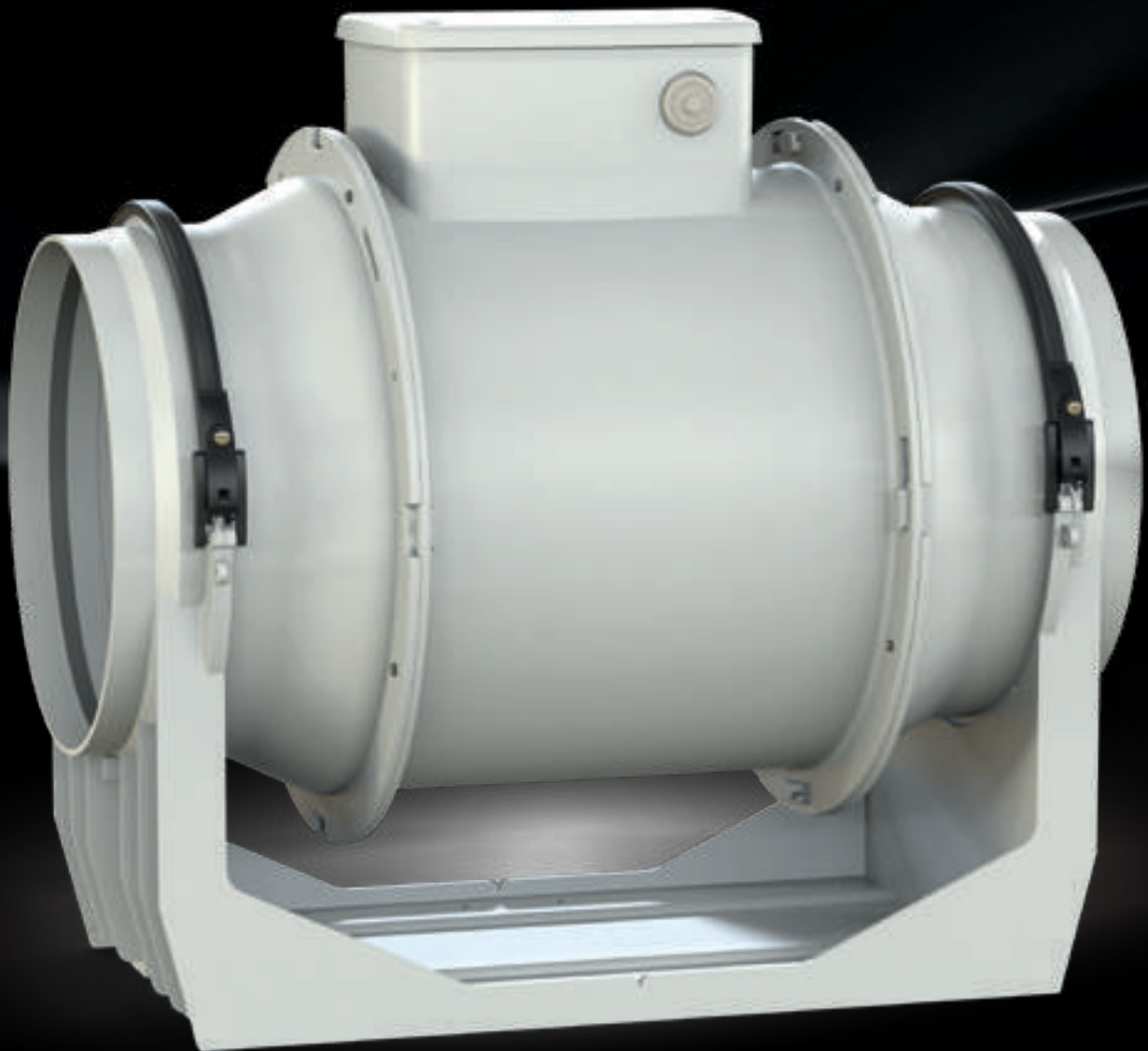


# LINEO RANGE

In-line mixed flow fans

The LINEO range products are fitted with multi speed induction motors.

THE BEST COMPROMISE AMONG  
PERFORMANCE, POWER CONSUMPTION  
AND NOISE EMISSION.



# EASY AND FLEXIBLE INSTALLATION

## KEY FEATURES

- Complete range, 26 models with a nominal diameter between 100 mm and 315 mm, 18 equipped with AC motors and 8 equipped with brushless EC motors.
- With or without timer and silenced.
- Flexibility and ease of installation ideal for your specific performance-related requirements, consumption, needs and operating costs.

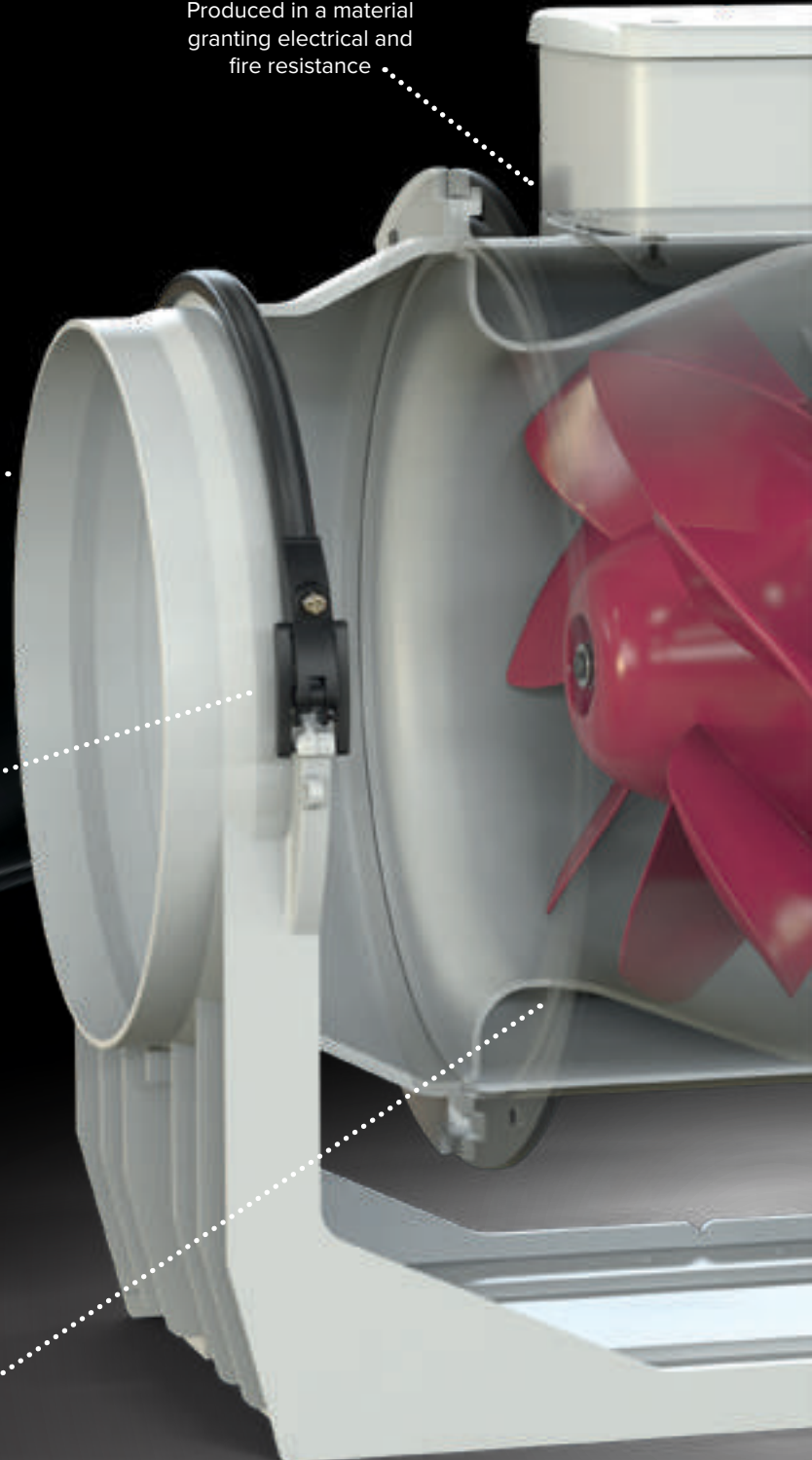


easy

# MAINTENANCE

**ELECTRIC BOX**  
Produced in a material  
granting electrical and  
fire resistance

**INLET NOZZLE**  
Dimensioned to sustain  
the product in the wall and  
ceiling installation



**DIVERGENT ELEMENT**  
It helps the impeller to increase  
the performance

NEW

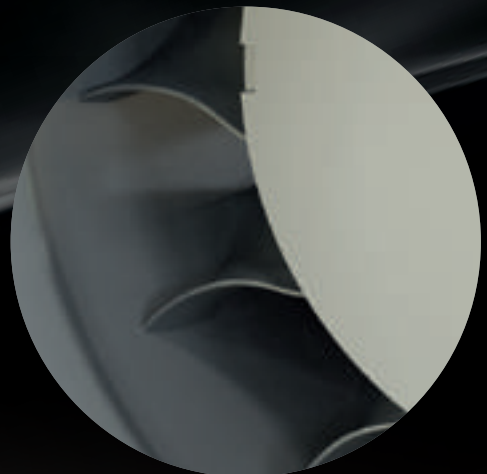
LINEO RANGE

In-line mixed flow fans



**IMPELLER**  
Designed to reach the ERP  
efficiency levels

**PROTECTIVE COVER**  
It corrects the airflow after the  
impeller and the rectifier, avoiding  
energy losses due to vortices



**OUTLET NOZZLE**  
Dimensioned to sustain the  
product in the wall and  
ceiling installation

**RECTIFIER BLADES**  
Designed with the impeller  
to rectify the airflow and avoid flow  
problems on the downstream  
part of the product

## TECHNICAL AND PERFORMANCE DATA - LINEO\*

Models	Code	V ~ 50/60HZ	W min/max	A min/max	RPM min/max	Max Airflow		Max Pressure		Sound Pressure Lp dB (A)**	Protecion grade***	Max °C	KG
						m <sup>3</sup> /h min/max	l/s min/max	mmH <sub>2</sub> O min/max	Pa min/max				
LINEO 100	17144	220-240	20	0.09	1520	180	50	13	127.5	30.7	IP44	60	1.8
LINEO 100 T	17185		23	0.11	2030	255	70.8	16.5	161.9	39.4			
LINEO 100 Q	17143	220-240	12	0.05	1860	155	43.1	6.5	63.8	29.4	IP44	60	1.8
LINEO 100 Q T	17184		15	0.9	2450	200	55.6	7.5	73.6	37.9			
LINEO 125	17145	220-240	25	0.11	1570	250	69.4	13	127.5	33.9	IP44	60	1.8
LINEO 125 T	17186		33	0.15	2140	365	101.4	17	166.8	43			
LINEO 150	17146	220-240	40	0.18	1580	385	106.9	21	206	41.4	IP44	60	2.5
LINEO 150 T	17187		58	0.26	2100	550	152.8	27	264.9	50.5			
LINEO 160	17147	220-240	40	0.18	1580	385	106.9	21	206	41.7	IP44	60	2.8
LINEO 160 T	17188		58	0.26	2100	550	152.8	27	264.9	50.8			
LINEO 200 Q	17148	220-240	45	0.22	1780	700	194.4	13	127.5	39.6	IP44	60	4.3
LINEO 200 Q T	17189		75	0.37	2740	950	263.9	29	284.5	49.0			
LINEO 250 Q	17149	220-240	85	0.40	1850	720	200	34	333.5	49.1	IP44	60	5.9
LINEO 250 Q T	17197		110	0.50	2550	990	275	53	519.9	56.2			

\* All data refered to supply at 50 Hz

\*\* Calculated in free field conditions at 3 m distance

\*\*\* Protection refered to ducted units

Models	Code	V ~ 50 HZ	W min/med/ max	A min/med/ max	RPM min/med/ max	Max Airflow		Max Pressure		Protecion grade***	Max °C	KG
						m <sup>3</sup> /h min/med/max	l/s min/med/max	mmH <sub>2</sub> O min/med/max	Pa min/med/max			
<span style="background-color: red; color: white; padding: 2px;">NEW</span> LINEO 200	17180	220 - 240	80	0.34	1925	815	226.4	21.5	210.9	IPX5	50	4,9
<span style="background-color: red; color: white; padding: 2px;">NEW</span> LINEO 200 T	17177		95	0.42	2450	1025	284.7	27.3	267.7			
<span style="background-color: red; color: white; padding: 2px;">NEW</span> LINEO 250	17181	220 - 240	90	0.41	1500	725	201	13.9	136.5	IPX5	50	5,3
			120	0.54	2240	1145	318	29	284.4			
<span style="background-color: red; color: white; padding: 2px;">NEW</span> LINEO 315	17182	220 - 240	145	0.63	2730	1440	400	37.2	364.8	IPX5	50	9,5
			190	1.14	1770	1590	442	27.1	265.8			
			260	1.57	2300	2115	588	42.2	413.9			
			360	1.60	2690	2590	719	55.4	543.3			

## SUOND LEVELS - LINEO 200 - 250 - 315

Models	Code	SOUND POWER Lw dB (A)										
		INTAKE			SUPPLY			BREAKOUT				
		min	med.	max	min	med.	max	min	med.	max		
LINEO 200	17180											
LINEO 200 T	17177	80	86.4	89.5	78.6	74.9	88.2	57.4	63.7	67.5		
LINEO 250	17181	73.6	83.3	88.2	72.2	81.7	86.4	52.4	60	64		
LINEO 315	17182	82.6	88.7	92	82	88.2	91.8	60.1	66.3	69.5		

Models	Code	SOUND PRESSURE LP dB(A)*										
		INTAKE			SUPPLY			BREAKOUT				
		min	med.	max	min	med.	max	min	med.	max		
LINEO 200	17180											
LINEO 200 T	17177	62.5	68.8	72	61.1	67.4	70.7	36.9	43.1	46.9		
LINEO 250	17181	56.1	65.8	70.7	54.6	64.2	68.8	31.9	39.5	43.5		
LINEO 315	17182	65	71.1	74.5	64.5	70.6	74.2	39.6	45.8	49		

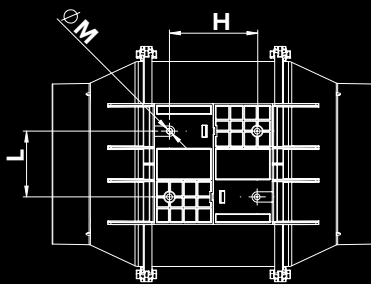
\* Calculated in free field conditions at 3 m distance

## DIMENSIONS - LINEO

Models	Code	A	B	C	Ø D	E	F	G	H	L	Ø M	N
LINEO 100	17144	188.5	211	303	96	101.5	189	90	60	80	5.5	-
LINEO 100 T	17185	188.5	211	303	96	101.5	189	90	60	80	5.5	-
LINEO 100 Q	17143	156	174	231	96	82	152	95	51.5	47.5	4.5	-
LINEO 100 Q T	17184	156	174	231	96	82	152	95	51.5	47.5	5.5	-
LINEO 125	17145	188.5	211	258	122	101.5	189	90	60	80	5.5	-
LINEO 125 T	17186	188.5	211	258	122	101.5	189	90	60	80	5.5	-
LINEO 150	17146	214.5	234	294	146	112.5	212	110	60	80	5.5	-
LINEO 150 T	17187	214.5	234	294	146	112.5	212	110	60	80	5.5	-
LINEO 160	17147	214.5	234	272.5	156	112.5	212	110	60	80	5.5	-
LINEO 160 T	17147	214.5	234	272.5	156	112.5	212	110	60	80	5.5	-
LINEO 200	17180	270	373	396	194.5	195	330	190	120	155	5.5	-
LINEO 200 T	17177	270	373	396	194.5	195	330	190	120	155	5.5	280
LINEO 200 Q	17148	234.5	266	300	196	125.5	235	140	94	100	5.5	-
LINEO 200 Q T	17189	234.5	266	300	196	125.5	235	140	94	100	5.5	-
LINEO 250	17181	300	378	322	243	190	329	200	70	170	5.5	174.5
LINEO 250 Q	17149	300	322	385	247	152.5	292	176.5	140	145	5.5	-
LINEO 250 Q T	17189	300	322	385	247	152.5	292	176.5	140	145	5.5	174.5
LINEO 315	17182	373	446	420	307	224	398	309	110	255	8.5	259.5

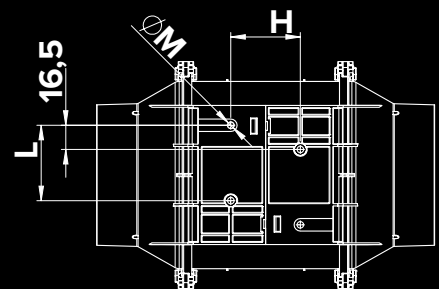
## VERSION A

LINEO 100 - LINEO 100 T - LINEO 125 - LINEO 125 T - LINEO 150 - LINEO 150 T  
 LINEO 160 - LINEO 160 T - LINEO 200 Q - LINEO 200 Q T - LINEO 250 Q - LINEO 250 Q T



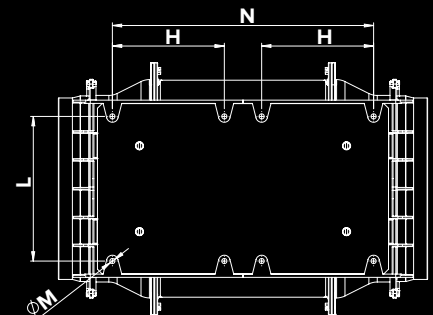
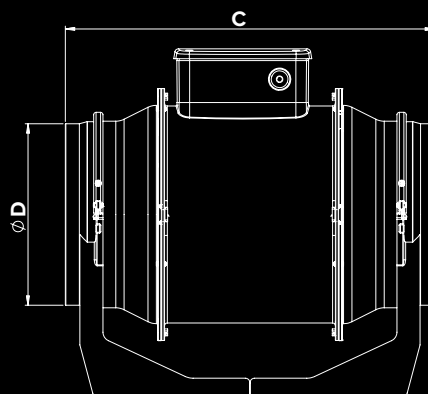
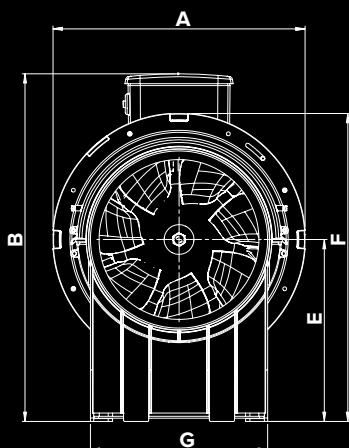
## VERSION B

LINEO 100 Q  
 LINEO Q T

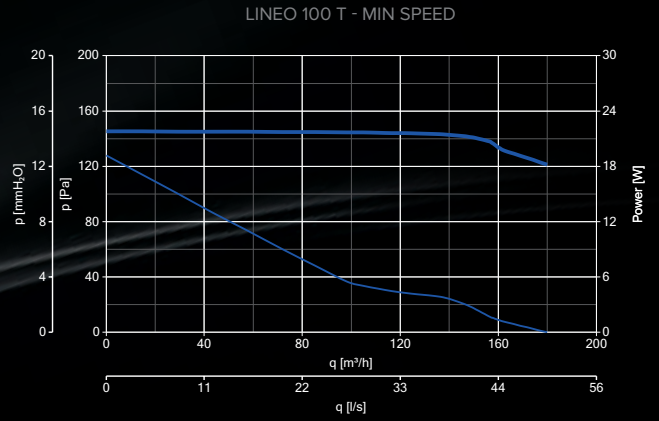
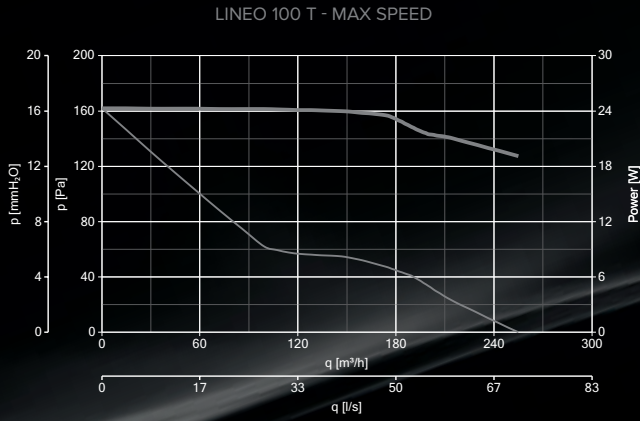
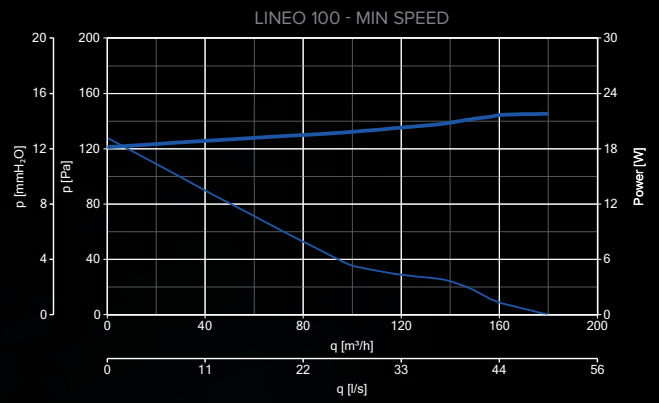
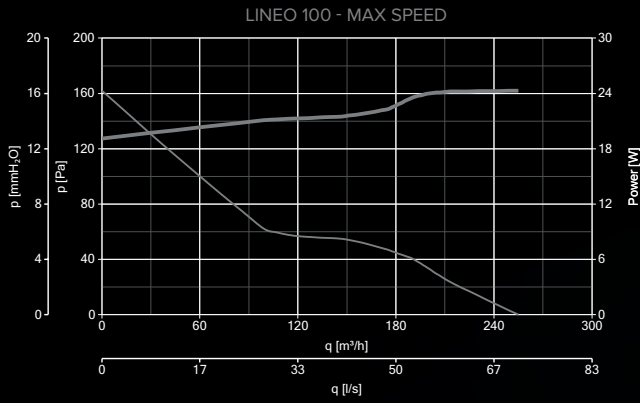


## VERSION C

LINEO 200 - LINEO 200 T - LINEO 250 - LINEO 315

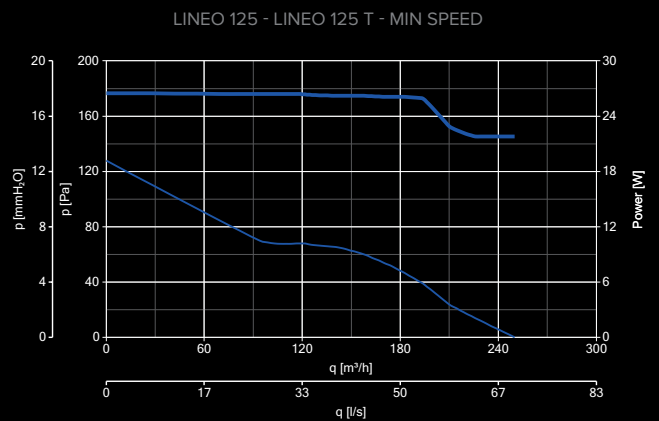
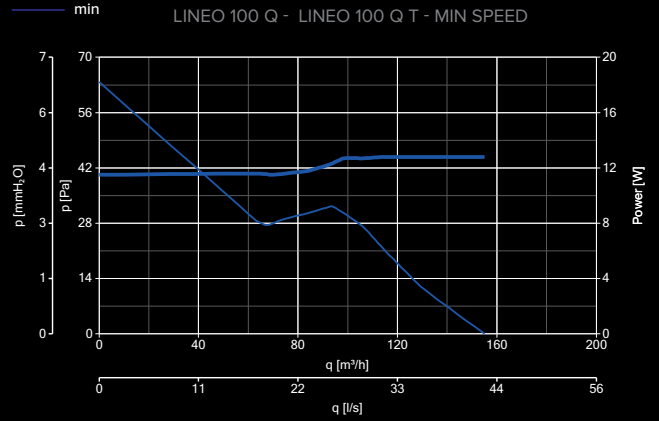
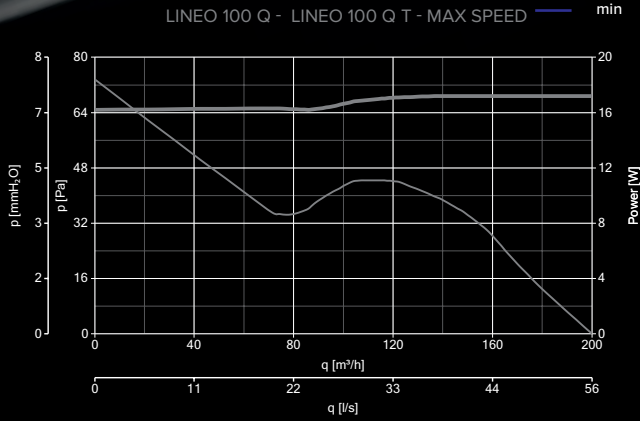


## PERFORMANCE AND ABSORPTION CURVES - LINEO



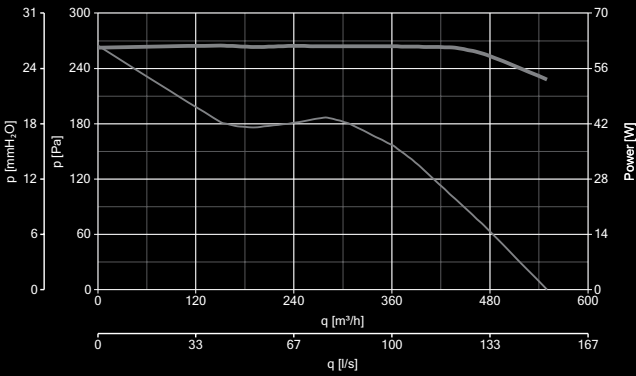
CONSUMPTION  
— max  
— min

PERFORMANCE  
— max  
— min

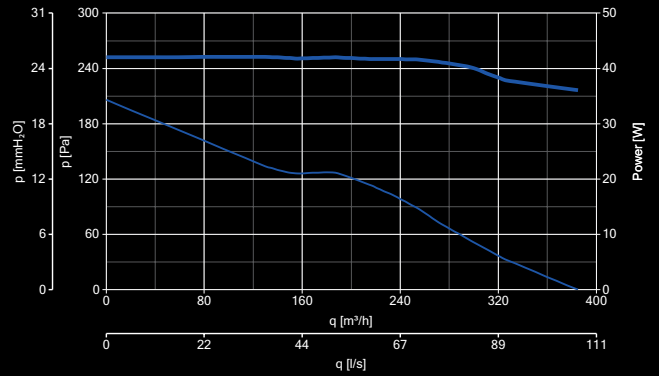


PERFORMANCE AND ABSORPTION CURVES - LINEO

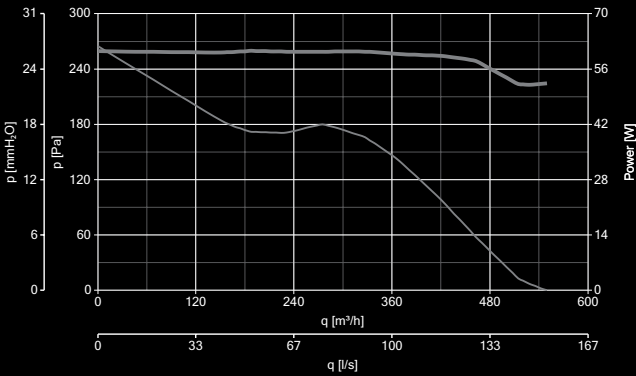
LINEO 150 - LINEO 150 T - MAX SPEED



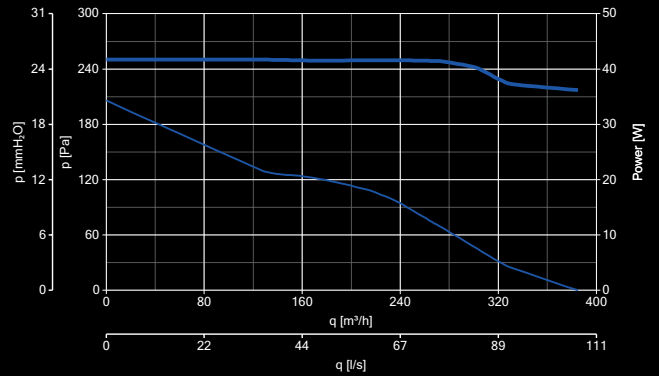
LINEO 150 - LINEO 150 T - MIN SPEED



LINEO 160 - LINEO 160 T - MAX SPEED



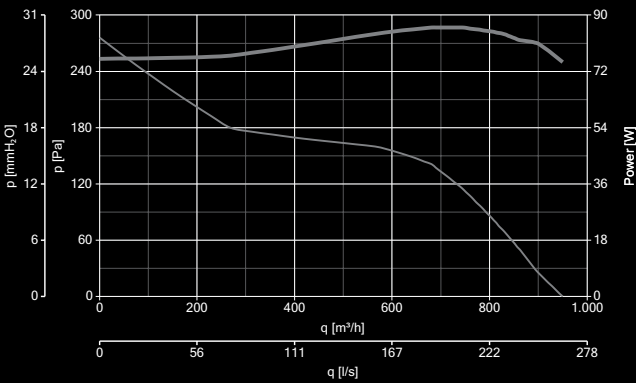
LINEO 160 - LINEO 160 T - MIN SPEED



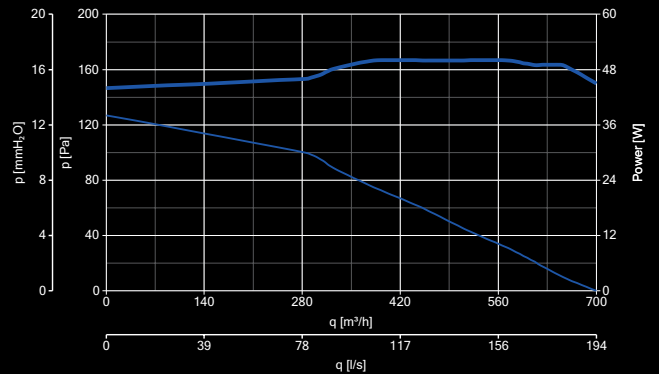
CONSUMPTION  
— max  
— min

PERFORMANCE  
— max  
— min

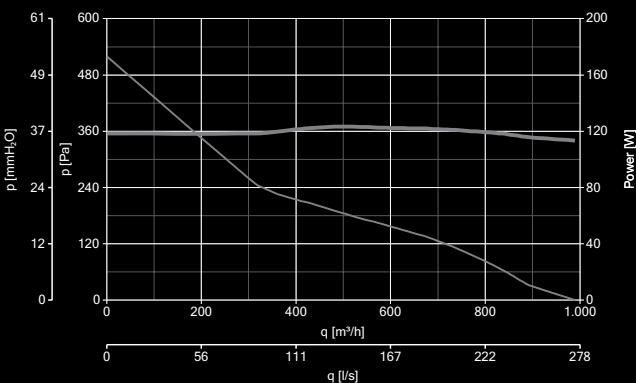
LINEO 200 Q - LINEO 200 Q T - MAX SPEED



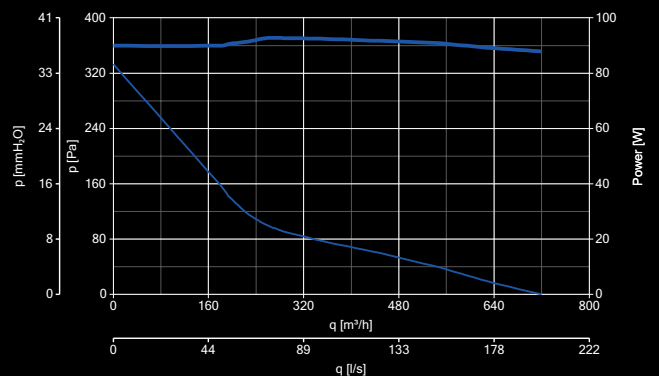
LINEO 200 Q - LINEO 200 Q T MIN SPEED



LINEO 250 Q - LINEO 250 Q T - MAX SPEED

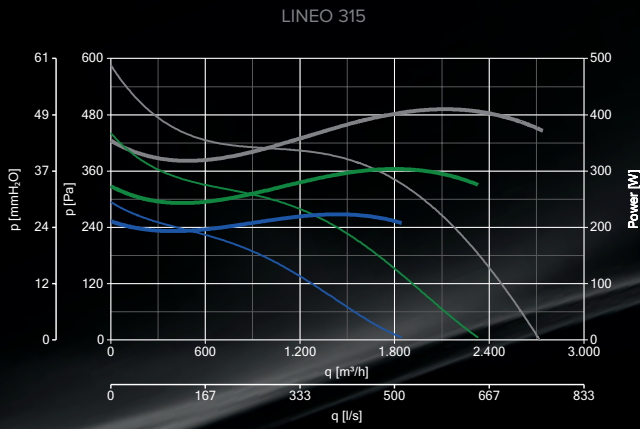
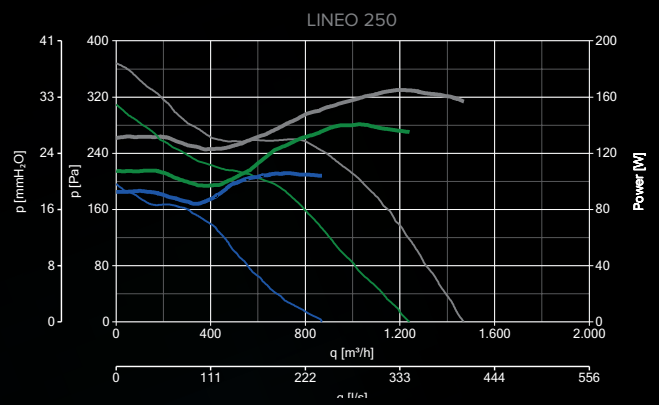
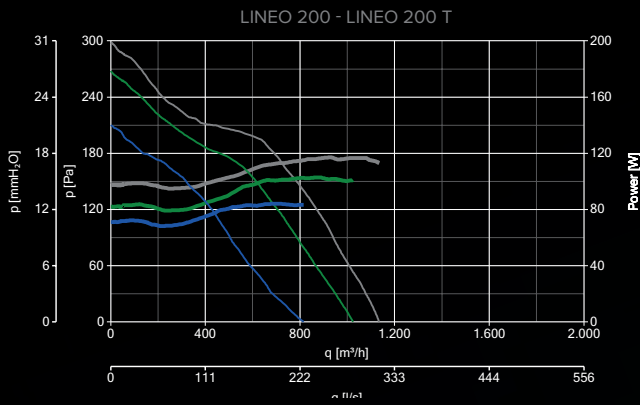


LINEO 250 Q - LINEO 250 Q T - MAX SPEED





## PERFORMANCE AND ABSORPTION CURVES - LINEO



CONSUMPTION	PERFORMANCE
— MAX	— MAX
— MID	— MID
— MIN	— MIN

NEW

LINEO RANGE

In-line mixed flow fans equipped with AC motors



## ENERGY EFFICIENCY DATA REQUIRED BY REG. ERP N° 327/211

Attribute name	LINEO 250 17181	LINEO 315 17166
Overall efficiency ( $\eta$ )	39,02	44,19
Test category	C	C
Data at the point of maximum efficiency ( $\eta$ )	857,5	1667,8
Efficiency category	statica	statica
Efficiency grade ( $\eta$ )	58,2	58,9
Variable speed drive	No	No
Year of construction	2020	2020
Model number	17181	17182
Power at peak efficiency (kW)	0,150	0,395
Pressure at high efficiency point (Pa)	246,11	376,99
Maximum efficiency point speed (RPM)	2777	2650
Specific ratio	1	1

## TECHNICAL AND PERFORMANCE DATA - LINEO ES

Models	Code	V ~ 50/60HZ	W		A		RPM		Max Airflow		Max Pressure		Protecion grade***	Max °C	KG
			4/6/8/10V	4/6/8/10V	4/6/8/10V	4/6/8/10V	m³/h 4/6/8/10V	l/s 4/6/8/10V	mmH₂O 4/6/8/10V	Pa 4/6/8/10V					
LINEO 100 ES	17159	220 - 240	6.5	0.07	1070	140	38.9	3.7	36.3	IP45	60	2.3			
			8.7	0.09	1345	175	48.6	6.1	59.8						
			16	0.15	1900	250	250	11.4	111.8						
			20	0.20	2220	305	84.7	26.4	258.9						
LINEO 100 Q ES	17158	220 - 240	4.5	0.05	900	60	16.7	0.9	8.8	IP45	60	1.8			
			5.5	0.06	1235	80	22.2	1.7	16.7						
			9	0.08	2070	145	40.3	4.3	42.2						
			19	0.18	3230	235	65.3	9.8	96.1						
LINEO 125 ES	17178	220 - 240	7	0.07	1090	170	47.2	3.8	37.3	IP45	60	2.2			
			10	0.10	1395	220	61.1	6.5	63.7						
			18	0.17	1940	315	87.5	11.8	115.7						
			25	0.25	2270	370	102.8	30.2	296.2						
LINEO 150 ES	17179	220 - 240	11	0.10	1260	290	80.6	8.5	83.4	IP45	60	2.6			
			17	0.16	1595	370	102.8	13.8	135.3						
			34	0.30	2125	500	138.9	22.7	222.6						
			55	0.50	2480	590	163.9	44.2	433.5						
LINEO 160 ES	17183	220 - 240	12	0.11	1305	300	83.3	9	9	IP45	60	2.7			
			19	0.17	1645	385	106.9	14.8	145.1						
			37	0.33	2165	510	141.7	23.5	230.5						
			60	0.55	2625	630	175	47.2	462.9						
<span style="background-color: red; color: white; padding: 2px;">NEW</span> LINEO 200 ES	17167	220 - 240	15.8	0.19	1380	560	155.6	9.2	90.2	IP45	50	4.6			
			25.7	0.28	1700	700	194.4	14.4	141.2						
			52.8	0.53	2220	920	255.6	24	235.4						
			90	0.80	2680	1100	305.6	34.9	342.4						
<span style="background-color: red; color: white; padding: 2px;">NEW</span> LINEO 250 ES	17168	220 - 240	20	0.17	2270	755	209.7	11	107.9	IP45	50	5			
			35	0.28	1695	935	259.7	16.9	165.7						
			75	0.61	1370	1235	343.1	28.9	283.4						
			126	1.00	2680	1475	409.7	40.4	396.2						
<span style="background-color: red; color: white; padding: 2px;">NEW</span> LINEO 315 ES	17169	220 - 240	45	0.37	1300	1415	393.1	14.6	143.2	IP45	50	9.2			
			75	0.63	1600	1740	393.1	21.9	214.8						
			170	1.32	2130	2320	483.3	38.6	378.6						
			230	1.75	2370	2625	729.2	43	421.7						

\* All data referred to supply at 50 Hz

\*\*\* Protection referred to ducted units

## SOUND LEVELS - LINEO ES

### SOUND POWER Lw dB (A)

Models	Code	INTAKE				SUPPLY				IRRADIATED			
		4V	6V	8V	10V	4V	6V	8V	10V	4V	6V	8V	10V
LINEO 100 ES	17159	63.3	69.4	78.2	82.6	62.1	68.4	77.5	82	35.5	39.5	47.8	52.3
LINEO 100 Q ES	17158	57.8	64.9	75.1	85.7	54.9	64.9	73.5	85.7	35.1	37.4	47.5	56.6
LINEO 125 ES	17178	64.1	68.2	76.7	81.4	63.6	68.6	77.5	81.5	36.8	40.5	48.8	52.2
LINEO 150 ES	17179	67.9	74.6	82.1	87.9	69.6	75.2	82.1	86.4	41.5	47.8	56.1	62.5
LINEO 160 ES	17183	68.4	76.4	83.1	87.5	69.1	76	82.8	86.9	42.4	49.4	57	62.3
LINEO 200 ES	17167	78.5	83.9	86.9	89.4	77.5	82.9	85.4	88.4	55.6	60.4	62.8	65
LINEO 250 ES	17168	74.2	79.1	85.1	88.9	74.4	79.2	84.9	88.5	49.5	54.3	61.4	64
LINEO 315 ES	17169	83.1	88	90.7	92.8	80.8	88.2	88.8	90	63	64.6	65.3	68.1

### SOUND PRESSURE Lp dB(A)\*

Models	Code	INTAKE				SUPPLY				IRRADIATED			
		4V	6V	8V	10V	4V	6V	8V	10V	4V	6V	8V	10V
LINEO 100 ES	17159	45.8	51.9	60.7	65.1	44.6	50.9	59.9	64.4	15	18.9	27.2	31.8
LINEO 100 Q ES	17158	40.2	47.3	57.6	68.2	37.3	47.4	56	68.1	14.6	16.9	27	36.1
LINEO 125 ES	17178	46.6	50.6	59.1	63.9	46	51.1	60	64	16.2	20	28.3	31.6
LINEO 150 ES	17179	50.4	57.1	64.6	70.3	52.1	57.7	64.5	68.9	21	27.2	35.5	41.9
LINEO 160 ES	17183	50.9	58.9	65.6	70	51.5	58.5	65.6	69.3	21.9	28.9	36.5	41.8
LINEO 200 ES	17167	60.9	66.4	69.4	71.9	60	65.3	67.9	70.8	35.1	39.9	42.3	44.5
LINEO 250 ES	17168	56.7	61.5	67.6	71.3	56.9	61.6	67.3	71	29	33.7	40.9	43.4
LINEO 315 ES	17169	65.6	70.4	73.2	75.3	63.3	70.6	71.2	72.4	42.5	44	44.8	47.5

\* Calculated in free field conditions at 3 m distance

NEW

# LINEO ES RANGE

In-line mixed flow fans equipped with EC Brushless motors



## DIMENSIONS - LINEO ES

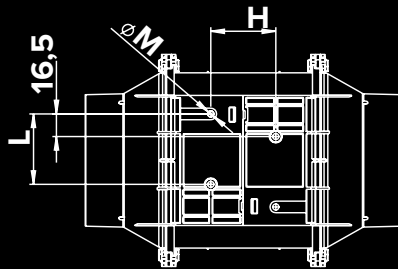
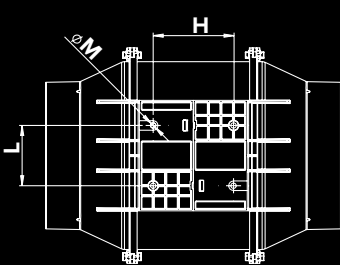
Models	Code	A	B	C	Ø D	E	F	G	H	L	Ø M	N
LINEO 100 ES	17159	188.5	240	303	96	101.5	189	90	60	80	5.5	-
LINEO 100 Q ES	17158	156	205	231	96	82	152	95	51.5	47.5	4.5	-
LINEO 125 ES	17178	188.5	240	258	122	101.5	189	90	60	80	5.5	-
LINEO 150 ES	17179	214.5	265	294	146	112.5	212	110	60	80	5.5	-
LINEO 160 ES	17183	214.5	265	272.5	156	112.5	212	110	60	80	5.5	-
LINEO 200 ES	17167	270	372.5	396	194.5	195	330	190	120	155	5.5	280
LINEO 250 ES	17168	300	377.5	322	243	190	329	200	70	170	6.5	174.5
LINEO 315 ES	17169	373	506	420	307	224	398	309	110	255	8.5	259.5

### VERSION A

LINEO 100 ES - LINEO 125 ES  
LINEO 150 ES - LINEO 160 ES

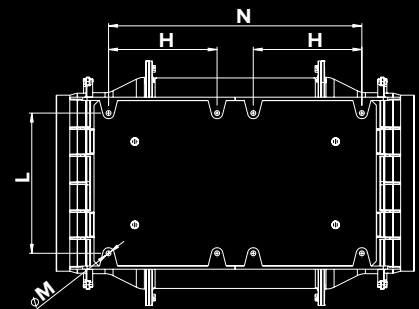
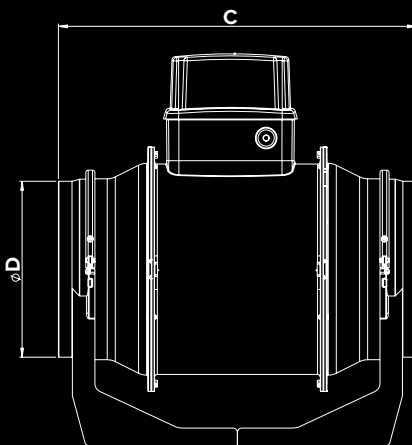
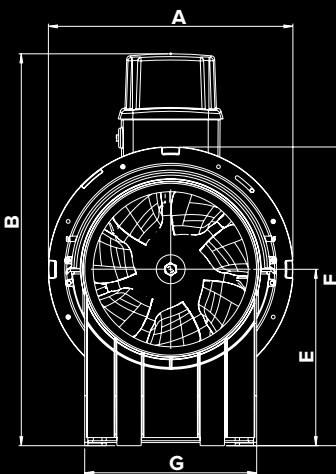
### VERSION B

LINEO 100 Q ES

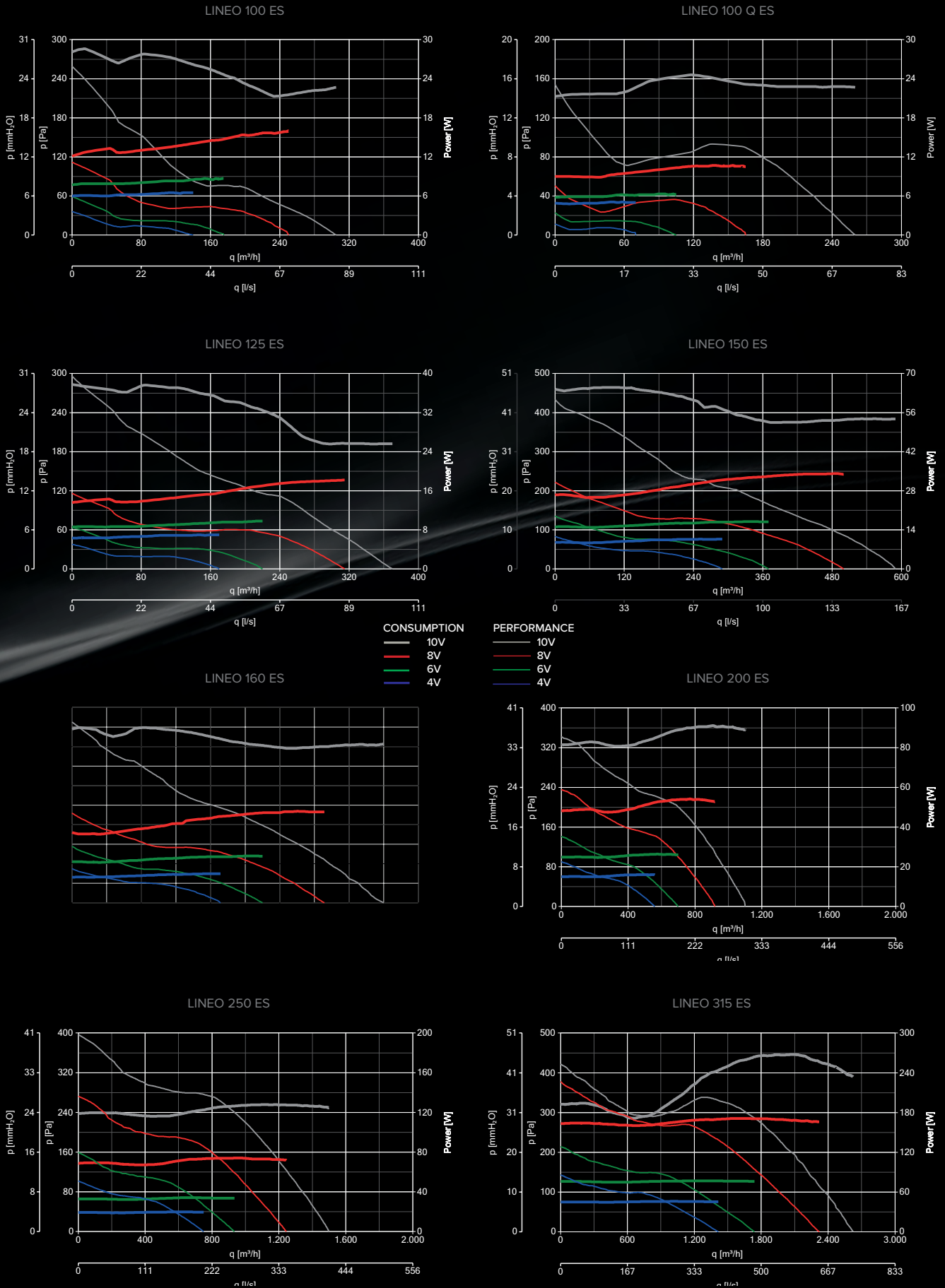


### VERSION C











LINEO 200 ES - LINEO 250 ES - LINEO 315 ES








## PERFORMANCE AND ABSORPTION CURVES - LINEO ES



## CONTROLLERS - LINEO

MODELS	DESCRIPTION	CODE	PRODUCT
	<b>C5 0.5</b> - 5 SPEED CONTROLLER	12987	17180
	<b>C 1.5</b> - ELECTRONIC SPEED CONTROLLER 1.5 A	12966	17180
	<b>C 2.5</b> - ELECTRONIC SPEED CONTROLLER 2.5 A	12967	17181 - 17182
	<b>KIT SCB5</b> - CONVERTS SCR5 TO A BUILT-IN VERSION	22483	12987 - 12966 - 12967
	<b>KIT SCB</b> - BUILT-IN CONTROLLER ADAPTOR	22481	12987 - 12966 - 12967
	<b>POT-IT</b> - POTENTIOMETER COMATIBLE WITH FLUSHMOUNTING IN UNI 503 ELECTRIC BOX	12826	17158 - 17159 - 17179 - 17183 - 17187 17167 - 17168 - 17169
	<b>POT</b> - POTENTIOMETER COMATIBLE WITH FLUSHMOUNTING IN DIN ELECTRIC BOX	12828	17158 - 17159 - 17179 - 17183 - 17187 17167 - 17168 - 17169
	<b>TRIO-LINEO 503</b> - 3 SPEED SELECTOR	12891	17181 - 17177 - 17182
	<b>DUO</b> - 2 SPEED SELECTOR	22914	17144 - 17185 - 17143 - 17184 - 17145 17186 - 17146 - 17187 - 17147 - 1718 17148 - 17189 - 17149 - 17197
	<b>C TEMP</b> - TEMPERATURE SENSOR	12992	ALL PRODUCTS
	<b>C SMOKE</b> - AIR QUALITY SENSOR	12993	ALL PRODUCTS
	<b>C HCS</b> - RELATIVE HUMIDITY SENSOR	12994	ALL PRODUCTS
	<b>C PIR</b> - PASSIVE INFRARED SENSOR	12998	ALL PRODUCTS
	<b>C TIMER</b> - TIMER	12999	ALL PRODUCTS

## ACCESSORIES ON REQUEST - LINEO

MODELS	DESCRIPTION	CODE	PRODUCT	
		100	22584	
	<b>LINEO-C</b> - IN-LINE INSTALLATION KITS	125	22585	17159 - 17158
		150	22586	17178
		160	22587	17179
		160	22587	17183
		100	22577	
	<b>LINEO-PF</b> - SIDE BY SIDE INSTALLATION KITS	125	22578	17159 - 17158
		150	22579	17178
		160	22579	17179
		160	22581	17179
	<b>LINEO-SF 500</b> - BRACKET FOR IN-LINE APPLICATION		22593	
		17143 - 17184 - 17144 - 17185 - 17159 17158 - 17145 - 17186 - 17178 - 17146 17187 - 17179 - 17147 - 17188 - 17183 17148 - 17189 - 17180 - 17177 - 17167		
	<b>LINEO-SF 700</b> - BRACKET FOR IN-LINE APPLICATION		22594	
		17149 - 17197 - 17168 - 17169		
		100	22701	
	<b>LINEO-G</b> - PROTECTION GRILLE	125	22702	17143 - 17184 - 17144 17185 - 17159 - 17158
		150	22703	17145 - 17186 - 17178
		160	22704	17146 - 17187 - 17179
		160	22704	17147 - 17188 - 17183
		200	22705	17148 - 17189 - 17180 - 17177 - 17167
		250	22706	17149 - 17197 - 17168
315	22707	17169		



# LINEO ES RANGE

NEW

In-line mixed flow fans equipped with EC Brushless motors

## ENERGY EFFICIENCY DATA REQUIRED BY REG. ERP N° 327/211

Attribute name	LINEO 250 ES 17168	LINEO 315 ES 17169
Overall efficiency ( $\eta$ )	51,87	57,94
Test category	D	D
Data at the point of maximum efficiency ( $\eta$ )	962,9	1610,6
Efficiency category	statica	totale
Efficiency grade ( $\eta$ )	71,8	74,6
Variable speed drive	si	si
Year of construction	2020	2020
Model number	17168	17169
Power at peak efficiency (kW)	0,125	0,258
Pressure at high efficiency point (Pa)	243,08	334,45
Maximum efficiency point speed (RPM)	2658	2364
Specific ratio	<1,04	<1,04



