



60
1954 | 2014

www.vortice.com

IN-LINE FANS

COMMERCIAL
VENTILATION





HEADQUARTERS



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

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.

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



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



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



2010 - Our Moscow representative office was established.



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



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

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VORTICE

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CE MARKING

Commercial Ventilation appliances conform to the following European Directives:

- 2006/42/EC Machines Directive (MD)
- 2006/95/EC Low Voltage Directive (LVD)
- 2004/108/EC Electromagnetic Compatibility Directive (EMC)
- 2009/125/EC ErP Directive, Ecocompatible design of energy-related products in accordance with EU regulation 327/2011.

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

EMC:

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

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.

TIMER

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



LONG LIFE 30.000 h

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.



NEW

VORTICE LINEO V0 RANGE

In-line mixed flow fans

PRODUCT SPECIFICATIONS



LONG LIFE 30.000 h

TIMER



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. □

TECHNICAL DATA

Models	Code	W		A		RPM		Max Airflow				Max Pressure				Lp dB(A)*		Max °C
		min	max	min	max	min	max	m³/h		l/s		mmH₂O		Pa		min	max	
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
VORTICE LINEO 100 Q T V0	17025																	
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	
VORTICE LINEO 100 T V0	17021																	
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	
VORTICE LINEO 125 T V0	17022																	
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	
VORTICE LINEO 150 T V0	17023																	
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	
VORTICE LINEO 160 T V0	17024																	
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	
VORTICE LINEO 200 Q T V0	17028																	
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	
VORTICE LINEO 250 Q T V0	17029																	
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	
VORTICE LINEO 200 T V0	17026																	
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	
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	

Available only
for the Extra
EU market**

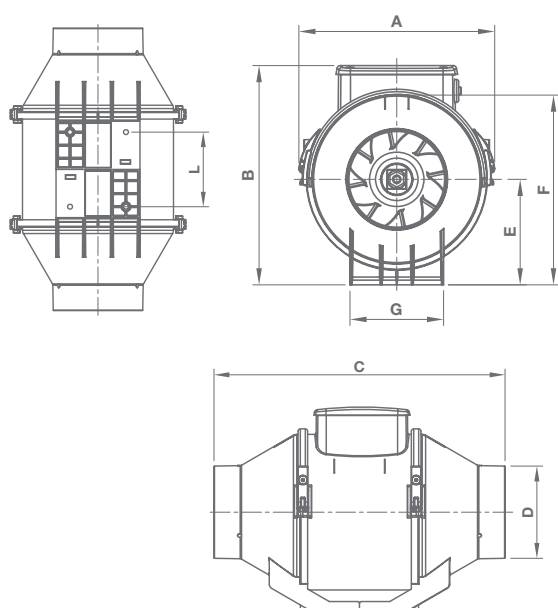
* Sound pressure level measured at 3 m in free field conditions with long-cased appliance in delivery mode, in accordance with standard EN ISO 3741:2009.

Electric supply: 220-240 V ~ 50 Hz.





DIMENSIONS



Models	A	B	C	Ø D	E	F	G	L	Kg
VORTICE LINEO 100 Q V0	156	174	231	96	82	152	95	47.5	1.25
VORTICE LINEO 100 Q T V0									
VORTICE LINEO 100 V0	188.5	211	303	96	101.5	189	90	80	1.8
VORTICE LINEO 100 T V0									
VORTICE LINEO 125 V0	188.5	211	258	122	101.5	189	90	80	1.8
VORTICE LINEO 125 T V0									
VORTICE LINEO 150 V0	214.5	234	294	146	112.5	212	110	80	2.4
VORTICE LINEO 150 T V0									
VORTICE LINEO 160 V0	214.5	234	272.5	156	112.5	212	110	80	2.4
VORTICE LINEO 160 T V0									
VORTICE LINEO 200 Q V0	234.5	260.5	300	196	125.5	235	140	100	4.3
VORTICE LINEO 200 Q T V0									
VORTICE LINEO 250 Q V0	300	317	385	247	152.5	292	176.5	145	5.8
VORTICE LINEO 250 Q T V0									
VORTICE LINEO 315 V0	361.5	394.5	448	312	188.5	359	220.5	182	11.3

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).

AS A SINGLE UNIT AT INLET



IN SERIES (DOUBLES PRESSURE)



AS A SINGLE UNIT THROUGH DUCT



IN PARALLEL (DOUBLES AIR FLOW)



AS A SINGLE UNIT AT DUCT OUTLET



IN SERIES + PARALLEL FOR RECTANGULAR DUCTS
(DOUBLES PRESSURE THE AIR FLOW)



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	30	36
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	38	40
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

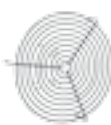
ACCESSORIES FOR SERIES AND PARALLEL INSTALLATION

Models	Description	Code	Product																	
			VORTICE LINEO 100 Q V0 code 17005	VORTICE LINEO 100 Q T V0 code 17025	VORTICE LINEO 100 V0 code 17001	VORTICE LINEO 100 T V0 co de 17021	VORTICE LINEO 125 V0 code 17002	VORTICE LINEO 125 T V0 code 17022	VORTICE LINEO 150 V0 code 17003	VORTICE LINEO 150 T V0 code 17023	VORTICE LINEO 160 V0 code 17004	VORTICE LINEO 160 T V0 code 17024	VORTICE LINEO 200 Q V0 code 17007	VORTICE LINEO 200 Q T V0 code 17028	VORTICE LINEO 200 V0 code 17006	VORTICE LINEO 200 T V0 code 17026	VORTICE LINEO 250 Q V0 code 17027	VORTICE LINEO 250 Q T V0 code 17029	VORTICE LINEO 250 V0 code 17009	VORTICE LINEO 315 V0 code 17010
	LINEO-C 100 Installation kit tube	22584			•	•														
	LINEO-C 125 Installation kit tube	22585					•	•												
	LINEO-C 150 Installation kit tube	22586							•	•										
	LINEO-C 160 Installation kit tube	22587									•	•								
	LINEO-C 200 Installation kit tube	22588											•	•	•	•				
	LINEO-C 250 Installation kit tube	22589																•	•	•
	LINEO-SF 500 Series installation plate	22593			•	•	•	•	•	•	•	•	•	•	•	•				
	LINEO-SF 700 Series installation plate	22594																•	•	•
	LINEO-PF 100 Parallel installation kit (flanges and rails)	22577			•	•														
	LINEO-PF 125 Parallel installation kit (flanges and rails)	22578					•	•												
	LINEO-PF 150 Parallel installation kit (flanges and rails)	22579							•	•										
	LINEO-PF 160 Parallel installation kit (flanges and rails)	22581									•	•								
	LINEO-PF 200 Parallel installation kit (flanges and rails)	22582											•	•	•	•				
	LINEO-PF 250 Parallel installation kit (flanges and rails)	22583																•	•	•

VORTICE LINEO V0 RANGE

In-line mixed flow fans

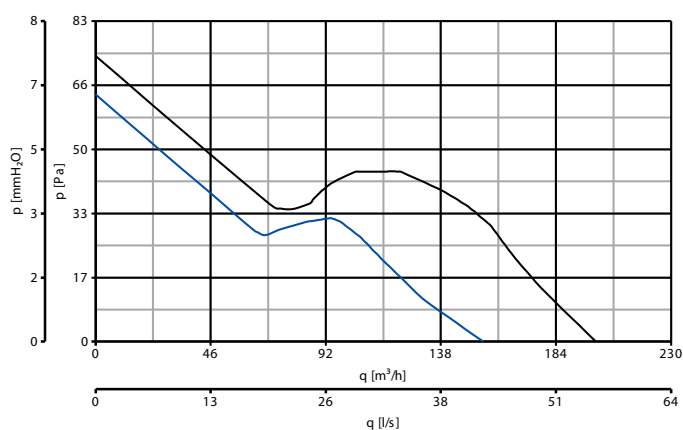
PRODUCT ACCESSORIES

Models	Description	Code	Product																	
			VORTICE LINEO 100 Q V0 code 17005	VORTICE LINEO 100 Q T V0 code 17025	VORTICE LINEO 100 V0 code 17001	VORTICE LINEO 100 T V0 code 17021	VORTICE LINEO 125 V0 code 17002	VORTICE LINEO 125 T V0 code 17022	VORTICE LINEO 150 V0 code 17003	VORTICE LINEO 150 T V0 code 17023	VORTICE LINEO 160 V0 code 17004	VORTICE LINEO 160 T V0 code 17024	VORTICE LINEO 200 Q V0 code 17007	VORTICE LINEO 200 Q T V0 code 17028	VORTICE LINEO 200 V0 code 17006	VORTICE LINEO 200 T V0 code 17026	VORTICE LINEO 250 Q V0 code 17027	VORTICE LINEO 250 Q T V0 code 17029	VORTICE LINEO 250 V0 code 17009	VORTICE LINEO 315 V0 code 17010
	C HCS Environmental sensor for humidity	12994	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	C PIR Passive infrared sensor	12998	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	C SMOKE Environmental sensor for air quality	12993	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	C TEMP Environmental sensor for temperature	12992	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	C TIMER Adjustable over-run timer	12999	•		•		•		•		•		•		•		•		•	•
	DUO Speed controller	22914	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	C5 0.5 Speed controller 0.5 A	12987	•		•		•		•		•		•		•		•		•	•
	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	•	•	•	•														
	LINEO-G 125 Lineo grille nominal diameter 125	22702					•	•												
	LINEO-G 150 Lineo grille nominal diameter 150	22703							•	•										
	LINEO-G 160 Lineo grille nominal diameter 160	22704									•	•								
	LINEO-G 200 Lineo grille nominal diameter 200	22705												•	•	•	•			
	LINEO-G 250 Lineo grille nominal diameter 250	22706																•	•	•

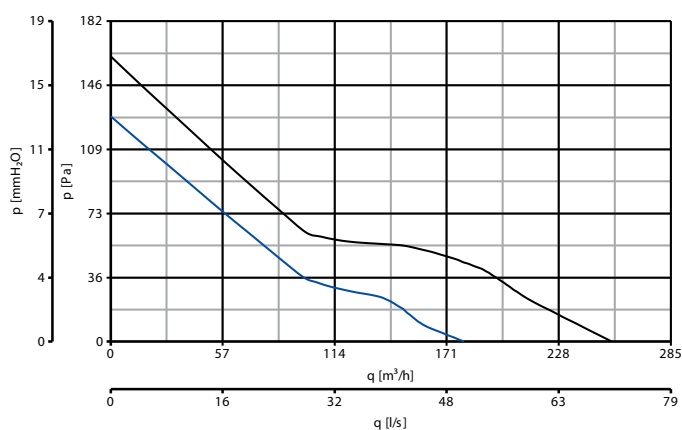
Description and size on page 52; System components on page 54

PERFORMANCE CURVES

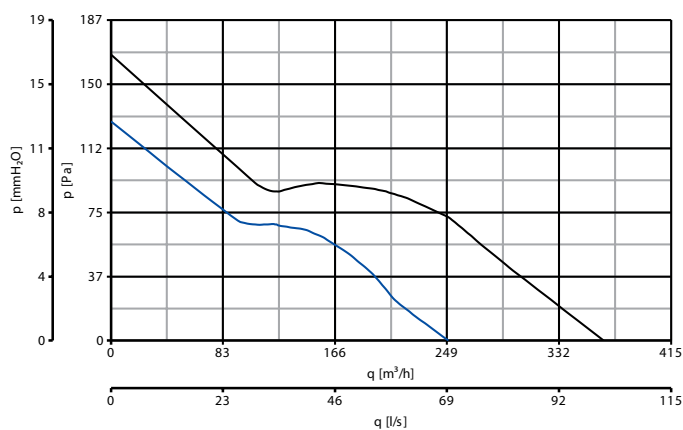
LINEO 100 Q V0 code 17005 - LINEO 100 Q T V0 code 17025



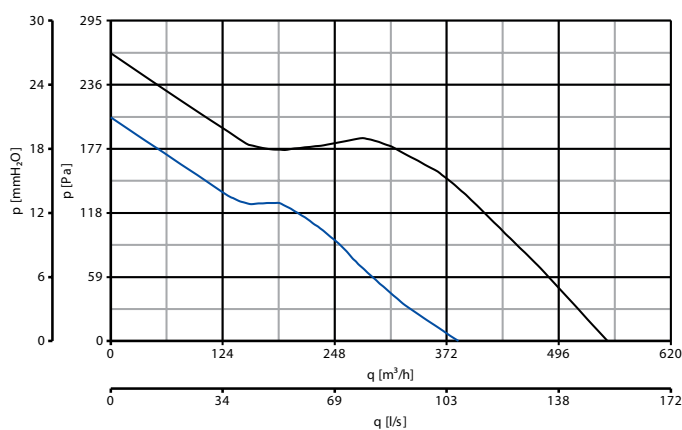
LINEO 100 V0 CODE 17001 - LINEO 100 T V0 CODE 17021



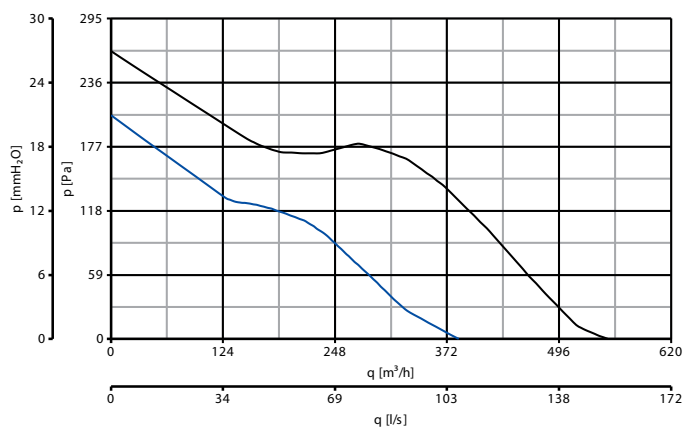
LINEO 125 V0 CODE 17002 - LINEO 125 T V0 CODE 17022



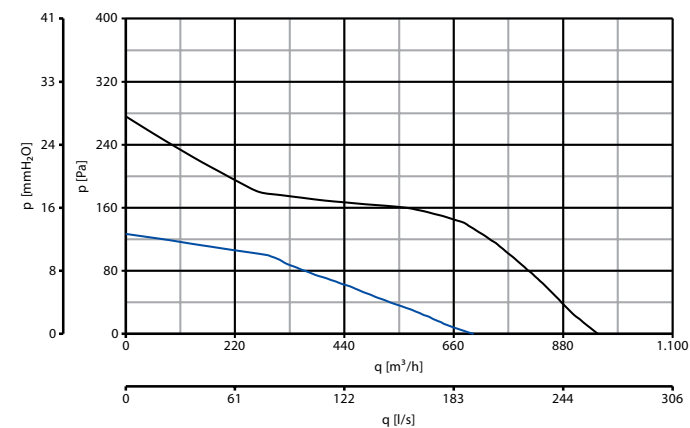
LINEO 150 V0 CODE 17003 - LINEO 150 T V0 CODE 17023



LINEO 160 V0 CODE 17004 - LINEO 160 T V0 CODE 17024



LINEO 200 Q V0 CODE 17007 - LINEO 200 Q T V0 CODE 17028

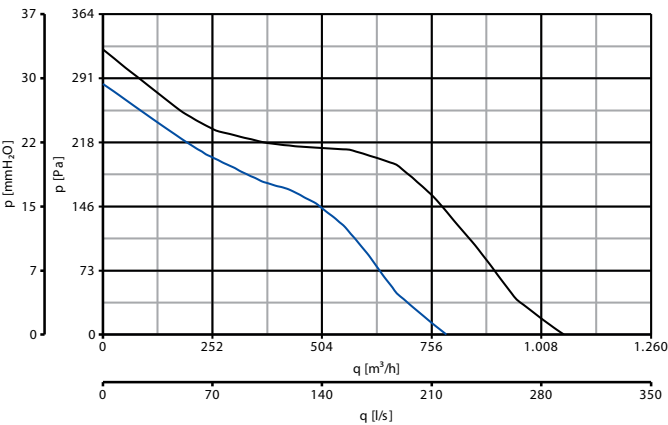


VORTICE LINEO V0 RANGE

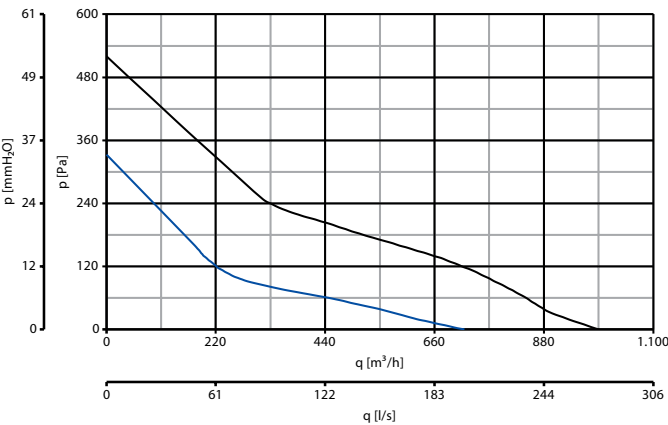
In-line mixed flow fans

PERFORMANCE CURVES

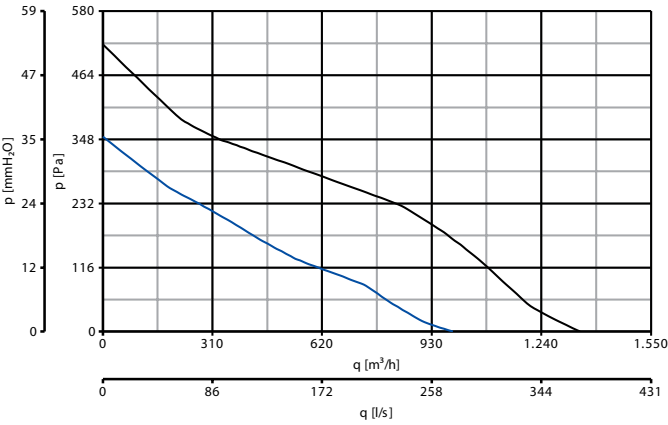
LINEO 200 V0 CODE 17006 - LINEO 200 V0 T CODE 17026



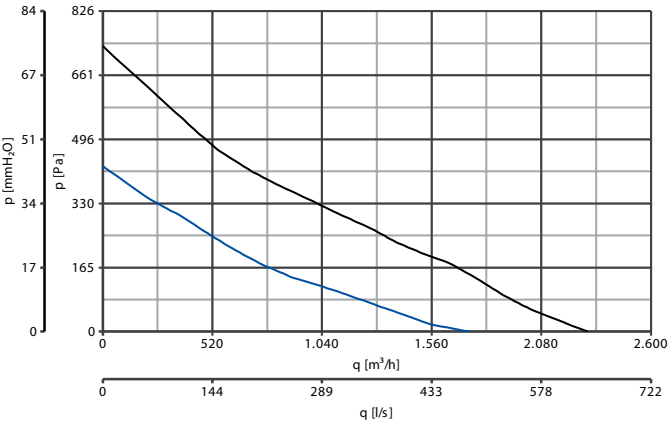
LINEO 250 Q V0 CODE 17027 - LINEO 250 Q T V0 CODE 17029



LINEO 250 V0 CODE 17009



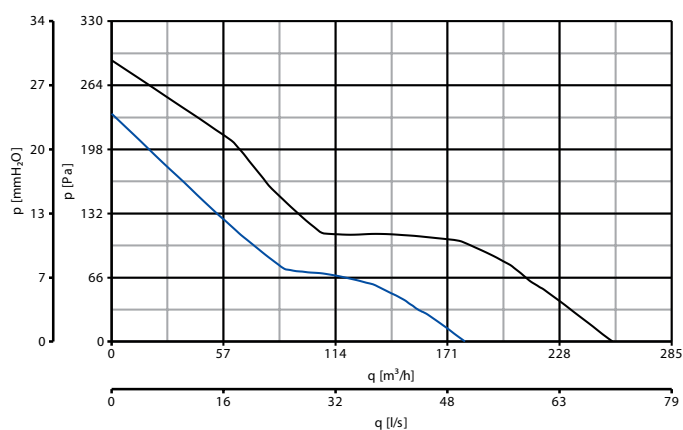
LINEO 315 CODE 17010



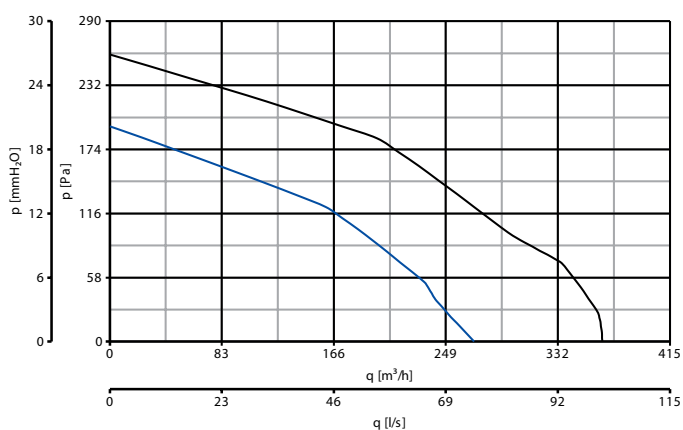
— min. — max.

IN SERIES PERFORMANCE CURVES

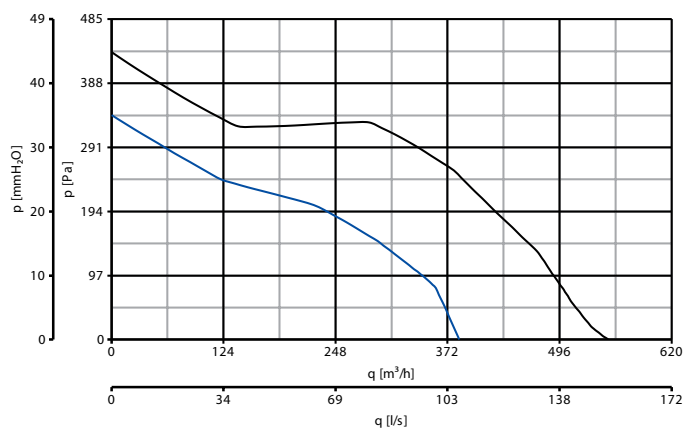
LINEO 100 V0



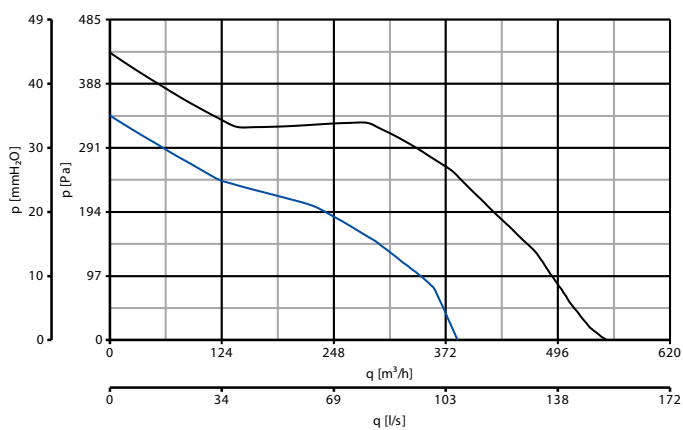
LINEO 125 V0



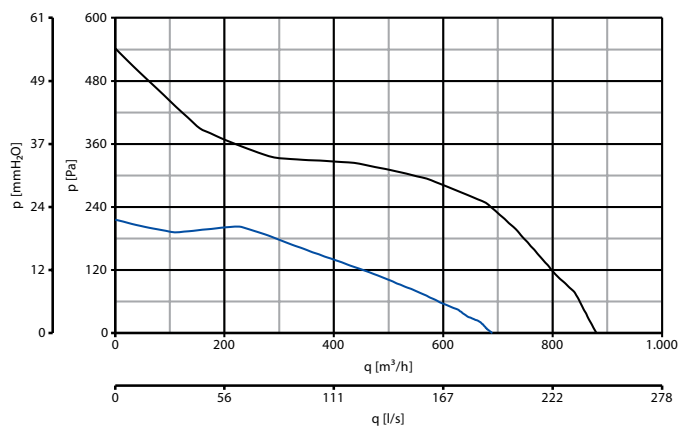
LINEO 150 V0



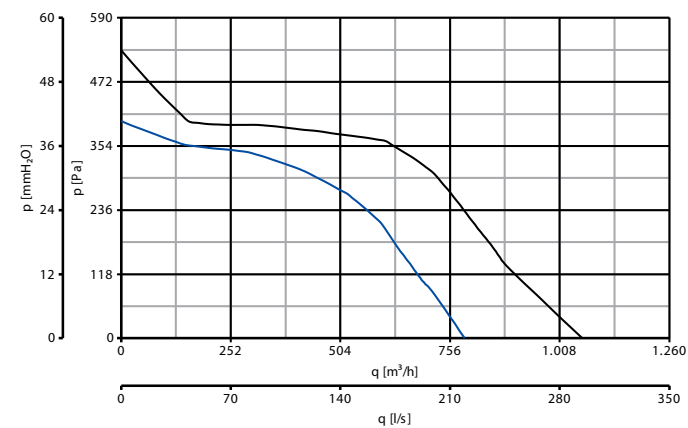
LINEO 160 V0



LINEO 200 Q V0



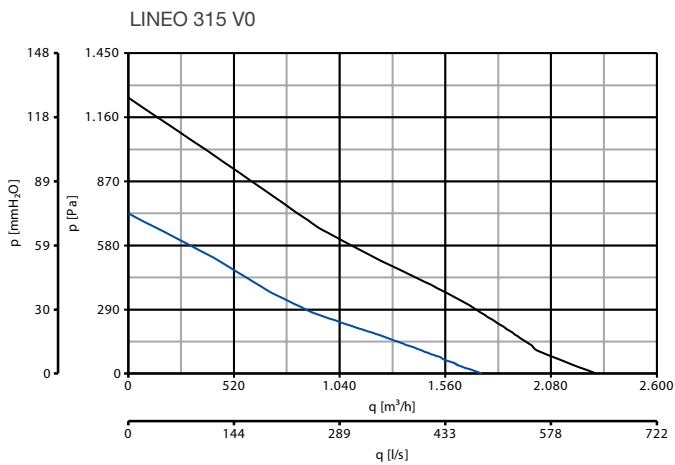
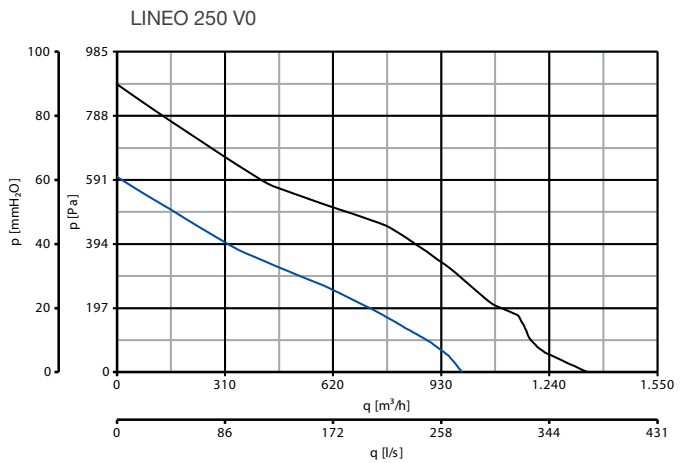
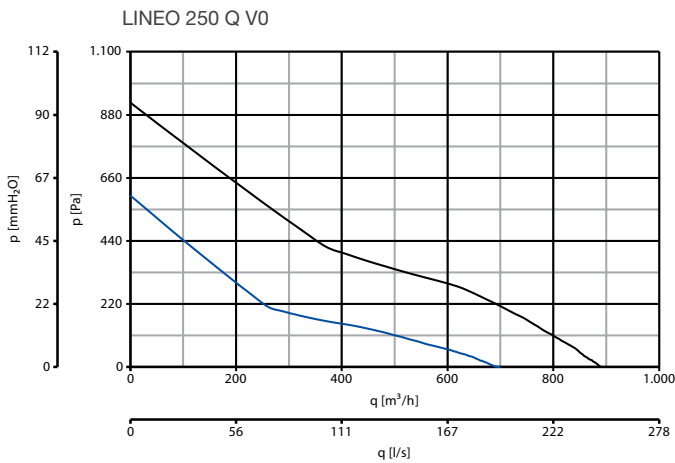
LINEO 200 V0



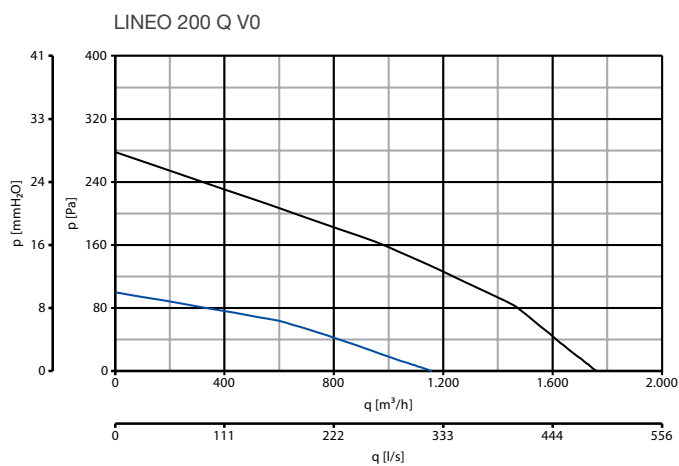
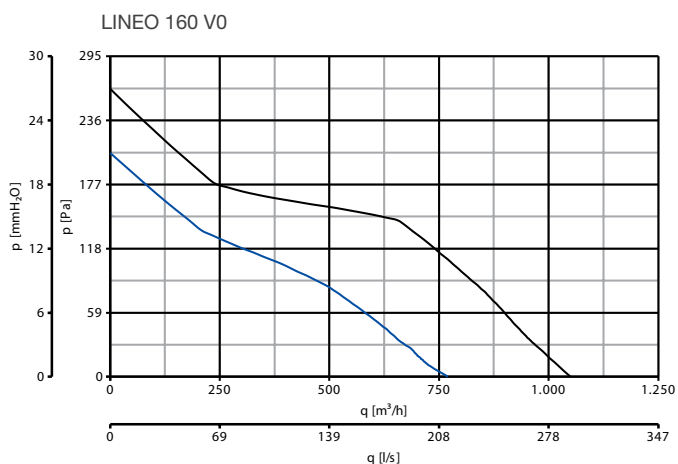
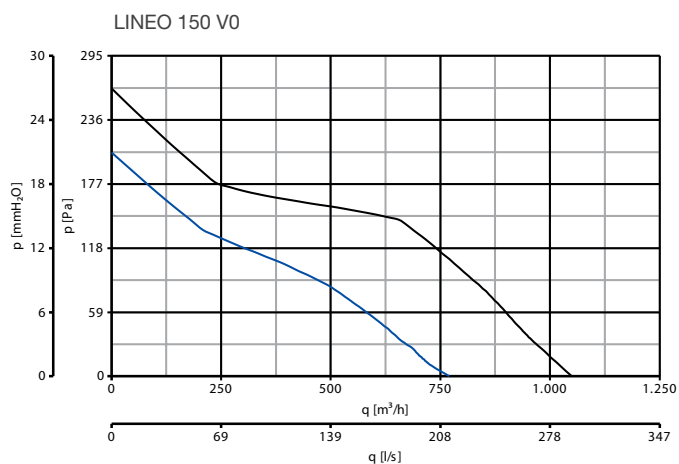
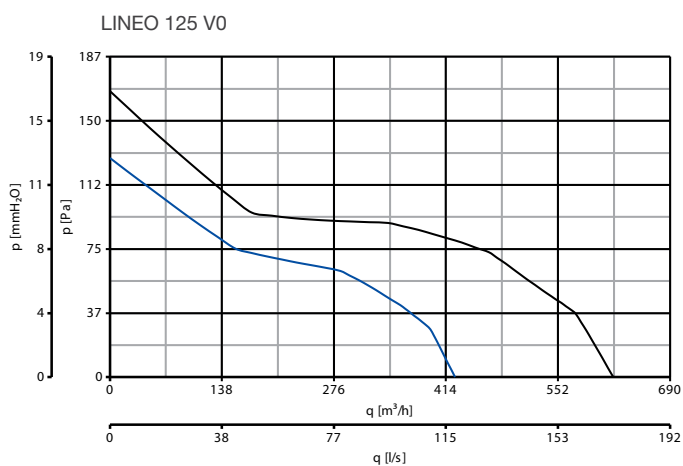
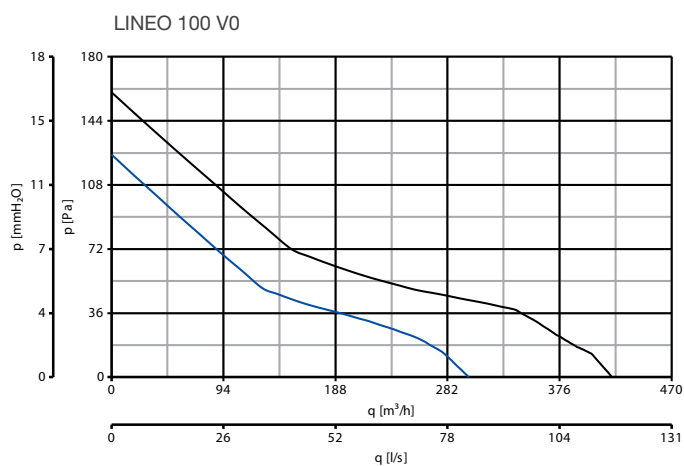
VORTICE LINEO V0 RANGE

In-line mixed flow fans

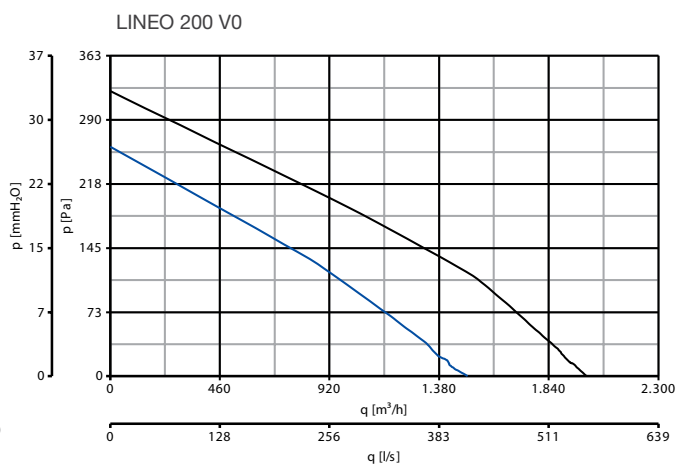
IN SERIES PERFORMANCE CURVES



IN PARALLEL PERFORMANCE CURVES



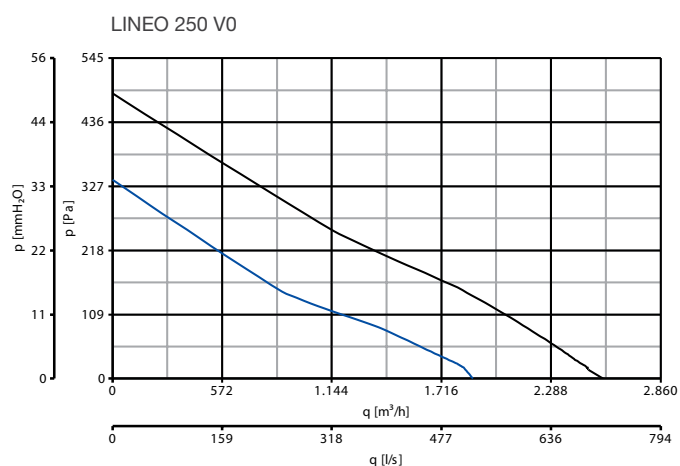
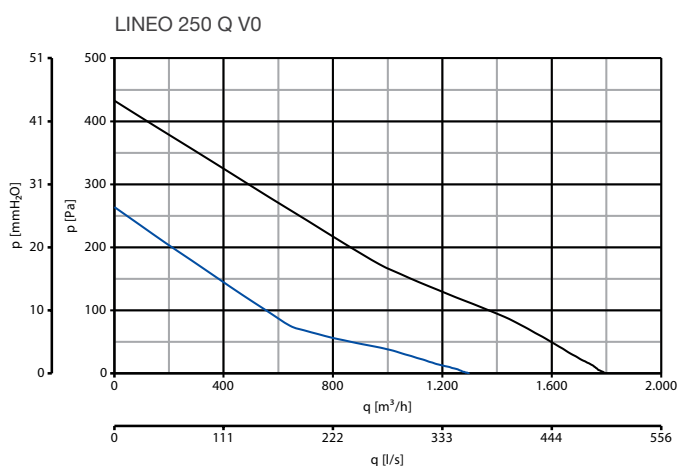
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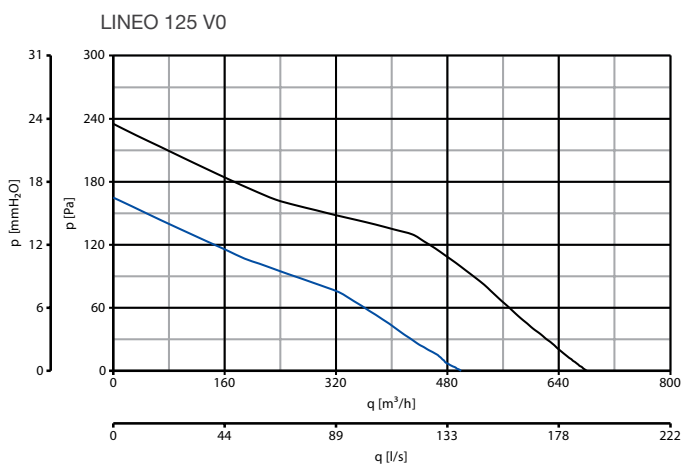
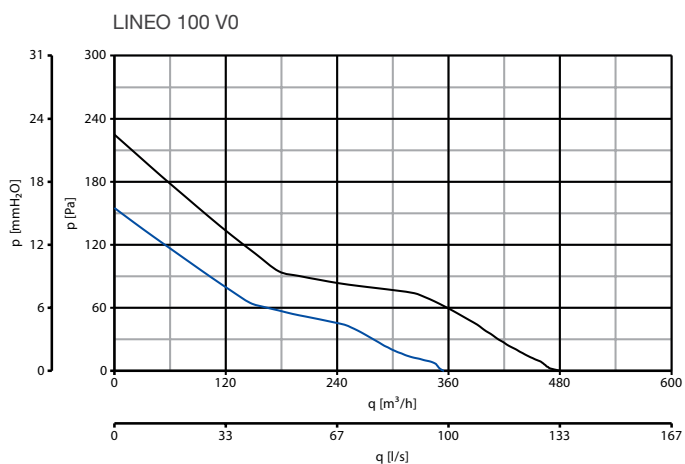
VORTICE LINEO V0 RANGE

In-line mixed flow fans

IN SERIES PERFORMANCE CURVES

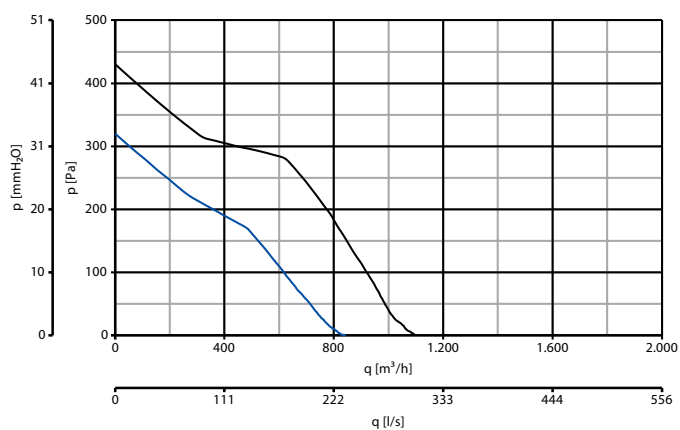


IN SERIES + PARALLEL PERFORMANCE CURVES

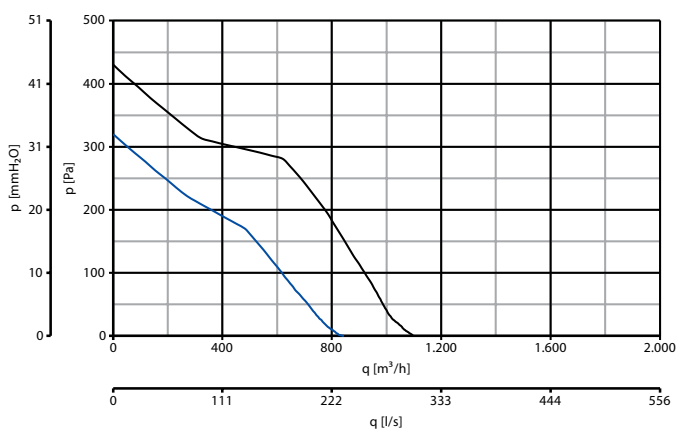


IN SERIES + PARALLEL PERFORMANCE CURVES

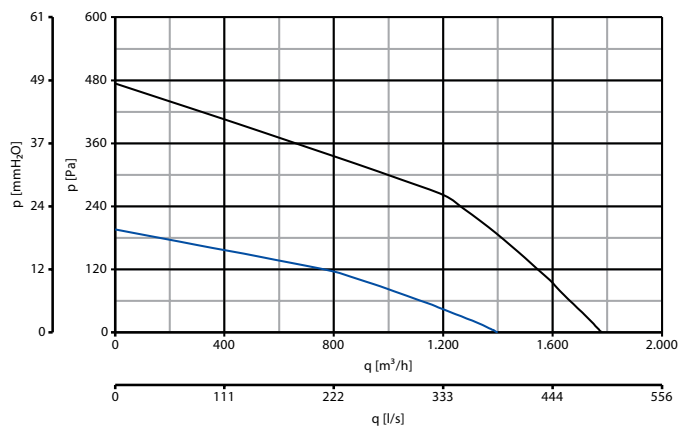
LINEO 150 V0



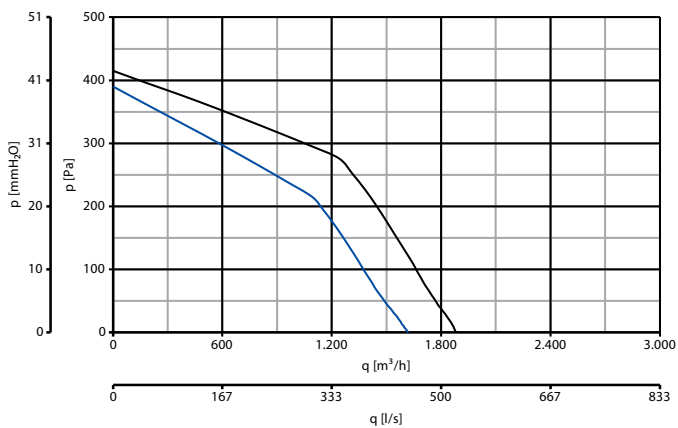
LINEO 160 V0



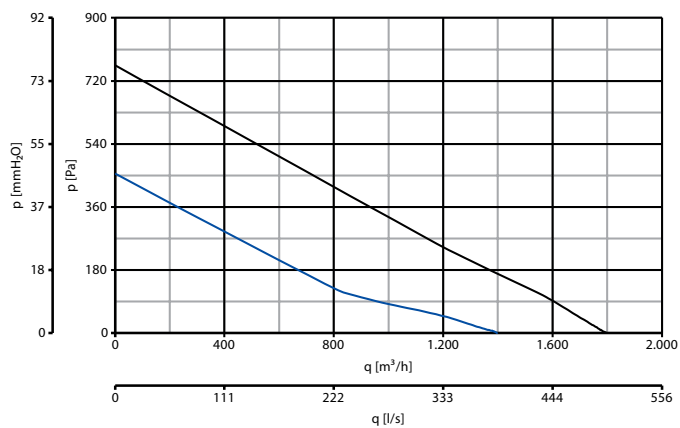
LINEO 200 Q V0



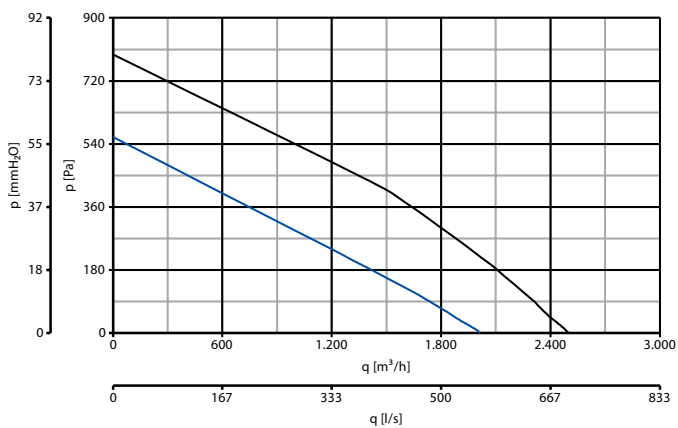
LINEO 200 V0



LINEO 250 Q V0



LINEO 250 V0



LINEO ES RANGE

“Energy Saving” mixed flow extractor fans

PRODUCT SPECIFICATIONS



LONG LIFE 30.000 h



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. □

TECHNICAL DATA

Models	Code	W		A		RPM		Max Airflow				Max Pressure				Lp dB(A)*		Max °C
		min	max	min	max	min	max	m³/h		l/s		mmH₂O		Pa		min	max	
LINEO 100 Q ES	17036	4.5 7 10	7 12 16.5	0.05 0.07 0.10	0.08 0.12 0.16	1420 2125 2560	2120 2850 3300	90 155 170	145 210 230	25 43 47	40 58 64	3.6 9 11	8 15 18	35 88 108	78 147 177	21.0 28.9 33.5	33.3 40.0 44.5	60
LINEO 100 ES	17031	5.5 8 11	8 12 17	0.06 0.09 0.11	0.09 0.12 0.17	1320 1620 1920	1650 2000 2330	140 180 220	185 255 270	39 50 61	51 71 75	7 12 17	12 23 26	69 118 167	118 225 255	25.3 31.4 35.7	31.4 36.4 40.8	
LINEO 125 ES	17032	6.5 10 13.5	10.5 17 24	0.07 0.10 0.13	0.11 0.17 0.22	1285 1600 1870	1660 2040 2370	190 250 300	270 365 380	53 69 83	75 101 105	9 15 20	16 29 33	88 147 196	157 284 324	28.9 34.8 39.3	35.1 40.3 44.4	
LINEO 150 ES	17033	10 15 22	22 35 52	0.10 0.15 0.20	0.20 0.31 0.44	1340 1630 1870	1875 2230 2560	325 385 465	440 550 620	90 107 129	122 153 172	15 22 31	28 43 53	147 216 304	275 422 520	35.0 41.6 46.0	44.1 47.1 53.2	
LINEO 160 ES	17034	10 15 22	23 38 55	0.10 0.15 0.20	0.21 0.33 0.45	1300 1560 1830	1900 2290 2620	325 385 465	450 570 630	90 107 129	125 158 175	15 22 31	28 43 53	147 216 304	275 422 520	33.8 39.2 45.7	44.6 47.7 54.1	
LINEO 200 ES	17037	22 36 53	34 57 74	0.21 0.33 0.47	0.32 0.50 0.63	1990 2400 2750	2330 2820 3120	620 750 870	760 1000 1080	172 208 242	211 278 300	13 19 25	19 27 37	127 186 245	186 265 363	39.4 44.8 45.3	44.3 46.2 47.5	50
LINEO 250 ES	17038	27 45 65	59 95 124	0.26 0.42 0.59	0.54 0.83 1.06	1720 2100 2400	2280 2750 3010	650 800 920	850 1150 1250	180 222 255	236 319 347	19 29 37	34 51 65	186 284 363	333 500 637	43.0 47.4 50.4	50.9 55.0 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	

* 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.

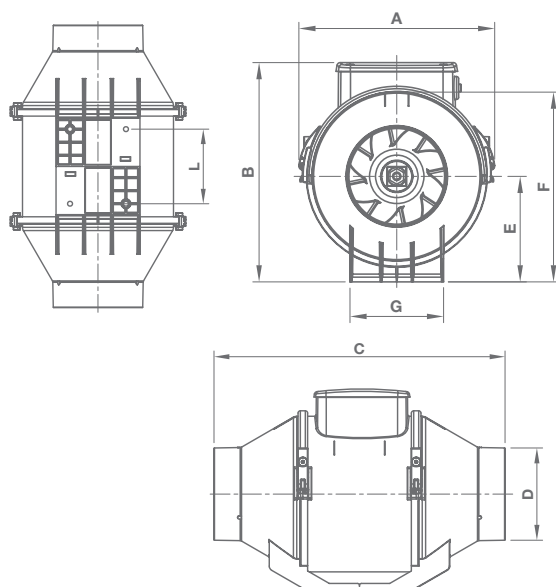


**ErP data**

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

Models	Code	Measurement cat.	Efficiency cat.	Year of construction	Variable drive	η	N.	(kW) Pe	BEP* m³/h q	Pa p	RPM	Spec. ratio <1.04
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	H	I	Kg
LINEO 100 Q ES	156	205	231	96	82	152	95	51.5	47.5	1.5
LINEO 100 ES	188.5	240	303	96	101.5	189	90	60	80	1.9
LINEO 125 ES	188.5	240	258	122	101.5	189	90	60	80	1.8
LINEO 150 ES	214.5	265	294	146	112.5	212	110	60	80	2.2
LINEO 160 ES	214.5	265	272.5	156	112.5	212	110	60	80	2.1
LINEO 200 ES	234.5	290	300	196	125.5	235	140	94	100	2.5
LINEO 250 ES	300	350	385	247	152.5	292	176.5	140	145	5.3
LINEO 315 ES	361.5	460	448	312	188.5	359	220.5	178	182	9.5

Dimensions (mm)

PRODUCT ACCESSORIES

Models	Description	Code	Product
			LINEO 100 Q ES code 17036
			LINEO 100 ES code 17031
			LINEO 125 ES code 17032
			LINEO 150 ES code 17033
			LINEO 160 ES code 17034
			LINEO 200 ES code 17037
			LINEO 250 ES code 17038
			LINEO 315 ES code 17039
	C HCS Environmental sensor for humidity	12994	• • • • • • • • •
	C PIR Passive infrared sensor	12998	• • • • • • • • •
	C SMOKE Environmental sensor for air quality	12993	• • • • • • • • •
	C TEMP Environmental sensor for temperature	12992	• • • • • • • • •
	C TIMER Adjustable over-run timer	12999	• • • • • • • • •
	DUO Speed controller	22914	• • • • • • • • •

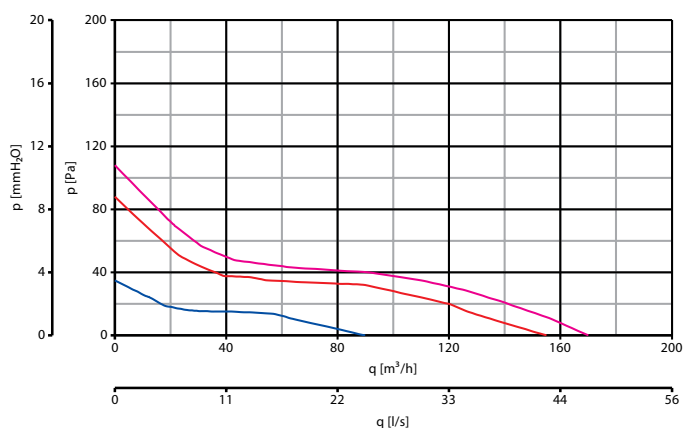
Description and size on page 52; System components on page 54

LINEO ES RANGE

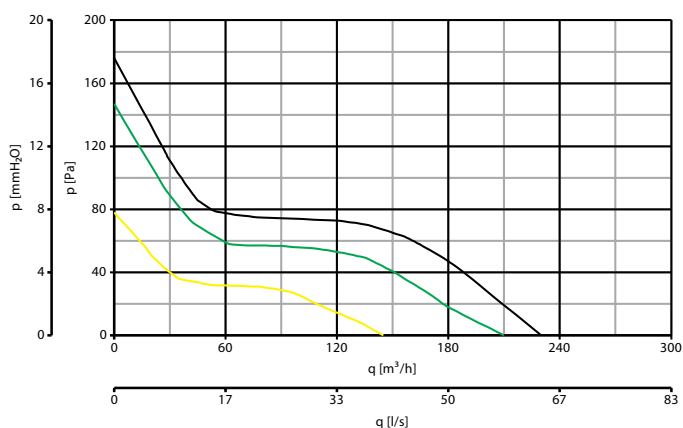
“Energy Saving” mixed flow extractor fans

PERFORMANCE CURVES

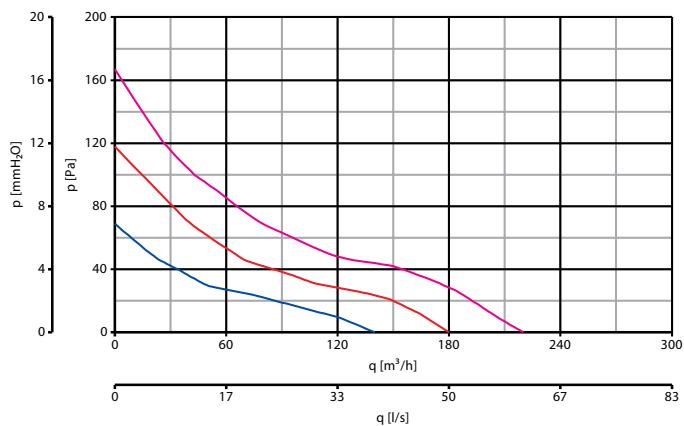
LINEO 100 Q ES CODE 17036 - MIN SPEED



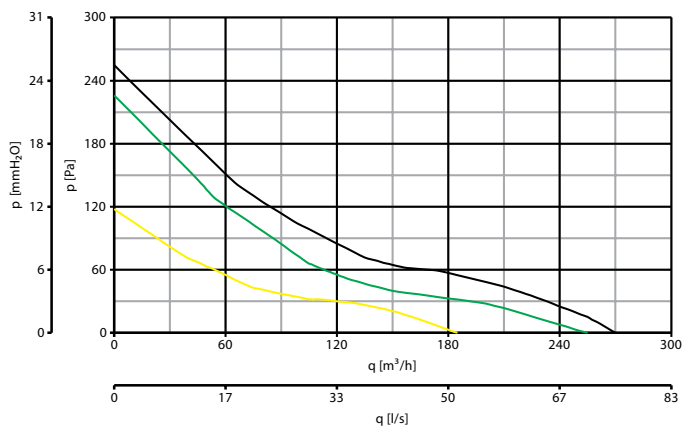
LINEO 100 Q ES CODE 17036 - MAX SPEED



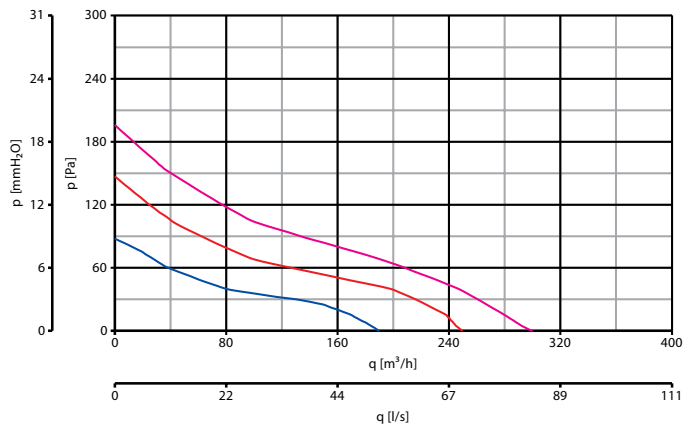
LINEO 100 ES CODE 17031 - MIN SPEED



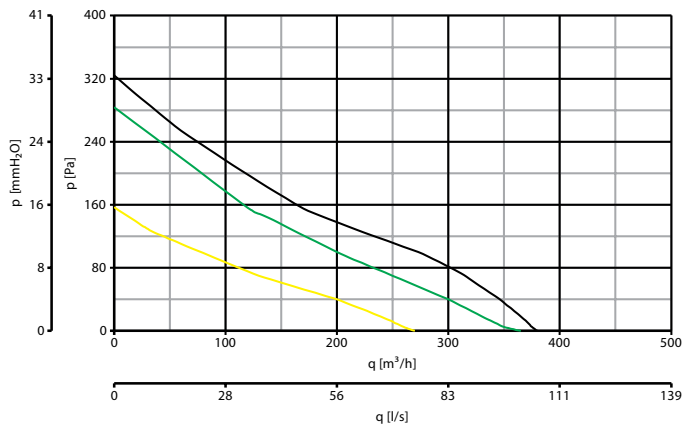
LINEO 100 ES CODE 17031 - MAX SPEED



LINEO 125 ES CODE 17032 - MIN SPEED

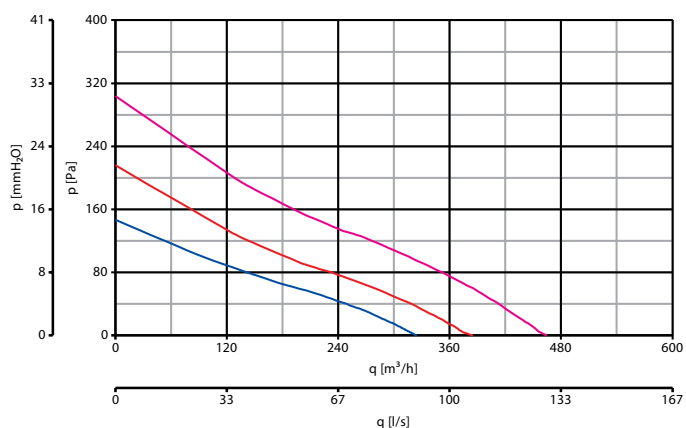


LINEO 125 ES CODE 17032 - MAX SPEED

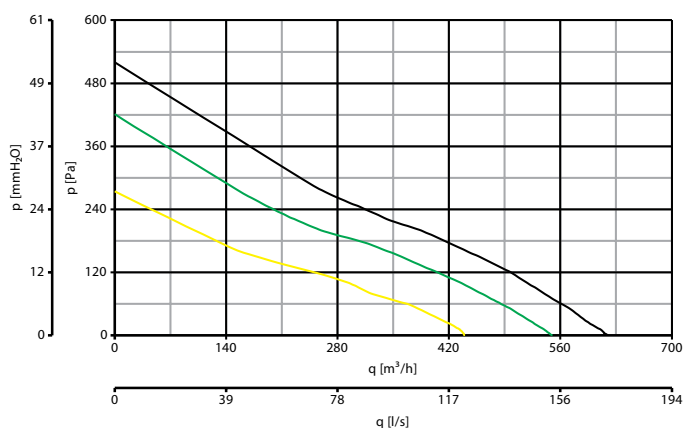


PERFORMANCE CURVES

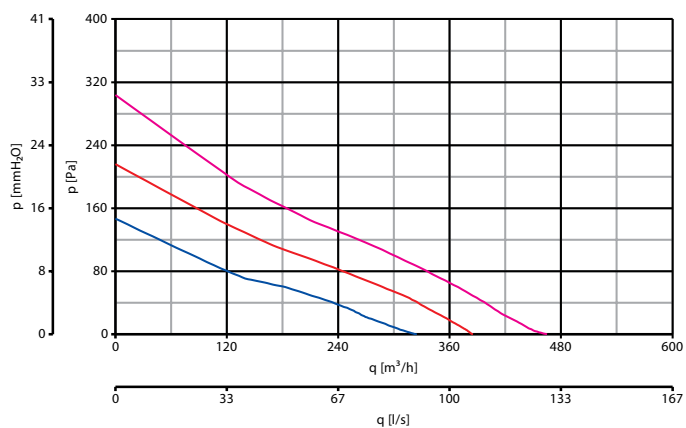
LINEO 150 ES CODE 17033 - MIN SPEED



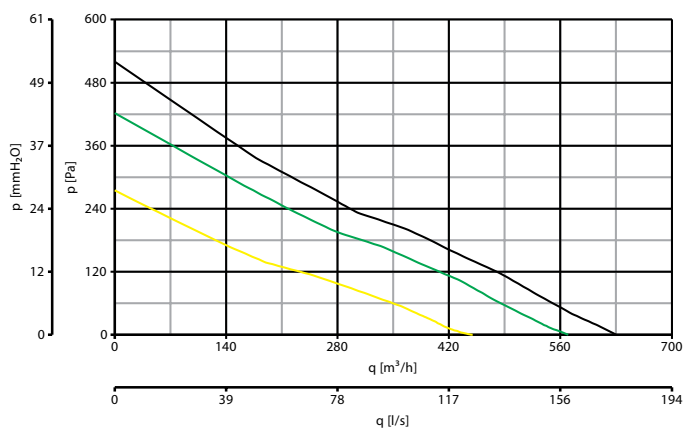
LINEO 150 ES CODE 17033 - MAX SPEED



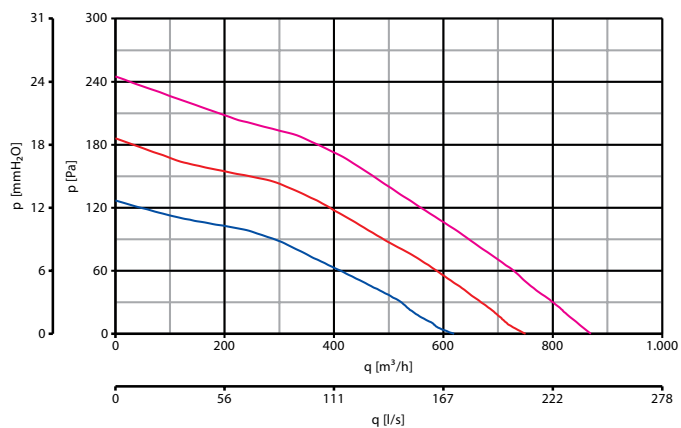
LINEO 160 ES CODE 17034 - MIN SPEED



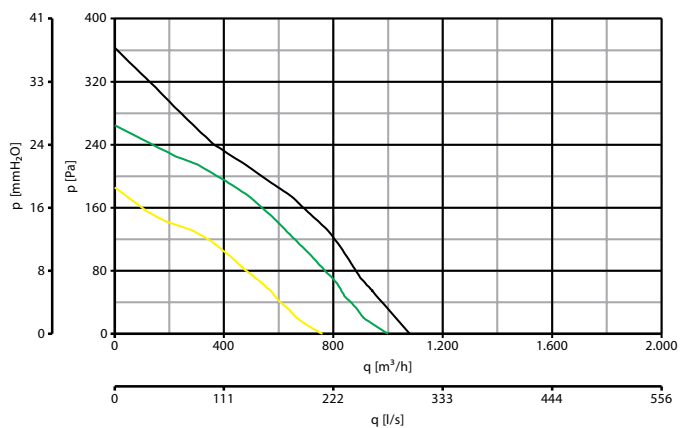
LINEO 160 ES CODE 17034 - MAX SPEED



LINEO 200 ES CODE 17037 - MIN SPEED



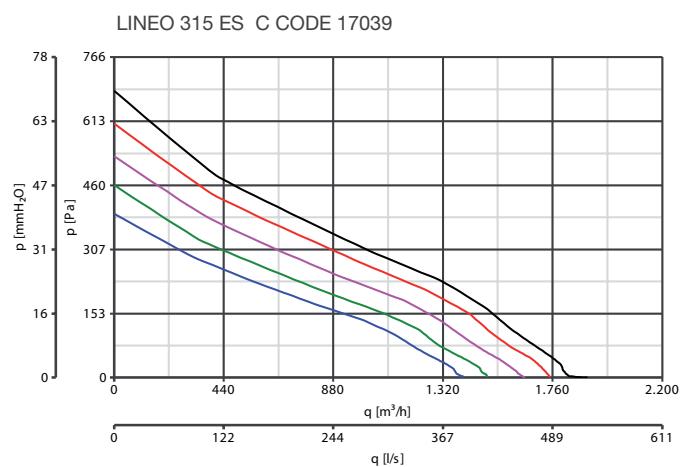
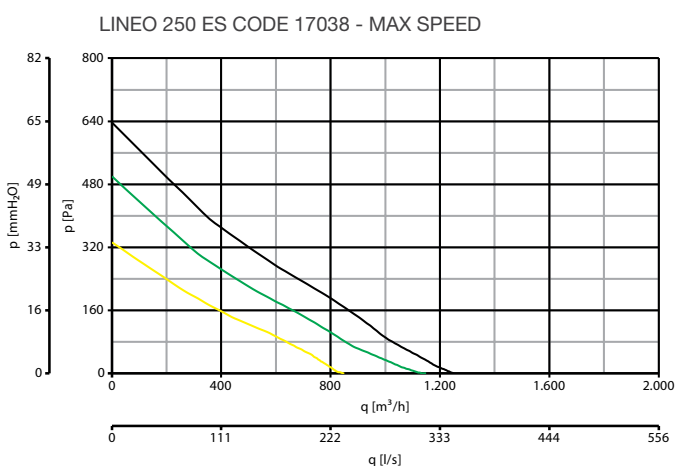
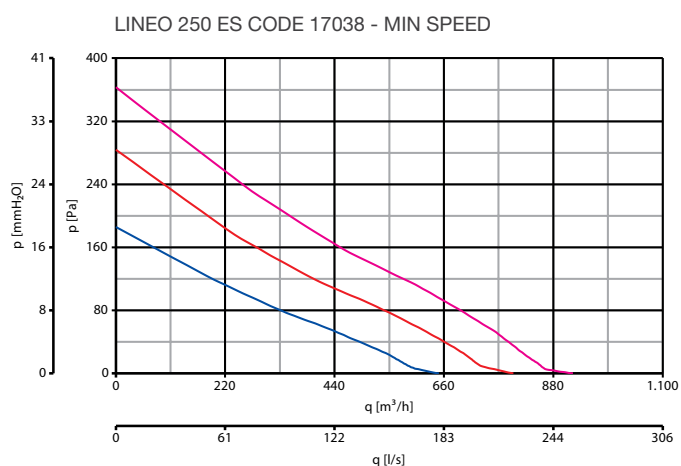
LINEO 200 ES CODE 17037 - MAX SPEED



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

[illegible]

NEW

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. □

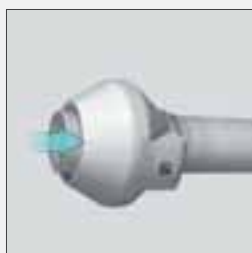
TECHNICAL DATA

Models	Code	W min/max	A min/max	RPM min/max	Max Airflow		Max Pressure		Lp dB(A) min/max	Max °C
					m³/h 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
CA 125 V0 D	16018	67 - 85	0.34 - 0.40	1480 - 2470	210 - 360	58.3 - 100	25 - 36	245 - 353	45 - 56 (*)	
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 (*)	
CA 200 V0 Q	16035	100	0.35	2290	700	194.4	37	363	59 (*)	
CA 200 V0 E	16038	90	0.40	2615	840	233	45	441	50.3 (**)	55
CA 250 V0 E	16039	90	0.40	2650	920	256	42	412	49.9 (**)	
CA 315 V0 E	16041	120	0.54	2660	1100	305	55	539	54 (**)	

* 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.

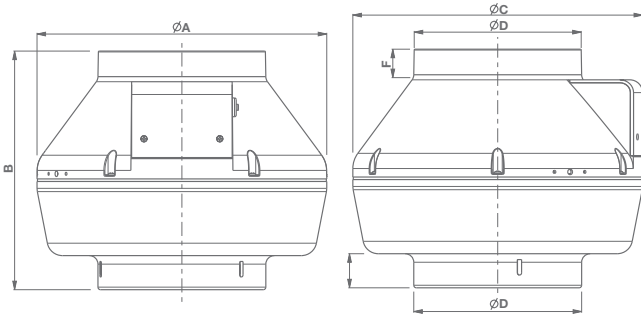
** Sound pressure level measured at 3 m in free field conditions with long-cased appliance in delivery mode in accordance with standard EN ISO 9614.

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.





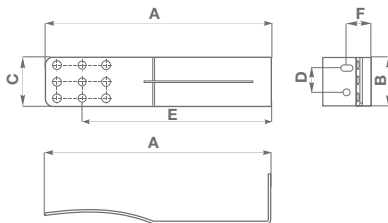
DIMENSIONS



Models	A	B	Ø C	Ø D	E	F	Kg
CA 100 V0 D	250	250	250	97	30	30	2.4
CA 125 V0 D				122			2.3
CA 150 V0 D	300	305	300	147/157			2.6
CA 200 V0 Q	340	280	340	197			40
CA 200 V0 E		305		247	60	4.0	
CA 250 V0 E						4.3	
CA 315 V0 E	400	340	400	312	75	40	6.5

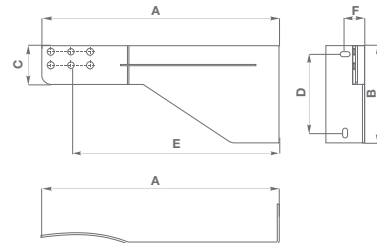
Dimensions (mm)

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

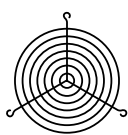
SOUND LEVELS

Models	Code		63	125	250	500	1000	2000	4000	8000
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 V0 E RANGE

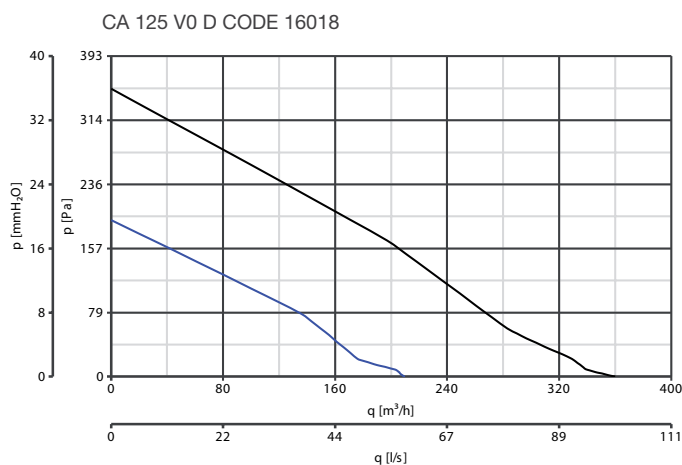
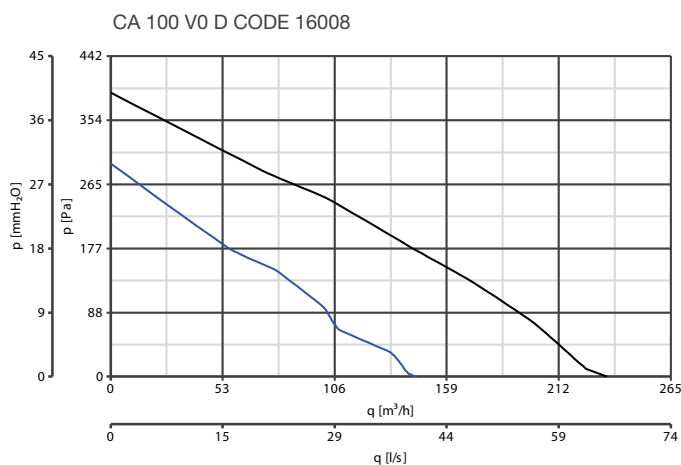
In-line centrifugal fans in self-extinguishing plastic

PRODUCT ACCESSORIES

Models	Description	Code	Product						
			CA 100 V0 D code 16008	CA 125 V0 D code 16018	CA 150 V0 D code 16028	CA 200 V0 Q code 16035	CA 200 V0 E code 16038	CA 250 V0 E code 16039	CA 315 V0 E code 16041
	C 1.5 Electronic speed controller	12966	•	•	•	•	•	•	•
	C 2.5 Electronic speed controller	12967	•	•	•	•	•	•	•
	SCNRB Non-reversible built-in electronic speed controller	12971	•	•	•	•	•	•	•
	SCB Built-in controller adaptor for C 1.5 and C 2.5	22481	12966 - 12967						
	DUO Speed controller	22914	•	•	•				
	C HCS Environmental sensor for humidity	12994	•	•	•	•	•	•	•
	C TEMP Environmental sensor for temperature	12992	•	•	•	•	•	•	•
	C SMOKE Environmental sensor for air quality	12993	•	•	•	•	•	•	•
	C PIR Passive infrared sensor	12998	•	•	•	•	•	•	•
	C TIMER Adjustable over-run timer	12999	•	•	•	•	•	•	•
	CA-G 100 Protection grille nominal diameter 100 mm	22750	•						
	CA-G 125 Protection grille nominal diameter 125 mm	22755		•					
	CA-G 150 Protection grille nominal diameter 150 mm	22760			•				
	CA-G 200 Protection grille nominal diameter 200 mm	22765				•	•		
	CA-G 250 Protection grille nominal diameter 250 mm	22770						•	
	CA-G 315 Protection grille nominal diameter 315 mm	22775							•
	CA-MU Galvanized sheet-metal brackets	22674	•	•	•	•	•	•	•

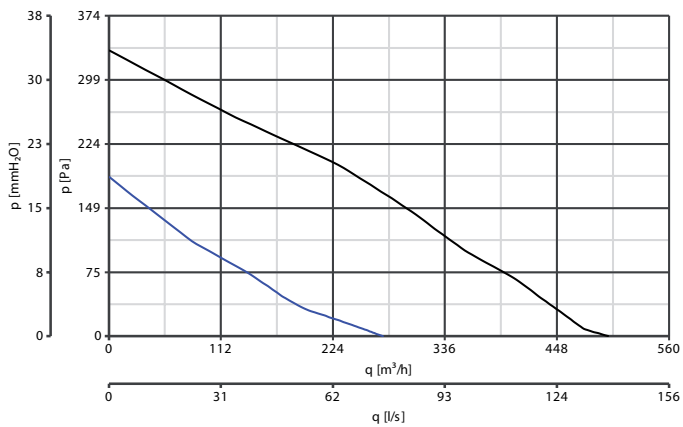
Description and size on page 52; System components on page 54

PERFORMANCE CURVES

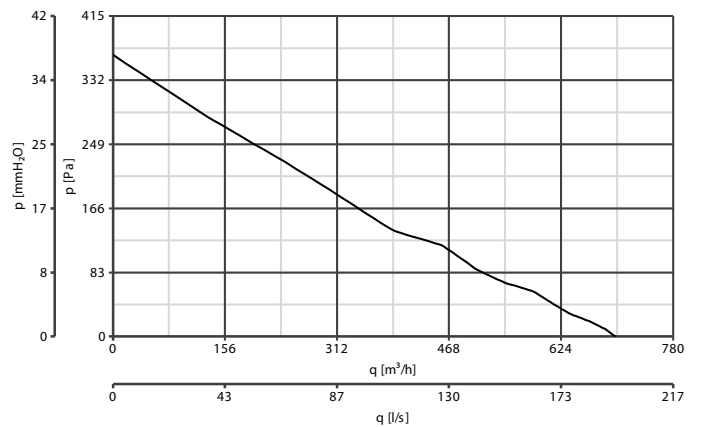


PERFORMANCE CURVES

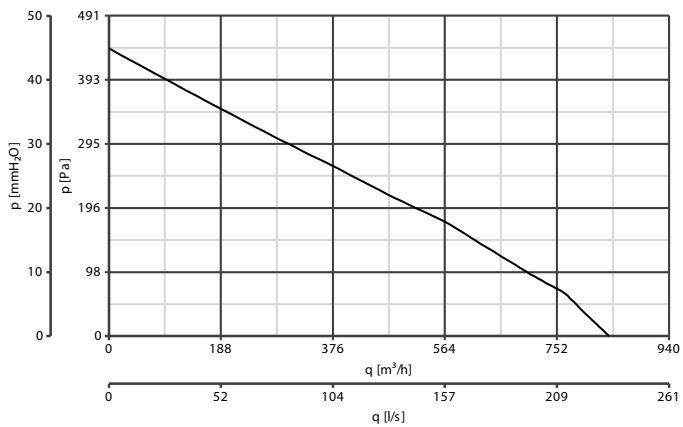
CA 150 V0 D CODE 16028



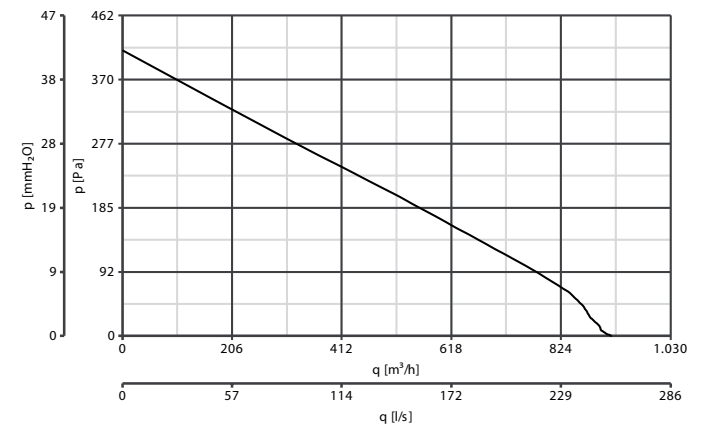
CA 200 V0 Q CODE 16035



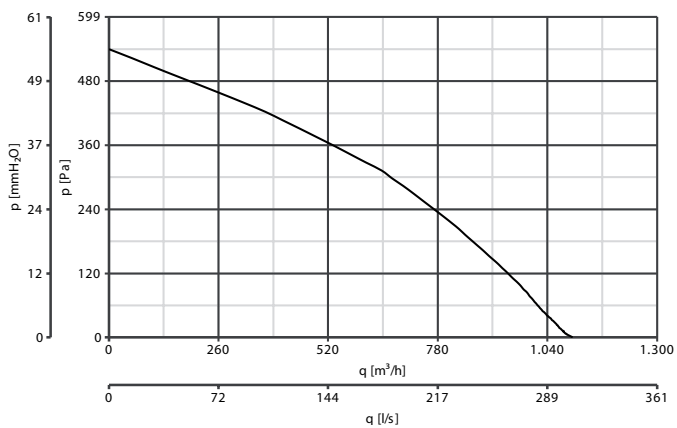
CA 200 V0 E CODE 16038



CA 250 V0 E CODE 16039



CA 315 V0 E CODE 16041



— min. — max.

NEW

CA MD AND CA MD E RANGE

In-line centrifugal fans in metal

PRODUCT SPECIFICATIONS



LONG LIFE 30.000 h



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. □

TECHNICAL DATA

Available only for the
Extra EU market**

Models	Code	W min/max	A min/max	RPM min/max	Max Airflow		Max Pressure		Lp dB(A)* min/max	Max °C
					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
CA 125 MD	16151	60 - 85	0.30 - 0.40	1580 - 2380	280 - 450	78 - 125	27 - 37	265 - 363	30.8 - 45.9 (*)	
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 (*)	
CA 150 MD	16153	110 - 155	0.50 - 0.70	1815 - 2080	570 - 770	188 - 214	44 - 54	432 - 530	40.7 - 48.0	
CA 160 MD	16154	110 - 155	0.55 - 0.70	1654 - 2080	640 - 840	178 - 228	41 - 50	402 - 491	40.7 - 47.4	
CA 200 MD	16155	110 - 155	0.55 - 0.70	1700 - 2100	820 - 1050	228 - 292	37 - 48	363 - 471	43.8 - 49.6	
CA 250 MD	16156	115 - 200	0.55 - 0.90	1800 - 2420	950 - 1300	264 - 361	42 - 56	412 - 549	46.7 - 55.9	
CA 315 MD	16157	190 - 280	0.85 - 1.25	1940 - 2500	1350 - 1800	375 - 500	52 - 72	510 - 706	52.4 - 57.7	
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
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 (**)	
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 (**)	
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 (**)	
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 (**)	

* 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.

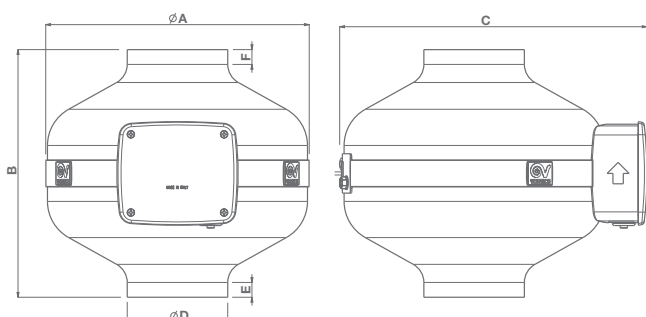
** Sound pressure level measured at 3 m in free field conditions with long-cased appliance in delivery mode in accordance with standard EN ISO 9614.

Electrical supply: 230 V ~ 50 Hz.





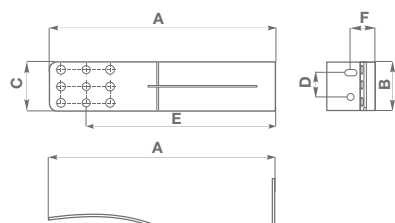
DIMENSIONS



Models	Ø A	B	C	Ø D	E	F	Kg
CA 100 MD	255	239	300	97	15	15	2.97
CA 125 MD				122	23	23	3.0
CA 150 Q MD				147	30	30	2.98
CA 150 MD	347	275	392	147	17	17	5.52
CA 160 MD				157	18	18	5.47
CA 200 MD				197	20	17	5.43
CA 250 MD				247	38	35	6.55
CA 315 MD	406	306	455	312	36	30	9.47
CA 150 MD E	347	275	392	147	17	17	6.1
CA 160 MD E				157	18	18	6.3
CA 200 MD E				197	20	17	6.0
CA 250 MD E				247	38	35	7.6
CA 315 MD E	406	294	455	312	21	30	11.0

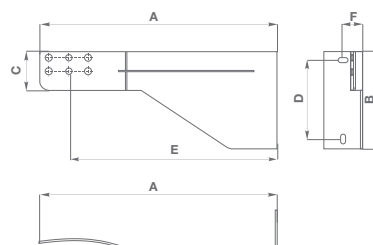
Dimensions (mm)

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

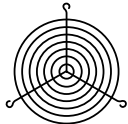
Frequency bands in octaves and sound output. The measurements of the sound power have been carried out according to international standards EN ISO-3741.

Models	Code		125	250	500	1000	2000	4000	8000
CA 100 MD	16150	minimum speed	49.4	42	51.7	49.3	46.4	42.8	38.7
		maximum speed	58.2	53.3	60.7	59.8	56.5	54.1	46.3
CA 125 MD	16151	minimum speed	45	51.7	51	45.9	42.1	35.1	n.a.
		maximum speed	55.4	63.4	64.5	61.6	58.7	55.2	48.4
CA 150 Q MD	16152	minimum speed	45.2	57.6	53.7	48.9	48.9	39.7	26.3
		maximum speed	55.9	68.4	66.1	62.6	62.6	56.9	48.9
CA 150 MD	16153	minimum speed	56	65.4	59.7	53.3	50	42.6	32.8
		maximum speed	62.2	71.1	67.3	61.6	59.2	51.9	44.6
CA 160 MD	16154	minimum speed	58.6	64.9	59.8	53	53	41.5	32.2
		maximum speed	62.1	70.4	66.5	60.9	60.9	50.4	43.1
CA 200 MD	16155	minimum speed	58	68.3	61.5	55.4	54.2	45.7	38
		maximum speed	61.5	70.3	69.7	63.2	60.8	54.5	47.4
CA 250 MD	16156	minimum speed	60.2	69.6	65.1	60.9	58.5	51.5	44.7
		maximum speed	68.8	71.2	77.9	69.4	65.8	60.9	55.6
CA 315 MD	16157	minimum speed	70.8	71.8	74	64.7	62.8	60.5	57.7
		maximum speed	74.3	72.4	77.6	71.6	70.3	67.1	66

CA MD AND CA MD E RANGE

In-line centrifugal fans in metal

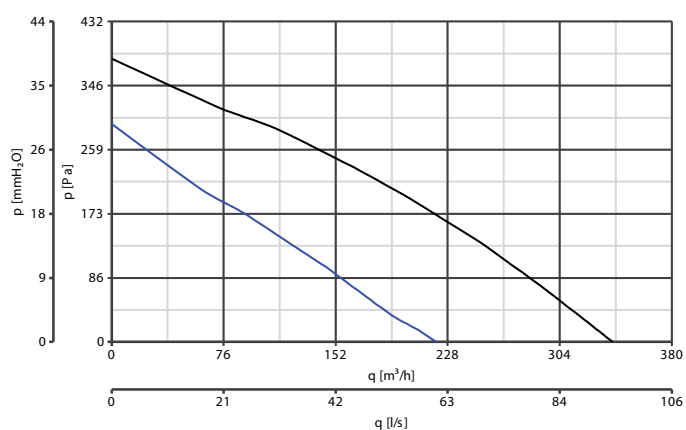
PRODUCT ACCESSORIES

Models	Description	Code	Product												
			CA 100 MD code 16150	CA 125 MD code 16151	CA 150 Q MD code 16152	CA 150 MD code 16153	CA 160 MD code 16154	CA 200 MD code 16155	CA 250 MD code 16156	CA 315 MD code 16157	CA 150 MD E code 16163	CA 160 MD E code 16164	CA 200 MD E code 16165	CA 250 MD E code 16166	CA 315 MD E code 16167
	C 1.5 Electronic speed controller 1.5 A	12966	•	•	•	•	•	•	•	•	•	•	•	•	•
	C 2.5 Electronic speed controller 2.5 A	12967	•	•	•	•	•	•	•	•	•	•	•	•	•
	SCNRB Electronic speed controller built-in	12971	•	•	•	•	•	•	•	•	•	•	•	•	•
	SCB Built-in controller adaptor for C 1.5 and C 2.5	22481	12966 - 12967												
	C HCS Environmental sensor for humidity	12994	•	•	•	•	•	•	•	•	•	•	•	•	•
	C TEMP Environmental sensor for temperature	12992	•	•	•	•	•	•	•	•	•	•	•	•	•
	C SMOKE Environmental sensor for air quality	12993	•	•	•	•	•	•	•	•	•	•	•	•	•
	C PIR Passive infrared sensor	12998	•	•	•	•	•	•	•	•	•	•	•	•	•
	C TIMER Adjustable over-run timer	12999	•	•	•	•	•	•	•	•	•	•	•	•	•
	DUO Speed controller	22914	•	•	•	•									
	CA-G 100 Protection grille nominal diameter 100 mm	22750	•												
	CA-G 125 Protection grille nominal diameter 125 mm	22755		•											
	CA-G 150 Protection grille nominal diameter 150 mm	22760			•	•					•				
	CA-G 160 Protection grille nominal diameter 160 mm	22762					•					•			
	CA-G 200 Protection grille nominal diameter 200 mm	22765						•					•		
	CA-G 250 Protection grille nominal diameter 250 mm	22770							•					•	
	CA-G 315 Protection grille nominal diameter 315 mm	22775								•					•
	CA-MU Galvanized sheet-metal brackets	22674	•	•	•	•	•	•	•	•	•	•	•	•	•

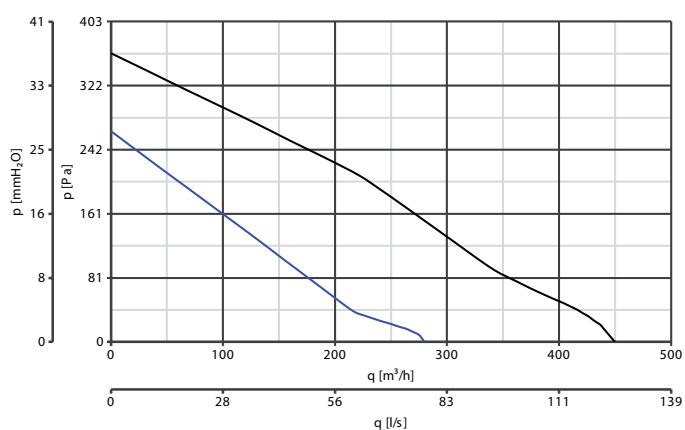
Description and size on page 52; System components on page 54

PERFORMANCE CURVES

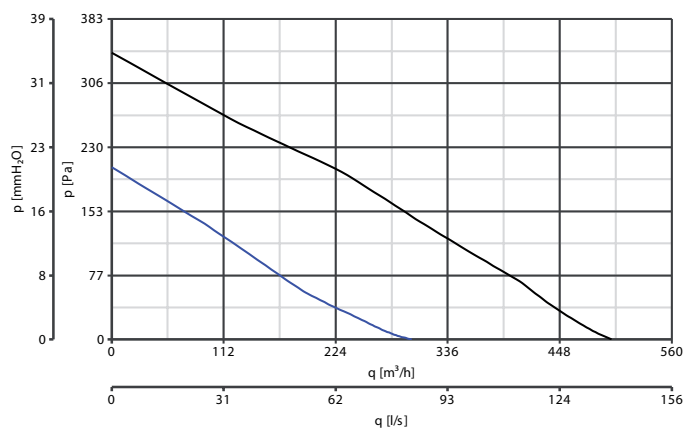
CA 100 MD CODE 16150



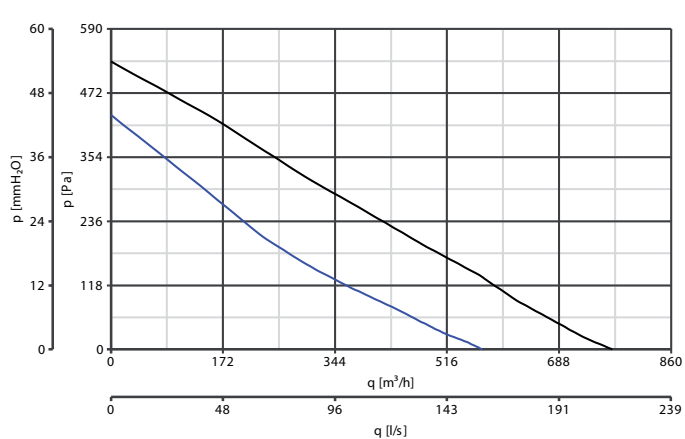
CA 125 MD CODE 16151



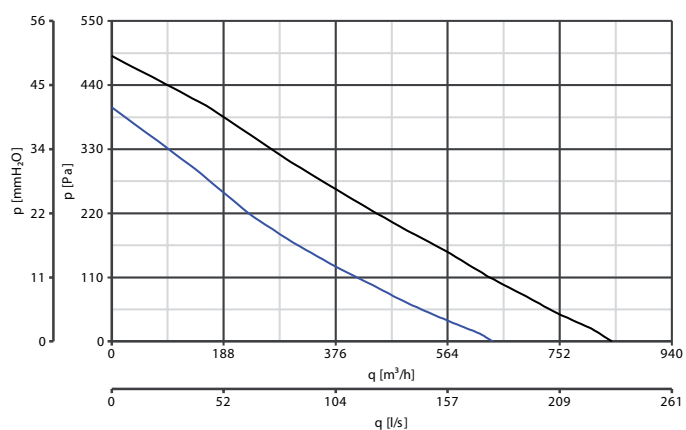
CA 150 Q MD CODE 16152



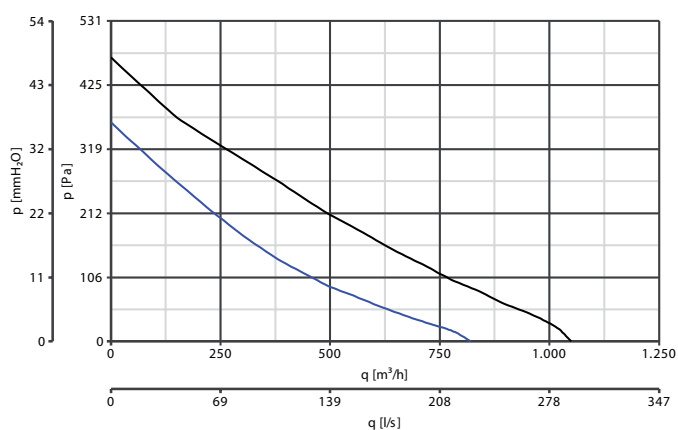
CA 150 MD CODE 16153



CA 160 MD CODE 16154



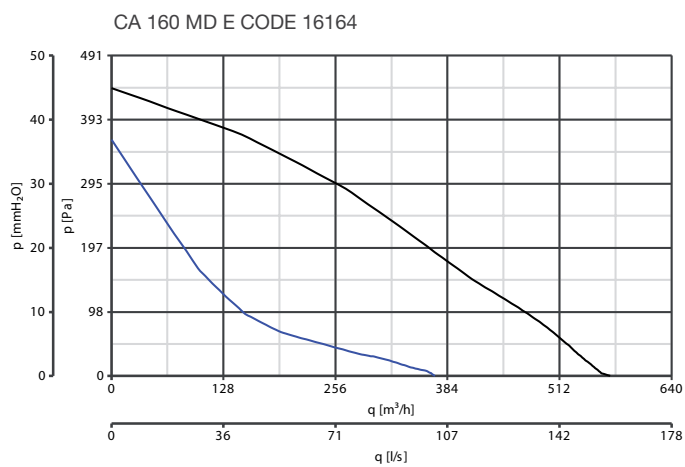
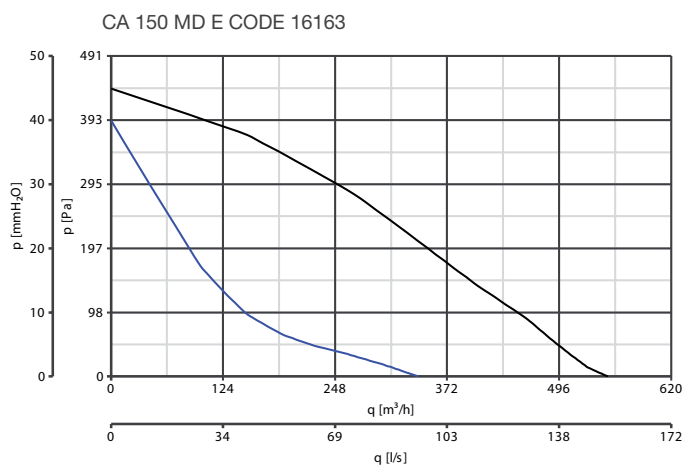
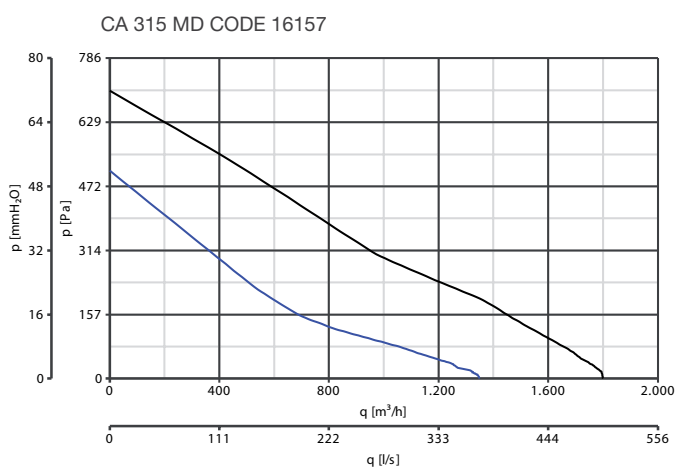
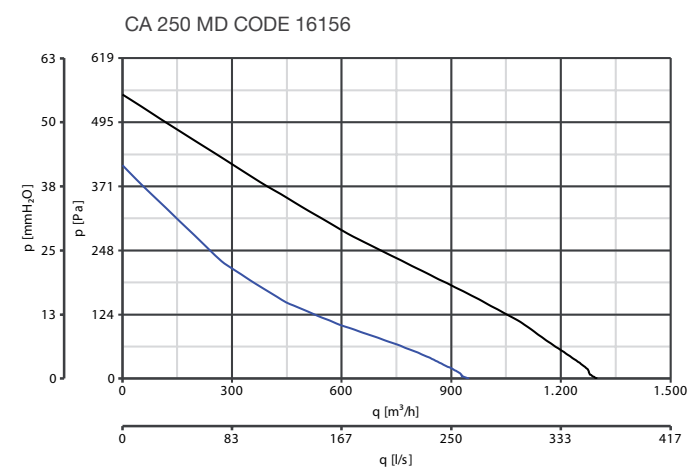
CA 200 MD CODE 16155



CA MD AND CA MD E RANGE

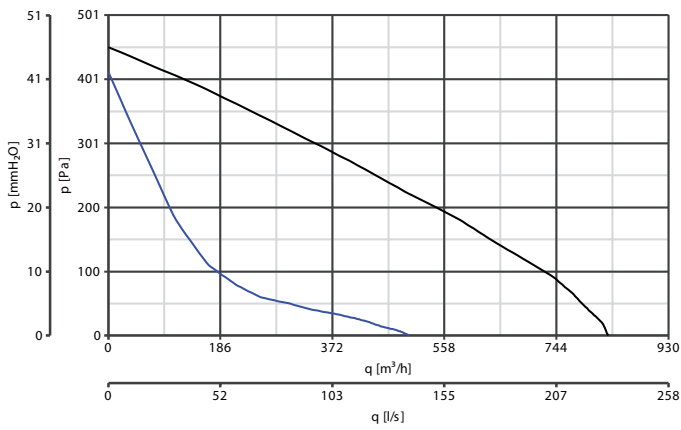
In-line centrifugal fans in metal

PERFORMANCE CURVES

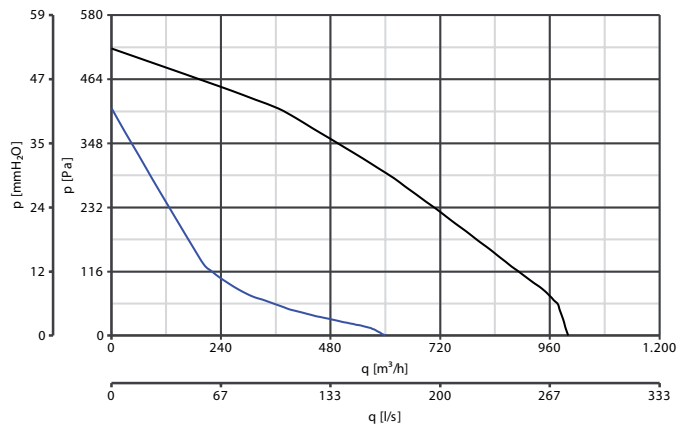


PERFORMANCE CURVES

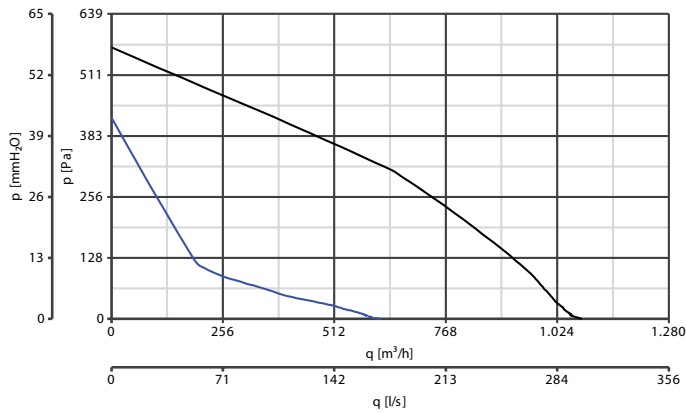
CA 200 MD E CODE 16165



CA 250 MD E CODE 16166



CA 315 MD E CODE 16167



min. max.

NEW

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
		min/max		min/max		min/max		m³/h min/max	l/s min/max	mmH₂O min/max	Pa min/max	min/max	min/max	
CA 100 ES	16170	11	29	0.12	0.29	1310	2020	170	270	47	75	16	37	50
		19	55	0.20	0.53	1690	2530	220	340	61	94	27	49	
		35	80	0.35	0.75	2140	2880	280	380	78	105	43	51	
CA 125 ES	16171	11	29	0.12	0.29	1180	1820	220	350	61	97	14	34	
		19	55	0.20	0.53	1520	2310	280	440	78	122	23	47	
		35	80	0.35	0.75	1930	2620	370	500	103	139	38	49	
CA 150 Q ES	16172	11	29	0.12	0.29	1170	1810	240	380	67	105	11	26	
		19	55	0.20	0.53	1515	2300	310	490	86	136	18	42	
		35	80	0.35	0.75	1925	2590	410	560	114	155	30	45	
CA 150 ES	16173	20	30	0.21	0.30	1230	1420	420	480	117	133	17	22	
		44	105	0.43	0.93	1620	2170	550	750	153	208	29	51	
		58	120	0.55	1.05	1800	2260	630	820	175	228	36	56	
CA 160 ES	16174	20	30	0.21	0.30	1230	1410	470	540	130	150	17	22	
		44	105	0.43	0.93	1620	2160	630	840	175	233	29	51	
		58	120	0.55	1.05	1780	2230	700	890	194	247	36	56	
CA 200 ES	16175	20	30	0.21	0.30	1210	1385	580	675	161	187	15	20	
		44	105	0.43	0.93	1600	2140	770	1050	214	292	26	47	
		58	120	0.55	1.05	1760	2240	880	1120	244	311	31	50	
CA 250 ES	16176	140		1.20		3050		1150		319		73	716	57.3
CA 315 ES	16177	148		1.27		1935		1800		500		51	500	50.7

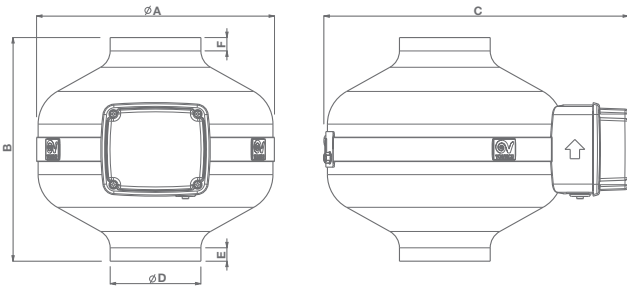
* Sound pressure level measured at 3 m in free field conditions with long-cased appliance in delivery mode in accordance with standard EN ISO 9614.

Electrical supply: 230 V - 50 Hz.





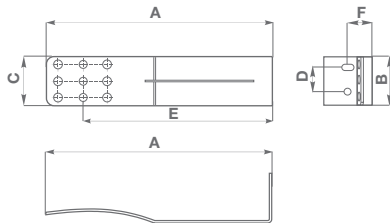
DIMENSIONS



Models	Ø A	B	C	Ø D	E	F	Kg
CA 100 ES	255	239	330	97	15	15	2.7
CA 125 ES				122	23	23	2.6
CA 150 Q ES				147	30	30	2.6
CA 150 ES	347	275	422	147	17	17	4.5
CA 160 ES				157	18	18	4.6
CA 200 ES				197	20	17	4.6
CA 250 ES		267	392	247	30	35	4.9
CA 315 ES	406	362	455	315	35	30	6.9

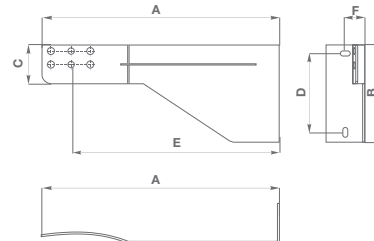
Dimensions (mm)

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

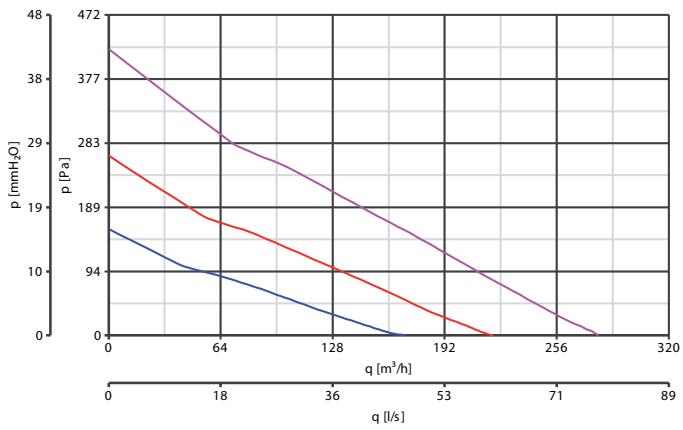
PRODUCT ACCESSORIES

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

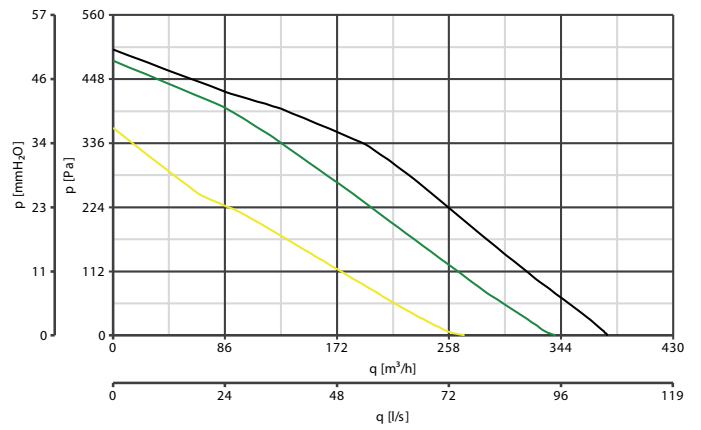
Description and size on page 52; System components on page 54

PERFORMANCE CURVES

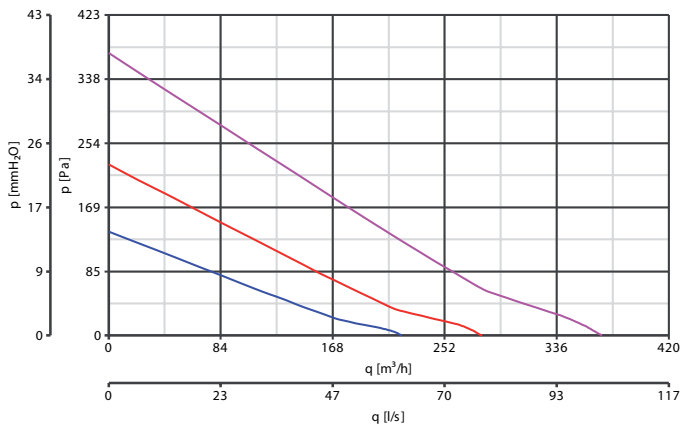
CA 100 ES CODE 16170 - MIN SPEED



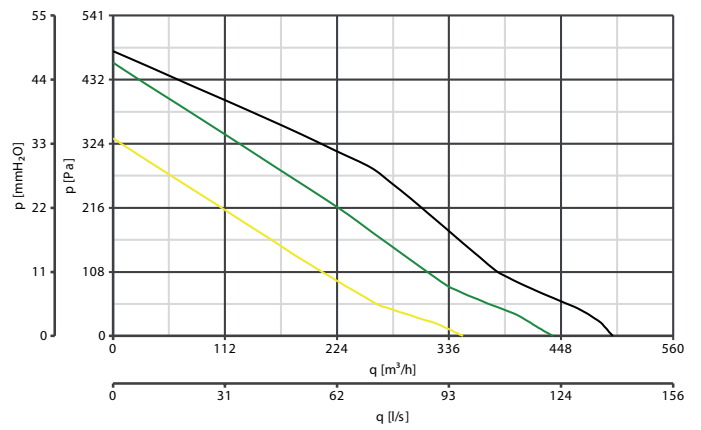
CA 100 ES CODE 16170 - MAX SPEED



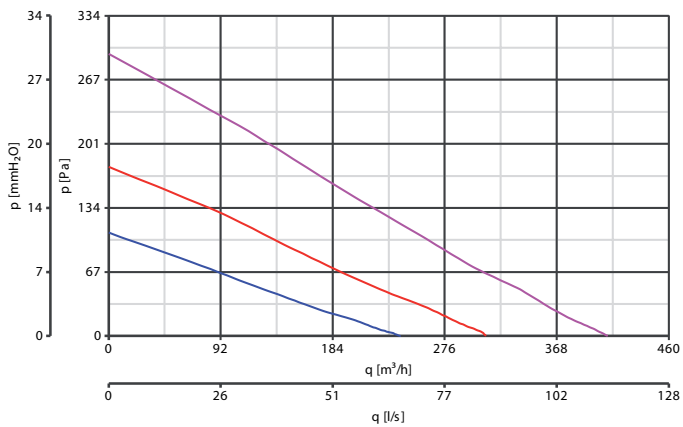
CA 125 ES CODE 16171 - MIN SPEED



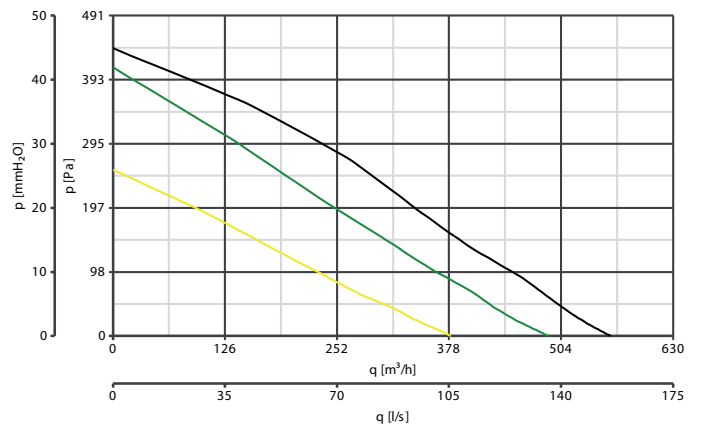
CA 125 ES CODE 16171 - MAX SPEED



CA 150 Q ES CODE 16172 - MIN SPEED



CA 150 Q ES CODE 16172 - MAX SPEED

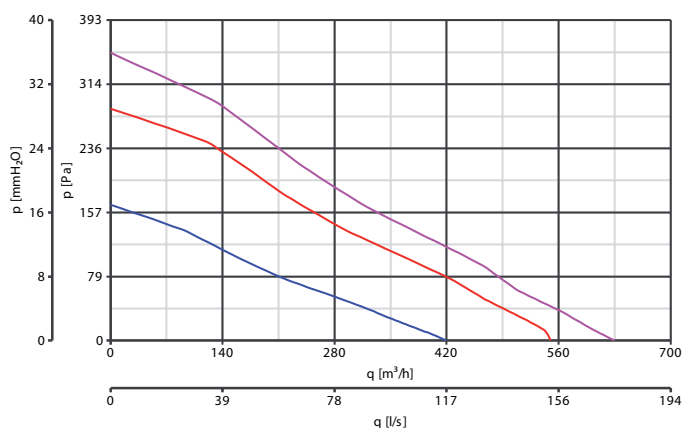


CA ES RANGE

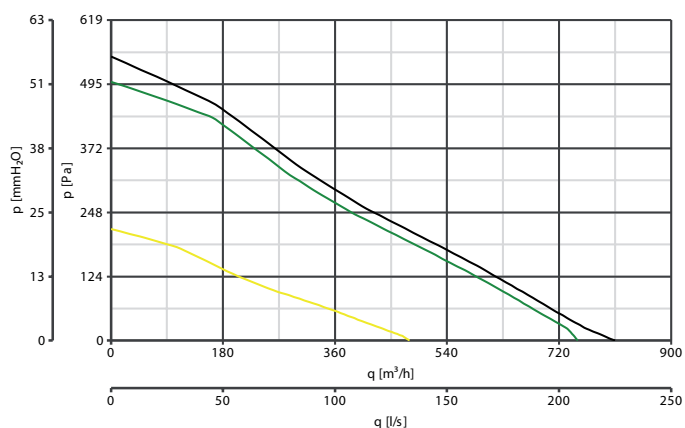
“Energy Saving” in-line centrifugal fans in metal

PERFORMANCE CURVES

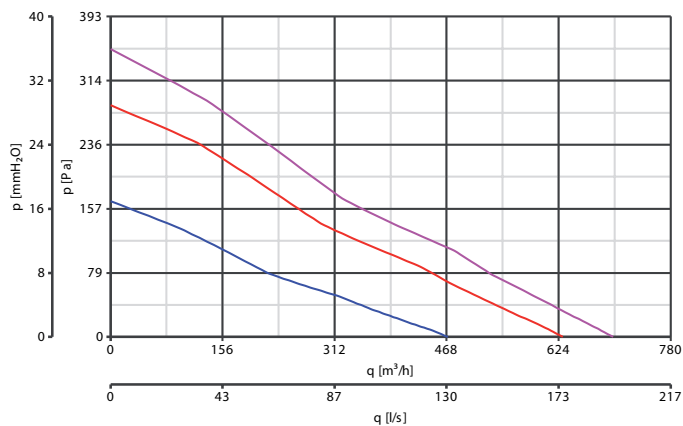
CA 150 ES CODE 16173 - MIN SPEED



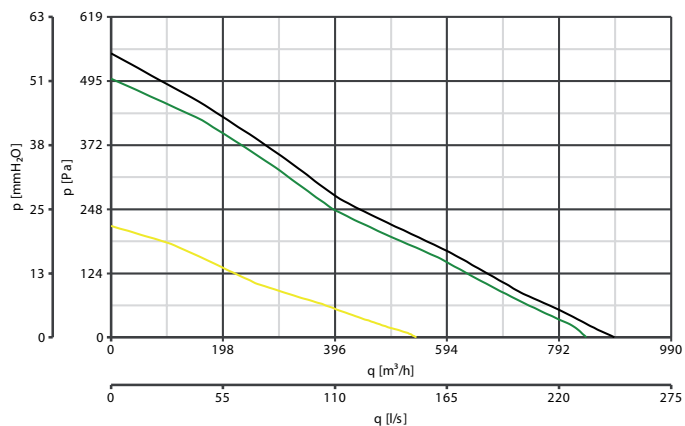
CA 150 ES CODE 16173 - MAX SPEED



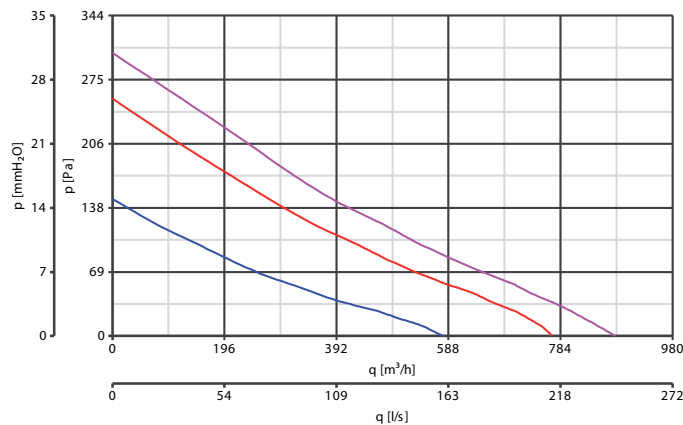
CA 160 ES CODE 16174 - MIN SPEED



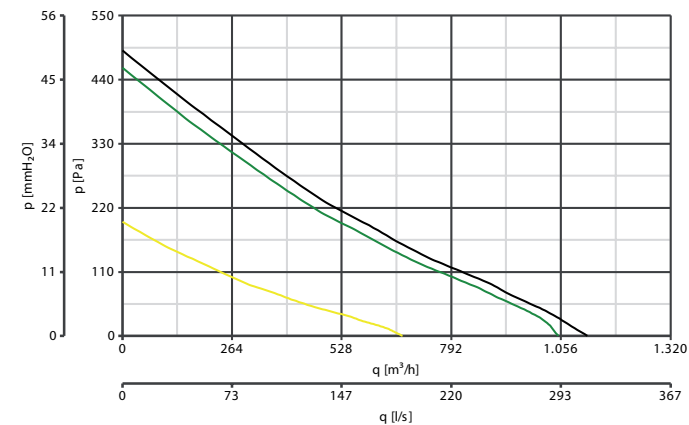
CA 160 ES CODE 16174 - MAX SPEED



CA 200 ES CODE 16175 - MIN SPEED

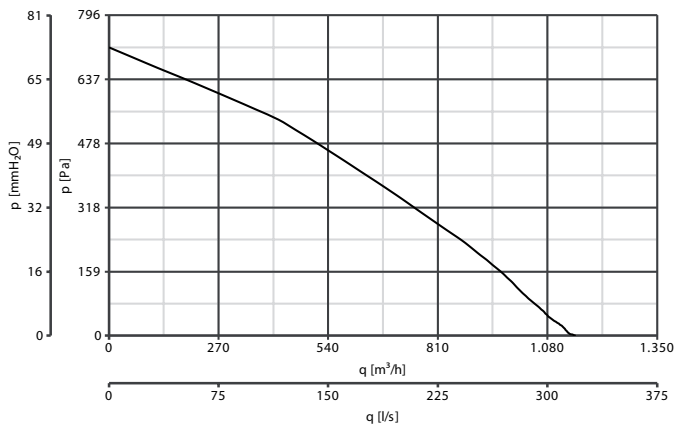


CA 200 ES CODE 16175 - MAX SPEED

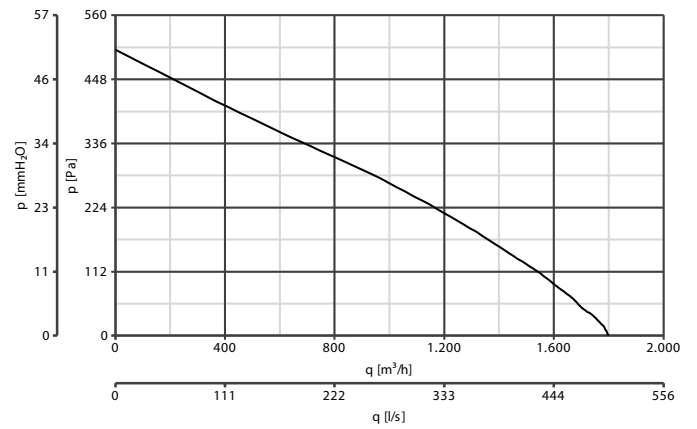


PERFORMANCE CURVES

CA 250 ES CODE 16176



CA 315 ES CODE 16177



min speed

- min. setting
- nominal setting
- max. setting

max speed

- min. setting
- nominal setting
- max. setting

p = static pressure

NEW

CA WE D E RANGE

Centrifugal duct fans for external wall

PRODUCT SPECIFICATIONS



LONG LIFE 30.000 h



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. ⬇

TECHNICAL DATA

Models	Code	W min/max	A min/max	RPM min/max	Max Airflow		Max Pressure		Lp dB(A) min/max	Max °C
					m³/h min/max	l/s min/max	mmH₂O 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
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
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 3741:2009.

** 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.

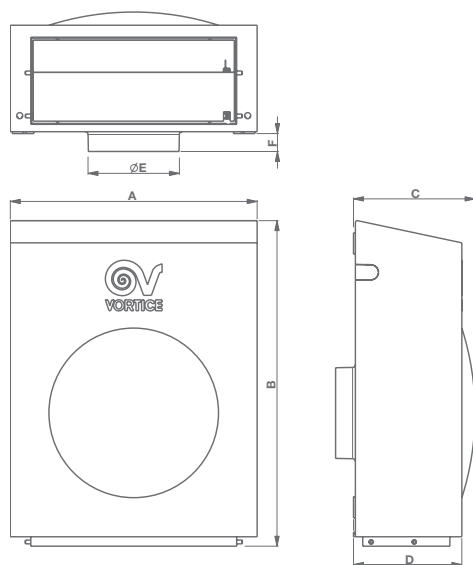
Electrical supply: 220/240 V - 50 Hz for CA WE D models.





DIMENSIONS

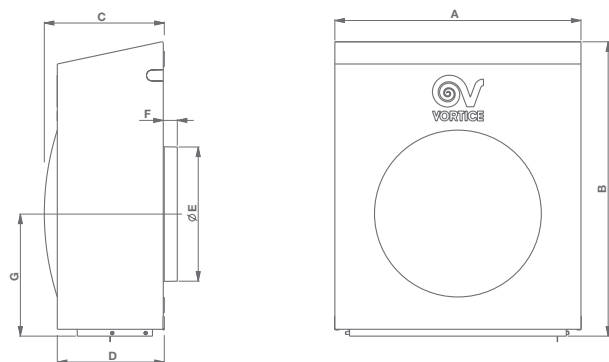
CA WE D



Models	A	B	C	D	Ø E	F	G	Kg
CA 100 WE D	262	345	127	113	97	20	-	4.6
CA 125 WE D								
CA 150 Q WE D								
CA 150 WE D E	360	430	173	155	147	178.5	6.7	
CA 160 WE D E					157			
CA 200 WE D E					197			

Dimensions (mm)

CA WE D E



SOUND LEVELS

Models	Code	125	250	500	1000	2000	4000	8000
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

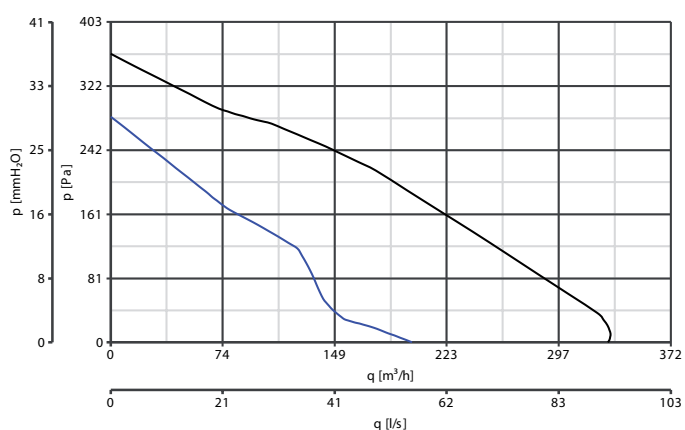
PRODUCT ACCESSORIES

Models	Description	Code	Product					
			CA 100 WE D code 16091	CA 125 WE D code 16092	CA 150 Q WE D code 16093	CA 150 WE D E code 16087	CA 160 WE D E code 16088	CA 200 WE D E code 16089
	C 1.5 Electronic speed controller	12966	•	•	•	•	•	•
	C 2.5 Electronic speed controller	12967	•	•	•	•	•	•
	SCB Built-in controller adaptor for C 1.5 and C 2.5	22481	12966 - 12967					
	C HCS Environmental sensor for humidity	12994	•	•	•	•	•	•
	C TEMP Environmental sensor for temperature	12992	•	•	•	•	•	•
	C SMOKE Environmental sensor for air quality	12993	•	•	•	•	•	•
	C PIR Passive infrared sensor	12998	•	•	•	•	•	•
	C TIMER Adjustable over-run timer	12999	•	•	•	•	•	•
	DUO Speed controller	22914	•	•	•			

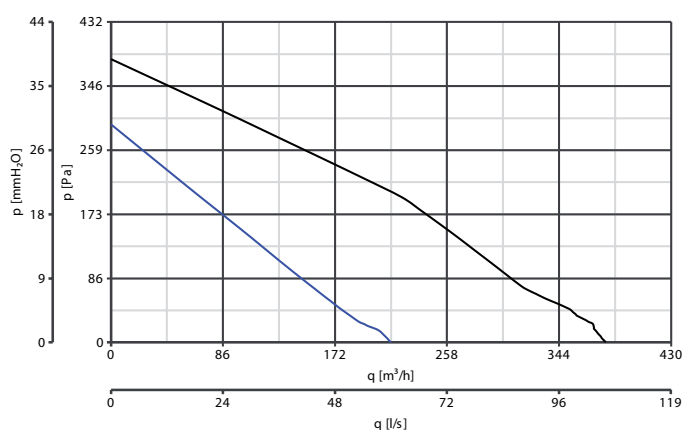
Description and size on page 52; System components on page 54

PERFORMANCE CURVES

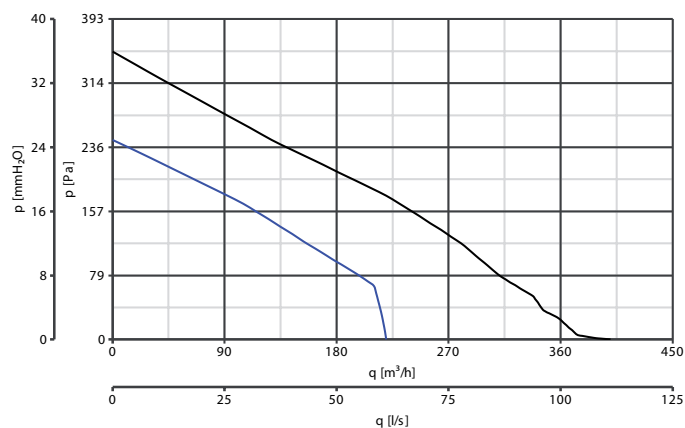
CA 100 WE D CODE 16091



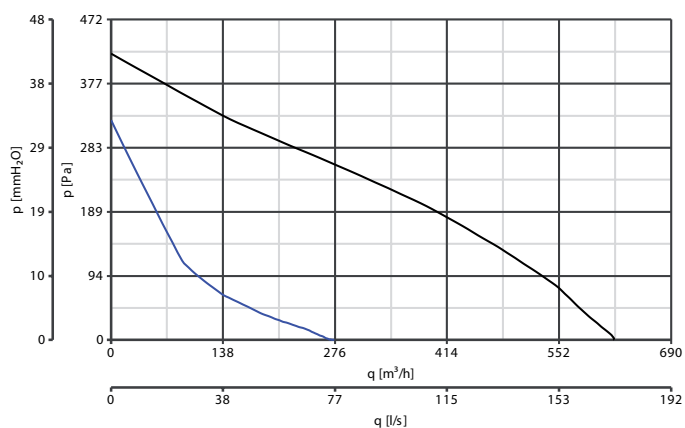
CA 125 WE D CODE 160092



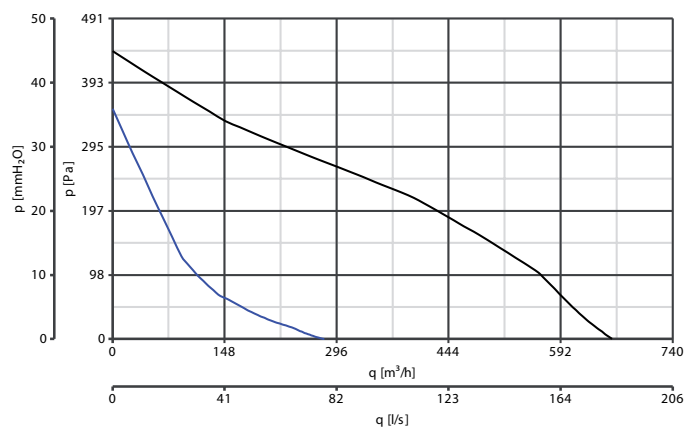
CA 150 Q WE D CODE 16093



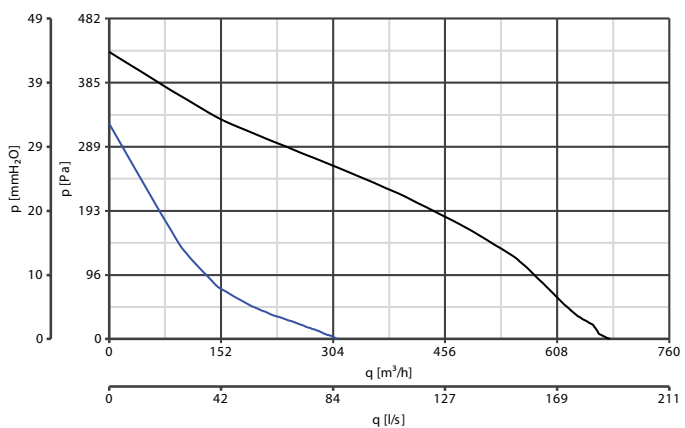
CA 150 WE D E CODE 16087



CA 160 WE D E CODE 16088



CA 200 WE D E CODE 16089



— min. — max.

NEW

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...

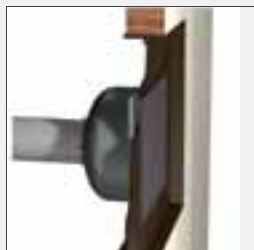
- **8 models:** CA 100 MD E W, CA 125 MD E W, CA 150 Q MD E W, CA 150 MD E W, CA 160 MD E W, CA 200 MD E W, CA 250 MD E W, CA 315 MD E W.
- Stripped and phosphated steel structure, bands and bases, painted with polyester powder which is resistant to atmospheric agents.
- Induction motor manual reset 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. □

TECHNICAL DATA

Models	Code	W min/max	A min/max	RPM min/max	Max Airflow		Max Pressure		Lp dB(A)* min/max	Max °C
					m³/h min/max	l/s min/max	mmH₂O 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
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	50
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	50
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
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	55
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	55
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	55
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	55

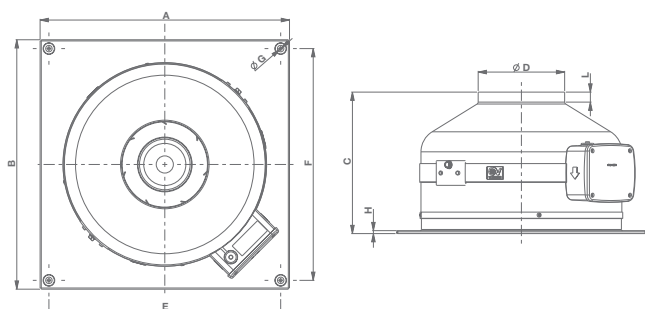
* Sound pressure level measured at 3 m in free field conditions with long-cased appliance in delivery mode in accordance with standard EN ISO 9614.

Electrical supply: 230 V ~ 50 Hz.





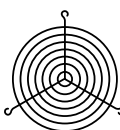
DIMENSIONS



Models	A	B	C	Ø D	E	F	Ø G	H	L	Kg
CA 100 MD E W	334	334	210	97	304	304	5	5	15	3.3
CA 125 MD E W				122					23	3.3
CA 150 Q MD E W				147					30	3.3
CA 150 MD E W	424	424	245	147	394	394	5	5	17	5.5
CA 160 MD E W				157					18	5.5
CA 200 MD E W				197					20	5.5
CA 250 MD E W				237					38	6.1
CA 315 MD E W	489	489	260	312	459	459	5	5	36	11

Dimensions (mm)

PRODUCT ACCESSORIES

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

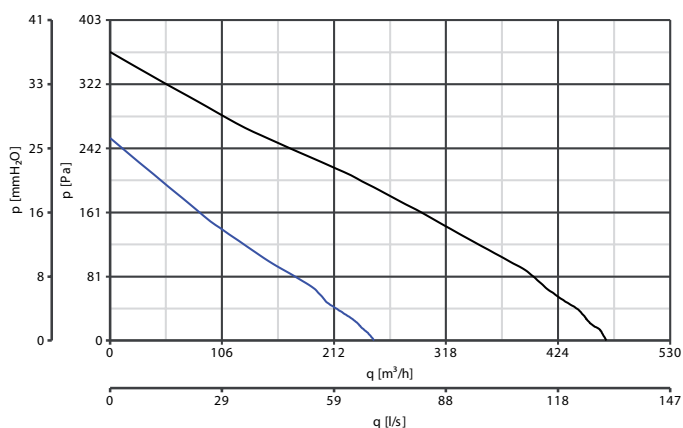
Description and size on page 52; System components on page 54

CA MD E W RANGE

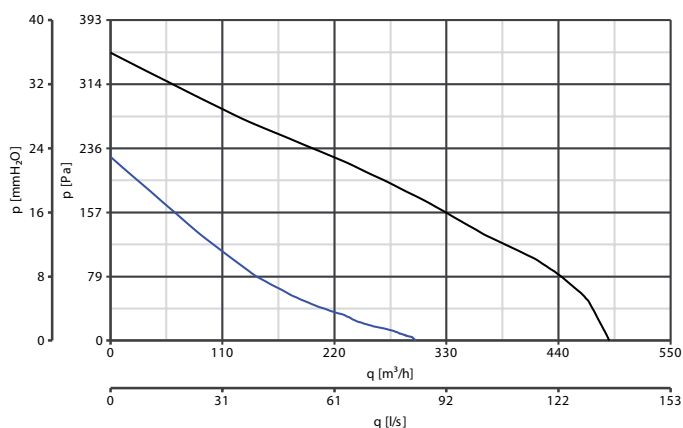
Centrifugal duct fans for wall mounting

PERFORMANCE CURVES

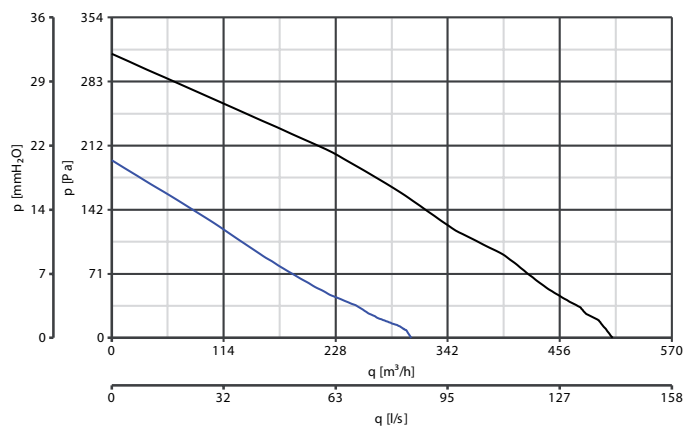
CA 100 MD E W CODE 16120



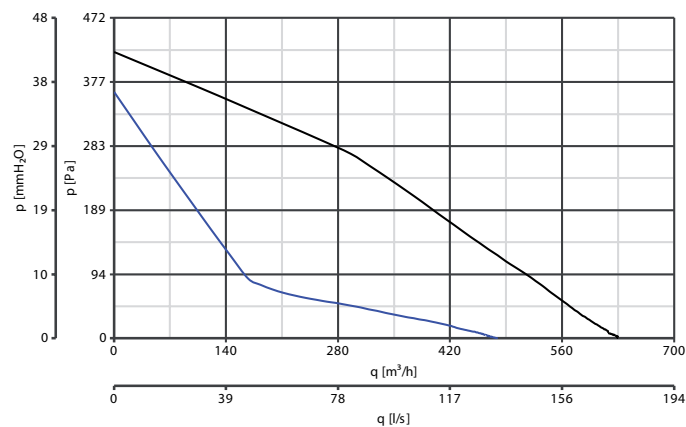
CA 125 MD E W CODE 16121



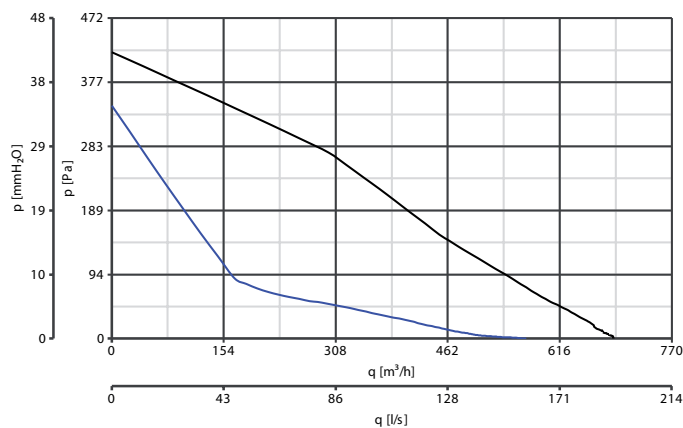
CA 150 Q MD E W CODE 16122



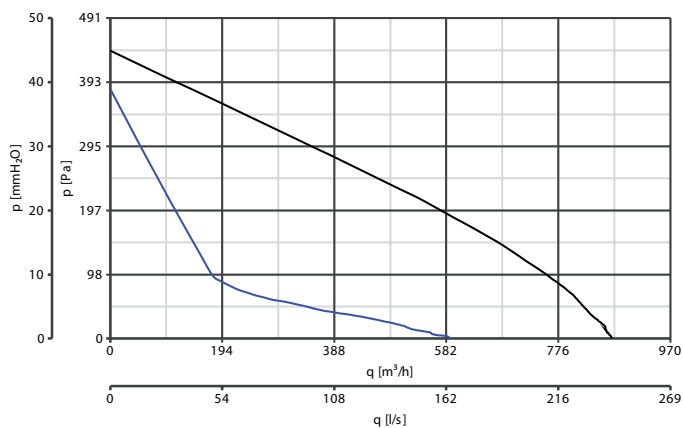
CA 150 MD E W CODE 16133



CA 160 MD E W CODE 16134

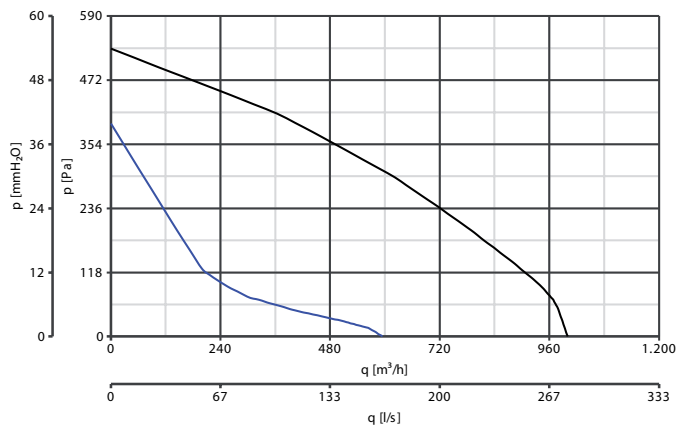


CA 200 MD E W CODE 16135



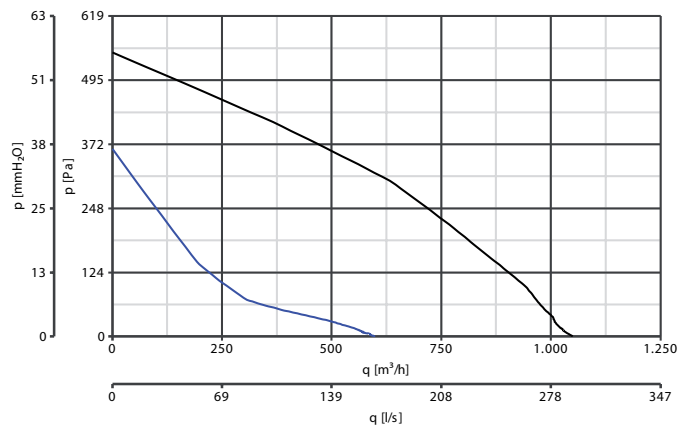
PERFORMANCE CURVES

CA 250 MD E W CODE 16136



— min. — max.

CA 315 MD E W CODE 16137



NEW

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...

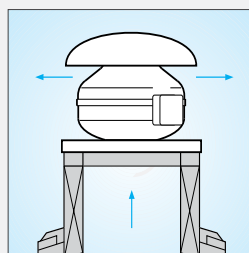
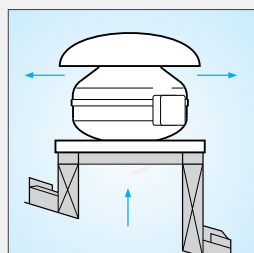
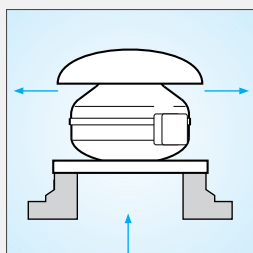
- **8 models:** CA 100 MD E RF, CA 125 MD E RF, CA 150 Q MD E RF, CA 150 MD E RF, CA 160 MD E RF, CA 200 MD E RF, CA 250 MD E RF, CA 315 MD E RF.
- Stripped and phosphated steel structure, bands and bases, painted with polyester powder which is resistant to atmospheric agents.
- Induction motor with 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. □

TECHNICAL DATA

Models	Code	W min/m	A min/max	RPM min/max	Max Airflow		Max Pressure		Lp dB(A)* min/max	Max °C
					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
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
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
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
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
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

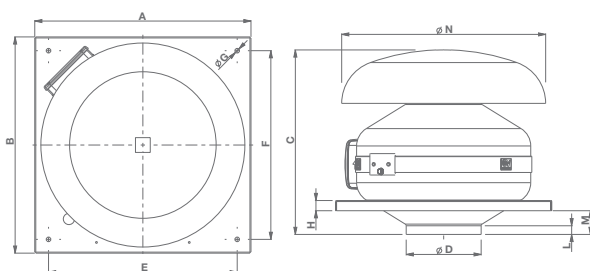
* Sound pressure level measured at 3 m in free field conditions with long-cased appliance in delivery mode in accordance with standard EN ISO 9614.

Electric supply: 230 V ~ 50 Hz.





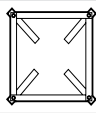
DIMENSIONS



Models	A	B	C	Ø D	E	F	Ø G	H	L	M	Ø N	Kg
CA 100 MD E RF	334	334	305	97	280	280	9	20	15	35	300	3.5
CA 125 MD E RF				122					23			3.5
CA 150 Q MD E RF				147					30			3.5
CA 150 MD E RF	424	424	365	147	370	370	9	20	17	47	400	5.8
CA 160 MD E RF				157					18			5.9
CA 200 MD E RF				197					20			6.1
CA 250 MD E RF	489	489	367	247	435	435	9	20	38	41	534	7.9
CA 315 MD E RF				415					36			14

Dimensions (mm)

PRODUCT ACCESSORIES

Models	Description	Code	Product									
			CA 100 MD E RF code 16140	CA 125 MD E RF code 16141	CA 150 Q MD E RF code 16142	CA 150 MD E RF code 16183	CA 160 MD E RF code 16184	CA 200 MD E RF code 16185	CA 250 MD E RF code 16186	CA 315 MD E RF code 16187		
	C 1.5 Electronic speed controller 1.5 A	12966	•	•	•	•	•	•	•	•		
	C 2.5 Electronic speed controller 2.5 A	12967	•	•	•	•	•	•	•	•		
	SCB Built-in controller adaptor for C 1.5 and c 2.5	22481	12966 - 12967									
	C HCS Environmental sensor for humidity	12994	•	•	•	•	•	•	•	•		
	C TEMP Environmental sensor for temperature	12992	•	•	•	•	•	•	•	•		
	C SMOKE Environmental sensor for air quality	12993	•	•	•	•	•	•	•	•		
	C PIR Passive infrared sensor	12998	•	•	•	•	•	•	•	•		
	C TIMER Adjustable over-run timer	12999	•	•	•	•	•	•	•	•		
	DUO Speed controller	22914	•	•	•							
	CARF-C 125 Sub-frame	22543	•	•	•							
	CARF-C 150-160-200 Sub-frame	22544				•	•	•				
	CARF-C 250-315 Sub-frame	22545							•	•		
	CA-G 100 Intake protection grille nominal diameter 100 mm	22750	•									
	CA-G 125 Intake protection grille nominal diameter 125 mm	22755		•								
	CA-G 150 Intake protection grille nominal diameter 150 mm	22760			•	•						
	CA-G 160 Intake protection grille nominal diameter 160 mm	22762					•					
	CA-G 200 Intake protection grille no minal diameter 200 mm	22765						•				
	CA-G 250 Intake protection grille nominal diameter 250 mm	22770							•			
	CA-G 315 Intake protection grille nominal diameter 315 mm	22771								•		

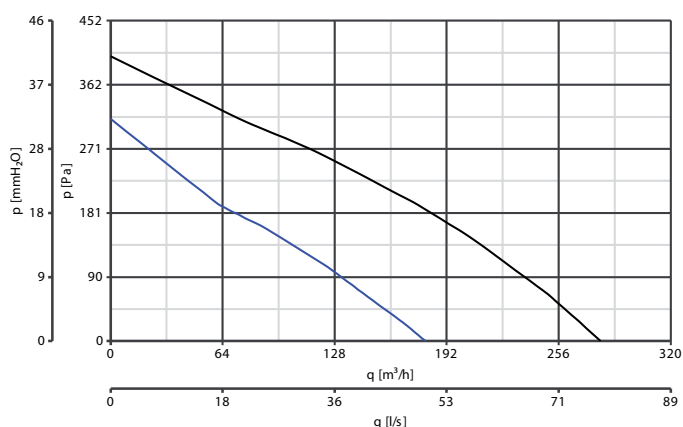
Description and size on page 52; System components on page 54

CA MD E RF RANGE

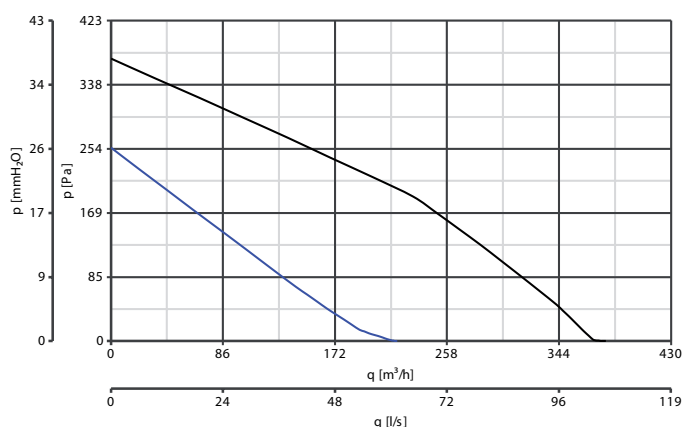
Centrifugal duct fans for roof mounting

PERFORMANCE CURVES

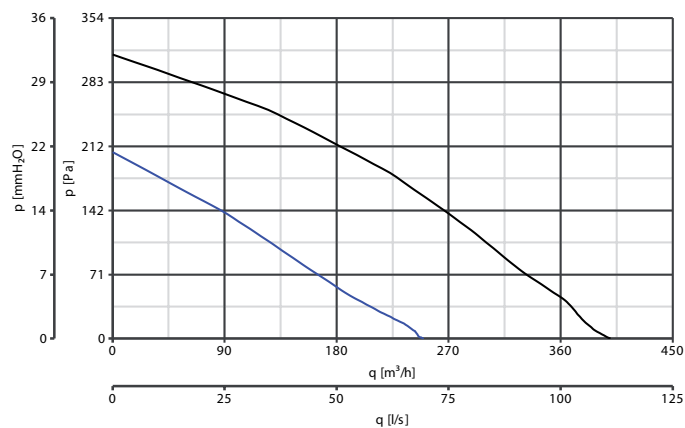
CA 100 MD E RF CODE 16140



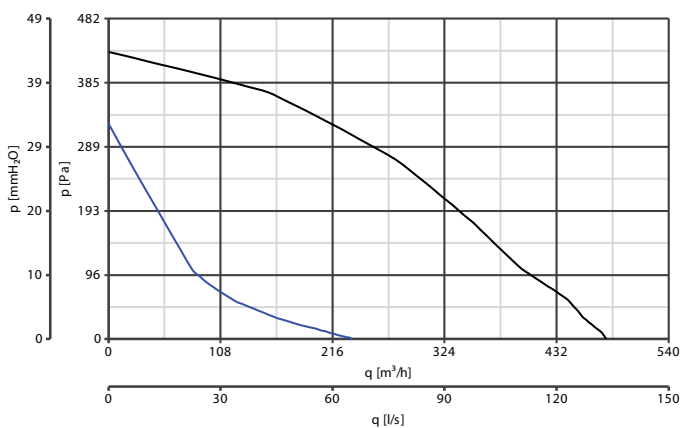
CA 125 MD E RF CODE 16141



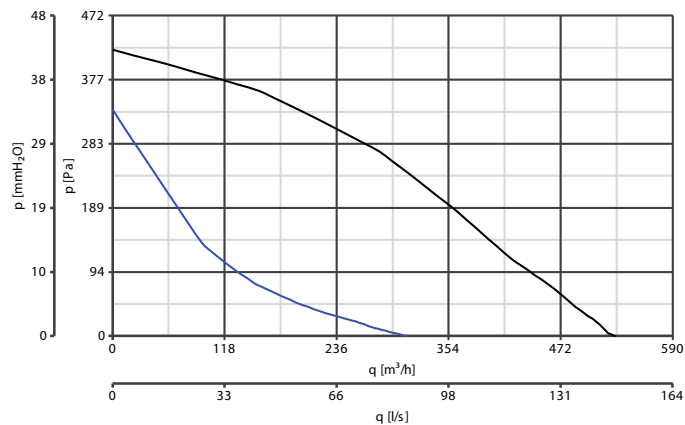
CA 150 Q MD E RF CODE 16142



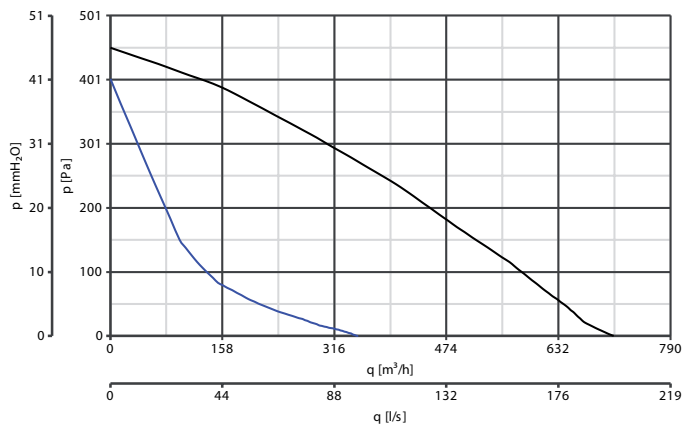
CA 150 MD E RF CODE 16183



CA 160 MD E RF CODE 16184

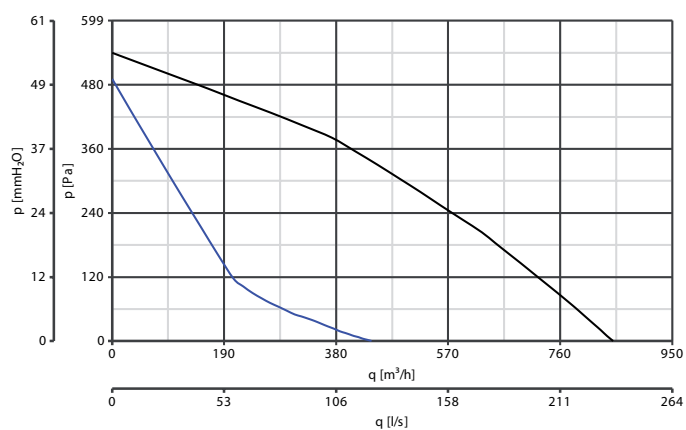


CA 200 MD E RF CODE 16185



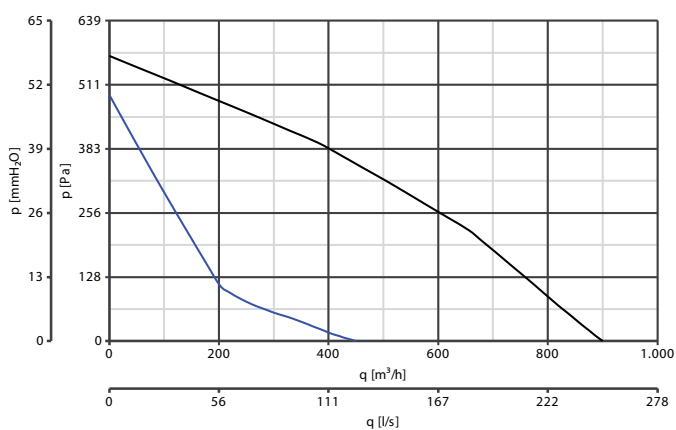
PERFORMANCE CURVES

CA 250 MD E RF CODE 16186



— min. — max.

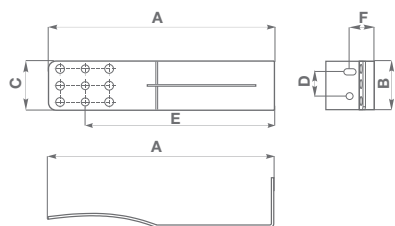
CA 315 MD E RF CODE 16187



ACCESSORIES IN-LINE

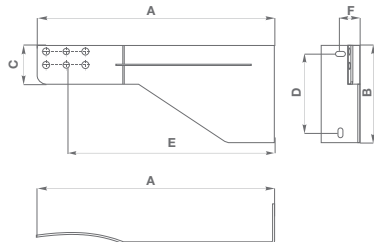
INCLUDED

Galvanised sheet-metal brackets
(for model CA V0 Ø 100-125-150)



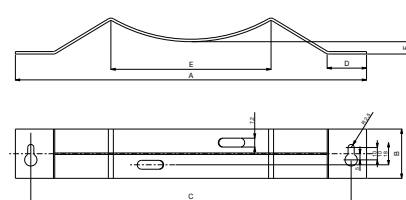
Models	A	B	C	D	E	F
brackets	186	40	40	20	156	10

Galvanised sheet-metal brackets
(for model CA MD - CA MD E - CA ES Ø 150-160-200-250-315 and CA V0 200-250-315)



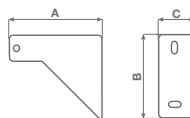
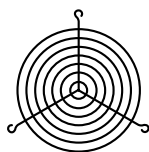
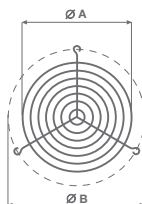
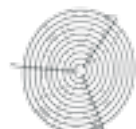
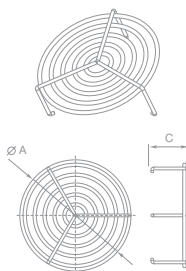
Models	A	B	C	D	E	F
brackets	245	100	40	80	215	10

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

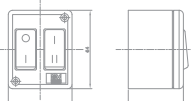
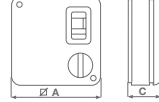
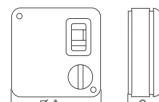
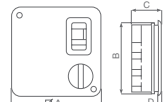


Models	A	B	C	D	E	F
brackets	285	40	260	32	130	10

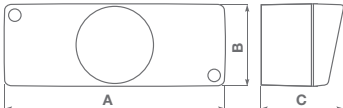
PRODUCT ACCESSORIES

Models		Code	Dimensions																																								
	CA-MU Galvanized sheet-metal brackets - For wall or ceiling mounting	22674	 <table><tr><th>A</th><th>Ø B</th><th>C</th></tr><tr><td>84</td><td>75</td><td>35</td></tr></table> Dimensions (mm)	A	Ø B	C	84	75	35																																		
A	Ø B	C																																									
84	75	35																																									
	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)	22750 22755 22760 22762 22765 22770 22775	 <table><tr><th>Models</th><th>Code</th><th>Ø A</th><th>Ø B</th><th>N. fiss.</th></tr><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></table> Dimensions (mm)	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°
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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°																																							
	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	22701 22702 22703 22704 22705 22706	 <table><tr><th>Models</th><th>Code</th><th>Ø A</th><th>C</th></tr><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></table> Dimensions (mm)	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												
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LINEO-G 250	22706	255	50.5																																								

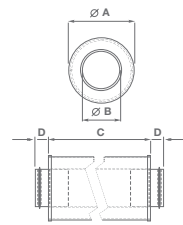
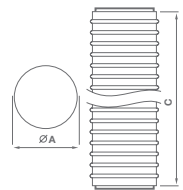
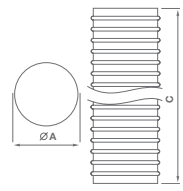
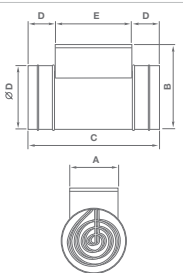
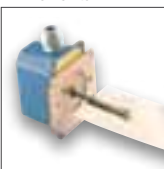
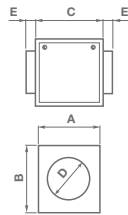
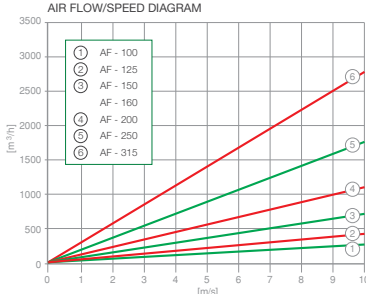
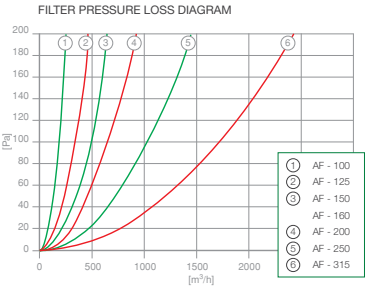
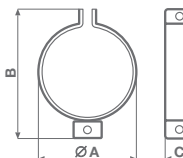
SPEED CONTROLLERS

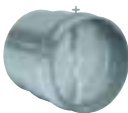
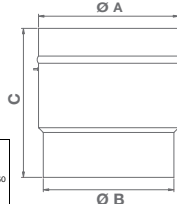
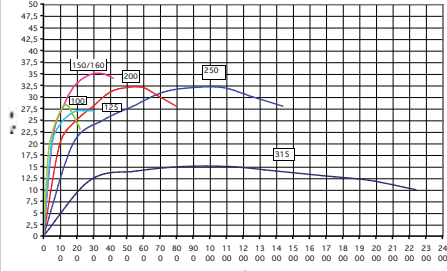
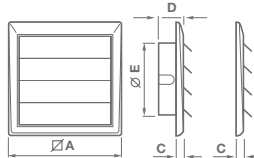
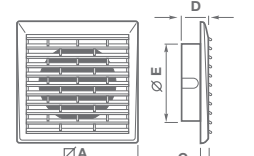
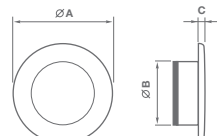
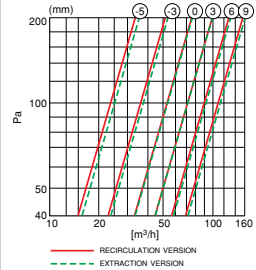
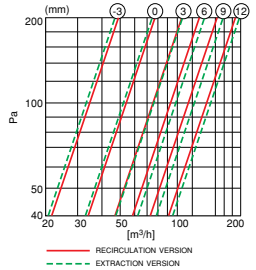
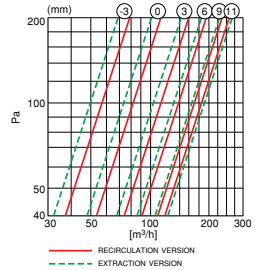
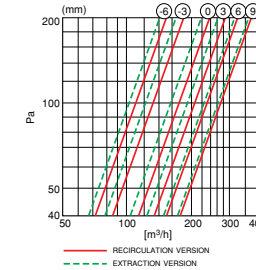
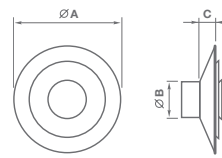
Models		Code	Dimensions																			
	DUO Speed controller - Two speeds switch - On/off switch	22914		<table><tr><th>Models</th><th>Code</th><th>∅ A</th><th>B</th><th>C</th></tr><tr><td>DUO</td><td>22914</td><td>52</td><td>64</td><td>45</td></tr></table> Dimensions (mm)				Models	Code	∅ A	B	C	DUO	22914	52	64	45					
Models	Code	∅ A	B	C																		
DUO	22914	52	64	45																		
	C5 0.5 5 Position Speed Controller - 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	12987		<table><tr><th>Models</th><th>Code</th><th>∅ A</th><th colspan="2">C</th></tr><tr><td>C5 0.5</td><td>12987</td><td>120</td><td colspan="2">43</td></tr></table> Dimensions (mm)				Models	Code	∅ A	C		C5 0.5	12987	120	43						
Models	Code	∅ A	C																			
C5 0.5	12987	120	43																			
	C 1.5 - C 2.5 Non Reversible Variable Electronic Speed Controller - 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	12966 12967		<table><tr><th>Models</th><th>Code</th><th>∅ A</th><th colspan="2">C</th></tr><tr><td>C 1.5</td><td>12966</td><td>120</td><td colspan="2">43</td></tr><tr><td>C 2.5</td><td>12967</td><td>120</td><td colspan="2">43</td></tr></table> Dimensions (mm)				Models	Code	∅ A	C		C 1.5	12966	120	43		C 2.5	12967	120	43	
Models	Code	∅ A	C																			
C 1.5	12966	120	43																			
C 2.5	12967	120	43																			
	SCNRB Non Reversible Variable Electronic Speed Controller (built-in) - Not suitable for products with timer or automatic shutters - Weight 0.2 Kg - Maximum load: 200 W - Double insulation	12971		<table><tr><th>∅ A</th><th>B</th><th>C</th><th>D</th></tr><tr><td>142</td><td>135</td><td>59.5</td><td>4.5</td></tr></table> Dimensions (mm)				∅ A	B	C	D	142	135	59.5	4.5							
∅ A	B	C	D																			
142	135	59.5	4.5																			

ENVIRONMENTAL SENSOR

Models		Code	Dimensions																														
	Sensor units <i>Sensor units are appliances which detect certain environmental conditions (humidity, temperature, human motion, odour and smoke concentration) and automatically activate the extractor fans. They may also be connected to Vortice control units, enhancing their functions.</i>																																
	C HCS (code 12994) <i>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.</i>																																
	C TEMP (code 12992) <i>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.</i>	12994 12992 12993 12998 12999	Technical Data - Supply voltage 220-240 V - Frequency: 50/60 Hz - Max load 3A - Operating temperature: 50°C - Protection rating IP20																														
	C SMOKE (code 12993) <i>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.</i>																																
	C PIR (code 12998) <i>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.</i>		<table><tr><th>Models</th><th>Code</th><th>A</th><th>B</th><th>C</th></tr><tr><td>C HCS</td><td>12994</td><td>144</td><td>54</td><td>55.8</td></tr><tr><td>C TEMP</td><td>12992</td><td>144</td><td>54</td><td>55.8</td></tr><tr><td>C SMOKE</td><td>12993</td><td>144</td><td>54</td><td>55.8</td></tr><tr><td>C PIR</td><td>12998</td><td>144</td><td>54</td><td>55.8</td></tr><tr><td>C TIMER</td><td>12999</td><td>144</td><td>54</td><td>55.8</td></tr></table>	Models	Code	A	B	C	C HCS	12994	144	54	55.8	C TEMP	12992	144	54	55.8	C SMOKE	12993	144	54	55.8	C PIR	12998	144	54	55.8	C TIMER	12999	144	54	55.8
Models	Code	A	B	C																													
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C SMOKE	12993	144	54	55.8																													
C PIR	12998	144	54	55.8																													
C TIMER	12999	144	54	55.8																													
	C TIMER (code 12999) <i>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.</i>		Dimensions (mm)																														

SYSTEM COMPONENTS

Models		Code	Dimensions																																																																
	NA Noise attenuator - To be installed in the ventilation system, always after the fan, and/or the filter box/duct heater	22780 22781 22756 22784 22785 22786	 <table><tr><th>Models</th><th>Code</th><th>Ø A</th><th>Ø B</th><th>C</th><th>D</th></tr><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></table> Dimensions (mm)	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																																																														
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NA 315	22786	417	315	1000	60																																																														
	AFD Aluminium flexible duct - Ideal for ventilation and air conditioning low noise and for high pressure.	22175 22176 22177 22179 22180 22181	 <table><tr><th>Models</th><th>Code</th><th>Ø A</th><th>C</th></tr><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></table> Dimensions (mm)	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 250-10	22180	254	10000																																																																
AFD 315-10	22181	315	10000																																																																
	AFD-I Insulated aluminium flexible duct - Ideal for ventilation and air conditioning, low heat dissipation, condensation, noise and for high pressure	22182 22183 22184 22186 22187 22188	 <table><tr><th>Models</th><th>Code</th><th>Ø A</th><th>C</th></tr><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></table> Dimensions (mm)	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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AFD-I 100-4	22182	102	4000																																																																
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AFD-I 315-10	22188	315	10000																																																																
	AH Duct heater - To be installed in the ventilation system, always after the fan and/or the noise attenuator/air filter	22796 22797 22759 22790 22791 22792 22779	 <table><tr><th>Models</th><th>Code</th><th>A</th><th>B</th><th>C</th><th>Ø D</th><th>E</th><th>F</th></tr><tr><td>AH 100</td><td>22796</td><td>100</td><td>185</td><td>325</td><td>100</td><td>40</td><td>230</td></tr><tr><td>AH 125</td><td>22797</td><td>125</td><td>225</td><td>325</td><td>125</td><td>40</td><td>230</td></tr><tr><td>AH 150</td><td>22759</td><td>150</td><td>250</td><td>380</td><td>150</td><td>40</td><td>285</td></tr><tr><td>AH 200</td><td>22790</td><td>150</td><td>300</td><td>380</td><td>200</td><td>40</td><td>285</td></tr><tr><td>AH 250</td><td>22791</td><td>150</td><td>350</td><td>380</td><td>250</td><td>40</td><td>285</td></tr><tr><td>AH 315</td><td>22792</td><td>150</td><td>415</td><td>380</td><td>315</td><td>40</td><td>245</td></tr><tr><td>H3 315</td><td>22779</td><td>150</td><td>415</td><td>380</td><td>315</td><td>40</td><td>240</td></tr></table> Dimensions (mm)	Models	Code	A	B	C	Ø D	E	F	AH 100	22796	100	185	325	100	40	230	AH 125	22797	125	225	325	125	40	230	AH 150	22759	150	250	380	150	40	285	AH 200	22790	150	300	380	200	40	285	AH 250	22791	150	350	380	250	40	285	AH 315	22792	150	415	380	315	40	245	H3 315	22779	150	415	380	315	40	240
Models	Code	A	B	C	Ø D	E	F																																																												
AH 100	22796	100	185	325	100	40	230																																																												
AH 125	22797	125	225	325	125	40	230																																																												
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AH 200	22790	150	300	380	200	40	285																																																												
AH 250	22791	150	350	380	250	40	285																																																												
AH 315	22792	150	415	380	315	40	245																																																												
H3 315	22779	150	415	380	315	40	240																																																												
   	AF Filter box - To be installed in the ventilation system, always before the fan, and/or the noise attenuator/duct heater - Suitable to avoid impurities entering into the ventilation system Code 22240 PD - Pressure switch Code 22241 FA - Flow switch Code 22242 Pressure switch connection set	22793 22794 22799 22787 22788	 <table><tr><th>Models</th><th>Code</th><th>A</th><th>B</th><th>C</th><th>Ø D</th><th>E</th></tr><tr><td>AF 100</td><td>22793</td><td>210</td><td>170</td><td>125</td><td>100</td><td>227</td></tr><tr><td>AF 125</td><td>22794</td><td>220</td><td>205</td><td>145</td><td>125</td><td>252</td></tr><tr><td>AF 150</td><td>22799</td><td>270</td><td>235</td><td>160</td><td>150</td><td>267</td></tr><tr><td>AF 200</td><td>22787</td><td>320</td><td>275</td><td>185</td><td>200</td><td>302</td></tr><tr><td>AF 250</td><td>22788</td><td>355</td><td>320</td><td>235</td><td>250</td><td>352</td></tr></table> Dimensions (mm)	Models	Code	A	B	C	Ø D	E	AF 100	22793	210	170	125	100	227	AF 125	22794	220	205	145	125	252	AF 150	22799	270	235	160	150	267	AF 200	22787	320	275	185	200	302	AF 250	22788	355	320	235	250	352																						
Models	Code	A	B	C	Ø D	E																																																													
AF 100	22793	210	170	125	100	227																																																													
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AF 150	22799	270	235	160	150	267																																																													
AF 200	22787	320	275	185	200	302																																																													
AF 250	22788	355	320	235	250	352																																																													
			 																																																																
	CA-FU Pipe clamps - Galvanized sheet steel body and aluminium fins complete in packs of two	22667 22668 22669 22671 22672 22673	 <table><tr><th>Models</th><th>Code</th><th>Ø A</th><th>B</th><th>C</th></tr><tr><td>CA-FU 100</td><td>22667</td><td>103</td><td>138</td><td>30</td></tr><tr><td>CA-FU 125</td><td>22668</td><td>128</td><td>163</td><td>30</td></tr><tr><td>CA-FU 150</td><td>22669</td><td>153</td><td>188</td><td>30</td></tr><tr><td>CA-FU 200</td><td>22671</td><td>203</td><td>238</td><td>30</td></tr><tr><td>CA-FU 250</td><td>22672</td><td>253</td><td>288</td><td>30</td></tr><tr><td>CA-FU 315</td><td>22673</td><td>318</td><td>353</td><td>30</td></tr></table> Dimensions (mm)	Models	Code	Ø A	B	C	CA-FU 100	22667	103	138	30	CA-FU 125	22668	128	163	30	CA-FU 150	22669	153	188	30	CA-FU 200	22671	203	238	30	CA-FU 250	22672	253	288	30	CA-FU 315	22673	318	353	30																													
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Models		Code	Dimensions																																										
	IN LINE-S Backdraught shutter	22551																																											
	- With aluminium shutters and return spring, for preventing air back-draughts or penetration of rain when the unit is turned off	22556																																											
		22562																																											
		22566																																											
		22571																																											
	Pressure losses IN-LINE-S perdite di carico IN-LINE-S 		<table><tr><th>Models</th><th>Code</th><th>Ø A</th><th>Ø B</th><th>C</th></tr><tr><td>IN LINE-S 100</td><td>22551</td><td>103</td><td>96</td><td>100</td></tr><tr><td>IN LINE-S 125</td><td>22556</td><td>128</td><td>122</td><td>110</td></tr><tr><td>IN LINE-S 150</td><td>22562</td><td>153</td><td>146</td><td>120</td></tr><tr><td>IN LINE-S 200</td><td>22566</td><td>203</td><td>196</td><td>150</td></tr><tr><td>IN LINE-S 250</td><td>22571</td><td>253</td><td>247</td><td>180</td></tr><tr><td>IN LINE-S 315</td><td>22576</td><td>318</td><td>312</td><td>210</td></tr></table> Dimensions (mm)	Models	Code	Ø A	Ø B	C	IN LINE-S 100	22551	103	96	100	IN LINE-S 125	22556	128	122	110	IN LINE-S 150	22562	153	146	120	IN LINE-S 200	22566	203	196	150	IN LINE-S 250	22571	253	247	180	IN LINE-S 315	22576	318	312	210							
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IN LINE-S 315	22576	318	312	210																																									
	GGR Gravity shutter	22332																																											
	- For wall installation to prevent re-entry of air and entry of objects	22333																																											
		22334																																											
		22335																																											
		22336																																											
		22337	<table><tr><th>Models</th><th>Code</th><th>Ø A</th><th>C</th><th>D</th><th>Ø E</th></tr><tr><td>GGR 100</td><td>22332</td><td>140</td><td>8</td><td>28</td><td>99</td></tr><tr><td>GGR 120/125</td><td>22333</td><td>160</td><td>8</td><td>28</td><td>119</td></tr><tr><td>GGR 150</td><td>22334</td><td>198</td><td>8</td><td>28</td><td>155</td></tr><tr><td>GGR 200</td><td>22335</td><td>254</td><td>14</td><td>-</td><td>-</td></tr><tr><td>GGR 250</td><td>22336</td><td>299</td><td>14</td><td>-</td><td>-</td></tr><tr><td>GGR 315</td><td>22337</td><td>391</td><td>14</td><td>-</td><td>-</td></tr></table> Dimensions (mm)	Models	Code	Ø A	C	D	Ø E	GGR 100	22332	140	8	28	99	GGR 120/125	22333	160	8	28	119	GGR 150	22334	198	8	28	155	GGR 200	22335	254	14	-	-	GGR 250	22336	299	14	-	-	GGR 315	22337	391	14	-	-
Models	Code	Ø A	C	D	Ø E																																								
GGR 100	22332	140	8	28	99																																								
GGR 120/125	22333	160	8	28	119																																								
GGR 150	22334	198	8	28	155																																								
GGR 200	22335	254	14	-	-																																								
GGR 250	22336	299	14	-	-																																								
GGR 315	22337	391	14	-	-																																								
	FG Fixed grille	22165																																											
	- For mounting at the start or at the end of the ventilation duct	22166																																											
		22167																																											
			<table><tr><th>Models</th><th>Code</th><th>Ø A</th><th>C</th><th>D</th><th>Ø E</th></tr><tr><td>FG 100</td><td>22165</td><td>140</td><td>8</td><td>28</td><td>99</td></tr><tr><td>FG 125</td><td>22166</td><td>160</td><td>8</td><td>28</td><td>119</td></tr><tr><td>FG 150</td><td>22167</td><td>198</td><td>8</td><td>28</td><td>155</td></tr></table> Dimensions (mm)	Models	Code	Ø A	C	D	Ø E	FG 100	22165	140	8	28	99	FG 125	22166	160	8	28	119	FG 150	22167	198	8	28	155																		
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FG 100	22165	140	8	28	99																																								
FG 125	22166	160	8	28	119																																								
FG 150	22167	198	8	28	155																																								
	AV Air valve	22189																																											
	- To be applied to plafond, ceiling, ventilation ducts, double-ceilings etc...	22190																																											
		22191																																											
		22192																																											
		22193																																											
	Pressure losses AV 100 		AV 125 																																										
			AV 150/160 																																										
			AV 200 																																										
	CD Air diffuser	22127																																											
	- To be applied to plafond, ceilings, ventilation ducts, double ceilings etc...	22168																																											
	- Optional included: Adapter for connection to flexible duct.	22169																																											
			<table><tr><th>Models</th><th>Code</th><th>Ø A</th><th>Ø B</th><th>C</th></tr><tr><td>CD 200</td><td>22127</td><td>310</td><td>200</td><td>47</td></tr><tr><td>CD 250</td><td>22168</td><td>360</td><td>250</td><td>47</td></tr><tr><td>CD 315</td><td>22169</td><td>420</td><td>300</td><td>47</td></tr></table> Dimensions (mm)	Models	Code	Ø A	Ø B	C	CD 200	22127	310	200	47	CD 250	22168	360	250	47	CD 315	22169	420	300	47																						
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