adaptors for C 1.5 and C 2.5	22481	12966 - 12967

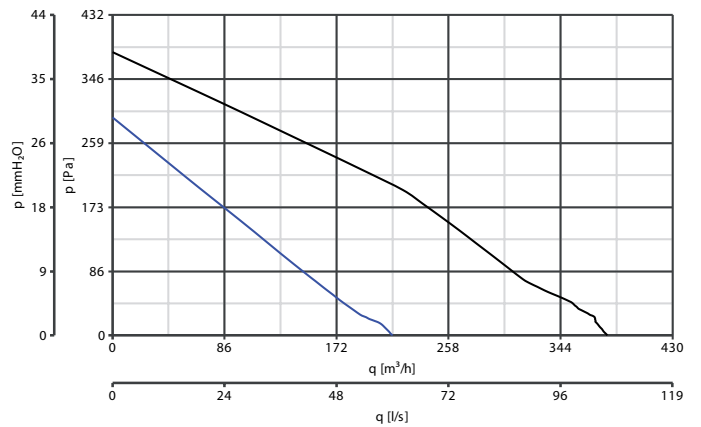
Description and size on page 52; System components on page 54

PERFORMANCE CURVES

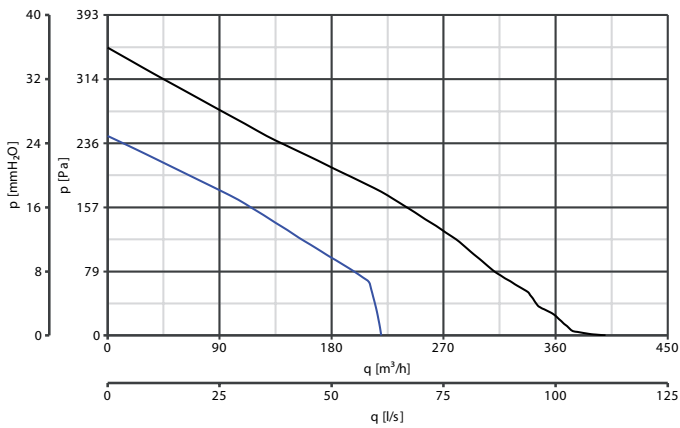
CA 100 WE D Cod. 16091



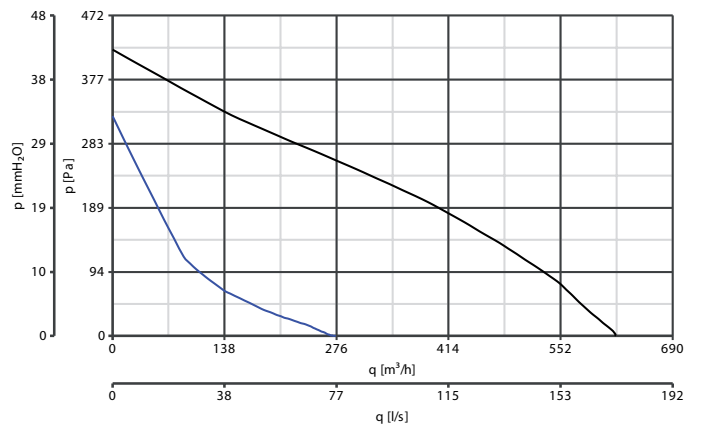
CA 125 WE D Cod. 160092



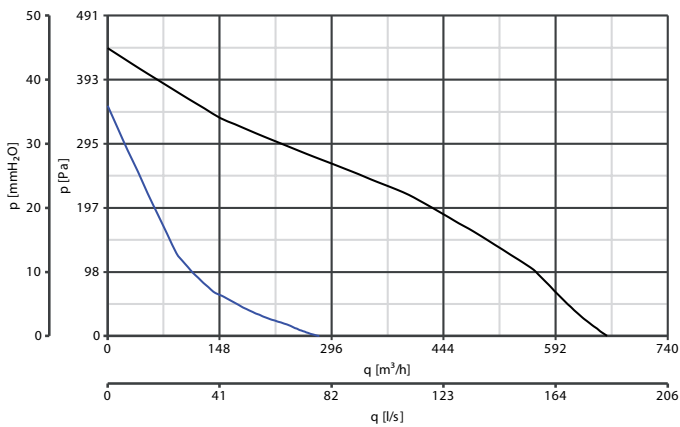
CA 150 Q WE D Cod. 16093



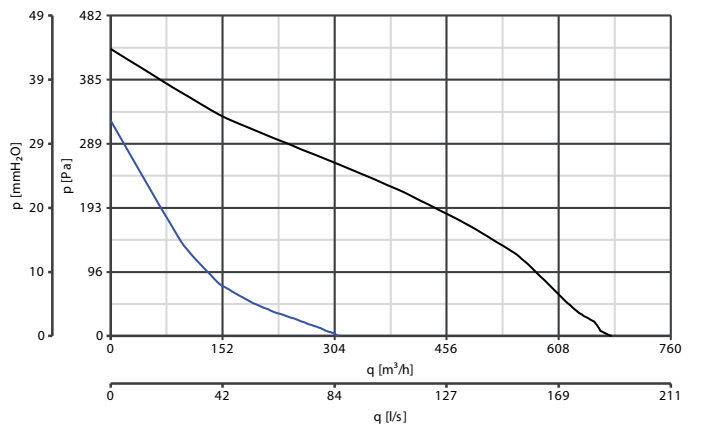
CA 150 WE D E Cod. 16087



CA 160 WE D E Cod. 16088



CA 200 WE D E Cod. 16089



— min. — max.



NEW

CA WE D EP RANGE

Centrifugal duct fans for external wall

PRODUCT SPECIFICATIONS

Designed for silent extraction from kitchens, bathrooms, utility rooms, cellars, garages, public spaces such as bars and shops, and workplaces such as workshops and laboratories.



LONG LIFE 30.000 h



- **6 models:** CA 100 WE D EP, CA 125 WE D EP, CA 150 Q WE D EP, CA 150 WE D EP, CA 160 WE D EP, CA 200 WE D EP.
- P04 sheet steel structure painted with polyester paint which is resistant to atmospheric agents.
- Induction motor with external rotor, manual reset thermal protection device.
- Two speeds.
- Backward curved centrifugal impellers.
- High efficient ball bearing motors.
- Motor support flange in mineral charged PP.
- Low noise emissions.
- Low specific consumption.
- PVC made gravity shutters.
- Backdraught shutters.
- Automatic delivery outlet and protective grille closure avoids the risk of air re-entry and prevents foreign bodies from entering.
- Wide range of continuous operation temperatures between -25°C and +60°C.
- Protection rating IPX5.
- Insulation class: I ⊕ .

TECHNICAL DATA

Models	Code	W min/max	A min/max	RPM min/max	Max Airflow		Max Pressure		Lp dB(A)* min/max	Max °C	Kg
					m³/h min/max	l/s min/max	mmH₂O min/max	Pa min/max			
CA 100 WE D EP	16223	12 - 80	0.13 - 0.35	925 - 2390	68 - 252	18.8 - 70.0	18.3 - 38.6	180.0 - 379.4	38.3 - 50.1 (*)	60	4.6
CA 125 WE D EP	16224	12 - 80	0.13 - 0.35	880 - 2350	85 - 328	23.6 - 91.1	15.3 - 36.7	150.4 - 359.5	36.3 - 49.5 (*)		
CA 150 Q WE D EP	16225	12 - 80	0.13 - 0.35	870 - 2345	95 - 350	26.3 - 97.2	12.4 - 36.7	121.6 - 360.0	37.1 - 49.5 (*)		
CA 150 WE D EP	16226	38 - 100	0.36 - 0.44	1015 - 2520	215 - 625	59.7 - 173.1	27.2 - 45.5	267.1 - 466.6	23.1 - 42.9 (**)	55	6.5
CA 160 WE D EP	16227	38 - 100	0.36 - 0.44	1015 - 2520	235 - 660	65.2 - 183.3	30.1 - 45.2	295.7 - 443.9	22 - 37.5 (**)		6.75
CA 200 WE D EP	16228	38 - 100	0.36 - 0.44	1100 - 2495	245 - 680	60.0 - 188.8	24.9 - 44.3	244.4 - 434.3	20.9 - 39.1 (**)		6.8

* Sound pressure level measured at 3 m in free field conditions with long-cased appliance in delivery mode in accordance with standard EN ISO 3741.

** Sound pressure level measured at 3 m in free field conditions with long-cased appliance in delivery mode in accordance with standard EN ISO 9614.

Electrical supply: 220/240 V ~ 50 Hz for CA 100, 125, WE D EP and CA 150 WE D EP models.

Electrical supply: 230 V ~ 50 Hz for CA 150, 160, 200 WE D EP models.



CA WE D EP
RANGE



Remote Control Unit
included



CA WE D EP RANGE | TECHNICAL DATA FOR REGULATION N° 1254/2014/UE

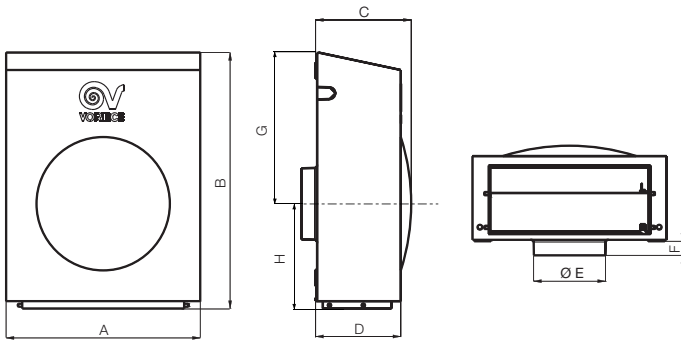
	Models	CA 100 WE D EP	CA 125 WE D EP	CA 150 Q WE D EP	CA 150 WE D EP	CA 160 WE D EP	CA 200 WE D EP
	Code	16223	16224	16225	16226	16227	16228
Supplier's name or trade mark	-	Vortice	Vortice	Vortice	Vortice	Vortice	Vortice
Nominal NRVU flow rate	m ³ /s	0,06328	0,08097	0,09533	0,17219	0,18325	0,18492
Effective electric power input [kW]	kW	0,052	0,053	0,053	0,104	0,105	0,103
Declared typology	-	NRVU-U	NRVU-U	NRVU-U	NRVU-U	NRVU-U	NRVU-U
Type of drive	-	MSD	MSD	MSD	MSD	MSD	MSD
Type of heat recovery system HRS	-	None	None	None	None	None	None
SFPint	W/(m ³ /h)	-810,96	-410,09	489,43	420,45	518,68	290,46
Face velocity at design flow rate	m/s	8,1	6,6	5,4	9,8	9,1	5,9
Nominal external pressure (?ps, ext) [Pa]	Pa	471	314	20	69	20	98
Internal pressure drop of ventilation components (?ps,int)		-234	-121	144	157	187	107
Internal pressure drop of non-ventilation components (?ps,add)		0	0	0	0	0	0
Static efficiency of fans used in accordance with Regulation (EU) N. 327/2011	%	28,8	29,5	29,5	37,4	36,1	36,8
Declared maximum internal leakage rate of the casing of ventilation units		N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Declared maximum external leakage rate of the casing of ventilation units		N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Energy performance energy or classification of the filters	-	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Description of visual filter warning	-						
Casing sound power level	LWA [dB(A)]	50	50	50	43	38	39

* RVU-U: Unit Ventilation Residential - Unidirectional
 ** NRVU-U: Unit Ventilation Non Residential - Unidirectional
 *** MSD: Multi-Speed Drive

CA WE D EP RANGE

Centrifugal duct fans for external wall






DIMENSIONS



Models	A	B	C	D	Ø E	F	G	H
CA 100 WE D EP	262	345	127	113	97	20	205	142
CA 125 WE D EP					122			
CA 150 Q WE D EP	360	430	173	155	147		253	179
CA 150 WE D EP					147			
CA 160 WE D EP					157			
CA 200 WE D E					197			

Dimensions (mm)

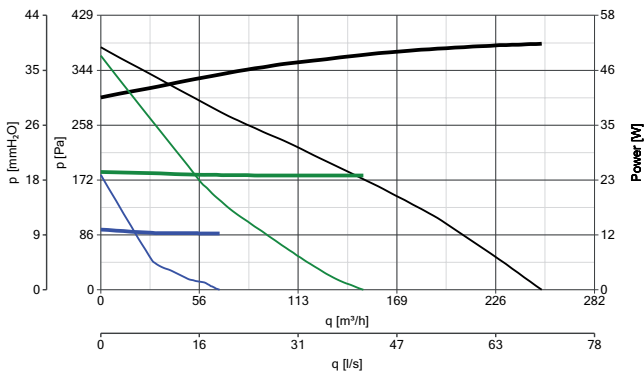
PRODUCT ACCESSORIES

	Description	Code	Product
	C HCS Environmental sensor for humidity	12994	All products
	C PIR Passive infrared sensor	12998	
	C SMOKE Environmental sensor for air quality	12993	
	C TEMP Environmental sensor for temperature	12992	
	C TIMER Adjustable over-run timer	12999	

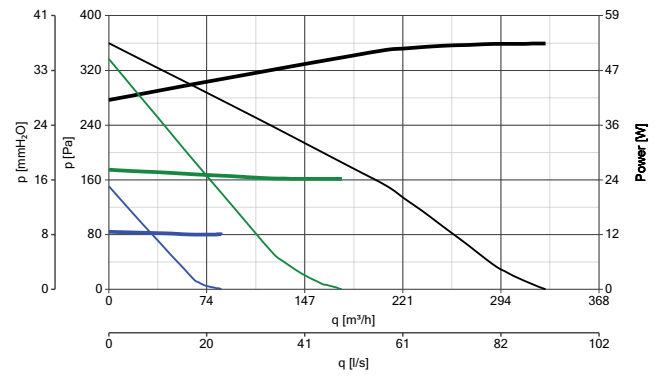
Description and size on page 52; System components on page 54

PERFORMANCE CURVES

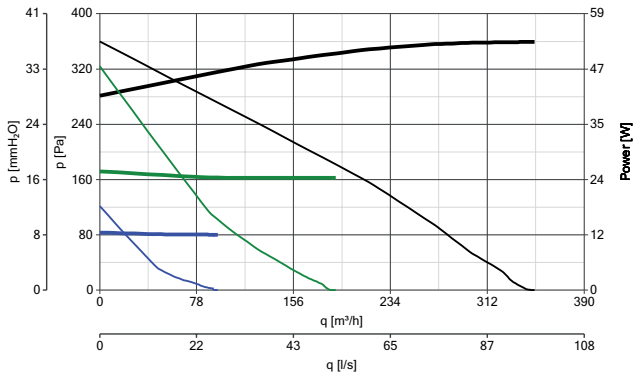
CA 100 WE D EP Cod. 16223



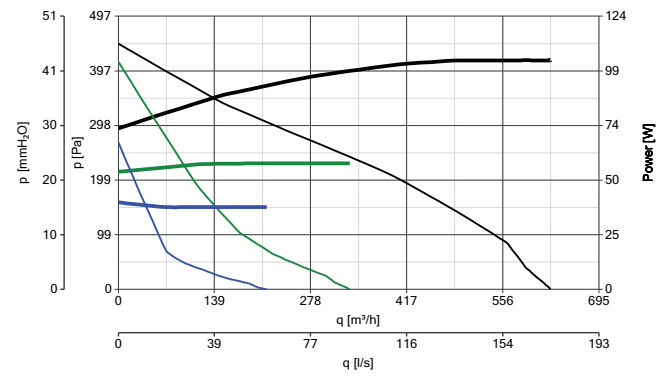
CA 125 WE D EP Cod. 16224



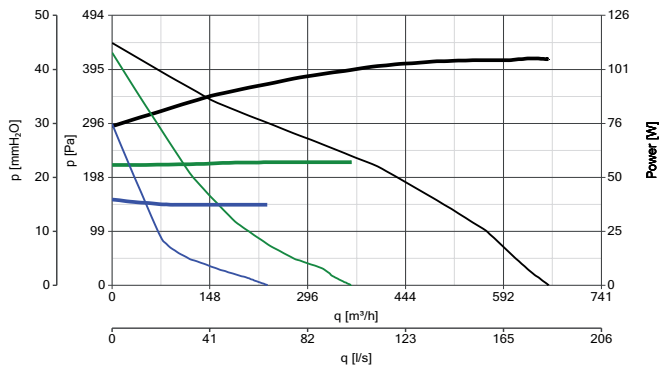
CA 150 Q WE D EP Cod. 16225



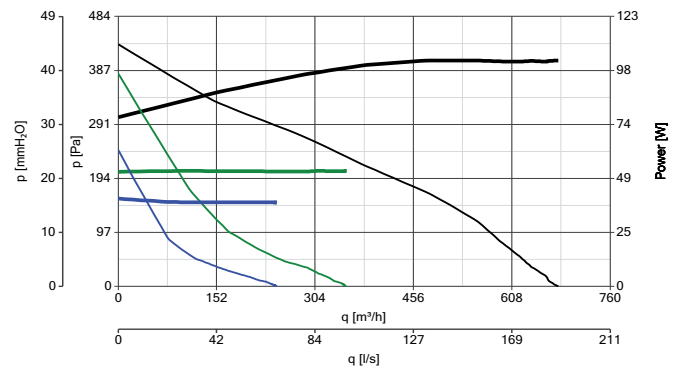
CA 150 WE D EP Cod. 16226



CA160 WE D EP Cod. 16227



CA 200 WE D EP Cod. 16228



POWER CONSUMPTION
 — max
 — med
 — min

PERFORMANCE CURVES
 — max
 — med
 — min




CA MD E W RANGE

Centrifugal duct fans for wall mounting

PRODUCT SPECIFICATIONS

Suitable for indoor wall-mounted applications at the end of ventilation ducts in residential and industrial environments as factories, hospitals, gyms, restaurants, etc...

- **8 models:** CA 100 MD E W, CA 125 MD E W, CA 150 Q MD E W, CA 150 MD E W, CA 160 MD E W, CA 200 MD E W, CA 250 MD E W, CA 315 MD E W.
- Stripped and phosphated steel structure, bands and bases, painted with polyester powder which is resistant to atmospheric agents.
- Induction motor manual reset thermal protection device for diameters 100, 125 and 150 Q.
- Induction motor with external rotor, manual reset thermal protection device for diameters 150, 160, 200, 250 and 315.
- High efficient, two speeds (offer two levels of airflow, pressure, noise emissions and consumption) ball bearing motors.
- Low noise emissions.
- Low specific consumption.
- Motor supports with built-in airflow direction flaps in resin plastic material with high structural strength.
- Wiring box in plastic material with high structural strength.
- Centrifugal impellers with reverse blades in charged PP for diameters 100, 125 and 150 Q, and in charged PA for diameters 150, 160, 200 and 250.
- Wide range of continuous operation temperatures between -25°C and +55°C.
- Protection rating: IP44.
- Insulation class: II .



LONG LIFE 30.000 h

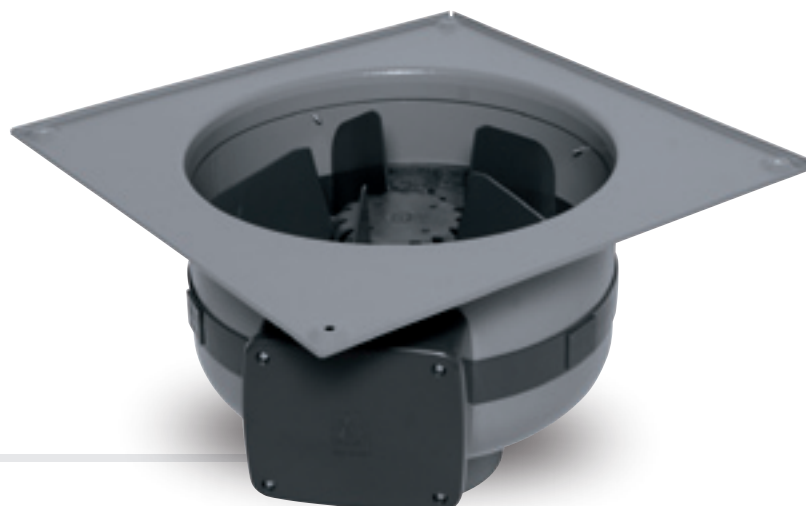


TECHNICAL DATA

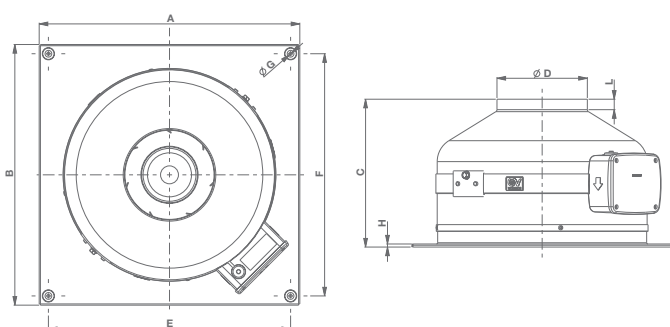
Models	Code	W min/max	A min/max	RPM min/max	Max Airflow		Max Pressure		Lp dB(A)* min/max	Max °C	Kg
					m³/h min/max	l/s min/max	mmH ₂ O min/max	Pa min/max			
CA 100 MD E W	16120	38 - 85	0.28 - 0.40	1520 - 2400	250 - 470	69 - 130	26 - 37	255 - 363	19.2 - 35.7	50	3.3
CA 125 MD E W	16121	38 - 85	0.28 - 0.40	1300 - 2350	300 - 490	83 - 136	23 - 36	225 - 353	25.5 - 39.4		
CA 150 Q MD E W	16122	38 - 85	0.28 - 0.40	1460 - 2340	305 - 510	85 - 142	20 - 32	196 - 314	28.3 - 38.0		
CA 150 MD E W	16133	45 - 85	0.37 - 0.38	1925 - 2690	480 - 630	133 - 175	37 - 43	363 - 422	41.4 - 53.3	55	5.5
CA 160 MD E W	16134	45 - 85	0.37 - 0.38	1785 - 2650	570 - 690	158 - 191	35 - 43	343 - 422	43.0 - 53.0		
CA 200 MD E W	16135	45 - 90	0.37 - 0.40	1590 - 2590	590 - 870	164 - 241	39 - 45	382 - 441	37.9 - 48.2		
CA 250 MD E W	16136	58 - 125	0.51 - 0.55	1450 - 2620	595 - 1000	165 - 278	40 - 54	392 - 530	31.6 - 50.8		
CA 315 MD E W	16137	58 - 125	0.51 - 0.55	1500 - 2650	600 - 1050	167 - 292	37 - 56	363 - 549	41.2 - 51.4	11	

* Sound pressure level measured at 3 m in free field conditions with long-cased appliance in delivery mode in accordance with standard EN ISO 9614.

Electrical supply: 230 V – 50 Hz.



DIMENSIONS



Models	A	B	C	Ø D	E	F	Ø G	H	L
CA 100 MD E W				97					15
CA 125 MD E W	334	334	210	122	304	304			23
CA 150 Q MD E W				147					30
CA 150 MD E W				147			5	5	17
CA 160 MD E W				157					18
CA 200 MD E W	424	424	245	197	394	394			20
CA 250 MD E W			237	247					38
CA 315 MD E W	489	489	260	312	459	459	5	5	36

Dimensions (mm)

PRODUCT ACCESSORIES

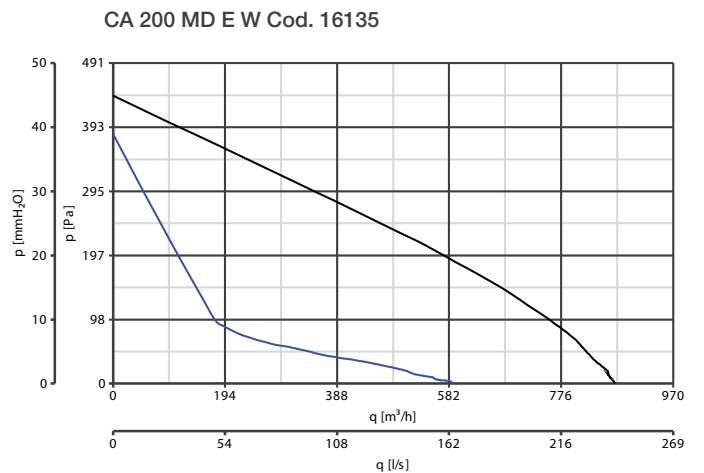
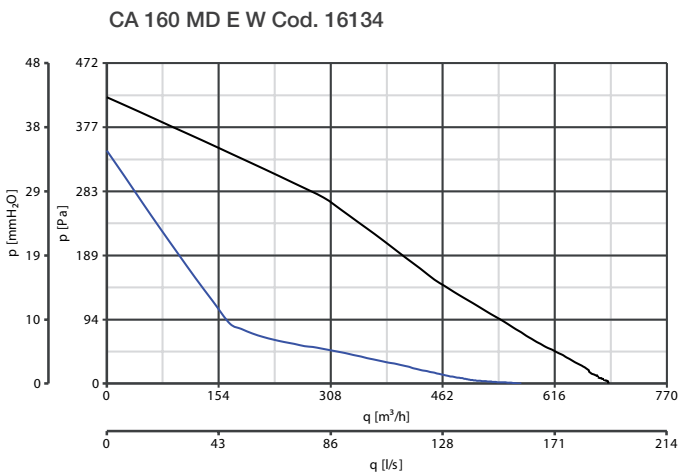
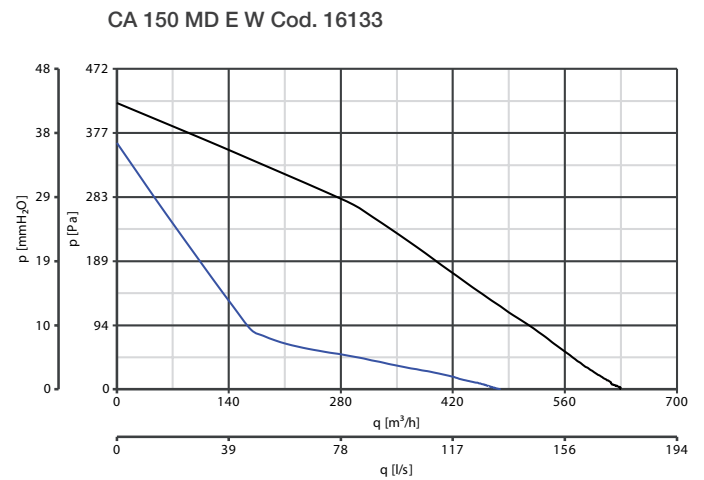
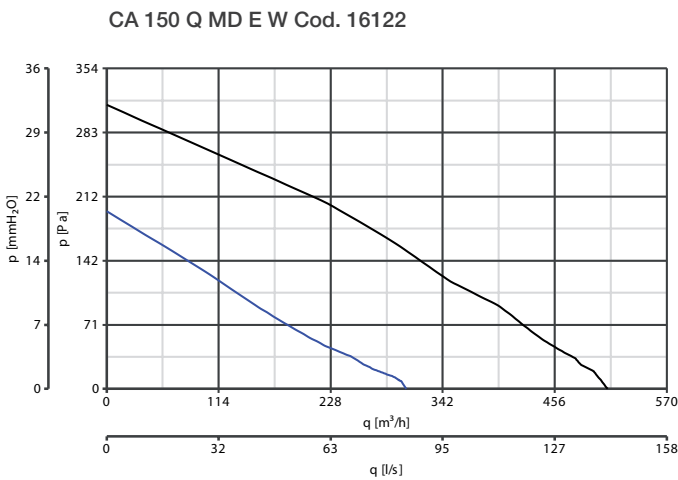
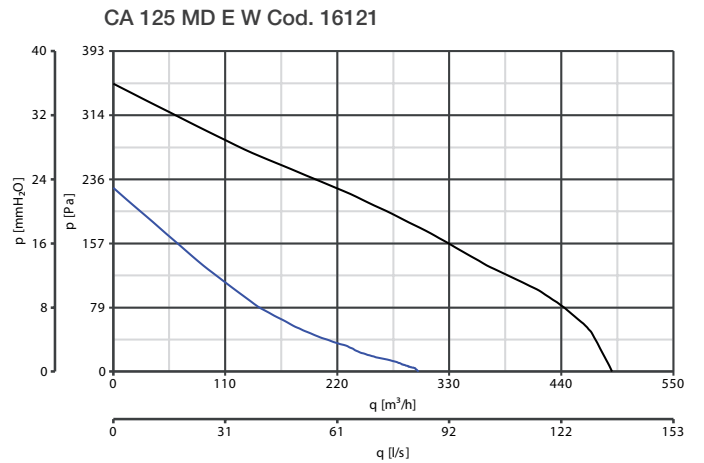
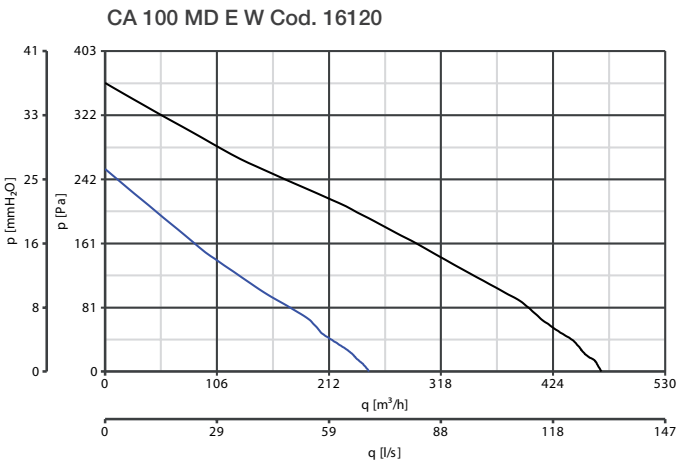
	Description	Code	Product
	C HCS Environmental sensor for humidity	12994	All products
	C PIR Passive infrared sensor	12998	
	C SMOKE Environmental sensor for air quality	12993	
	C TEMP Environmental sensor for temperature	12992	
	C TIMER Adjustable over-run timer	12999	
	DUO Speed controller	22914	16120 - 16121 - 16122
	C 1.5 Electronic speed controller 1.5 A	12966	All products
	C 2.5 Electronic speed controller 2.5 A	12967	
	KIT SCB Built-in controller adaptors for C 1.5 and C 2.5	22481	12966 - 12967
	CA-G 100 Protection grille nominal diameter 100 mm	22750	16120
	CA-G 125 Protection grille nominal diameter 125 mm	22755	16121
	CA-G 150 Protection grille nominal diameter 150 mm	22760	16122 - 16133
	CA-G 160 Protection grille nominal diameter 160 mm	22762	16134
	CA-G 200 Protection grille nominal diameter 200 mm	22765	16135
	CA-G 250 Protection grille nominal diameter 250 mm	22770	16136
	CA-G 315 Protection grille nominal diameter 315 mm	22775	16137



CA MD E W RANGE

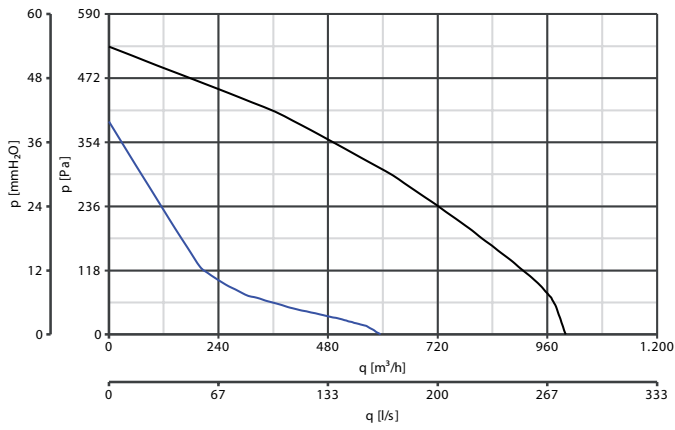
Centrifugal duct fans for wall mounting

PERFORMANCE CURVES



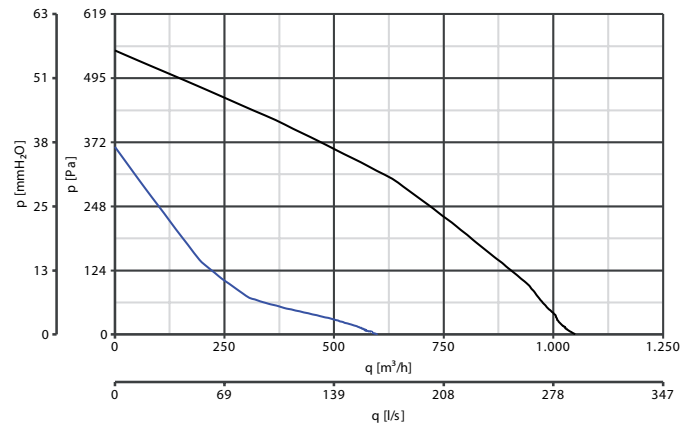
PERFORMANCE CURVES

CA 250 MD E W Cod. 16136



— min. — max.

CA 315 MD E W Cod. 16137





NEW

CA MD W EP RANGE

Centrifugal duct fans for wall mounting

PRODUCT SPECIFICATIONS

Suitable for indoor wall-mounted applications at the end of ventilation ducts in residential and industrial environments as factories, hospitals, gyms, restaurants, etc...

- **8 models:** CA 100 MD E W, CA 125 MD E W, CA 150 Q MD E W, CA 150 MD E W, CA 160 MD E W, CA 200 MD E W, CA 250 MD E W, CA 315 MD E W.
- Stripped and phosphated steel structure, bands and bases, painted with polyester powder which is resistant to atmospheric agents.
- Induction motor manual reset thermal protection device for diameters 100, 125 and 150 Q.
- Induction motor with external rotor, manual reset thermal protection device for diameters 150, 160, 200, 250 and 315.
- High efficient, two speeds (offer two levels of airflow, pressure, noise emissions and consumption) ball bearing motors.
- Low noise emissions.
- Low specific consumption.
- Motor supports with built-in airflow direction flaps in resin plastic material with high structural strength.
- Wiring box in plastic material with high structural strength.
- Centrifugal impellers with reverse blades in charged PP for diameters 100, 125 and 150 Q, and in charged PA for diameters 150, 160, 200 and 250.
- Wide range of continuous operation temperatures between -25°C and +55°C.
- Protection rating: IP44.
- Insulation class: II

LONG LIFE 30.000 h

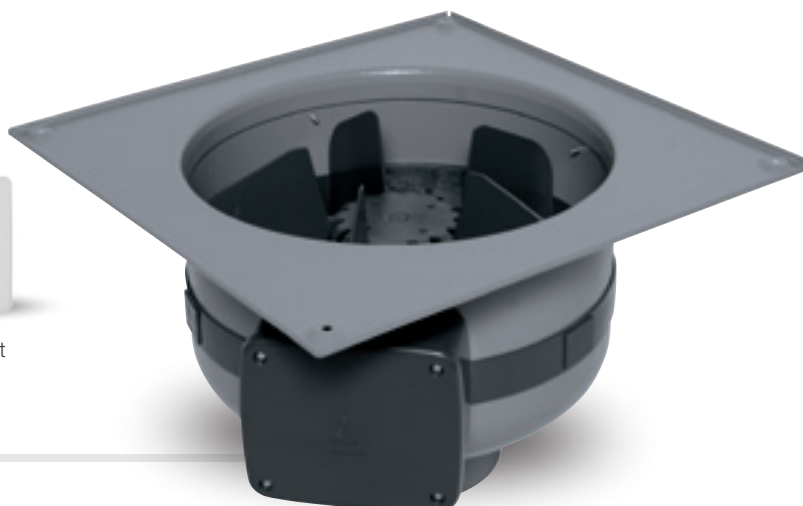


TECHNICAL DATA

Models	Code	W min/max	A min/max	RPM min/max	Max Airflow		Max Pressure		Lp dB(A)* min/max	Max °C	Kg
					m ³ /h min/max	l/s min/max	mmH ₂ O min/max	Pa min/max			
CA 100 MD W EP	16229	12 - 85	0.13 - 0.40	970 - 2450	160 - 400	44.4 - 111.1	26.8 - 38.8	262.3 - 380.1	19.2 - 35.7	50	3.3
CA 125 MD W EP	16230	12 - 85	0.13 - 0.40	935 - 2445	160 - 445	44.4 - 123.6	13.9 - 36.2	136.5 - 355.9	25.5 - 39.4		
CA 150 Q MD W EP	16231	12 - 85	0.13 - 0.40	965 - 2435	168 - 455	46.6 - 126.3	7.1 - 32.5	69.5 - 318.7	28.3 - 38.0		
CA 150 MD W EP	16232	39 - 85	0.34 - 0.38	1740 - 2690	400 - 617	111.1 - 171.3	31.6 - 43.8	310.4 - 429.7	41.4 - 53.3	55	5.5
CA 160 MD W EP	16233	38 - 85	0.35 - 0.38	1570 - 2680	385.8 - 665	107.1 - 184.7	28.0 - 42.4	275.1 - 416.7	43.0 - 53.0		
CA 200 MD W EP	16234	39 - 90	0.35 - 0.40	1455 - 2630	455 - 825	126.3 - 229.1	34.3 - 44.0	337.1 - 432.3	37.9 - 48.2		
CA 250 MD W EP	16235	48 - 125	0.48 - 0.55	1340 - 2675	500 - 1030	138.8 - 286.1	34.9 - 55.9	342.3 - 548.3	31.6 - 50.8		
CA 315 MD W EP	16236	48 - 125	0.48 - 0.55	1335 - 2670	490 - 1030	136.1 - 286.1	35.7 - 58.2	350.5 - 570.8	41.2 - 51.4		11

* Sound pressure level measured at 3 m in free field conditions with long-cased appliance in delivery mode in accordance with standard EN ISO 9614.

Electrical supply: 230 V - 50 Hz.


 Remote Control Unit
included


CA MD W EP RANGE | TECHNICAL DATA FOR REGULATION N° 1254/2014/UE

	Models	CA 100 MD W EP	CA 150 Q MD W EP	CA 150 MD W EP	CA 150 WE D EP
	Code	16229	16230	16231	16232
Supplier's name or trade mark	-	Vortice	Vortice	Vortice	Vortice
Nominal NRVU flow rate	m ³ /s	0,10994	0,12206	0,12328	0,17025
Effective electric power input [kW]	kW	0,05	0,05	0,05	0,081
Declared typology	-	NRVU-U	NRVU-U	NRVU-U	NRVU-U
Type of drive	-	MSD	MSD	MSD	MSD
Type of heat recovery system HRS	-	None	None	None	None
SFPint	W/(m ³ /h)	150,59	-23,74	-168,67	353,75
Face velocity at design flow rate	m/s	14	9,9	6,9	9,6
Nominal external pressure (?ps, ext) [Pa]	Pa	88	108	137	59
Internal pressure drop of ventilation components (?ps,int)		44	-6	-40	171
Internal pressure drop of non-ventilation components (?ps,add)		0	0	0	0
Static efficiency of fans used in accordance with Regulation (EU) N. 327/2011	%	29	24,9	23,9	48,2
Declared maximum internal leakage rate of the casing of ventilation units		N.A.	N.A.	N.A.	N.A.
Declared maximum external leakage rate of the casing of ventilation units		N.A.	N.A.	N.A.	N.A.
Energy performance energy or classification of the filters	-	N.A.	N.A.	N.A.	N.A.
Description of visual filter warning	-	-	-	-	-
Casing sound power level	LWA [dB(A)]	36	39	38	53

* RVU-U: Unit Ventilation Residential - Unidirectional

** NRVU-U: Unit Ventilation Non Residential - Unidirectional

*** MSD: Multi-Speed Drive

CA MD W EP RANGE

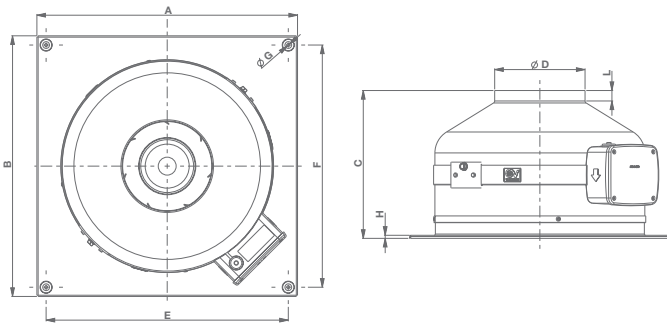
Centrifugal duct fans for wall mounting

CA MD W EP RANGE | TECHNICAL DATA FOR REGULATION N° 1254/2014/UE

Models	Code	CA 160 MD W EP	CA 200 MD W EP	CA 250 MD W EP	CA 150 WE D EP
		16233	16234	16235	16232
Supplier's name or trade mark	-	Vortice	Vortice	Vortice	Vortice
Nominal NRJU flow rate	m ³ /s	0,18356	0,22633	0,28222	0,28083
Effective electric power input [kW]	kW	0,083	0,088	0,127	0,127
Declared typology	-	NRJU-U	NRJU-U	NRJU-U	NRJU-U
Type of drive	-	MSD	MSD	MSD	MSD
Type of heat recovery system HRS	-	None	None	None	None
SFPint	W/(m ³ /h)	345,29	-55,9	84,89	26,6
Face velocity at design flow rate	m/s	9,1	7,2	5,7	3,6
Nominal external pressure (?ps, ext) [Pa]	Pa	49	128	108	128
Internal pressure drop of ventilation components (?ps,int)		158	-16	25	8
Internal pressure drop of non-ventilation components (?ps,add)		0	0	0	0
Static efficiency of fans used in accordance with Regulation (EU) N. 327/2011	%	45,9	28,7	29,6	30
Declared maximum internal leakage rate of the casing of ventilation units		N.A.	N.A.	N.A.	N.A.
Declared maximum external leakage rate of the casing of ventilation units		N.A.	N.A.	N.A.	N.A.
Energy performance energy or classification of the filters	-	N.A.	N.A.	N.A.	N.A.
Description of visual filter warning	-	-	-	-	-
Casing sound power level	LWA [dB(A)]	53	48	51	51

* RVU-U: Unit Ventilation Residential - Unidirectional
 ** NRJU-U: Unit Ventilation Non Residential - Unidirectional
 *** MSD: Multi-Speed Drive

DIMENSIONS

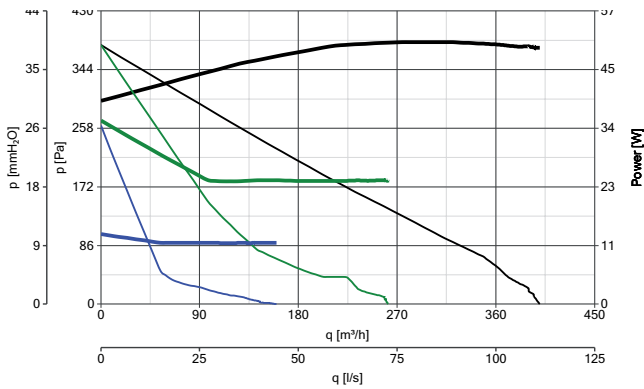


Models	A	B	C	Ø D	E	F	Ø G	H	L
CA 100 MD W EP				97					15
CA 125 MD W EP	334	334	210	122	304	304			23
CA 150 Q MD W EP				147					30
CA 150 MD W EP				147			5	5	17
CA 160 MD W EP	424	424	245	157	394	394			18
CA 200 MD W EP				197					20
CA 250 MD W EP				237					247
CA 315 MD W EP	489	489	260	312	459	459	5	5	36

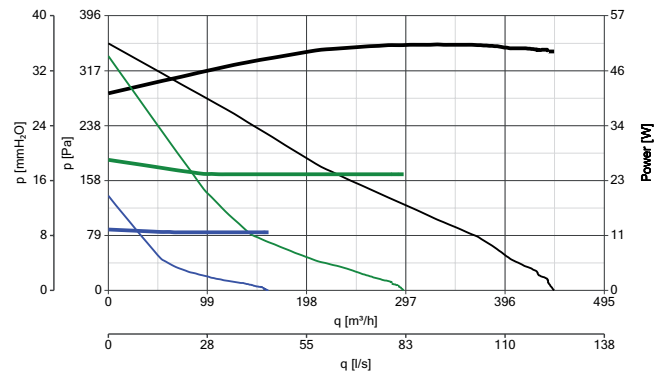
Dimensions (mm)

PERFORMANCE CURVES

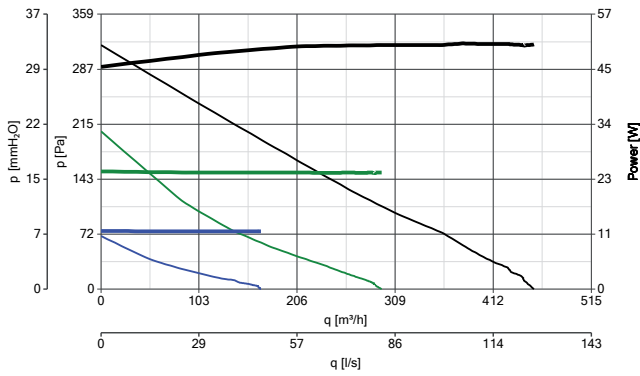
CA 100 MD W EP Cod. 16229



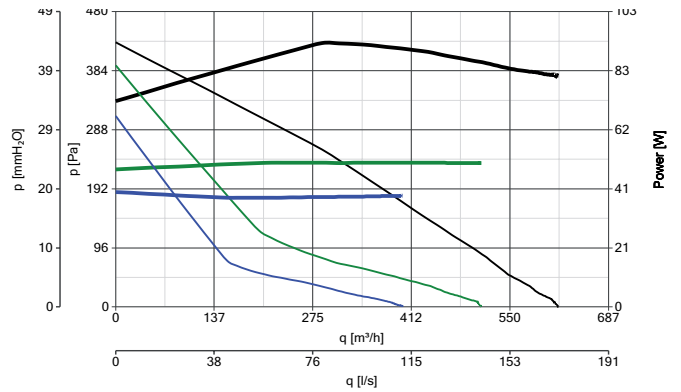
CA 125 MD W EP Cod. 16230



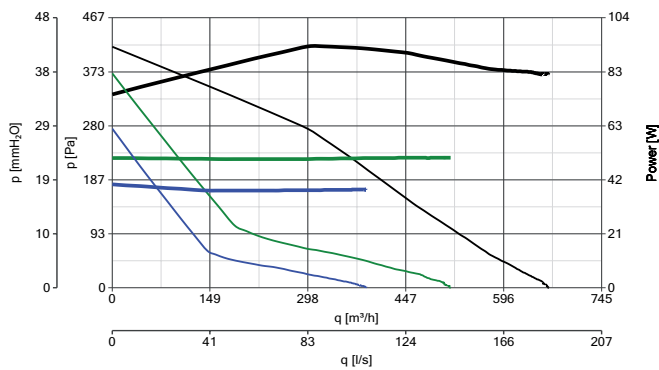
CA 150 Q MD W EP Cod. 16231



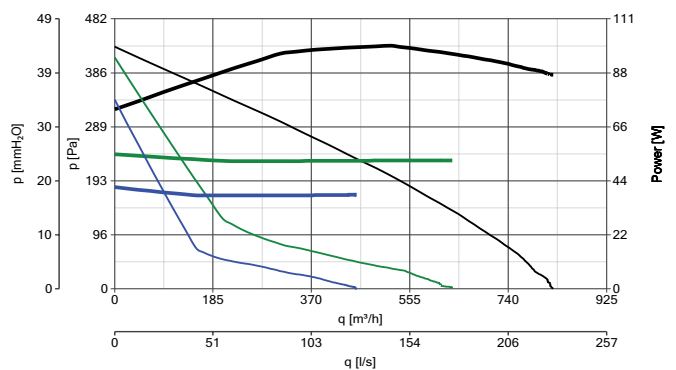
CA 150 MD W EP Cod. 16232



CA 160 MD W EP Cod. 16233



CA 200 MD W EP Cod. 16234



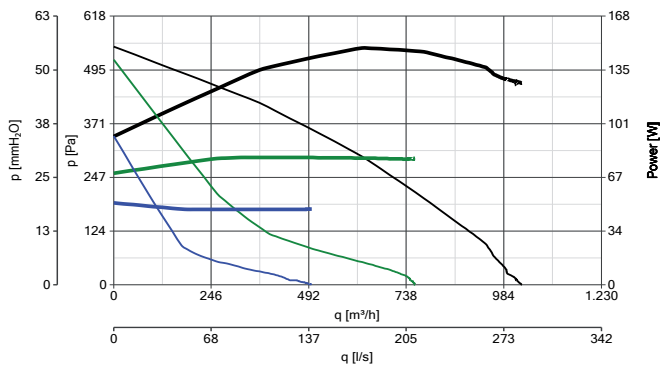


CA MD W EP RANGE

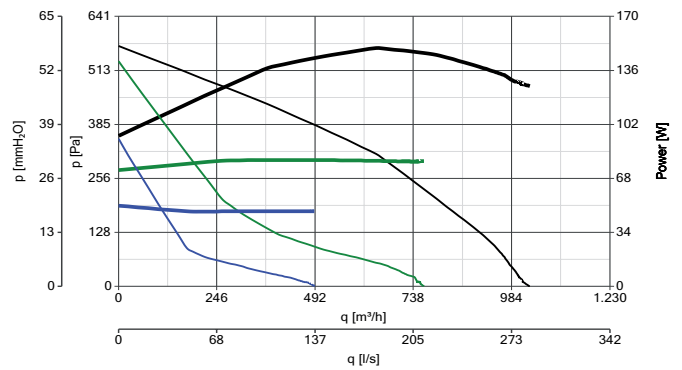
Centrifugal duct fans for wall mounting

PERFORMANCE CURVES

CA 250 MD W EP Cod. 16235








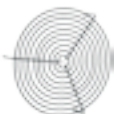
CA 315 MD W EP Cod. 16236



POWER CONSUMPTION
 — max
 — med
 — min

PERFORMANCE CURVES
 — max
 — med
 — min

PRODUCT ACCESSORIES

	Description	Code	Product
	C HCS Environmental sensor for humidity	12994	All products
	C PIR Passive infrared sensor	12998	
	C SMOKE Environmental sensor for air quality	12993	
	C TEMP Environmental sensor for temperature	12992	
	C TIMER Adjustable over-run timer	12999	
	CA-G 100 Protection grille nominal diameter 100 mm	22750	16229
	CA-G 125 Protection grille nominal diameter 125 mm	22755	16230
	CA-G 150 Protection grille nominal diameter 150 mm	22760	16231 - 16232
	CA-G 160 Protection grille nominal diameter 160 mm	22762	16233
	CA-G 200 Protection grille nominal diameter 200 mm	22765	16234
	CA-G 250 Protection grille nominal diameter 250 mm	22770	16235
	CA-G 315 Protection grille nominal diameter 315 mm	22775	16236

Description and size on page 52; System components on page 54




CA MD E RF RANGE

Centrifugal duct fans for roof mounting

PRODUCT SPECIFICATIONS

Suitable for outdoor installation on roof at the end of ventilation ducts in residential and industrial environments as factories, hospitals, gyms, restaurants, etc...

- **8 models:** CA 100 MD E RF, CA 125 MD E RF, CA 150 Q MD E RF, CA 150 MD E RF, CA 160 MD E RF, CA 200 MD E RF, CA 250 MD E RF, CA 315 MD E RF.
- Stripped and phosphated steel structure, bands and bases, painted with polyester powder which is resistant to atmospheric agents.
- Induction motor with built-in rotor, manual reset thermal protection device for diameters 100, 125 and 150 Q.
- Induction motor with external rotor, manual reset thermal protection device for diameters 150, 160, 200, 250 and 315.
- Two speed motors (offer two levels of airflow, pressure, noise emissions and consumption).
- Low noise emissions.
- Low specific consumption.
- Motor supports with built-in airflow direction flaps in resin plastic material with high structural strength.
- Wiring box in plastic material with high structural strength.
- Anti-UV thermoplastic resin cover in grey.
- Anti-UV thermoplastic resin support in grey for diameters 100, 125, 150 and 160.
- Wide range of continuous operation temperatures between -25°C and +55°C.
- Protection rating: IP44 for model 150, 160, 200, 250, 315 CA MD E RF.
- Protection rating: IP45 for model 100, 125 and 150 Q CA MD E RF.
- Insulation class: II .



LONG LIFE 30.000 h



TECHNICAL DATA

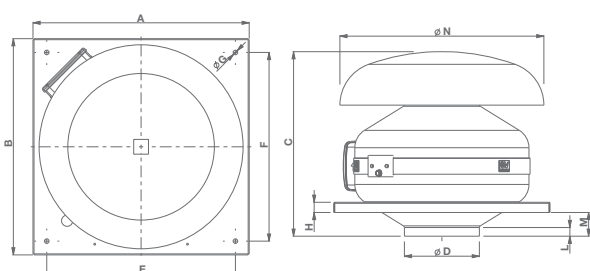
Models	Code	W min/max	A min/max	RPM min/max	Max Airflow		Max Pressure		Lp dB(A)* min/max	Max °C	Kg
					m³/h min/max	l/s min/max	mmH₂O min/max	Pa min/max			
CA 100 MD E RF	16140	38 - 85	0.28 - 0.40	1590 - 2430	180 - 280	50 - 78	32 - 41	314 - 402	27.3 - 37.5	50	3.5
CA 125 MD E RF	16141	38 - 85	0.28 - 0.40	1345 - 2400	220 - 380	61 - 106	26 - 38	255 - 373	21.1 - 40.2	50	
CA 150 Q MD E RF	16142	38 - 85	0.28 - 0.40	1490 - 2370	250 - 400	69 - 111	21 - 32	206 - 314	23.8 - 37.5	50	
CA 150 MD E RF	16183	35 - 88	0.34 - 0.39	1290 - 2650	235 - 480	65 - 133	33 - 44	324 - 431	24.6 - 43.8	55	5.8
CA 160 MD E RF	16184	40 - 88	0.36 - 0.39	1500 - 2640	310 - 530	86 - 147	34 - 43	333 - 422	30.4 - 44.8	55	5.9
CA 200 MD E RF	16185	40 - 95	0.36 - 0.41	1300 - 2560	350 - 710	97 - 197	41 - 46	402 - 451	23.0 - 31.7	55	6.1
CA 250 MD E RF	16186	58 - 130	0.51 - 0.57	1450 - 2600	440 - 850	122 - 236	50 - 55	490 - 539	28.6 - 43.8	55	7.9
CA 315 MD E RF	16187	58 - 130	0.51 - 0.57	1450 - 2630	450 - 900	125 - 250	50 - 58	490 - 569	32.8 - 40.7	55	14

* Sound pressure level measured at 3 m in free field conditions with long-cased appliance in delivery mode in accordance with standard EN ISO 9614.

Electric supply: 230 V - 50 Hz.



DIMENSIONS



Models	A	B	C	Ø D	E	F	Ø G	H	L	M	Ø N
CA 100 MD E RF	334	334	305	97	280	280	9	20	15	35	300
CA 125 MD E RF				122					23		
CA 150 Q MD E RF				147					30		
CA 150 MD E RF	424	424	365	147	370	370	9	20	17	47	400
CA 160 MD E RF				157					18		
CA 200 MD E RF				197					20		
CA 250 MD E RF	489	489	367	247	435	435	9	20	38	41	534
CA 315 MD E RF				415					312		

Dimensions (mm)

PRODUCT ACCESSORIES

	Description	Code	Product
	C HCS Environmental sensor for humidity	12994	All products
	C PIR Passive infrared sensor	12998	
	C SMOKE Environmental sensor for air quality	12993	
	C TEMP Environmental sensor for temperature	12992	
	C TIMER Adjustable over-run timer	12999	
	DUO Speed controller	22914	16140 - 16141 - 16142
	C 1.5 Electronic speed controller 1.5 A	12966	All products
	C 2.5 Electronic speed controller 2.5 A	12967	
	KIT SCB Built-in controller adaptors for C 1.5 and C 2.5	22481	12966 - 12967
	CA-G 100 Protection grille nominal diameter 100 mm	22750	16140
	CA-G 125 Protection grille nominal diameter 125 mm	22755	16141
	CA-G 150 Protection grille nominal diameter 150 mm	22760	16143 - 16183
	CA-G 160 Protection grille nominal diameter 160 mm	22762	16184
	CA-G 200 Protection grille nominal diameter 200 mm	22765	16185
	CA-G 250 Protection grille nominal diameter 250 mm	22770	16186
	CA-G 315 Protection grille nominal diameter 315 mm	22771	16187
	CARF-C 125 Sub-frame	22543	16140 - 16141 - 16142
	CARF-C 150-160-200 Sub-frame	22544	16183 - 16184 - 16186
	CARF-C 250-315 Sub-frame	22545	16186 - 16187

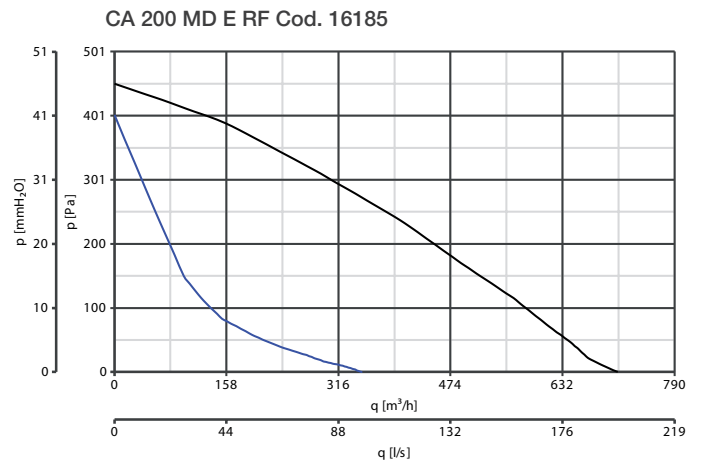
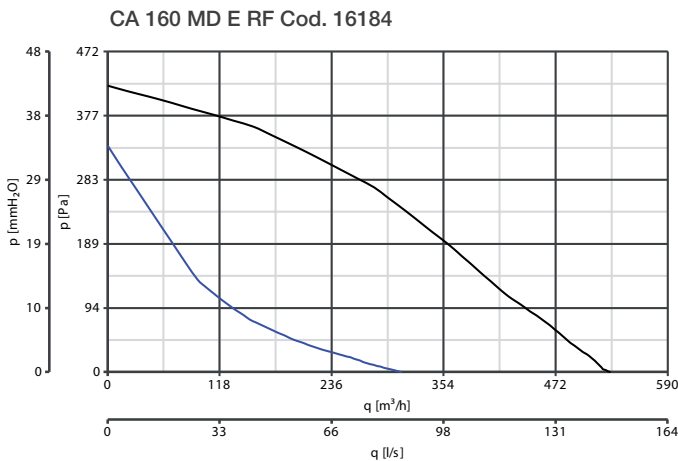
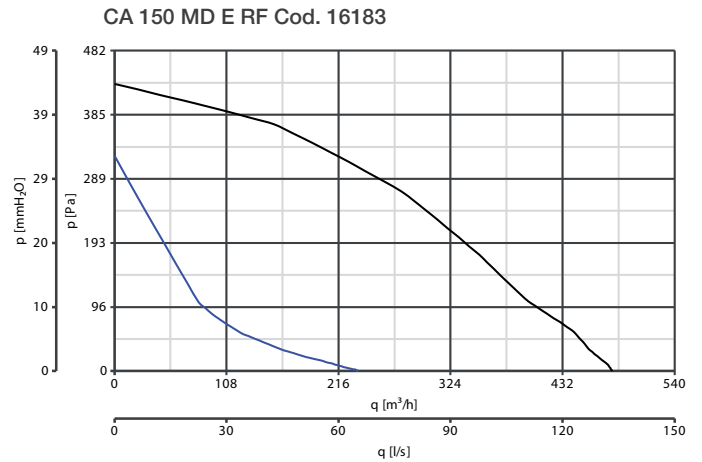
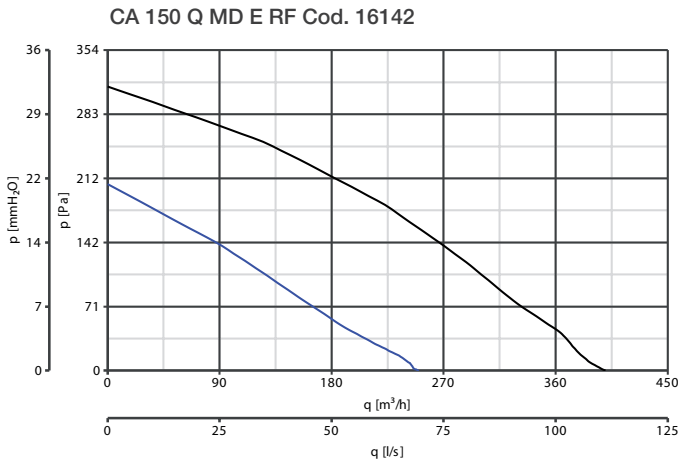
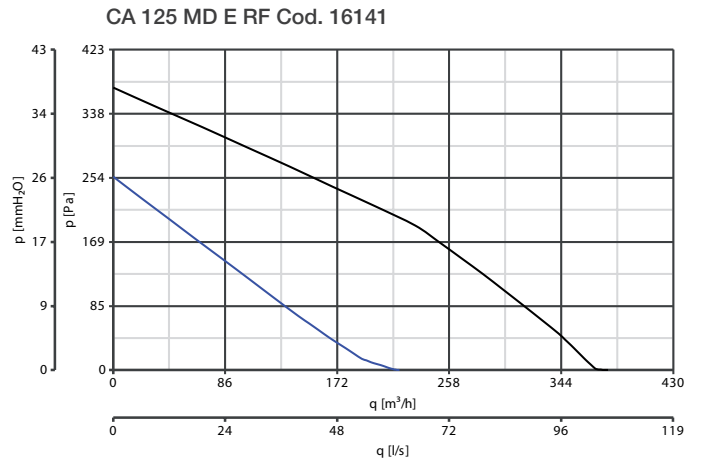
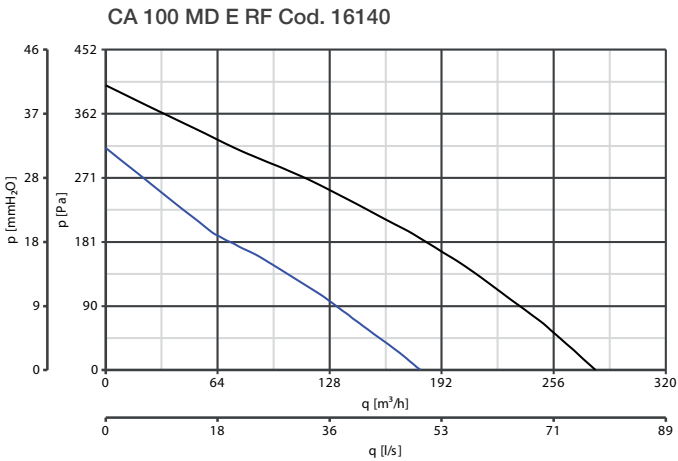
Description and size on page 52; System components on page 54



CA MD E RF RANGE

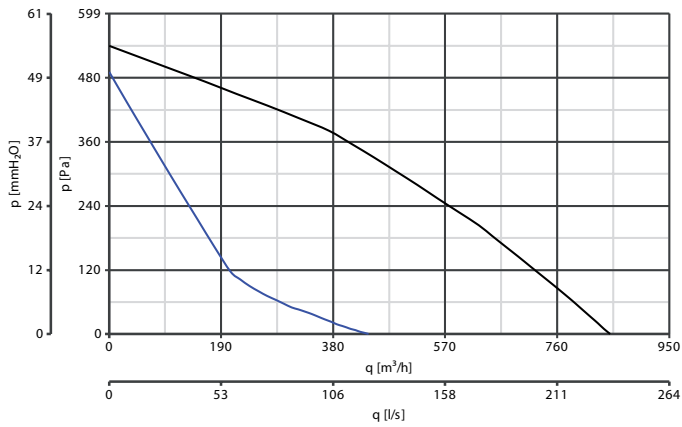
Centrifugal duct fans for roof mounting

PERFORMANCE CURVES



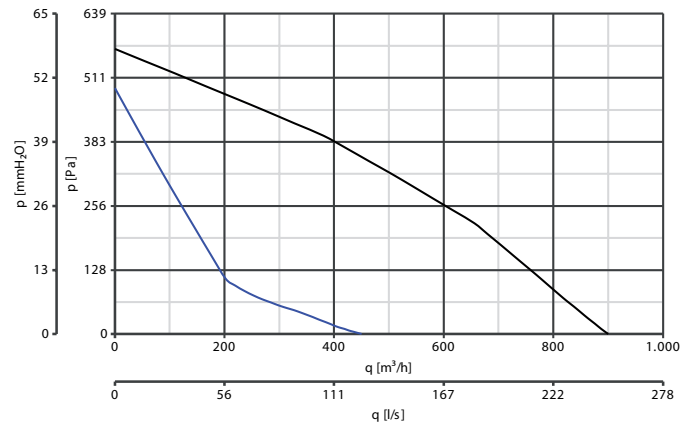
PERFORMANCE CURVES

CA 250 MD E RF Cod. 16186



— min. — max.

CA 315 MD E RF Cod. 16187





NEW

CA MD RF EP RANGE

Centrifugal duct fans for roof mounting

PRODUCT SPECIFICATIONS

Suitable for outdoor installation on roof at the end of ventilation ducts in residential and industrial environments as factories, hospitals, gyms, restaurants, etc...



LONG LIFE 30.000 h



- **8 models:** CA 100 MD E RF, CA 125 MD E RF, CA 150 Q MD E RF, CA 150 MD E RF, CA 160 MD E RF, CA 200 MD E RF, CA 250 MD E RF, CA 315 MD E RF.
- Stripped and phosphated steel structure, bands and bases, painted with polyester powder which is resistant to atmospheric agents.
- Induction motor with built-in rotor, manual reset thermal protection device for diameters 100, 125 and 150 Q.
- Induction motor with external rotor, manual reset thermal protection device for diameters 150, 160, 200, 250 and 315.
- Two speed motors (offer two levels of airflow, pressure, noise emissions and consumption).
- Low noise emissions.
- Low specific consumption.
- Motor supports with built-in airflow direction flaps in resin plastic material with high structural strength.
- Wiring box in plastic material with high structural strength.
- Anti-UV thermoplastic resin cover in grey.
- Anti-UV thermoplastic resin support in grey for diameters 100, 125, 150 and 160.
- Wide range of continuous operation temperatures between -25°C and +55°C.
- Protection rating: IP44 for model 150, 160, 200, 250, 315 CA MD E RF.
- Protection rating: IP45 for model 100, 125 and 150 Q CA MD E RF.
- Insulation class: II □ .

TECHNICAL DATA

Models	Code	W min/max	A min/max	RPM min/max	Max Airflow		Max Pressure		Lp dB(A)* min/max	Max °C	Kg
					m³/h min/max	l/s min/max	mmH₂O min/max	Pa min/max			
CA 100 MD RF EP	16237	12 - 85	0.13 - 0.40	900 - 2405	95 - 265	26.3 - 73.6	27.7 - 39.7	272.2 - 389.3	27.3 - 37.5	50	3.5
CA 125 MD RF EP	16238	12 - 85	0.13 - 0.40	915 - 2405	118 - 312	32.7 - 86.6	16.5 - 6.3	161.8 - 356.1	21.1 - 40.2	50	
CA 150 Q MD RF EP	16239	12 - 85	0.13 - 0.40	963 - 2430	122 - 312	33.8 - 86.6	7.2 - 31.4	70.7 - 307.9	23.8 - 37.5	50	
CA 150 MD RF EP	16240	33 - 88	0.33 - 0.39	1240 - 2630	230 - 490	63.8 - 136.1	31.3 - 44.0	307.6 - 432.1	24.6 - 43.8	55	5.8
CA 160 MD RF EP	16241	33 - 88	0.33 - 0.39	1300 - 2655	245 - 500	68.0 - 138.8	20.5 - 40.7	201.0 - 399.7	30.4 - 44.8	55	5.9
CA 200 MD RF EP	16242	33 - 95	0.36 - 0.42	1156 - 2555	310 - 700	86.1 - 194.7	31.9 - 44.9	313.4 - 440.6	23.0 - 31.7	55	6.1
CA 250 MD RF EP	16243	48 - 130	0.47 - 0.57	1195 - 2565	385 - 850	106.9 - 236.1	39.1 - 56.3	384.1 - 552.2	28.6 - 43.8	55	7.9
CA 315 MD RF EP	16244	48 - 130	0.48 - 0.57	1186 - 2590	370 - 865	102.7 - 240.2	37.6 - 58.5	368.9 - 573.7	32.8 - 40.7	55	14

* Sound pressure level measured at 3 m in free field conditions with long-cased appliance in delivery mode in accordance with standard EN ISO 9614.

Electric supply: 230 V - 50 Hz.


 Remote Control Unit
included


CA MD RF EP RANGE | TECHNICAL DATA FOR REGULATION N° 1254/2014/UE

	Models	CA 100 MD E RF	CCA 125 MD E RF	CA 150 Q MD E RF	CA 150 MD E RF
	Code	16237	16238	16239	16240
Supplier's name or trade mark	-	Vortice	Vortice	Vortice	Vortice
Nominal NRVU flow rate	m ³ /s	0,06967	0,08597	0,08589	0,13508
Effective electric power input [kW]	kW	0,051	0,051	0,05	0,089
Declared typology	-	NRVU-U	NRVU-U	NRVU-U	NRVU-U
Type of drive	-	MSD	MSD	MSD	MSD
Type of heat recovery system HRS	-	None	None	None	None
SFPint	W/(m ³ /h)	N.A.	497,81	488,53	498,41
Face velocity at design flow rate	m/s	8,9	7	4,9	7,6
Nominal external pressure (?ps, ext) [Pa]	Pa	108	29	29	69
Internal pressure drop of ventilation components (?ps,int)		110	154	154	213
Internal pressure drop of non-ventilation components (?ps,add)		0	0	0	0
Static efficiency of fans used in accordance with Regulation (EU) N. 327/2011	%	29,8	30,8	31,4	42,8
Declared maximum internal leakage rate of the casing of ventilation units		N.A.	N.A.	N.A.	N.A.
Declared maximum external leakage rate of the casing of ventilation units		N.A.	N.A.	N.A.	N.A.
Energy performance energy or classification of the filters	-	N.A.	N.A.	N.A.	N.A.
Description of visual filter warning	-	-	-	-	-
Casing sound power level	LWA [dB(A)]	37,5	40	38	42,8

* RVU-U: Unit Ventilation Residential - Unidirectional

** NRVU-U: Unit Ventilation Non Residential - Unidirectional

*** MSD: Multi-Speed Drive

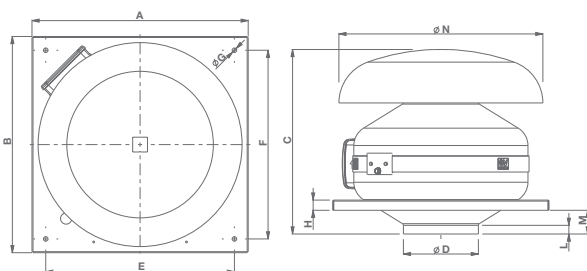
CA MD RF EP RANGE

Centrifugal duct fans for roof mounting

CA MD RF EP RANGE | TECHNICAL DATA FOR REGULATION N° 1254/2014/UE

	Models	CA 160 MD E RF	CA 200 MD E RF	CA 250 MD E RF	CA 315 MD E RF
	Code	16241	16242	16243	16244
Supplier's name or trade mark	-	Vortice	Vortice	Vortice	Vortice
Nominal NRVU flow rate	m³/s	0,13794	0,13794	0,21314	0,21992
Effective electric power input [kW]	kW	0,087	0,094	0,147	0,147
Declared typology	-	NRVU-U	NRVU-U	NRVU-U	NRVU-U
Type of drive	-	MSD	MSD	MSD	MSD
Type of heat recovery system HRS	-	None	None	None	None
SFPint	W/(m³/h)	541,51	239,18	-911,31	-1087,6
Face velocity at design flow rate	m/s	6,9	4,4	4,3	2,8
Nominal external pressure (?ps, ext) [Pa]	Pa	39	128	716	775
Internal pressure drop of ventilation components (?ps,int)		238	69	-408	-480
Internal pressure drop of non-ventilation components (?ps,add)		0	0	0	0
Static efficiency of fans used in accordance with Regulation (EU) N. 327/2011	%	44	28,8	44,7	44,1
Declared maximum internal leakage rate of the casing of ventilation units		N.A.	N.A.	N.A.	N.A.
Declared maximum external leakage rate of the casing of ventilation units		N.A.	N.A.	N.A.	N.A.
Energy performance energy or classification of the filters	-	N.A.	N.A.	N.A.	N.A.
Description of visual filter warning	-	-	-	-	-
Casing sound power level	LWA [dB(A)]	45	32	32	44








* RVU-U: Unit Ventilation Residential - Unidirectional
 ** NRVU-U: Unit Ventilation Non Residential - Unidirectional
 *** MSD: Multi-Speed Drive

DIMENSIONS


Models	A	B	C	Ø D	E	F	Ø G	H	L	M	Ø N
CA 100 MD E RF	334	334	305	97	280	280	9	20	15	35	300
CA 125 MD E RF				122					23		
CA 150 Q MD E RF				147					30		
CA 150 MD E RF	424	424	365	147	370	370	9	20	17	47	400
CA 160 MD E RF				157					18		
CA 200 MD E RF				197					20		
CA 250 MD E RF	489	489	367	247	435	435	9	20	38	41	534
CA 315 MD E RF				415					312		

Dimensions (mm)

CA MD RF EP RANGE | TECHNICAL DATA FOR REGULATION N° 1254/2014/UE

	Description	Code	Product
	C HCS Environmental sensor for humidity	12994	All products
	C PIR Passive infrared sensor	12998	
	C SMOKE Environmental sensor for air quality	12993	
	C TEMP Environmental sensor for temperature	12992	
	C TIMER Adjustable over-run timer	12999	
	CA-G 100 Protection grille nominal diameter 100 mm	22750	16237
	CA-G 125 Protection grille nominal diameter 125 mm	22755	16238
	CA-G 150 Protection grille nominal diameter 150 mm	22760	16239 - 16240
	CA-G 160 Protection grille nominal diameter 160 mm	22762	16241
	CA-G 200 Protection grille nominal diameter 200 mm	22765	16242
	CA-G 250 Protection grille nominal diameter 250 mm	22770	16243
	CA-G 315 Protection grille nominal diameter 315 mm	22775	16244
	CARF-C 125 Sub-frame	22543	16237 - 16238 - 16239
	CARF-C 150-160-200 Sub-frame	22544	16240 - 16241 - 16242
	CARF-C 250-315 Sub-frame	22545	16243 - 16244

Description and size on page 52; System components on page 54

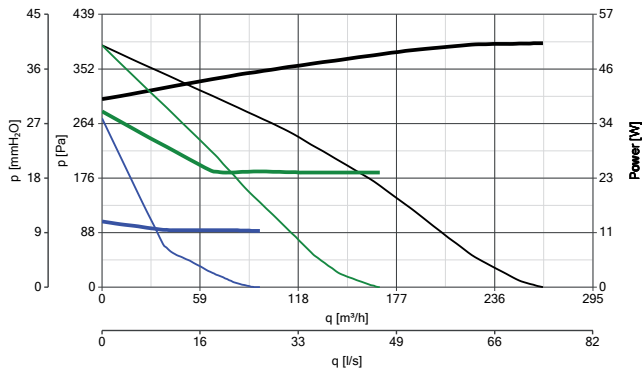


CA MD RF EP RANGE

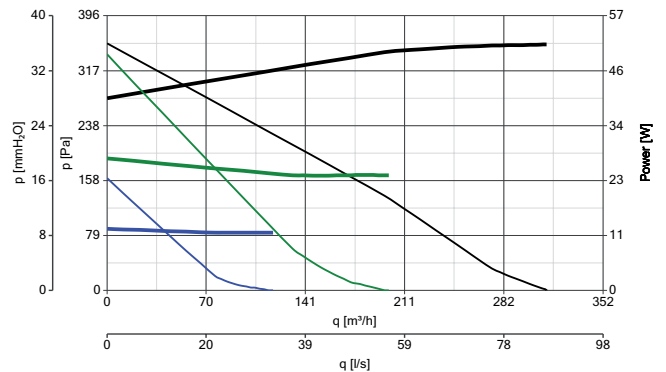
Centrifugal duct fans for roof mounting

PERFORMANCE CURVES

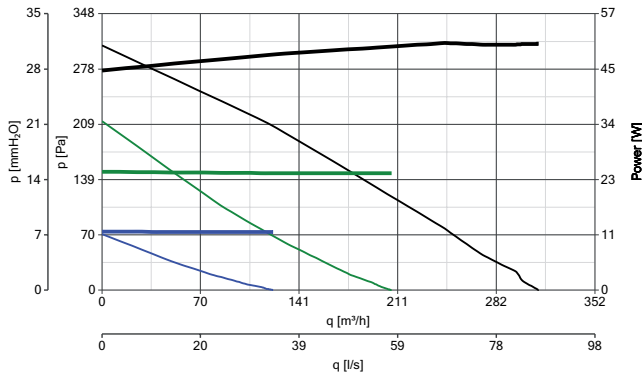
CA 100 MD RF EP cod. 16237



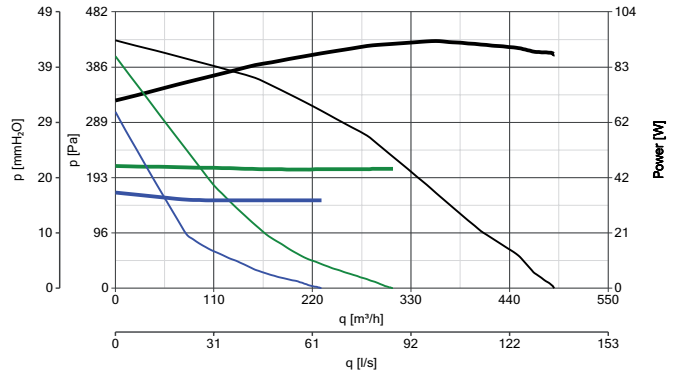
CA 125 MD RF EP cod. 16238



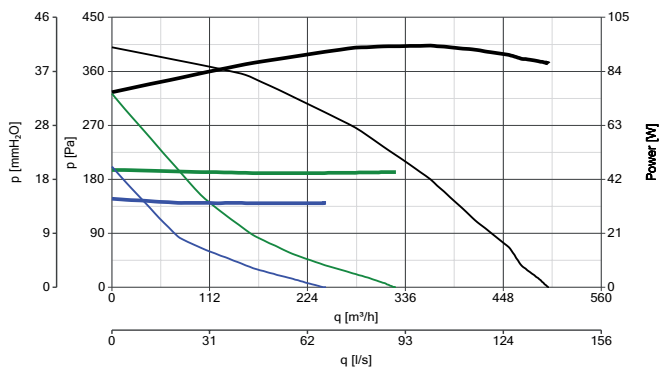
CA 150 Q MD RF EP cod. 16239



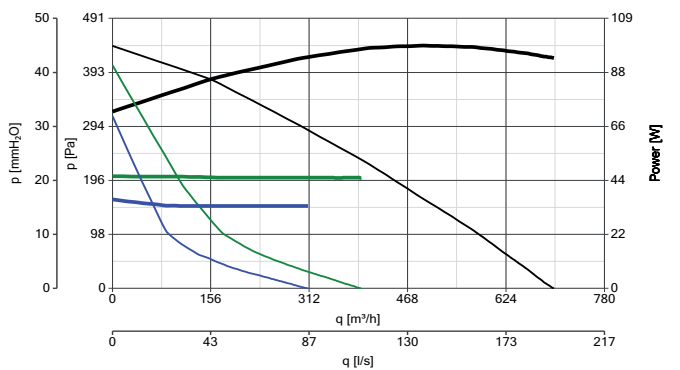
CA 150 MD RF EP cod. 16240



CA 160 MD RF EP cod. 16241

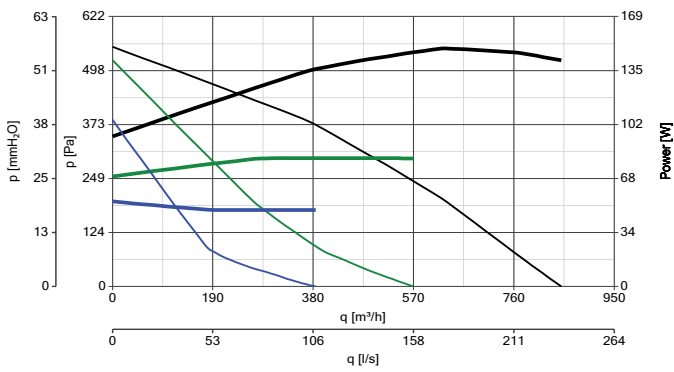


CA 200 MD RF EP cod. 16242

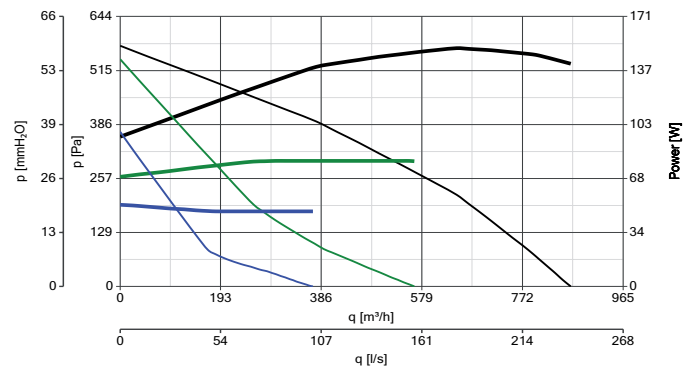


PERFORMANCE CURVES

CA 250 MD RF EP cod. 16243



CA 315 MD RF EP cod. 16244



POWER CONSUMPTION

- max
- med
- min

PERFORMANCE CURVES

- max
- med
- min

ACCESSORIES IN-LINE

INCLUDED

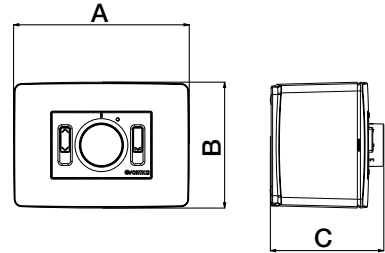


Remote control unit
 Supplied to range CA MD EP, CA V0 EP, CA WE D EP,
 CA MD W EP E CA MD RF EP.

The remote control unit is able the switching ON and OFF of the product;
 It allows to select the speed (1 to 3).

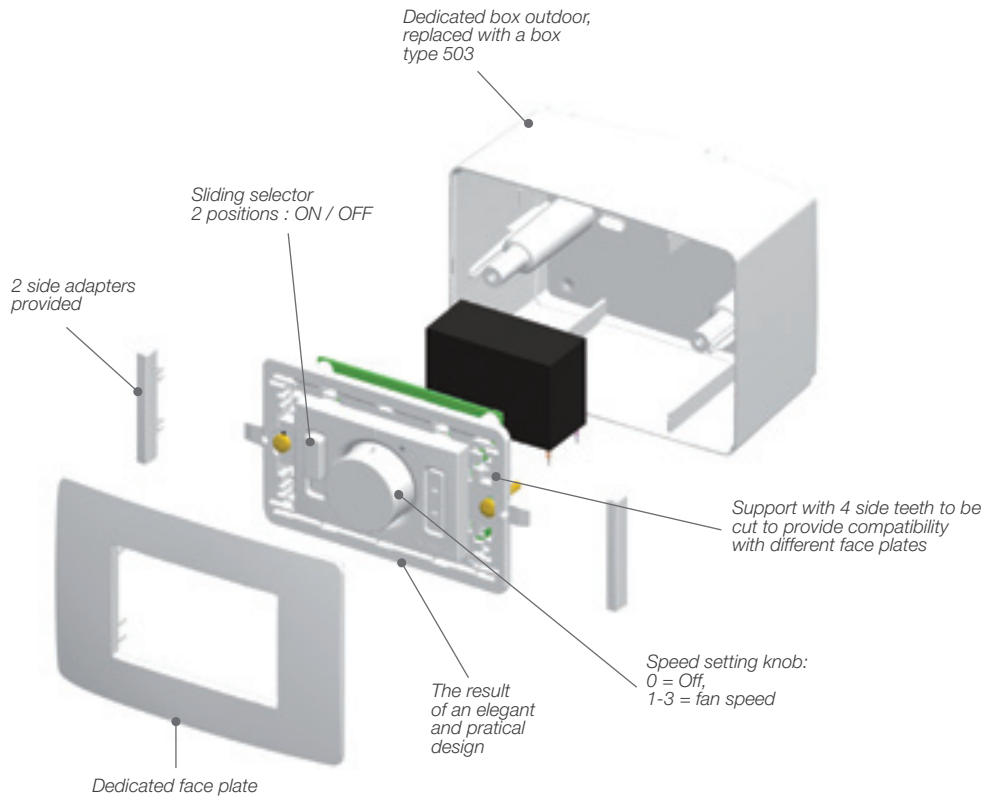
V~50/60Hz	Max A	Kg	Insulation class	IP
230-240	2	0.25	Cl.II	20

Description



A	B	C
116	83	75

Dimensions (mm)



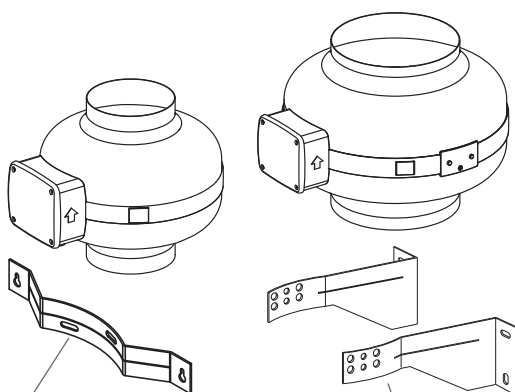
INCLUDED

Description

BRACKETS

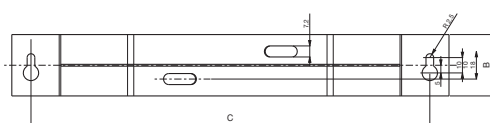
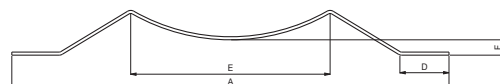
Galvanised sheet-metal brackets
for CA MD, CA ES, CA MD EP and CA V0 EP range.

For models: CA MD - CA ES Ø 100-125-150;
CA MD EP Ø 100-125; CA Q MD EP Ø 150



For models:
CA MD Ø 100-125-150
CA ES Ø 100-125-150
CA MD EP Ø 100-125
CA Q MD EP Ø 150

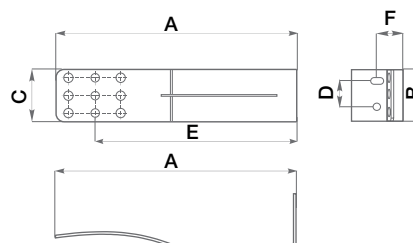
For models:
CA MD Ø 150-160-200-250-315
CA MD E Ø 150-160-200-250-315
CA ES Ø 150-160-200-250-315
CA MD EP Ø 150-160-200-250-315
CA V0 Ø 200-250-315
CA V0 Q EP Ø 200



Models	A	B	C	D	E	F
brackets	285	40	260	32	130	10

Dimensions (mm)

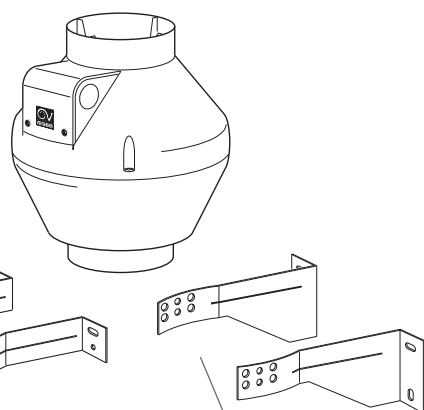
For models CA V0 Ø 100-125-150; CA V0 D EP Ø 100-125-150



Models	A	B	C	D	E	F
brackets	186	40	40	20	156	10

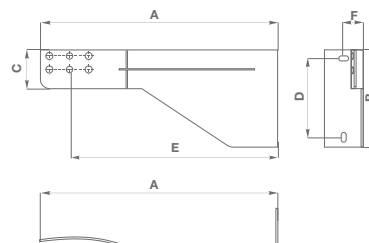
Dimensions (mm)

For models: CA MD Ø 150-160-200-250-315;
CA MD E Ø 150-160-200-250-315; CA ES Ø 150-160-200-250-315;
CA MD EP Ø 150-160-200-250-315
CA V0 Ø 200-250-315; CA V0 Q EP Ø 200



For models:
CA V0 Ø 100-125-150;
CA V0 D EP Ø 100-125-150

For models:
CA 200 V0 Q EP (cod. 16219)
CA 200 V0 EP (cod. 16220)
CA 250 V0 EP (cod. 16221)
CA 315 V0 EP (cod. 16222)



Models	A	B	C	D	E	F
brackets	245	100	40	80	215	10


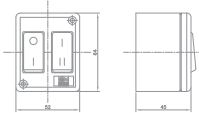

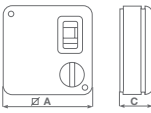

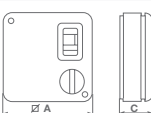

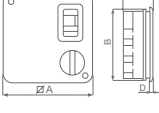
Dimensions (mm)

ACCESSORIES IN-LINE






PRODUCT ACCESSORIES

		Description	Code																																									
	<p>CA-MU Galvanized sheet-metal brackets - For wall or ceiling mounting</p>		<table border="1"> <thead> <tr> <th>A</th> <th>Ø B</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>84</td> <td>75</td> <td>35</td> </tr> </tbody> </table> <p>Dimensions (mm)</p>	A	Ø B	C	84	75	35	<p>22674</p>																																		
A	Ø B	C																																										
84	75	35																																										
	<p>CA-G Protection grille - Fitted to the appliance intake to prevent accidental contact with moving parts if the appliance is installed in an accessible position (STANDARD EN 294)</p>		<table border="1"> <thead> <tr> <th>Models</th> <th>Code</th> <th>Ø A</th> <th>Ø B</th> <th>N. fiss.</th> </tr> </thead> <tbody> <tr> <td>CA-G 100</td> <td>22750</td> <td>82</td> <td>99</td> <td>3X120°</td> </tr> <tr> <td>CA-G 125</td> <td>22755</td> <td>102</td> <td>124</td> <td>3X120°</td> </tr> <tr> <td>CA-G 150</td> <td>22760</td> <td>142</td> <td>149</td> <td>3X120°</td> </tr> <tr> <td>CA-G 160</td> <td>22762</td> <td></td> <td></td> <td>3X120°</td> </tr> <tr> <td>CA-G 200</td> <td>22765</td> <td>142</td> <td>183</td> <td>3X120°</td> </tr> <tr> <td>CA-G 250</td> <td>22770</td> <td>182</td> <td>220</td> <td>3X120°</td> </tr> <tr> <td>CA-G 315</td> <td>22775</td> <td>222</td> <td>260</td> <td>3X120°</td> </tr> </tbody> </table> <p>Dimensions (mm)</p>	Models	Code	Ø A	Ø B	N. fiss.	CA-G 100	22750	82	99	3X120°	CA-G 125	22755	102	124	3X120°	CA-G 150	22760	142	149	3X120°	CA-G 160	22762			3X120°	CA-G 200	22765	142	183	3X120°	CA-G 250	22770	182	220	3X120°	CA-G 315	22775	222	260	3X120°	<p>22750 22755 22760 22762 22765 22770 22775</p>
Models	Code	Ø A	Ø B	N. fiss.																																								
CA-G 100	22750	82	99	3X120°																																								
CA-G 125	22755	102	124	3X120°																																								
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CA-G 200	22765	142	183	3X120°																																								
CA-G 250	22770	182	220	3X120°																																								
CA-G 315	22775	222	260	3X120°																																								
	<p>LINEO-G Protection grille (not suitable for Lineo ES) - To be mounted directly on the product at inlet/outlet - Useful for safety and to protect the product from external bodies. - Totally manufactured from steel. black epoxy powder coated for perfect weather protection</p>		<table border="1"> <thead> <tr> <th>Models</th> <th>Code</th> <th>Ø A</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>LINEO-G 100</td> <td>22701</td> <td>101</td> <td>29</td> </tr> <tr> <td>LINEO-G 125</td> <td>22702</td> <td>127</td> <td>29</td> </tr> <tr> <td>LINEO-G 150</td> <td>22703</td> <td>151</td> <td>35.5</td> </tr> <tr> <td>LINEO-G 160</td> <td>22704</td> <td>161</td> <td>34</td> </tr> <tr> <td>LINEO-G 200</td> <td>22705</td> <td>201</td> <td>42</td> </tr> <tr> <td>LINEO-G 250</td> <td>22706</td> <td>255</td> <td>50.5</td> </tr> </tbody> </table> <p>Dimensions (mm)</p>	Models	Code	Ø A	C	LINEO-G 100	22701	101	29	LINEO-G 125	22702	127	29	LINEO-G 150	22703	151	35.5	LINEO-G 160	22704	161	34	LINEO-G 200	22705	201	42	LINEO-G 250	22706	255	50.5	<p>22701 22702 22703 22704 22705 22706</p>												
Models	Code	Ø A	C																																									
LINEO-G 100	22701	101	29																																									
LINEO-G 125	22702	127	29																																									
LINEO-G 150	22703	151	35.5																																									
LINEO-G 160	22704	161	34																																									
LINEO-G 200	22705	201	42																																									
LINEO-G 250	22706	255	50.5																																									

SPEED CONTROLLERS

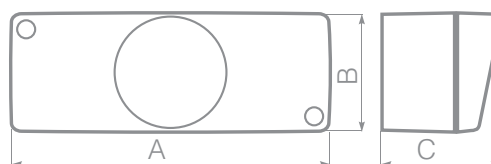
	Description	Code												
	<p>DUO Speed controller</p> <ul style="list-style-type: none"> - Two speeds switch - On/off switch  <table border="1"> <thead> <tr> <th>Models</th> <th>Code</th> <th>∅ A</th> <th>B</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>DUO</td> <td>22914</td> <td>52</td> <td>64</td> <td>45</td> </tr> </tbody> </table> <p>Dimensions (mm)</p>	Models	Code	∅ A	B	C	DUO	22914	52	64	45	22914		
Models	Code	∅ A	B	C										
DUO	22914	52	64	45										
	<p>C5 0.5 5 Position Speed Controller</p> <ul style="list-style-type: none"> - 5 speeds controller - Not suitable for timer, automatic, automatic timer and cord operated appliances - Convertible to flush-mounted using SCB5 kit - Weight 0.2 Kg - Double insulation  <table border="1"> <thead> <tr> <th>Models</th> <th>Code</th> <th>∅ A</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>C5 0.5</td> <td>12987</td> <td>120</td> <td>43</td> </tr> </tbody> </table> <p>Dimensions (mm)</p>	Models	Code	∅ A	C	C5 0.5	12987	120	43	12987				
Models	Code	∅ A	C											
C5 0.5	12987	120	43											
	<p>C 1.5 - C 2.5 Non Reversible Variable Electronic Speed Controller</p> <ul style="list-style-type: none"> - Not suitable for products with timer or automatic shutters - Convertible to flush-mounted using SCB5 kit - Weight 0.2 Kg - Maximum load: 200 W (for C 1.5) 450 W (for C 2.5) - Double insulation  <table border="1"> <thead> <tr> <th>Models</th> <th>Code</th> <th>∅ A</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>C 1.5</td> <td>12966</td> <td>120</td> <td>43</td> </tr> <tr> <td>C 2.5</td> <td>12967</td> <td>120</td> <td>43</td> </tr> </tbody> </table> <p>Dimensions (mm)</p>	Models	Code	∅ A	C	C 1.5	12966	120	43	C 2.5	12967	120	43	12966 12967
Models	Code	∅ A	C											
C 1.5	12966	120	43											
C 2.5	12967	120	43											
	<p>SCNRB Non Reversible Variable Electronic Speed Controller (built-in)</p> <ul style="list-style-type: none"> - Not suitable for products with timer or automatic shutters - Weight 0.2 Kg - Maximum load: 200 W - Double insulation  <table border="1"> <thead> <tr> <th>∅ A</th> <th>B</th> <th>C</th> <th>D</th> </tr> </thead> <tbody> <tr> <td>142</td> <td>135</td> <td>59.5</td> <td>4.5</td> </tr> </tbody> </table> <p>Dimensions (mm)</p>	∅ A	B	C	D	142	135	59.5	4.5	12971				
∅ A	B	C	D											
142	135	59.5	4.5											

ENVIRONMENTAL SENSOR

	Description	Code
	<p>C TEMP - Checks the temperature of the surrounding air: the extractor fan is activated automatically when a certain temperature is recorded; this can be adjusted, using an external trimmer, to a value between 10°C and 40°C above the set threshold. A timer keeps it running after the temperature has fallen below the set threshold, for a period of time which can be adjusted to a value between 3 and 20 minutes using a built-in trimmer.</p>	12992
	<p>C SMOKE - Checks the quality of the air when the air contains cigarette smoke, odours and other pollutants: the extractor fan is activated automatically when a concentration of odours higher than the set value is detected; this value can be adjusted using an external trimmer. A pre-set timer, which can be adjusted to a value between 3 and 20 minutes using a built-in trimmer, keeps the extractor fan running for the desired period of time.</p>	12993
	<p>C HCS - Checks the relative humidity of the air: the extractor fan is activated automatically when the relative humidity percentage exceeds 65%. Otherwise, the appliance starts automatically a few seconds after the light is switched on and continues to run for a set time after it has been switched off again; this time period can be adjusted to a value between 3 and 20 minutes using a built-in trimmer.</p>	12994
	<p>C PIR - Checks for human motion in the room: the extractor fan is activated automatically for a specified time period, which can be adjusted between 3 and 20 minutes using a trimmer, when human movement is detected in its range.</p>	12998
	<p>C TIMER - Checks the operating time of the appliance to which it is connected: the extractor fan is activated automatically a few seconds after the light is switched on and continues to run for a set time, which can be adjusted to a value between 3 and 20 minutes using a built-in trimmer, after it has been switched off again.</p>	12999

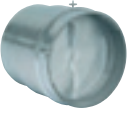
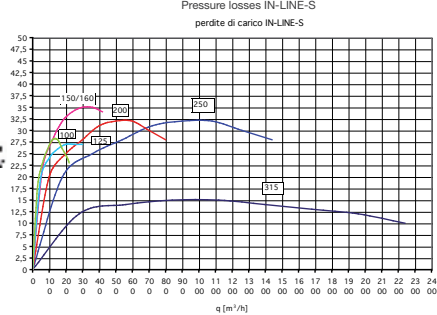
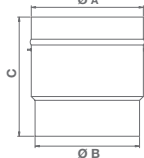

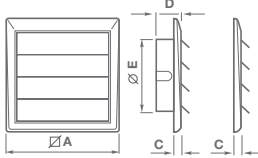

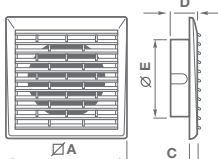

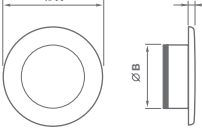


DIMENSIONS (mm)

Code	Models	A	B	C
12992	C TEMP	144	54	55.8
12993	C SMOKE			
12994	C HCS			
12998	C PIR			
12999	C TIMER			



SYSTEM COMPONENTS

		Description	Code																																																																
	<p>NA Noise attenuator - To be installed in the ventilation system, always after the fan, and/or the filter box/duct heater</p>		<table border="1"> <thead> <tr> <th>Models</th> <th>Code</th> <th>Ø A</th> <th>Ø B</th> <th>C</th> <th>D</th> </tr> </thead> <tbody> <tr> <td>NA 100</td> <td>22780</td> <td>211</td> <td>100</td> <td>1000</td> <td>60</td> </tr> <tr> <td>NA 125</td> <td>22781</td> <td>241</td> <td>125</td> <td>1000</td> <td>60</td> </tr> <tr> <td>NA 150</td> <td>22756</td> <td>266</td> <td>150</td> <td>1000</td> <td>60</td> </tr> <tr> <td>NA 200</td> <td>22784</td> <td>316</td> <td>200</td> <td>1000</td> <td>60</td> </tr> <tr> <td>NA 250</td> <td>22785</td> <td>367</td> <td>250</td> <td>1000</td> <td>60</td> </tr> <tr> <td>NA 315</td> <td>22786</td> <td>417</td> <td>315</td> <td>1000</td> <td>60</td> </tr> </tbody> </table>	Models	Code	Ø A	Ø B	C	D	NA 100	22780	211	100	1000	60	NA 125	22781	241	125	1000	60	NA 150	22756	266	150	1000	60	NA 200	22784	316	200	1000	60	NA 250	22785	367	250	1000	60	NA 315	22786	417	315	1000	60																						
			Models	Code	Ø A	Ø B	C	D																																																											
NA 100	22780	211	100	1000	60																																																														
NA 125	22781	241	125	1000	60																																																														
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NA 250	22785	367	250	1000	60																																																														
NA 315	22786	417	315	1000	60																																																														
<p>Dimensions (mm)</p>																																																																			
	<p>AFD Aluminium flexible duct - Ideal for ventilation and air conditioning low noise and for high pressure.</p>		<table border="1"> <thead> <tr> <th>Models</th> <th>Code</th> <th>Ø A</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>AFD 100-4</td> <td>22175</td> <td>102</td> <td>4000</td> </tr> <tr> <td>AFD 125-4</td> <td>22176</td> <td>127</td> <td>4000</td> </tr> <tr> <td>AFD 150-4</td> <td>22177</td> <td>152</td> <td>4000</td> </tr> <tr> <td>AFD 200-10</td> <td>22179</td> <td>203</td> <td>10000</td> </tr> <tr> <td>AFD 250-10</td> <td>22180</td> <td>254</td> <td>10000</td> </tr> <tr> <td>AFD 315-10</td> <td>22181</td> <td>315</td> <td>10000</td> </tr> </tbody> </table>	Models	Code	Ø A	C	AFD 100-4	22175	102	4000	AFD 125-4	22176	127	4000	AFD 150-4	22177	152	4000	AFD 200-10	22179	203	10000	AFD 250-10	22180	254	10000	AFD 315-10	22181	315	10000																																				
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AFD 100-4	22175	102	4000																																																																
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	<p>AFD-I Insulated aluminium flexible duct - Ideal for ventilation and air conditioning, low heat dissipation, condensation, noise and for high pressure</p>		<table border="1"> <thead> <tr> <th>Models</th> <th>Code</th> <th>Ø A</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>AFD-I 100-4</td> <td>22182</td> <td>102</td> <td>4000</td> </tr> <tr> <td>AFD-I 125-4</td> <td>22183</td> <td>127</td> <td>4000</td> </tr> <tr> <td>AFD-I 150-4</td> <td>22184</td> <td>152</td> <td>4000</td> </tr> <tr> <td>AFD-I 200-10</td> <td>22186</td> <td>203</td> <td>10000</td> </tr> <tr> <td>AFD-I 250-10</td> <td>22187</td> <td>254</td> <td>10000</td> </tr> <tr> <td>AFD-I 315-10</td> <td>22188</td> <td>315</td> <td>10000</td> </tr> </tbody> </table>	Models	Code	Ø A	C	AFD-I 100-4	22182	102	4000	AFD-I 125-4	22183	127	4000	AFD-I 150-4	22184	152	4000	AFD-I 200-10	22186	203	10000	AFD-I 250-10	22187	254	10000	AFD-I 315-10	22188	315	10000																																				
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02/16

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