NEW

VORTICE LINEO

In-line mixed flow extractor fans

VORTICE

VENTILATION
AIR CONDITIONING
AIR CLEANING
HEATING

Air is life

We work to promote quality of life and a contribute to social evolution through eco-friendly products that move air safely and efficiently.

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

Founded in 1974, Vortice France is located at Crétail 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
2011 - Our Shangai representative office was established

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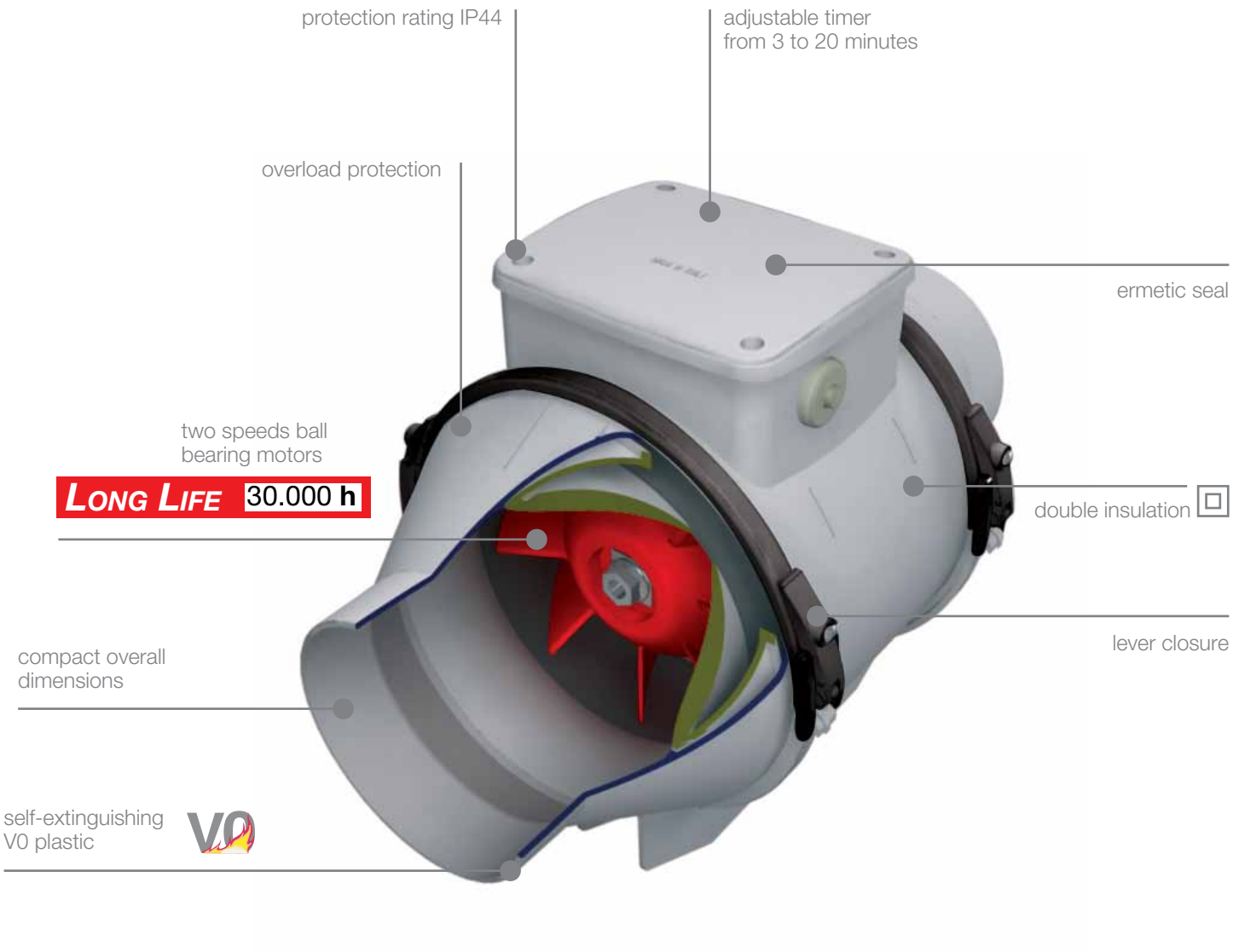
NEW

ES "Energy Saving"
in-Line mixed flow extractor fans
for duct mounting.

In-Line mixed flow extractor
fans for duct mounting.

COMMERCIAL **VENTILATION**

LINEO RANGE



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

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.



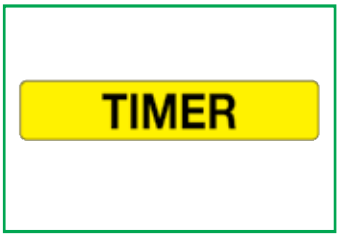

LINEO ES

Energy Saving
The Energy Saving Lineo ES models reduce specific consumption (lower consumption for the same performance).
They work efficiently over a much wider range of speeds.

LINEO V0

Overload protection
Lineo V0 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. 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).



Adjustable timer
Lineo V0 fans are also available with an adjustable, (from 3 to 20 minutes), overrun timer (models from 100 Q to 200). Only 1 speed allowed: minimum or maximum speed can be chosen.

LINEO ES, LINEO V0

Self-extinguishing V0 plastic
All models are in V0 grade plastic which guarantees the highest self-extinguishing rating as well as excellent mechanical strength.

V0 grade (Ref. UL 98)
V0 is the most self-extinguishing plastic available:
- V0 grade: flame self-extinguishing in 10 seconds without dripping
- V1 grade: flame self-extinguishing in 30 seconds without dripping
- V2 grade: flame self-extinguishing in 30 seconds with dripping.

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.

Long Life 30.000 h
Vortice Lineo range is fitted with ball bearing motors for a minimum 30.000 hours operation without mechanical malfunction.

Protection rating IP44
The products are protected against dust and water from all directions, making them ideal for installation in humid and wet areas.

Eco-Friendly
Vortice Lineo range guarantees a low environmental impact. Recyclable materials have been used and the “design for disassembly” technique has been followed (2002/96/EC - WEEE).

Two Speeds
All models with two speed operation, including timer models.

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.

LINEO ES

NEW

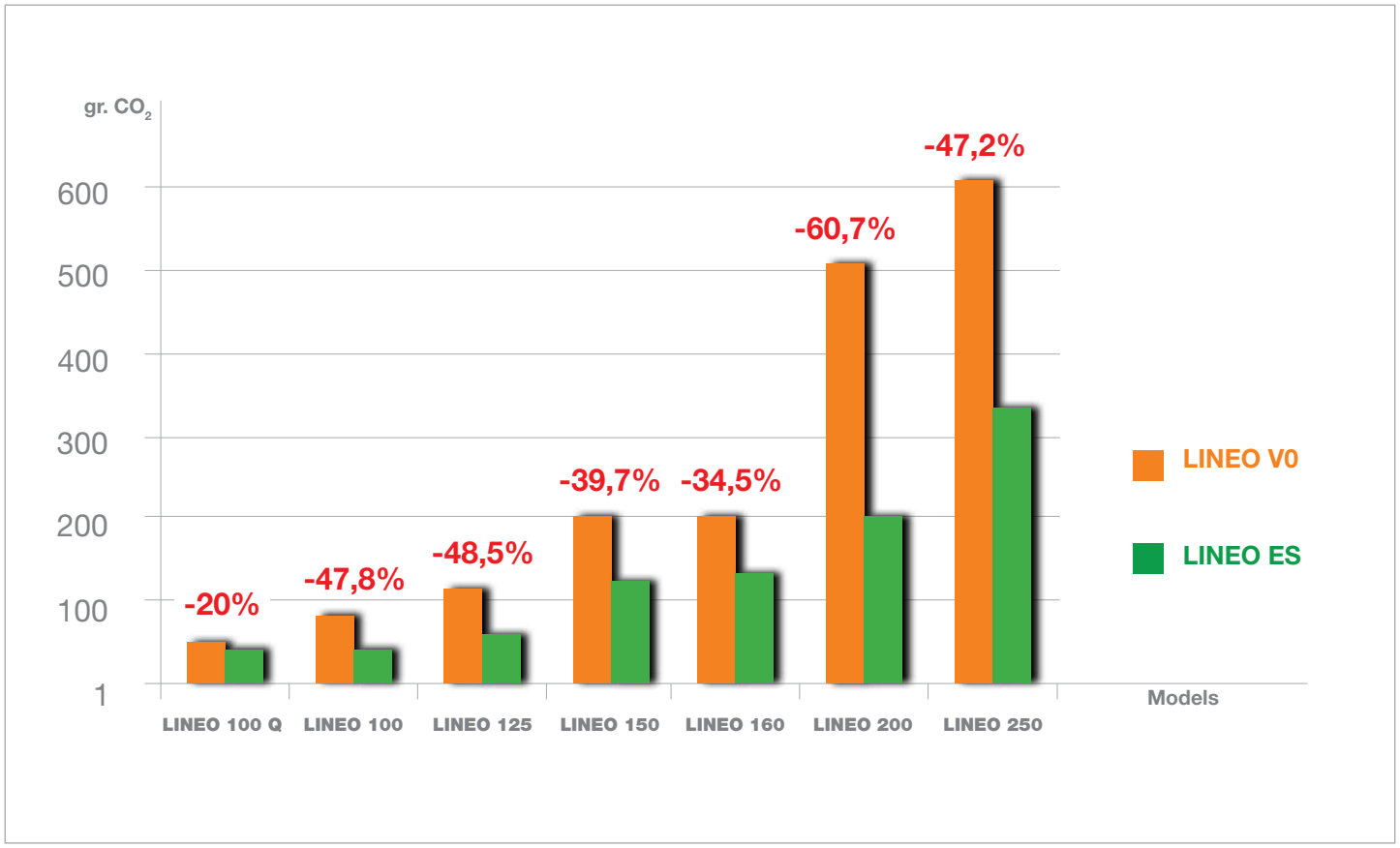
ES THANKS TO **BRUSHLESS MOTORS**

The high-efficiency EC brushless motor equipping ES models provides a really significant energy saving, unconceivable with regular AC motors.
The Energy Saving models (ES) are marked with a special Green symbol. This type of motor enables to classify products as “Energy Saving”, for two reasons:
1. they reduce specific consumption (lower consumption for the same performance, with efficiency greater than 80%, against about 30% of AC motors);
2. thanks to their modulability, which means that they work efficiently over a much wider range of speeds, they are able to adapt their output to actual real needs.

LINEO ES

CO_2 EMISSION **COMPARISON**

Annual reductions in CO_2 emissions (ref. [0,6 g / KWh]*)



*Source: German Federal Environment Agency (UBA)

LINEO ES

NEW

CARBON REDUCING ENERGY SAVING ™

LONG LIFE 30.000 **h**

Product specifications:

- 7 models:
  LINEO 100 Q ES
  LINEO 100 ES
  LINEO 125 ES
  LINEO 150 ES
  LINEO 160 ES
  LINEO 200 ES
  LINEO 250 ES.
- Enclosure and impellers made of self-extinguishing V0 polypropylene.
- Electrically controlled DC-EC brushless motors offer optimal performance and extremely low energy consumption, and can be adjusted individually.
- Ball bearing motors for a minimum 30.000 hours operation without mechanical malfunction.
- Three-phase brushless highly efficient motors.
- Constant torque operation: it is possible to choose between 2 alternative torque levels, (min speed - max speed).
- 2 speeds.
- Controllable with Vortice environmental sensors and DUO two-speed controller.
- Max temperature: +50 °C (Lineo 200 ES and 250 ES); +60 °C (Lineo 100 Q ES, 100 ES, 125 ES, 150 ES)
- Protection rating: IP44 (inline installation).
- Insulation class: Cl.II. ⧈

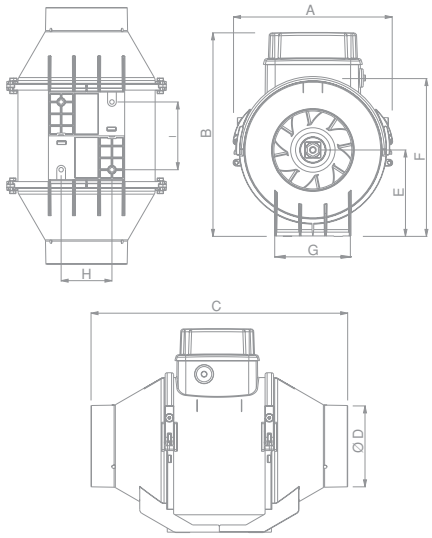
Accesories at page 28

KEY FEATURES

- Quick, easy installation. The mounting brackets supplied with the unit make installation fast and easy. Motor housing can be rotated to fit the mounting point for even simpler installation.
  Mounting bolts included.
- Simple maintenance. Lineo Es are equipped with a unique double-lever closure which allows the fan unit to be removed in just a few seconds without affecting the installation as a whole.
- Application inside horizontal or vertical ducting.
- Energy saving technology reduces specific consumption.
- By means of 2 trimmers on the circuit board, deliveries can be set within predetermined ranges, to achive the best mix of performance, consumption and sound emissions.
- Compact overall dimensions.

LINEO ES

DIMENSIONS



Models	Code	A	B	C	Ø D	E	F	G	H	I	Kg
LINEO 100 Q ES	17036	156	205	231	96	82	152	95	51.5	47.5	1.5
LINEO 100 ES	17031	188.5	240	303	96	101.5	189	90	60	80	1.9
LINEO 125 ES	17032	188.5	240	258	122	101.5	189	90	60	80	1.8
LINEO 150 ES	17033	214.5	265	294	146	112.5	212	110	60	80	2.2
LINEO 160 ES	17034	214.5	265	272.5	156	112.5	212	110	60	80	2.1
LINEO 200 ES	17037	234.5	290	300	196	125.5	235	140	94	100	2.5
LINEO 250 ES	17038	300	350	385	247	152.5	292	176.5	140	145	5.3

Dimensions (mm)

TECHNICAL DATA

Models	Code	Watt **W**		Rated current **A**		Air Flow **(m^3/h)**		Air Flow **(l/s)**		Pressure **(Pa)**		Pressure **(mmH_2O)**		RPM		Noise level at 3 m **dB(A)***	
		min speed	**max speed**	**min speed**	**max speed**	**min speed**	**max speed**	**min speed**	**max speed**	**min speed**	**max speed**	**min speed**	**max speed**	**min speed**	**max speed**	**min speed**	**max speed**
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	90 155 170	145 210 230	25 43 47	40 58 64	35 88 108	78 147 177	3.6 9 11	8 15 18	1420 2125 2560	2120 2850 3300	21.0 28.9 33.5	33.3 40.0 44.5
LINEO 100 ES	17031	5.5 8 11	8 12 17	0.06 0.09 0.11	0.09 0.12 0.17	140 180 220	185 255 270	39 50 61	51 71 75	69 118 167	118 225 255	7 12 17	12 23 26	1320 1620 1920	1650 2000 2330	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	190 250 300	270 365 380	53 69 83	75 101 105	88 147 196	157 284 324	9 15 20	16 29 33	1285 1600 1870	1660 2040 2370	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	325 385 465	440 550 620	90 107 129	122 153 172	147 216 304	275 422 520	15 22 31	28 43 53	1340 1630 1870	1875 2230 2560	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	325 385 465	450 570 630	90 107 129	125 158 175	147 216 304	275 422 520	15 22 31	28 43 53	1300 1560 1830	1900 2290 2620	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	620 750 870	760 1000 1080	172 208 242	211 278 300	127 186 245	186 265 363	13 19 25	19 27 37	1990 2400 2750	2330 2820 3120	39.4 44.8 45.3	44.3 46.2 47.5
LINEO 250 ES	17038	27 45 65	59 95 124	0.26 0.42 0.59	0.54 0.83 1.06	650 800 920	850 1150 1250	180 222 255	236 319 347	186 284 363	333 500 637	19 29 37	34 51 65	1720 2100 2400	2280 2750 3010	43.0 47.4 50.4	50.9 55.0 57.3

The values in the table refer to three conditions: minimun setting, nominal and maximum setting.
***In free field, measured from inlet.

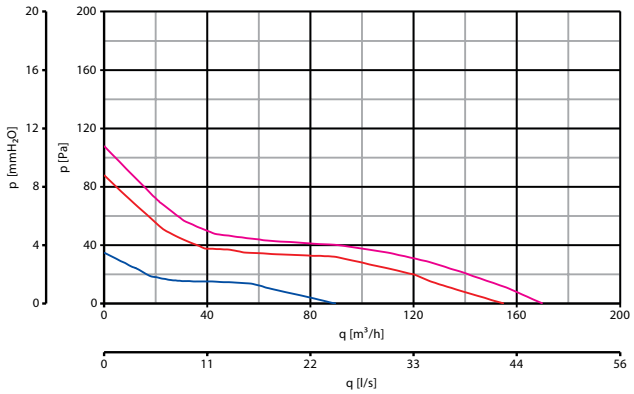
Electric supply: 220-240V-50Hz.

LINEO ES

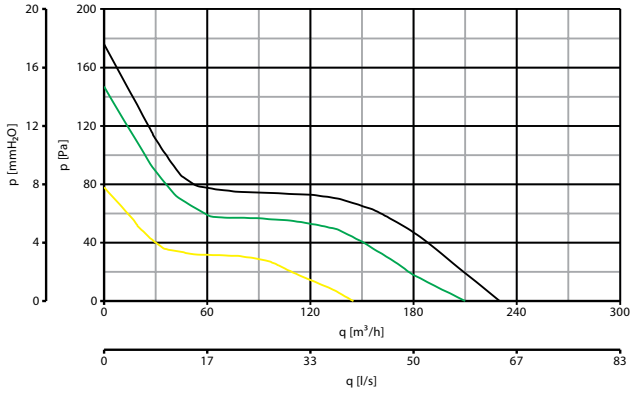
PERFORMANCE **CURVES**

LINEO 100 Q ES
code 17036

min. speed

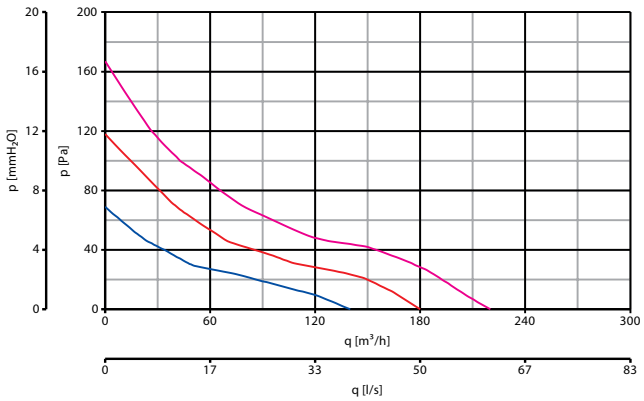


max. speed

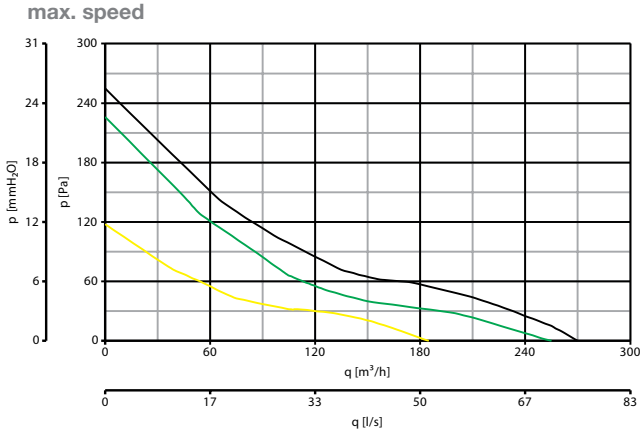


LINEO 100 ES
code 17031

min. speed



max. speed



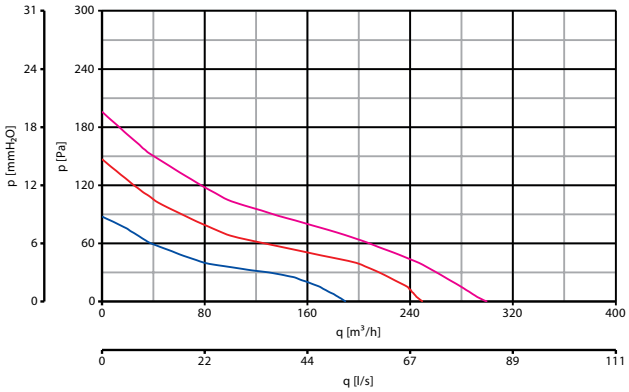
p = static pressure

LINEO ES

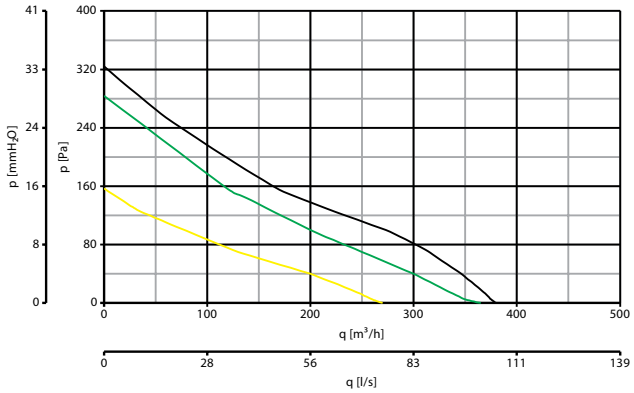
PERFORMANCE **CURVES**

LINEO 125 ES
code 17032

min. speed

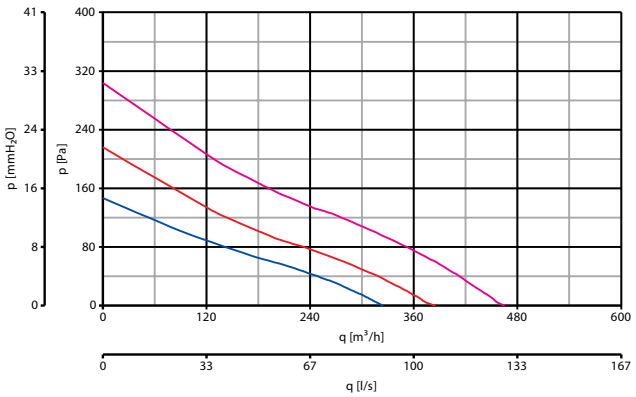


max. speed

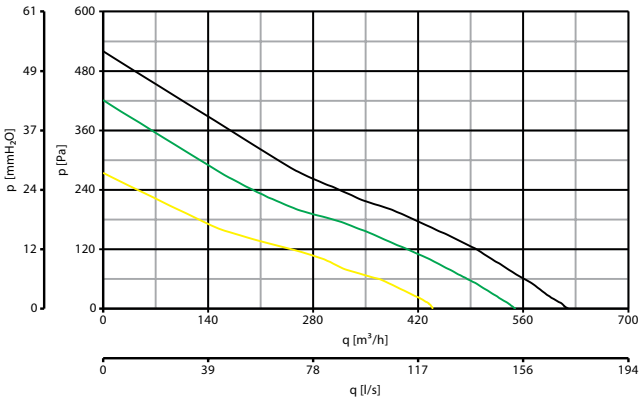


LINEO 150 ES
code 17033

min. speed



max. speed



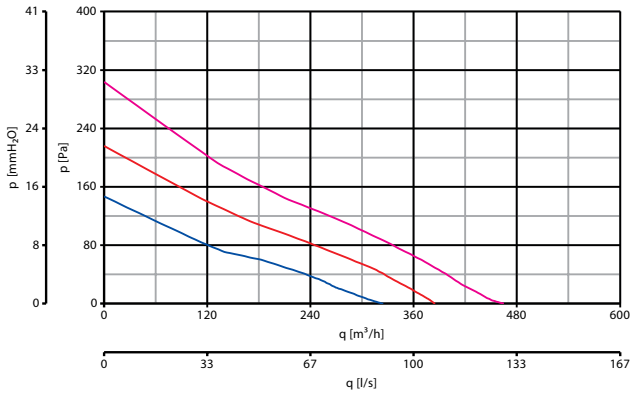
p = static pressure

LINEO ES

PERFORMANCE **CURVES**

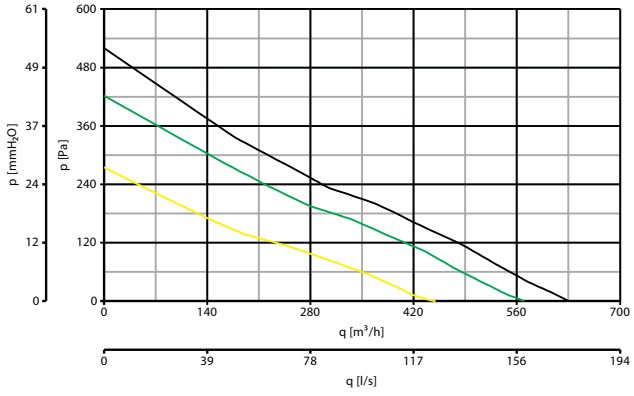
LINEO 160 ES
code 17034

min. speed



min. setting
nominal setting
max. setting

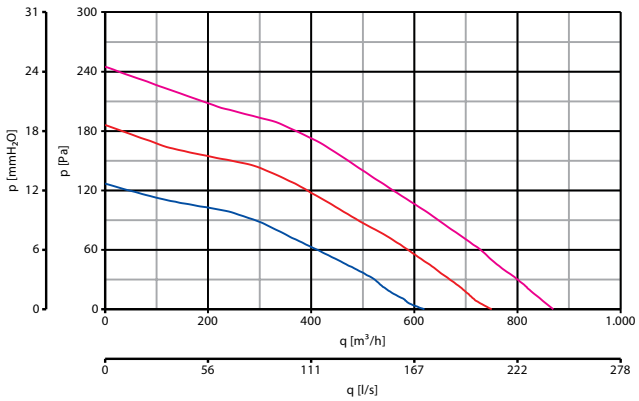
max. speed



min. setting
nominal setting
max. setting

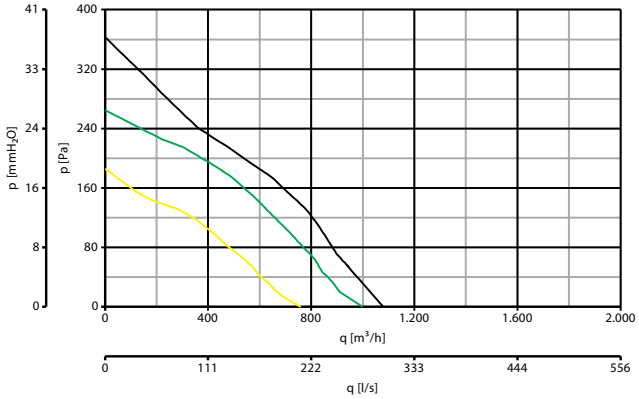
LINEO 200 ES
code 17037

min. speed



min. setting
nominal setting
max. setting

max. speed



min. setting
nominal setting
max. setting

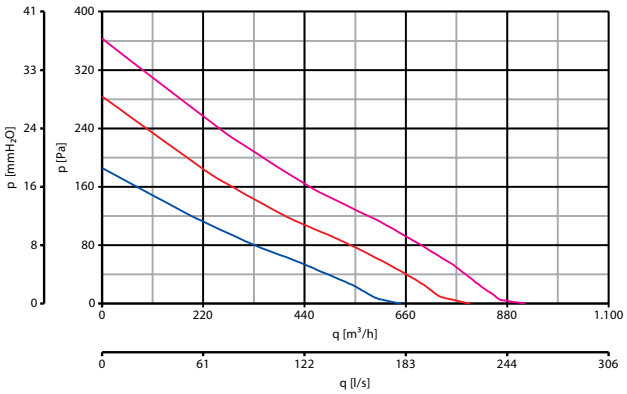
p = static pressure

LINEO ES

PERFORMANCE **CURVES**

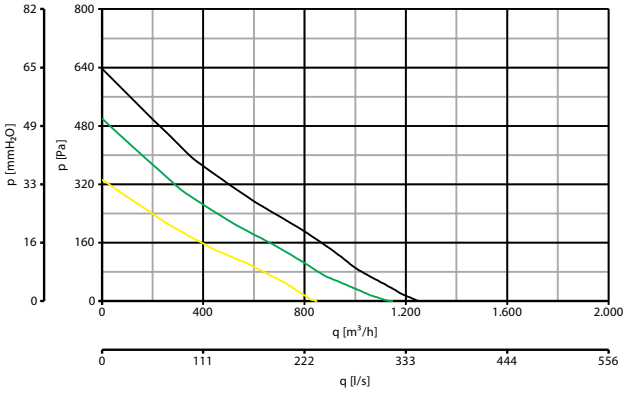
LINEO 250 ES
code 17038

min. speed



min. setting
nominal setting
max. setting

max. speed



min. setting
nominal setting
max. setting

p = static pressure

LINEO V0

LONG LIFE 30.000 h

TIMER

Products specifications:

- 16 models:
  LINEO 100 Q V0
  LINEO 100 Q T V0
  LINEO 100 V0
  LINEO 100 T V0
  LINEO 125 V0
  LINEO 125 T V0
  LINEO 150 V0
  LINEO 150 T V0
  LINEO 160 V0
  LINEO 160 T V0
  LINEO 200 Q V0
  LINEO 200 V0
  LINEO 200 T V0
  LINEO 250 V0
  LINEO 250 Q V0
  LINEO 315 V0
- Enclosure and impellers made of self-extinguishing V0 polypropylene.
- Ball bearing motors; motors 30,000 hours operation without mechanical malfunction.
- 2 speed motors.
- Speed of all models can be adjusted throught optional speed controllers.
- Controllable with Vortice environmental sensors and DUO two-speed controller.
- Max continuous operating temperature: 60°C.
- Protection rating: IPX4
- Insulation class: Cl.II. ⧈

Accesories at page 28

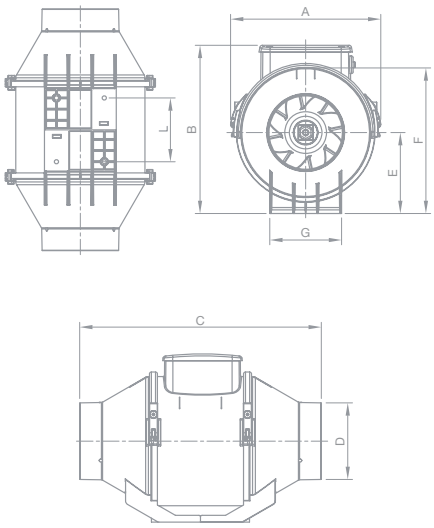
KEY FEATURES

- Quick, easy installation. The mounting brackets supplied with the unit make installation fast and easy. Motor housing can be rotated to fi t the mounting point for even simpler installation.
  Mounting bolts included.
- Simple maintenance. Lineo V0 are equipped with a unique double-lever closure which allows the fan to be removed in just a few seconds without affecting the installation as a whole.
- Lineo V0 products are also available with an adjustable timer, from 3 to 20 minutes(T versions).
- Silent running.
- Compact overall dimensions.

COMMERCIAL **VENTILATION**

LINEO V0

DIMENSIONS



Models	Code	A	B	C	Ø D	E	F	G	L	Kg
LINEO 100 Q V0	17005	156	174	231	96	82	152	95	47.5	1.25
LINEO 100 Q T V0	17025									
LINEO 100 V0	17001	188.5	211	303	96	101.5	189	90	80	1.8
LINEO 100 T V0	17021									
LINEO 125 V0	17002	188.5	211	258	122	101.5	189	90	80	1.8
LINEO 125 T V0	17022									
LINEO 150 V0	17003	214.5	234	294	146	112.5	212	110	80	2.4
LINEO 150 T V0	17023									
LINEO 160 V0	17004	214.5	234	272.5	156	112.5	212	110	80	2.4
LINEO 160 T V0	17024									
LINEO 200 Q V0	17007	234.5	260.5	300	196	125.5	235	140	100	3.7
LINEO 200 V0	17006									
LINEO 200 T V0	17026									
LINEO 250 Q V0	17027	300	317	385	247	152.5	292	176.5	145	7
LINEO 250 V0	17009									
LINEO 315 V0	17010	361.5	392.5	448	312	188.5	359	220.5	182	11.3

Dimensions (mm)

TECHNICAL DATA

Models	Code	Watt **W**		Rated current **A**		Air Flow **(m³/h)**		Air Flow **(l/s)**		Pressure **(Pa)**		Pressure **(mm H_2O)**		**RPM**		Noise level at 3 m **dB(A)***	
		min speed	**max speed**	**min speed**	**max speed**	**min speed**	**max speed**	**min speed**	**max speed**	**min speed**	**max speed**	**min speed**	**max speed**	**min speed**	**max speed**	**min speed**	**max speed**
LINEO 100 Q V0	17005	12	15	0.05	0.07	155	200	43.1	55.6	63.8	73.6	6.5	7.5	1860	2450	29.4	37.9
LINEO 100 Q T V0	17025																
LINEO 100 V0	17001	20	23	0.09	0.11	180	255	50	70.8	127.5	161.9	13	16.5	1520	2030	30.7	39.4
LINEO 100 T V0	17021																
LINEO 125 V0	17002	25	33	0.11	0.15	250	365	69.4	101.4	127.5	166.8	13	17	1570	2140	33.9	43
LINEO 125 T V0	17022																
LINEO 150 V0	17003	40	58	0.18	0.26	385	550	106.9	152.8	206	264.9	21	27	1580	2100	41.4	50.5
LINEO 150 T V0	17023																
LINEO 160 V0	17004	40	58	0.18	0.26	385	550	106.9	152.8	206	264.9	21	27	1580	2100	41.7	50.8
LINEO 160 T V0	17024																
LINEO 200 Q V0	17007	45	75	0.22	0.37	700	950	194.4	263.9	127.5	284.5	13	29	1780	2740	39.6	49
LINEO 200 V0	17006	98	145	0.43	0.64	790	1060	219.4	294.4	284.5	323.7	29	33	1580	2140	46.2	52.5
LINEO 200 T V0	17026																
LINEO 250 Q V0	17027	85	110	0.40	0.50	720	990	200	275	333.5	519.9	34	53	1850	2550	49.1	56.2
LINEO 250 V0	17009	110	180	0.48	0.78	990	1350	275	375	353.2	519.9	36	53	1900	2550	51.4	59.1
LINEO 315 V0	17010	200	300	0.90	1.32	1740	2300	483.3	638.9	426.7	735.8	43.5	75	1780	2450	50.6	63.4

***In free field**

Electric supply: 220-240V-50Hz.

LINEO V0

SOUND PRESSURE **LEVEL**

Models	Code	Sound pressure level [db(A)] *EN ISO 3741:1999	
		min	max
LINEO 100 Q V0	17005	29.4	37.9
LINEO 100 Q T V0	17025		
LINEO 100 V0	17001	30.7	39.4
LINEO 100 T V0	17021		
LINEO 125 V0	17002	33.9	43
LINEO 125 T V0	17022		
LINEO 150 V0	17003	41.4	50.5
LINEO 150 T V0	17023		
LINEO 160 V0	17004	41.7	50.8
LINEO 160 T V0	17024		
LINEO 200 Q V0	17007	39.6	49.0
LINEO 200 V0	17006	46.2	52.5
LINEO 200 T V0	17026		
LINEO 250 Q V0	17027	49.1	56.2
LINEO 250 V0	17009	51.4	59.1
LINEO 315 V0	17010	50.6	63.4

Sound Level measured at 3 m from inlet in free air condition with product ducted only in outlet according to EN ISO 3741: 1999.

Models	Code	Sound pressure level [db(A)] *EN ISO 3741:1999	
		min	max
LINEO 100 Q V0	17005	25	29
LINEO 100 Q T V0	17025		
LINEO 100 V0	17001	25	30
LINEO 100 T V0	17021		
LINEO 125 V0	17002	27	33
LINEO 125 T V0	17022		
LINEO 150 V0	17003	28	33
LINEO 150 T V0	17023		
LINEO 160 V0	17004	28	34
LINEO 160 T V0	17024		
LINEO 200 Q V0	17007	30	36
LINEO 200 V0	17006	32	38
LINEO 200 T V0	17026		
LINEO 250 Q V0	17027	38	40
LINEO 250 V0	17009	37	39
LINEO 315 V0	17010	41	47

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

SOUND POWER LEVEL (maximum speed)

Models	Code	Frequency band [Hz]							
		125	250	500	1000	2000	4000	8000	L_{WA} [db(A)]
LINEO 100 Q V0	17005	45.6	56.5	55.5	55.6	47.4	44.3	33.6	58.5
LINEO 100 Q T V0	17025								
LINEO 100 V0	17001	52.3	62.3	58.6	53.5	51.0	42.6	34.0	60
LINEO 100 T V0	17021								
LINEO 125 V0	17002	51.4	61.8	59.5	59.6	56.8	48.6	40.5	63.6
LINEO 125 T V0	17022								
LINEO 150 V0	17003	60.5	68.3	67.8	63.7	66.7	55.6	45.8	71.1
LINEO 150 T V0	17023								
LINEO 160 V0	17004	59.1	68.9	66.7	64.4	67.0	57.8	48.4	71.3
LINEO 160 T V0	17024								
LINEO 200 Q V0	17007	64.2	69.6	66.5	62.8	63.5	55.2	47.3	69.5
LINEO 200 V0	17006	68.6	68.6	71.2	69.1	70.7	66.3	57.4	75.7
LINEO 200 T V0	17026								
LINEO 250 Q V0	17027	65.8	75.1	71.5	74.0	66.7	60.8	52.5	76.5
LINEO 250 V0	17009	69.0	73.1	77.2	76.0	72.3	62.9	55.1	79.7
LINEO 315 V0	17010	73.3	78.4	79.4	81.1	76.5	67.6	59.6	83.9

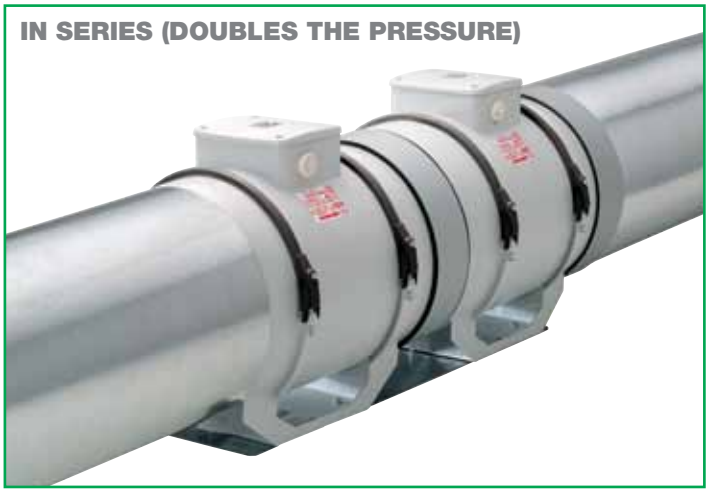
LINEO V0

INSTALLATIONS

Vortice Lineo extractors 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. One of the main features of the tinspection 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 THE INLET

IN SERIES (DOUBLES THE PRESSURE)



AS A SINGLE UNIT WITHIN THE DUCT

IN PARALLEL (DOUBLES THE AIR FLOW)

AS A SINGLE UNIT AT THE DUCT OUTLET

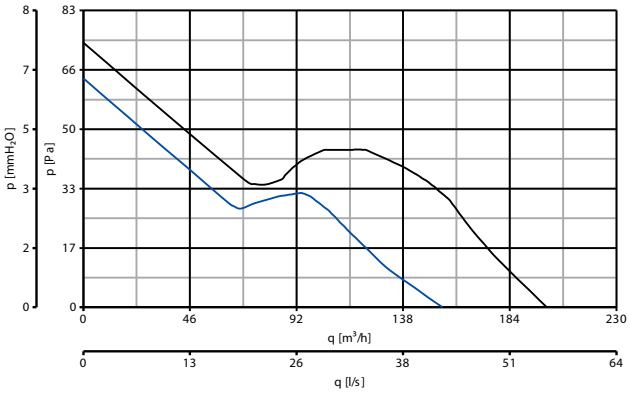
IN SERIES + PARALLEL FOR RECTANGULAR DUCTS (DOUBLES THE PRESSURE AND THE AIR FLOW)

LINEO V0

PERFORMANCE **CURVES**

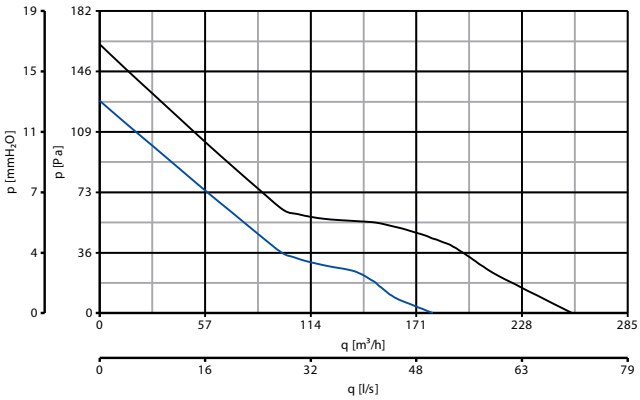
LINEO 100 Q V0
code 17005

LINEO 100 Q T V0
code 17025



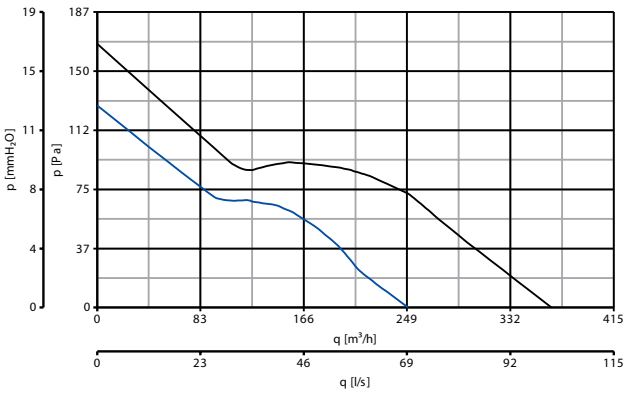
LINEO 100 V0
code 17001

LINEO 100 T V0
code 17021



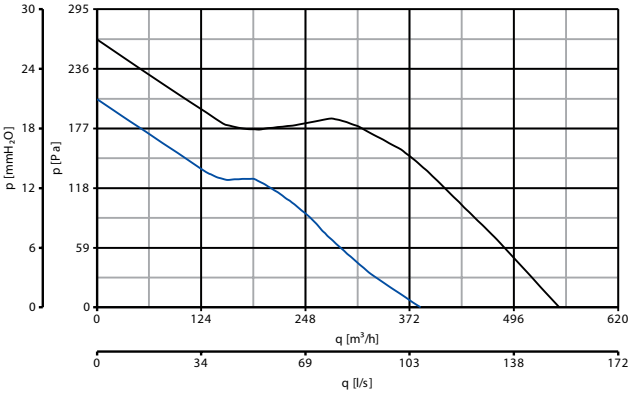
LINEO 125 V0
code 17002

LINEO 125 T V0
code 17022



LINEO 150 V0
code 17003

LINEO 150 T V0
code 17023



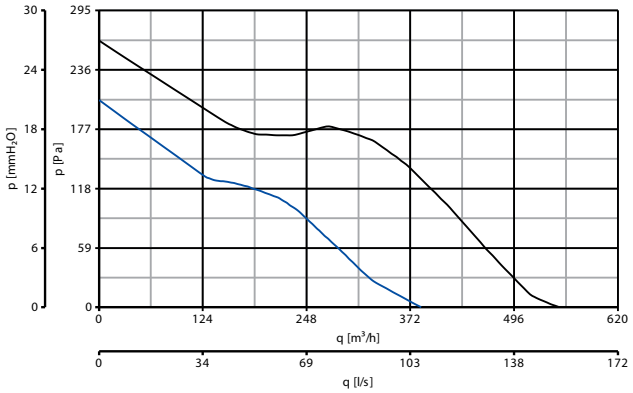
p = static pressure

LINEO V0

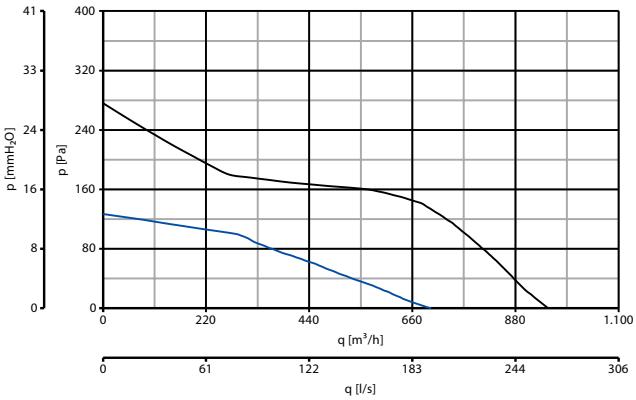
PERFORMANCE **CURVES**

LINEO 160 V0
code 17004

LINEO 160 T V0
code 17024

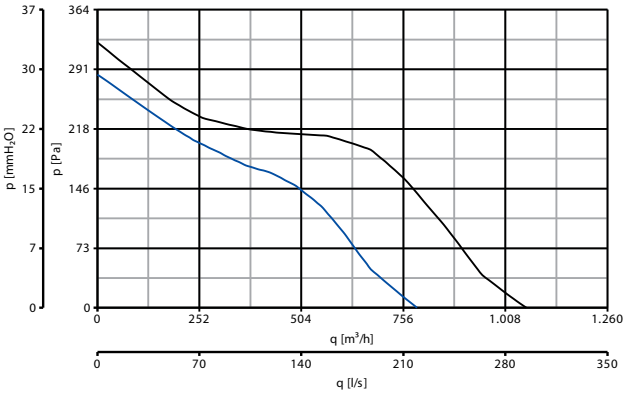


LINEO 200 Q V0
code 17007

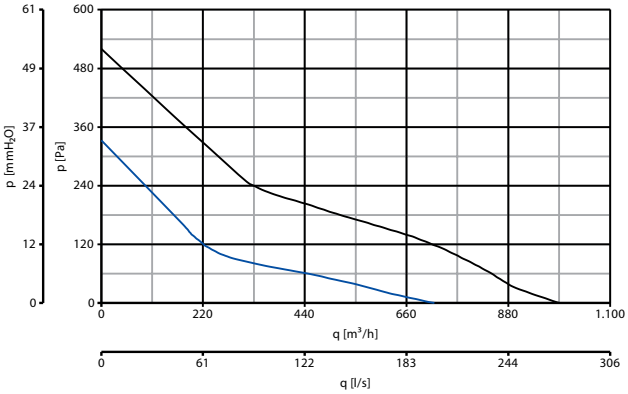


LINEO 200 V0
code 17006

LINEO 200 T V0
code 17023



LINEO 250 Q V0
code 17027

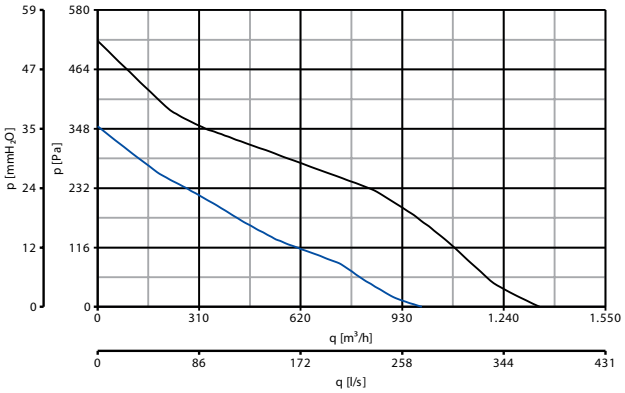


p = static pressure

LINEO V0

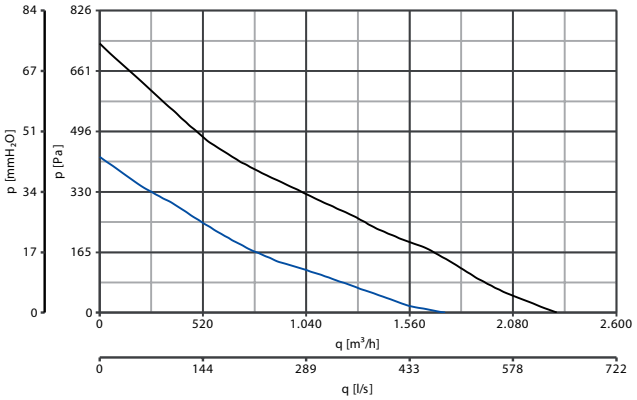
PERFORMANCE **CURVES**

LINEO 250 V0
code 17009



min
max

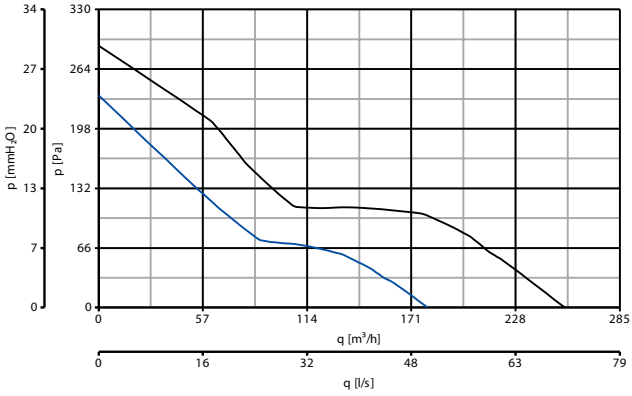
LINEO 315 V0
code 17010



min
max

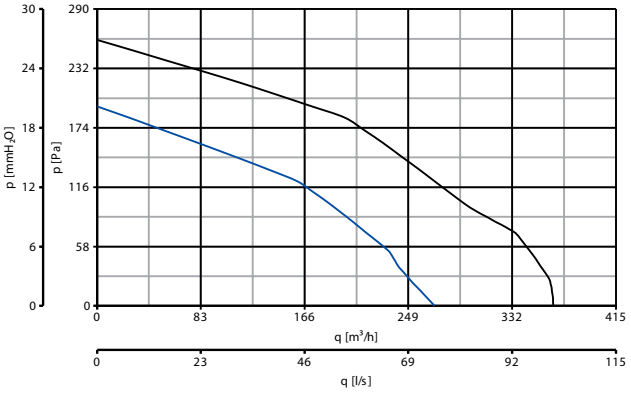
IN SERIES PERFORMANCE **CURVE**

LINEO 100 V0



min
max

LINEO 125 V0



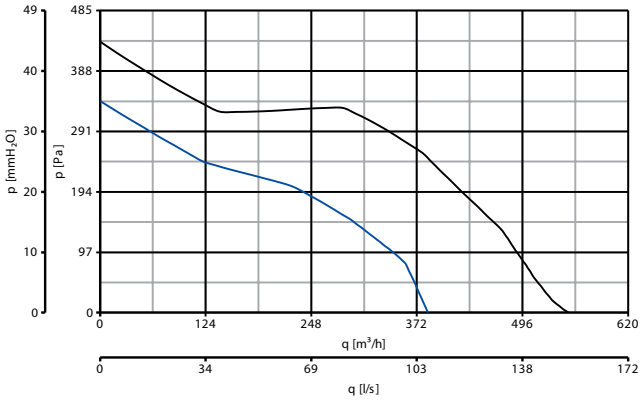
min
max

p = static pressure

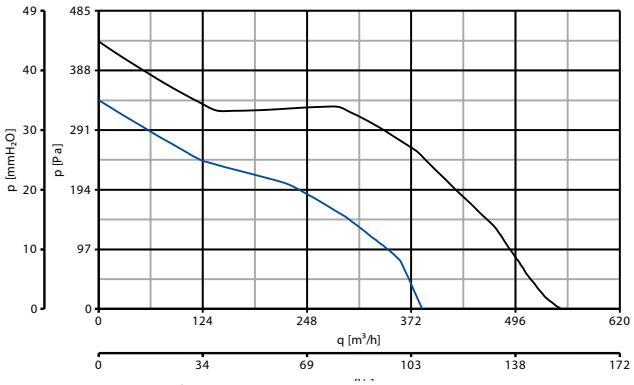
LINEO V0

IN SERIES PERFORMANCE **CURVES**

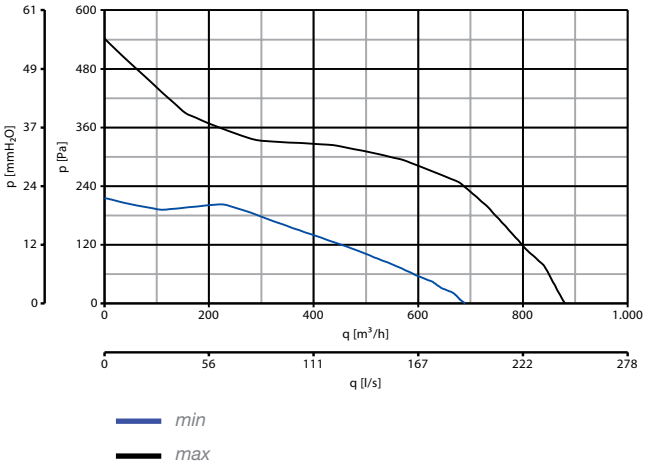
LINEO 150 V0



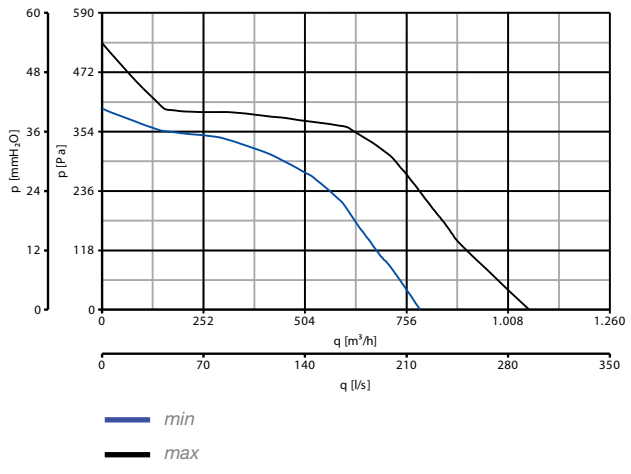
LINEO 160 V0



LINEO 200 Q V0



LINEO 200 V0

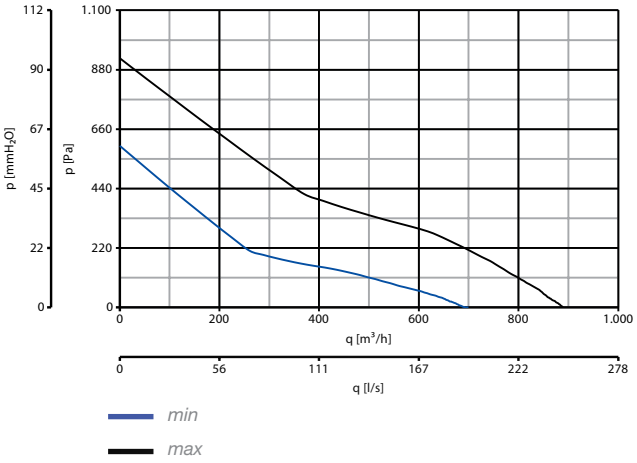


p = static pressure

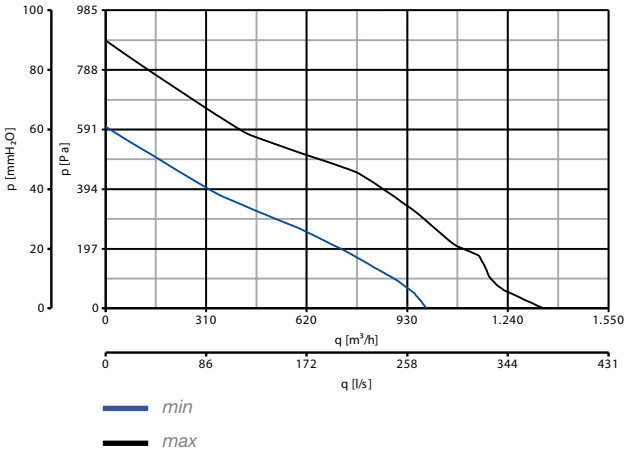
LINEO V0

IN SERIES PERFORMANCE **CURVES**

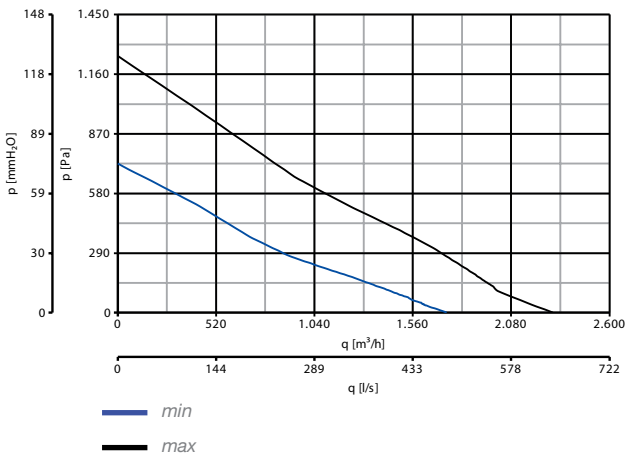
LINEO 250 Q V0



LINEO 250 V0



LINEO 315 V0

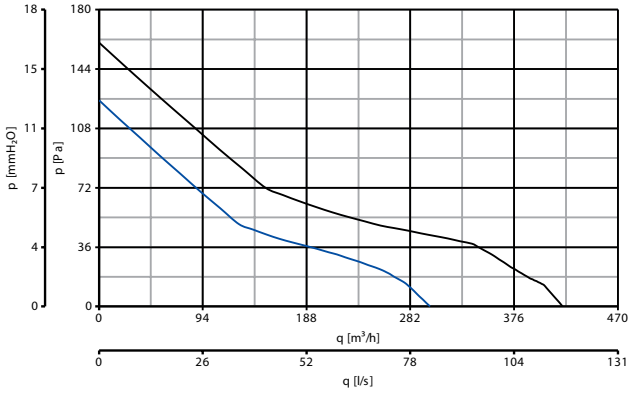


p = static pressure

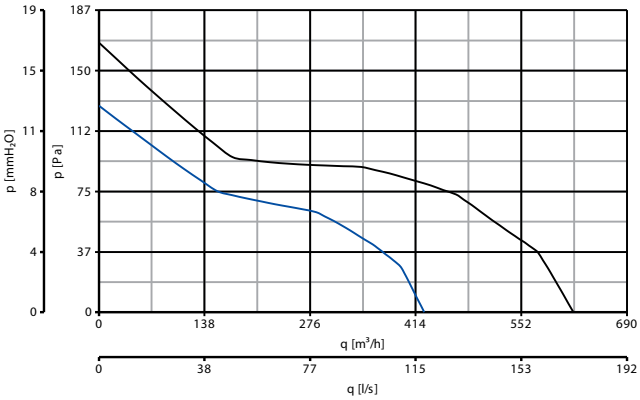
LINEO V0

IN PARALLEL PERFORMANCE **CURVES**

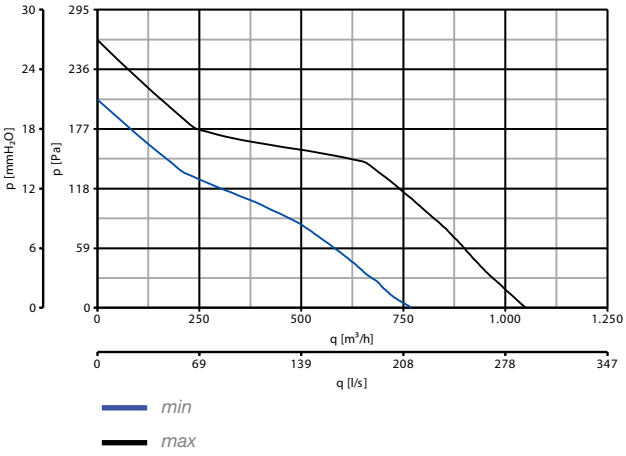
LINEO 100 V0



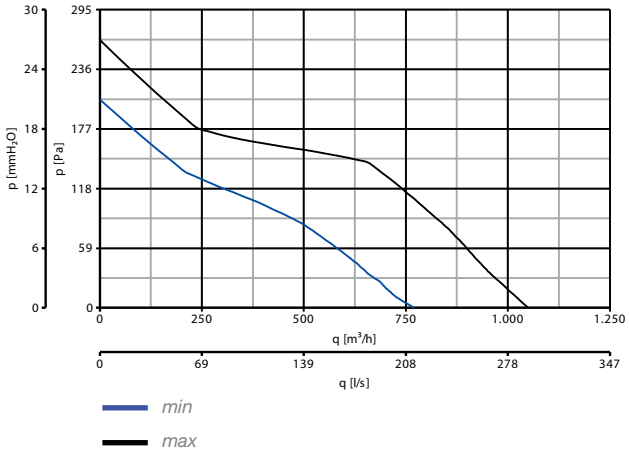
LINEO 125 V0



LINEO 150 V0



LINEO 160 V0

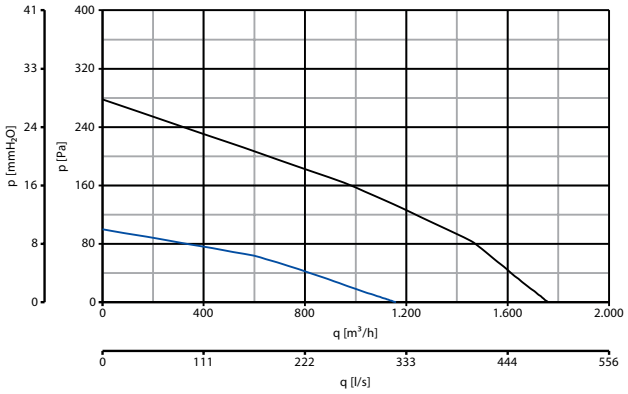


p = static pressure

LINEO V0

IN PARALLEL PERFORMANCE **CURVES**

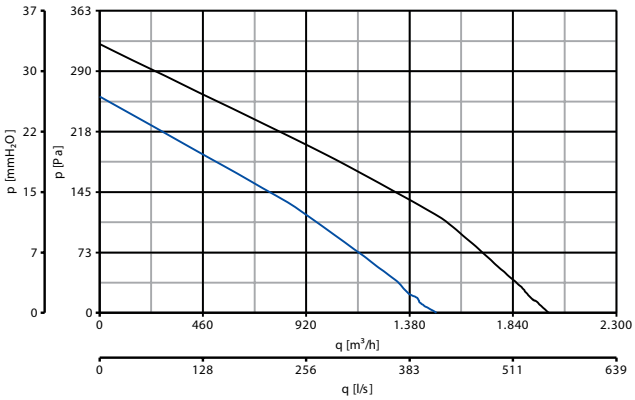
LINEO 200 Q V0



min

max

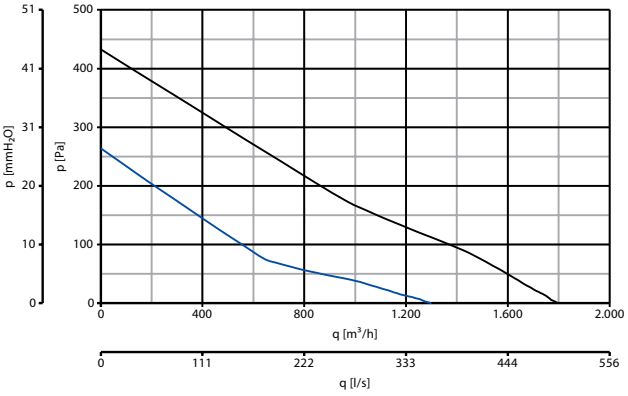
LINEO 200 V0



min

max

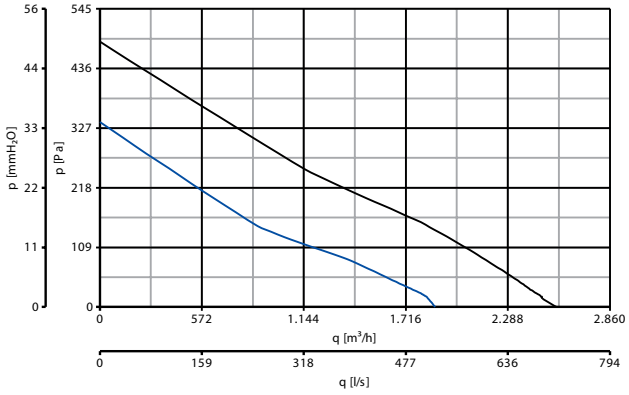
LINEO 250 Q V0



min

max

LINEO 250 V0



min

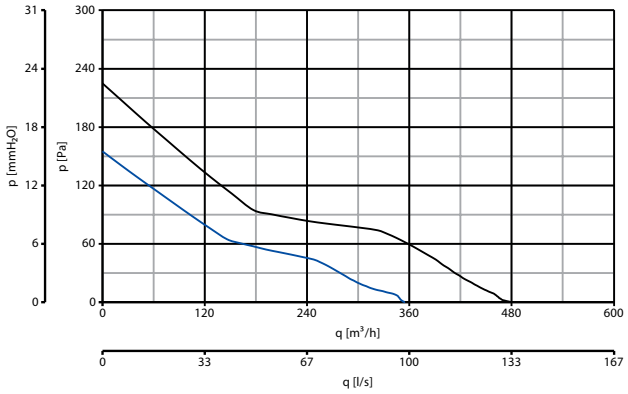
max

p = static pressure

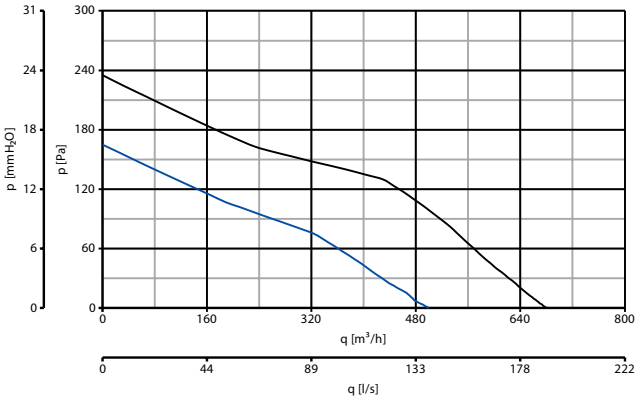
LINEO V0

IN SERIES + PARALLEL PERFORMANCE **CURVES**

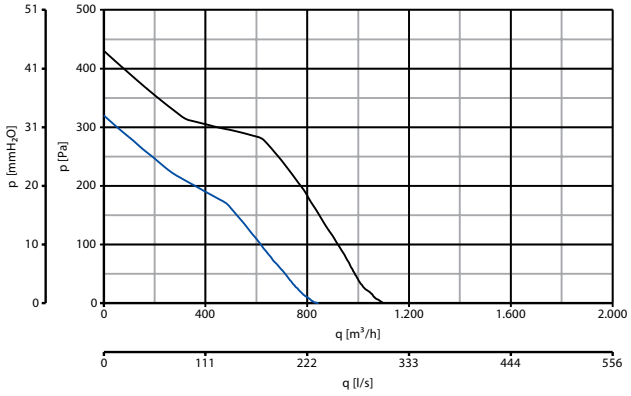
LINEO 100 V0



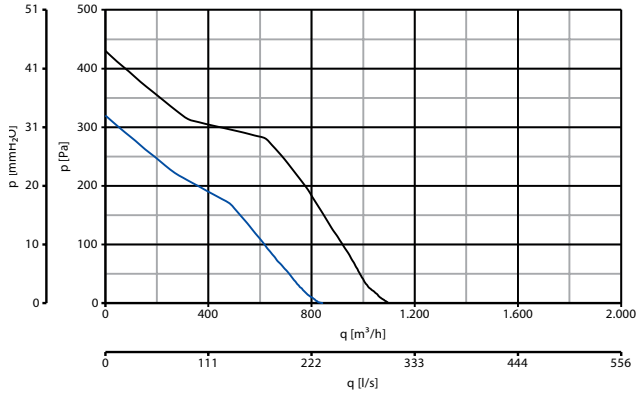
LINEO 125 V0



LINEO 150 V0



LINEO 160 V0

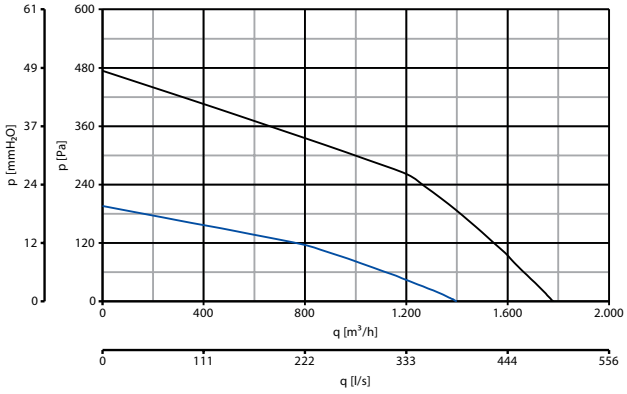


p = static pressure

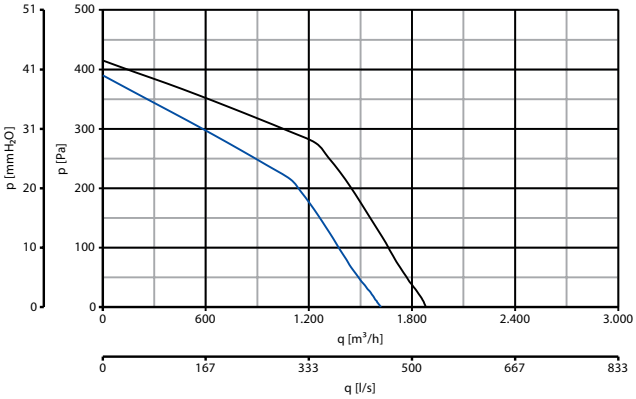
LINEO V0

IN SERIES + PARALLEL PERFORMANCE **CURVES**

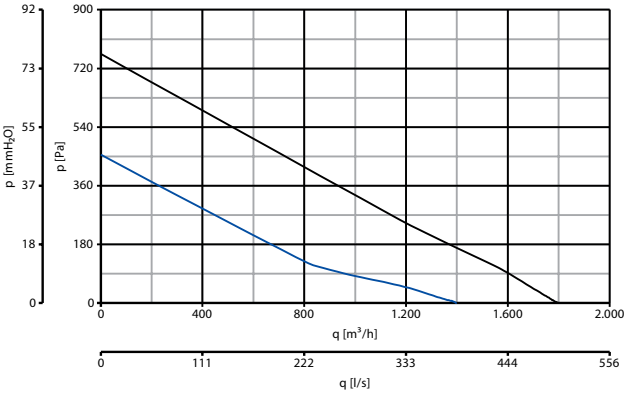
LINEO 200 Q V0



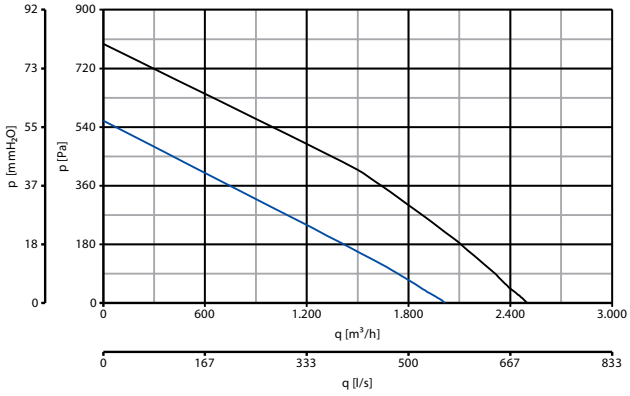
LINEO 200 V0



LINEO 250 Q V0



LINEO 250 V0



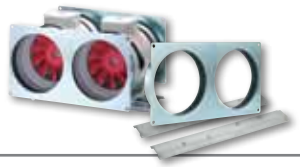
p = static pressure

LINEO V0

ACCESSORIES

MOUNTING OPTIONS

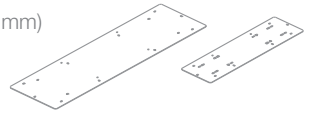
Vortice Lineo V0 can be mounted in a wide range of options – at the beginning, middle or end of the air duct and horizontally, vertically, against walls, ceilings, false ceilings or any flat surface.

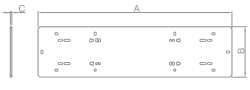
Models	100 Q V0 code 17005	100 Q T V0 code 17025	100 V0 code17001	100 T V0 code 17021	125 V0 code 17002	125 T V0 code 17022	150 V0 code 17003	150 T V0 code 17023	160 V0 code 17004	160 T V0 code 17024	200 Q V0 code 17007	200 V0 code 17006	200 T V0 code 17026	250 Q V0 code 17027	250 V0 code 17009	315 V0 code 17010
INSTALLATION KIT TUBE 	-		22584		22585	22585	22586	22586	22587	22587	22588	22588	22588	22589	22589	22589
SERIES INSTALLATION PLATE 	-		22593		22593	22593	22593	22593	22593	22593	22593	22593	22593	22594	22594	22594
PARALLEL INSTALLATION KIT (flanges and rails) 	-		22577		22578	22578	22579	22579	22581	22581	22582	22582	22582	22583	22583	-

INSTALLATION KIT TUBE
(dimensions mm)

Code	Models	Ø A	B
22584	**LINEO-C 100**	108	59
22585	**LINEO-C 125**	134	
22586	**LINEO-C 150**	158	
22587	**LINEO-C 160**	168	
22588	**LINEO-C 200**	208	
22589	**LINEO-C 250**	259	
22592	**LINEO-C 315**	324	

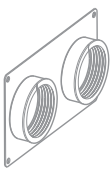
SERIES INSTALLATION PLATE
(dimensions mm)

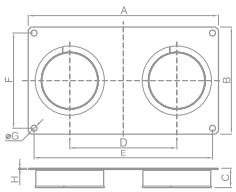


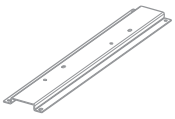


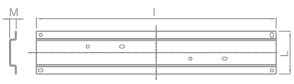
Code	Models	A	B	C
22593	**LINEO-SF 500**	500	130	2
22594	**LINEO-SF 700**	730	220	

PARALLEL INSTALLATION KIT
(dimensions mm)









Code	Models	A	B	C	D	E	F	ØG	H	I	L	M
22577	**LINEO-PF 100**	320	180	32.5	180	300	160	10	2	420	75	11.5
22578	**LINEO-PF 125**											
22579	**LINEO-PF 150**	395	220	37.5	205	375	200			470		
22581	**LINEO-PF 160**											
22582	**LINEO-PF 200**	440	240	37.5	225	420	220			520		
22583	**LINEO-PF 250**	540	290	37.5	285	520	270			640		

LINEO RANGE

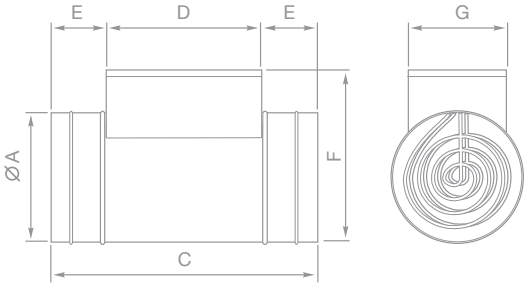
LINEO SYSTEM **ACCESSORIES**

PRODUCT	DESCRIPTION
DUCT HEATER AH	- To be installed in the ventilation system, always after the fan, and/or the noise attenuator/ air filter. - Suitable for single phase and three phase systems. - Galvanized steel box, stainless steel electrical resistances carried by tubular duct in galvanized steel. - Automatic security thermostat set on 60° C (±15%) linked in a series with a second security thermostat with manual reset (RESET) set on 120° C ± 15%. - Operative temperature from –30° C to +50° C (not suitable with powders or chemical agents). - Minimum air volume is based on a minimum air speed of 2 m/s.

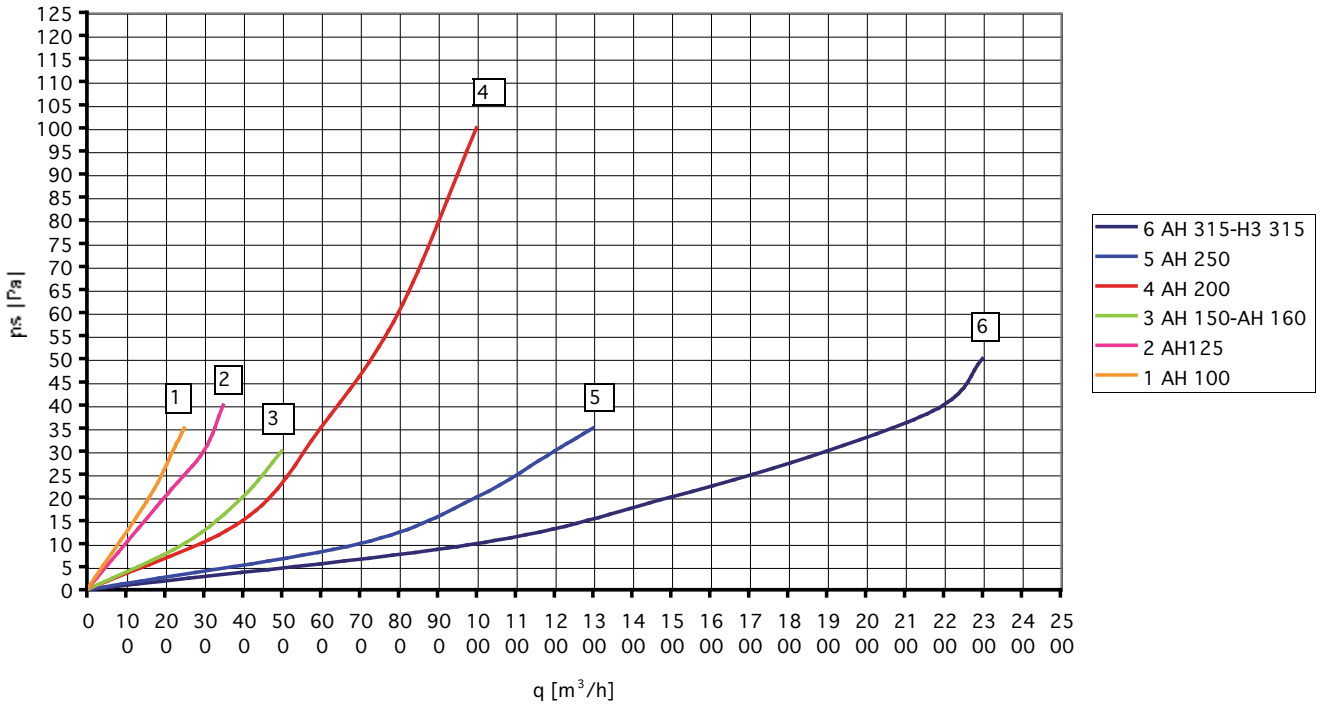
Frequency: 50[Hz]								
Code	**Models**	**V**	**kW**	**A**	**N. Resist.**	**Min Air Flow [m³/h]**	**Insul. Cl. I**	**IP**
22796	**AH 100**	230	0.4	1.7	1 x 0.4	21	⏚	43
22797	**AH 125**	230	0.5	2.2	1 x 0.5	27	⏚	43
22759	**AH 150**	230	1.2	5.2	1 x 1.2	64	⏚	43
22798	**AH 160**	230	1.2	5.2	1 x 1.2	64	⏚	43
22790	**AH 200**	230	2	8.7	1 x 2	107	⏚	43
22791	**AH 250**	230	3	13	2 x 1.5	161	⏚	43
22792	**AH 315**	230	1	4.3	1 x 1	54	⏚	43

FEATURES (dimensions mm)

Code	Models	Ø A	C	D	E	F	G	kg
22796	**AH 100**	100	325	230	40	185	100	2.01
22797	**AH 125**	125	325	230	40	225	125	2.57
22759	**AH 150**	150	380	285	40	250	150	2.60
22798	**AH 160**	160	380	285	40	260	150	2.95
22790	**AH 200**	200	380	285	40	300	150	3.50
22791	**AH 250**	250	380	285	40	350	150	3.83
22792	**AH 315 (1 kW)**	315	380	245	60	415	150	5.10



Pressure losses



PRODUCT	DESCRIPTION

NOISE ATTENUATOR

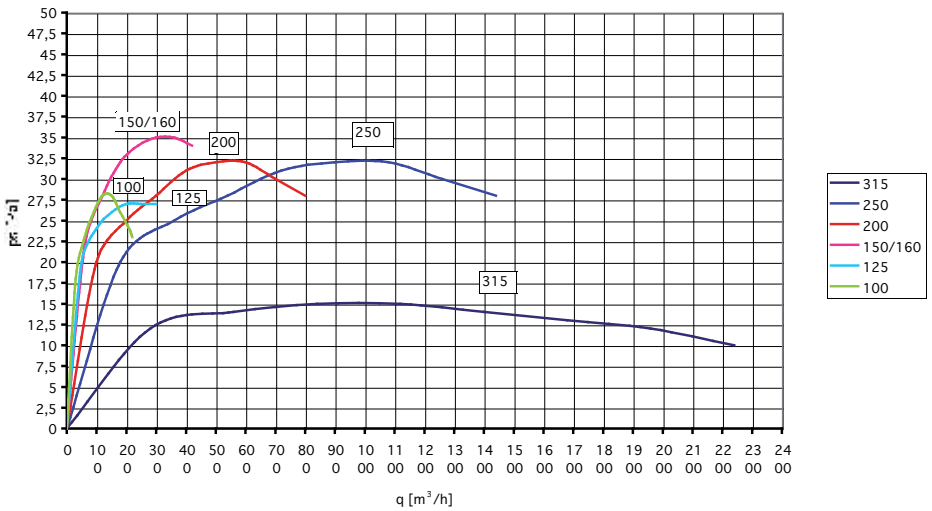
- To be installed in the ventilation system, always after the fan, and/or the filter box/duct heater.
- Useful when noise level required is particularly low.
- Working temperature: -30° +60° C.
- Maximum working pressure: 2000 Pa.
- Maximium air speed: 25 m/s max.

Sound attenuation in frequency bands [Hz]								
Code	**Models**	**125**	**250**	**500**	**1000**	**2000**	**4000**	**8000**
22780	**NA 100**	16	17	33	48	39	18	16
22781	**NA 125**	9	13	27	46	21	11	10
22756	**NA 150**	7	8	18	36	16	8	8
22783	**NA 160**	5	13	26	45	20	10	11
22784	**NA 200**	6	13	29	31	10	6	9
22785	**NA 250**	4	7	15	25	8	5	5
22786	**NA 315**	2	7	14	24	8	8	5

BACKDRAUGHT SHUTTER

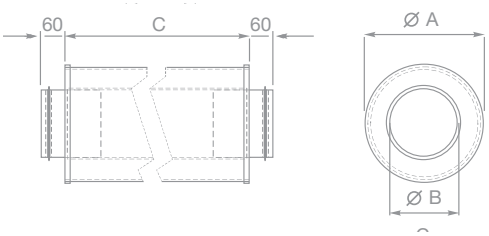
- To be directly mounted in ventilation ducts or on fan outlet.
- Composed by a cylinder in electro galvanized sheet steel calendered and welded.
- Closure and seal are ensured by a toroidal gasket in Neoprene closed cell.

Pressure losses IN-LINE-S

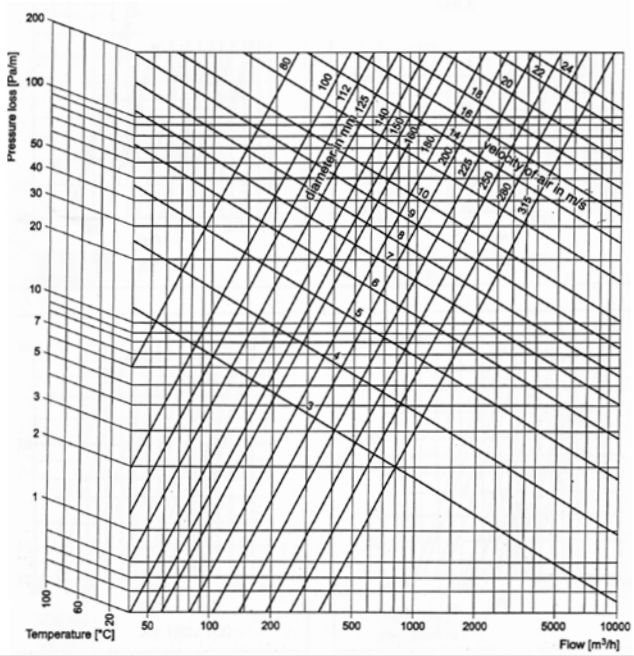


FEATURES (dimensions mm)

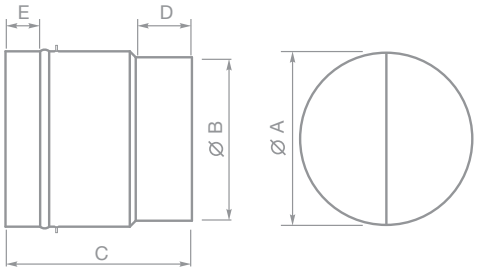
Code	Models	Ø A	Ø B	C	Kg
22780	**NA 100**	211	100	1000	2
22781	**NA 125**	241	125	1000	2
22756	**NA 150**	266	150	1000	2
22783	**NA 160**	266	160	1000	2
22784	**NA 200**	316	200	1000	3
22785	**NA 250**	367	250	1000	3
22786	**NA 315**	417	315	1000	4

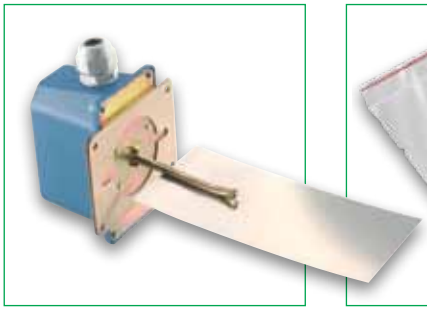


Pressure losses

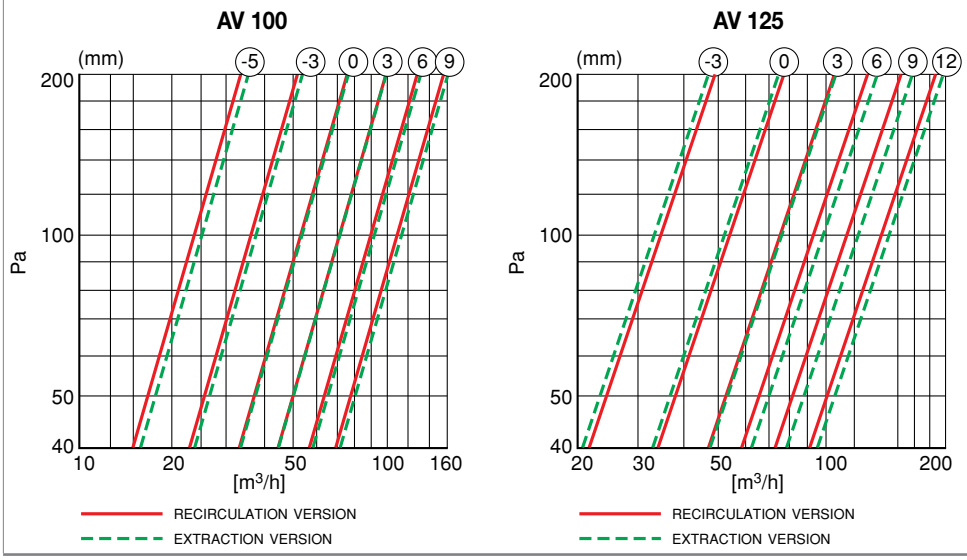


Code	Models	Ø A	Ø B	C	D	E	kg
22551	**IN LINE-S 100**	103	96	100	36.5	23	0.196
22556	**IN LINE-S 125**	128	122	110	36.5	23	0.270
22562	**IN LINE-S 150**	153	146	120	36.5	28	0.353
22563	**IN LINE-S 160**	163	156	125	36.5	28	0.392
22566	**IN LINE-S 200**	203	196	150	36.5	28	0.887
22571	**IN LINE-S 250**	253	247	180	36.5	28	1.324
22576	**IN LINE-S 315**	318	312	210	46.5	33	1.947



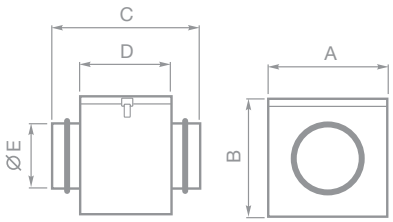
PRODUCT	DESCRIPTION
FILTER BOX 	- To be installed in the ventilation system, always before the fan, and/or the noise attenuator/duct heater. - Suitable to avoid impurities entering into the ventilation system. - Synthetic Fiber Filter (G3/89% Filtration Class). - Galvanized steel box, with cover fixed by two adapters to simplify maintenance. - Max working temperature: +60° C.
ACCESSORIES	**code 22240** **PD - Pressure switch**  **code 22241** **FA - Flow switch**  **code 22242** **Pressure switch connection set** 
AIR VALVE 	- To be applied to plafond, ceilings, ventilation ducts, double-ceilings etc. - Allow flow rate regulation with a simple adjustment of the rotating core. - White thermoplastic polystyrene.

Pressure losses

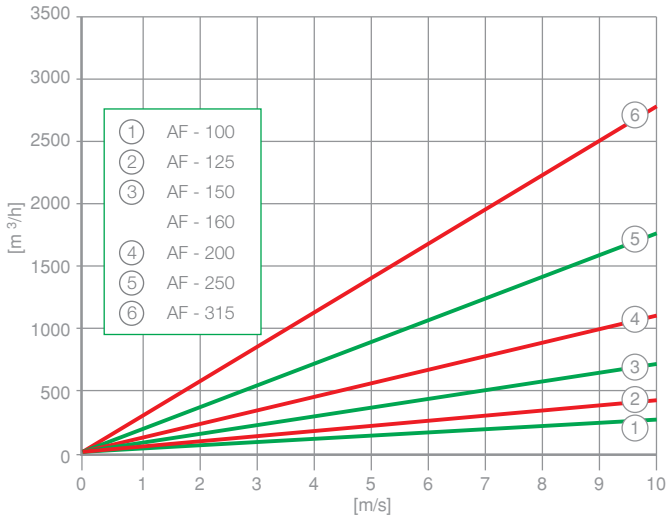


FEATURES (dimensions mm)

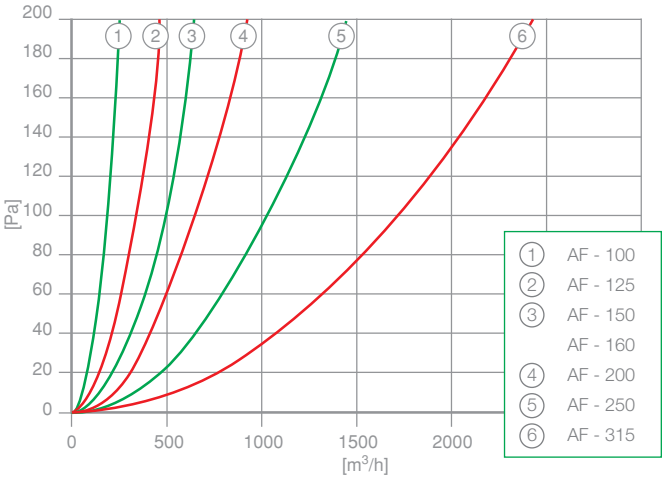
Code	Models	A	B	C	D	Ø E	kg
22793	**AF 100**	210	170	227	125	100	2.1
22794	**AF 125**	220	205	252	145	125	2.1
22799	**AF 150**	270	235	267	160	150	2.3
22795	**AF 160**	270	235	267	160	160	2.3
22787	**AF 200**	320	275	302	185	200	3.5
22788	**AF 250**	355	320	352	235	250	3.5
22789	**AF 315**	430	390	452	335	315	6.1



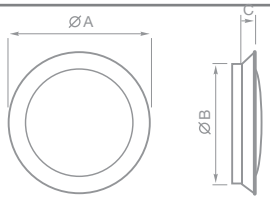
AIR FLOW/SPEED DIAGRAM



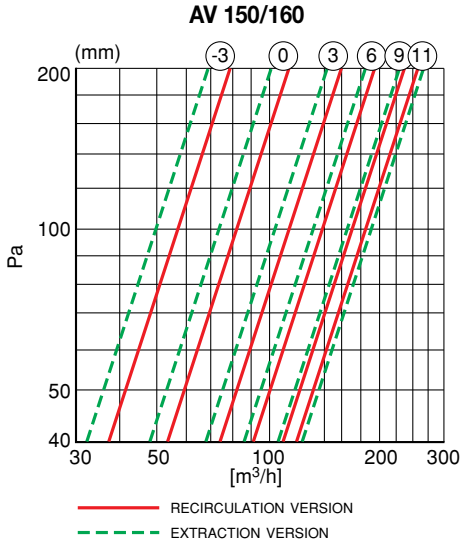
FILTER PRESSURE LOSS DIAGRAM



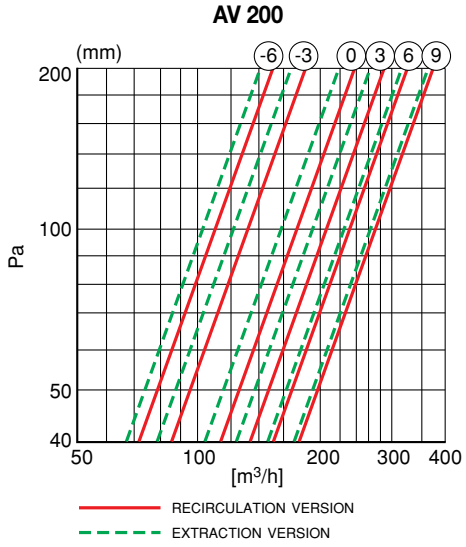
Code	Models	Ø A	Ø B	C
22189	**AV 100**	138	100	19
22190	**AV 125**	164	125	20
22191	**AV 150**	192	150	20
22192	**AV 160**	192	160	20
22193	**AV 200**	240	200	19

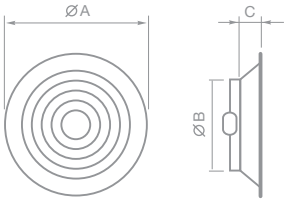


AV 150/160

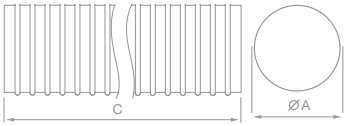


AV 200

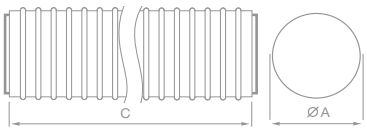


PRODUCT	DESCRIPTION	FEATURES (dimensions mm)
AIR DIFFUSER  **OPTIONAL INCLUDED** - Adapter for connection to flexible duct. 	- To be applied to plafond, ceilings, ventilation ducts, double-ceilings etc. - Painted aluminium. - Suitable acoustical or decorative ceiling of normal height. - The detachable case offers free access to the integral butterfly plastic volume damper. - Bridge for ceiling mounting.	

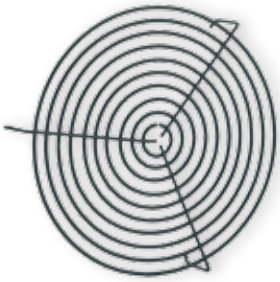
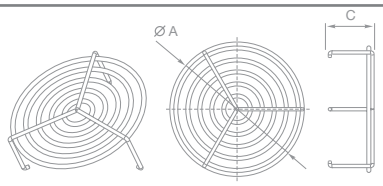
Code	Models	Ø A	Ø B	C
22128	**CD 160**	150	260	47
22127	**CD 200**	200	310	47
22168	**CD 250**	250	360	47
22169	**CD 315**	300	420	47

PRODUCT	DESCRIPTION	FEATURES (dimensions mm)
ALUMINIUM FLEXIBLE DUCT 	- Ideal for ventilation and air conditioning, low noise and for high pressure. - Totally manufactured from aluminium. - Length from 4 m (Ø 100 mm -150 mm) up to 10 m (Ø 160 mm - 315 mm).	

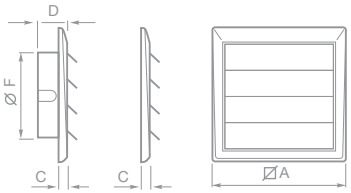
Code	Models	Ø A	C
22175	**AFD 100-4**	102	4000
22176	**AFD 125-4**	127	4000
22177	**AFD 150-4**	152	4000
22178	**AFD 160-10**	160	10000
22179	**AFD 200-10**	203	10000
22180	**AFD 250-10**	254	10000
22181	**AFD 315-10**	315	10000

PRODUCT	DESCRIPTION	FEATURES (dimensions mm)
INSULATED ALUMINIUM FLEXIBLE DUCT 	- Ideal for ventilation and air conditioning, low heat dissipation, condensation, noise and for high pressure. - Totally manufactured from aluminium with internal thermal insulation by standard fiberglass (25 mm 16 kg/m^3). - Length from 4 m (Ø 100 mm - 150 mm) up to 10 m (Ø 160 mm - 315 mm).	

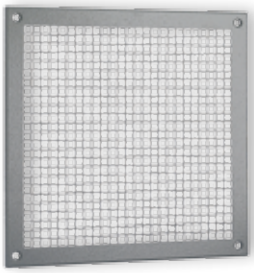
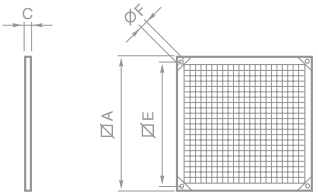
Code	Models	Ø A	C
22182	**AFD-I 100-4**	102	4000
22183	**AFD-I 125-4**	127	4000
22184	**AFD-I 150-4**	152	4000
22185	**AFD-I 160-10**	160	10000
22186	**AFD-I 200-10**	203	10000
22187	**AFD-I 250-10**	254	10000
22188	**AFD-I 315-10**	315	10000

PRODUCT	DESCRIPTION	FEATURES (dimensions mm)
PROTECTION GRILLE LINEO G Not suitable for model "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.	

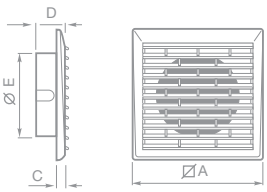
Code	Models	Ø A	C
22701	**G 100**	101	29
22702	**G 125**	127	29
22703	**G 150**	151	35.5
22704	**G 160**	161	35.5
22705	**G 200**	201	34
22706	**G 250**	255	42
22707	**G 315**	318.5	50.5

GRAVITY SHUTTER 	- To be installed at the duct outlet on vertical wall. - Useful to avoid air return from the outside and to protect the fluctuating parts. - Totally manufactured from shockproof thermoplastic anti UV resina. - Flaps are shaped so in order to avoid their block.	

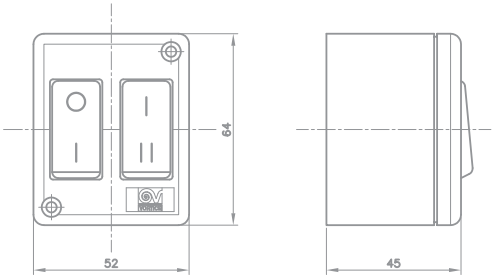
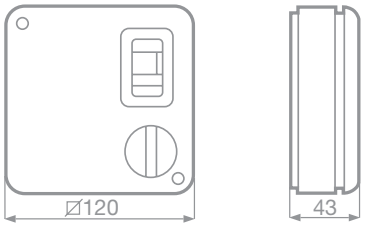
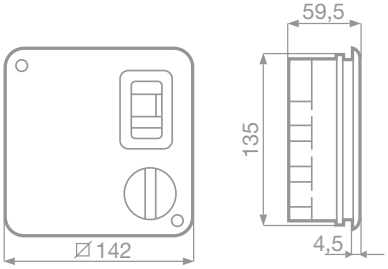
Code	Models	⍁ A	C	D	Ø F	Nr. flaps
22332	**GGR 100**	140	8	28	99	4
22333	**GGR 120/125**	160	8	28	119	4
22334	**GGR 150/160**	198	8	28	155	5
22335	**GGR 200**	254	14	-	210	6
22336	**GGR 250**	299	14	-	255	7
22337	**GGR 315**	391	14	-	330	7

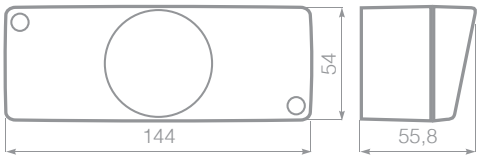
FRAME WITH SAFETY MESH 	- To be mounted at the beginning or at the end of the ventilation duct. - Useful for safety and to protect the product from external bodies. - Totally manufactured from steel, grey epoxy powder coated for perfect weather protection.	

Code	Models	⍁ A	C	⍁ E	Ø F
51150	**TRA 250**	305	10	280	8
51250	**TRA 300**	355	10	330	8

FIXED GRILLE 	- To be mounted at the beginning or the end of a ventilation duct. - Totally manufactured from shockproof thermoplastic anti UV resin.	

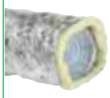
Code	Models	⍁ A	C	Ø D	E
22165	**FG 100**	140	8	28	99
22166	**FG 125**	160	8	28	119
22167	**FG 150**	198	8	28	155

PRODUCT (SPEED CONTROLLERS)	**DESCRIPTION**	**FEATURES** (dimensions mm)
DUO 	- Two speeds switch. - On/Off switch.	
SPEED CONTTROLLERS Not suitable for model “ES” 	5 speed controller (excluding timer models). - **C5 0.5** (code 12987) suitable for models from 100 Q to 160 mm diameter inclused. Electronic controllers (excluding timer models). - **C 1.5** (code 12966) from model 100 Q to 200 mm diameter inclused. - **C 2.5** (code 12967) for models 250 Q, 250 and 315 mm diameter.	
BUILT IN CONTROLLER ADAPTORS Not suitable for model “ES” 	- **Kit SCB5** (code 22483) for speed controller code 12987. - **Kit SCB** (code 22481) for speed controllers code 12966 and 12967.	

PRODUCT (ENVIROMENTAL SENSORS)	**DESCRIPTION**	**FEATURES** (dimensions mm)
C HCS-HUMIDITY 	Measures ambient relative humidity. It starts the fan when the R.H. It incorporates an over-run timer (adjustable between 3 and 20 minutes).	• Voltage: 220-240 V. • Frequency: 50/60 Hz. • Maximum load: 3 A. • Operating temperature: 50 °C. • IP20. 
C TEMP-TEMPERATURE 	Measures ambient room temperature, and starts the fan when the temperature exceeds the preset value. Once the temperature drops below the preset value, you can adjust the over-run timer from 3 to 20 minutes.	
C SMOKE 	Measures the air quality, detecting the presence of cigarette smoke, odours and other pollutants, and starts the fan when the concentration of pollutants exceeds the preset value. You can adjust the over-run timer from 3 to 20 minutes.	
C PIR- MOVEMENT DETECTOR 	Detects the presence of a moving body within its sensor range, and starts the fan automatically. You can adjust the over-run timer from 3 to 20 minutes.	
C TIMER 	Adjustable over-run timer between 3 and 20 minutes.	

ACCESSORIES **SELECTION TABLE**

VORTICE LINEO ES NEW   VORTICE LINEO V0	Code	Duct heater **AH**	Noise attenuator **NA**	Filter box **AF**	Backdraught shutter **IN-LINE S**	Protection grille **LINEO G**	Gravity shutter **GGR**	Safety mesh grille **TRA**	Fixed grille **FG**	Air valve **AV**	Air diffuser **CD**
LINEO 100 Q ES	**17036**	22796	22780	22793	22551	–	22332	–	22165	22189	–
LINEO 100 ES	**17031**	22796	22780	22793	22551	–	22332	–	22165	22189	–
LINEO 100 Q V0	**17005**	22796	22780	22793	22551	22701	22332	–	22165	22189	–
LINEO 100 Q T V0	**17025**	22796	22780	22793	22551	22701	22332	–	22165	22189	–
LINEO 100 V0	**17001**	22796	22780	22793	22551	22701	22332	–	22165	22189	–
LINEO 100 T V0	**17021**	22796	22780	22793	22551	22701	22332	–	22165	22189	–
LINEO 125 ES	**17032**	22797	22781	22794	22556	–	22333	–	22166	22190	–
LINEO 125 V0	**17002**	22797	22781	22794	22556	22702	22333	–	22166	22190	–
LINEO 125 T V0	**17022**	22797	22781	22794	22556	22702	22333	–	22166	22190	–
LINEO 150 ES	**17033**	22759	22756	22799	22562	–	22334	–	22167	22191	–
LINEO 150 V0	**17003**	22759	22756	22799	22562	22703	22334	–	22167	22191	–
LINEO 150 T V0	**17023**	22759	22756	22799	22562	22703	22334	–	22167	22191	–
LINEO 160 ES	**17034**	22798	22783	22795	22563	–	22334	51150	22167	22192	22128
LINEO 160 V0	**17004**	22798	22783	22795	22563	22704	22334	51150	22167	22192	22128
LINEO 160 T V0	**17024**	22798	22783	22795	22563	22704	22334	51150	22167	22192	22128
LINEO 200 ES	**17037**	22790	22784	22787	22566	–	22335	51150	–	22193	22127
LINEO 200 Q V0	**17007**	22790	22784	22787	22566	22705	22335	51150	–	22193	22127
LINEO 200 V0	**17006**	22790	22784	22787	22566	22705	22335	51150	–	22193	22127
LINEO 200 T V0	**17026**	22790	22784	22787	22566	22705	22335	51150	–	22193	22127
LINEO 250 ES	**17038**	22791	22785	22788	22571	–	22336	51150	–	–	22168
LINEO 250 Q V0	**17027**	22791	22785	22788	22571	22706	22336	51150	–	–	22168
LINEO 250 V0	**17009**	22791	22785	22788	22571	22706	22336	51150	–	–	22168
LINEO 315 V0	**17010**	22792	22786	22789	22576	22707	22337	51250	–	–	22169

Aluminium flexible duct **AFD**	Insulated aluminium flexible duct **AFD-I**	Two speeds switch **DUO**	Speed controller **C5 0.5**	Speed controller **C 1.5**	Speed controller **C 2.5**	Built-in controller adaptors **SCB**	Built-in controller adaptors **SCB5**	Humidity **C HCS**	Temperature **C TEMP**	Smoke **C SMOKE**	Movement detector **C PIR**	Timer **C TIMER**
												
22175	22182		—	—		—	—	12994	12992	12993	12998	12999
22175	22182		—	—		—	—	12994	12992	12993	12998	12999
22175	22182		12987	12966		22481	22483	12994	12992	12993	12998	12999
22175	22182		—	—		—	—	12994	12992	12993	12998	—
22175	22182		12987	12966		22481	22483	12994	12992	12993	12998	12999
22175	22182		—	—		—	—	12994	12992	12993	12998	—
22176	22183		—	—		—	—	12994	12992	12993	12998	12999
22176	22183		12987	12966		22481	22483	12994	12992	12993	12998	12999
22176	22183		—	—		—	—	12994	12992	12993	12998	—
22177	22184		—	—	—	—	—	12994	12992	12993	12998	12999
22177	22184		12987	12966		22481	22483	12994	12992	12993	12998	12999
22177	22184	22914	—	—		—	—	12994	12992	12993	12998	—
22178	22185		—	—		—	—	12994	12992	12993	12998	12999
22178	22185		12987	12966		22481	22483	12994	12992	12993	12998	12999
22178	22185		—	—		—	—	12994	12992	12993	12998	—
22179	22186		—	—		—	—	12994	12992	12993	12998	12999
22179	22186		—	12966		22481	22481	12994	12992	12993	12998	12999
22179	22186		—	12966		22481	—	12994	12992	12993	12998	12999
22179	22186		—	—		—	—	12994	12992	12993	12998	—
22180	22187		—	—	—	—	—	12994	12992	12993	12998	12999
22180	22187		—	—	12967	22481	—	12994	12992	12993	12998	12999
22180	22187		—	—	12967	22481	—	12994	12992	12993	12998	12999
22181	22188		—	—	12967	22481	—	12994	12992	12993	12998	12999

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