



NEW

# LINEO RANGE

In-line mixed flow fans



# LINEO RANGE

## In-line mixed flow fans

The LINEO range products are “mixed flow” fans specifically designed for horizontal or vertical ducted installation

VENTILATION OF RESIDENTIAL,  
COMMERCIAL OR INDUSTRIAL PREMISES.



They all have high levels of energy efficiency and meet the requirements of ERP Regulation 327/2011/EU. The fans in the renewed LINEO range boast

HIGH PERFORMANCE, LOW ENERGY CONSUMPTION, LOW NOISE EMISSIONS AND EASE OF INSTALLATION AND MAINTENANCE

placing them at the top of the category.

The LINEO range products are characterised by technopolymer enclosures for increased fire resistance safety class E2, according to EN ISO 11925-2:2010 and have a high degree of protection against water the classification only applies to a properly installed product

## THE DESIGN

### CONSTRUCTION FEATURES COMMON TO THE RANGE

#### The design consists of the following:

- a central motor mount which encloses the fan motor unit and houses the wiring devices externally, in an easily reachable position;
- the main body, fixed to a pair of end supports arranged for connection to the suction and delivery pipes, which is designed to rotate on its own axis to facilitate the housing of the product in small spaces and its wiring through the contacts positioned on its external surface;
- The ease with which it can be removed without altering the surrounding piping system, greatly speeds up and facilitates maintenance;

- the air flow rectifiers on the delivery side work in synergy with the upstream impeller, optimise the managed air flow, maximising performance and increasing efficiency, reducing the occurrence of vortices and minimising noise emissions;
- the mixed flow type impellers, combine the advantages of helical fans (high flow rates and flow around the axis of the impeller), with the high pressures of centrifugal fans; the directly coupled motors have shafts mounted on ball bearings, ensuring a virtually “maintenance free” operation;
- the timer in the T models allows the operation of the appliance to be programmed at maximum speed and ease at a range between 3' and 20', which can be set during installation.

### KEY FEATURES

- high-performance, top-of-the-range;
- easy maintenance. Each component allows easy connection and disconnection with the nearby elements, and easy access to the inner components (motor-impeller) and their replacement. In the case of silenced products, the sound absorbing shells refitted at the end of the maintenance process, restore the original sound performance under test conditions;
- the motors have a minimum guaranteed life in continuous operation at maximum speed and at maximum ambient temperature of 30,000 or 40,000 hours depending on the type;
- completeness of the range, designed to offer the ideal product to meet the specific requirements of the system in terms of performance, consumption, quiet operation, operating costs and purchase price.

# LINEO QUIET RANGE

In-line mixed flow fans

The **LINEO QUIET** range products are characterised by the use of a **sound-absorbing coating**, which is fully integrated in the outer casing and optimised to minimise environmental sound emissions.

**HIGH-LEVEL PERFORMANCE,  
AT THE TOP OF THE RANGE.**



NEW

**LINEO QUIET RANGE**

In-line mixed flow fans



because energy  
has to be....

**SAVED**

The impeller profiles,  
the flow rectifiers and ogival profile  
of the flow driver work in synergy with  
the upstream impeller optimise the  
managed air flow, maximising performance  
and increasing efficiency, reducing  
the occurrence of vortices and  
minimising noise  
emissions.

because silence  
has to be....

# BUILT

## IMPELLER

Designed to reach the ERP  
efficiency levels

## CO-MOULDED SHELL

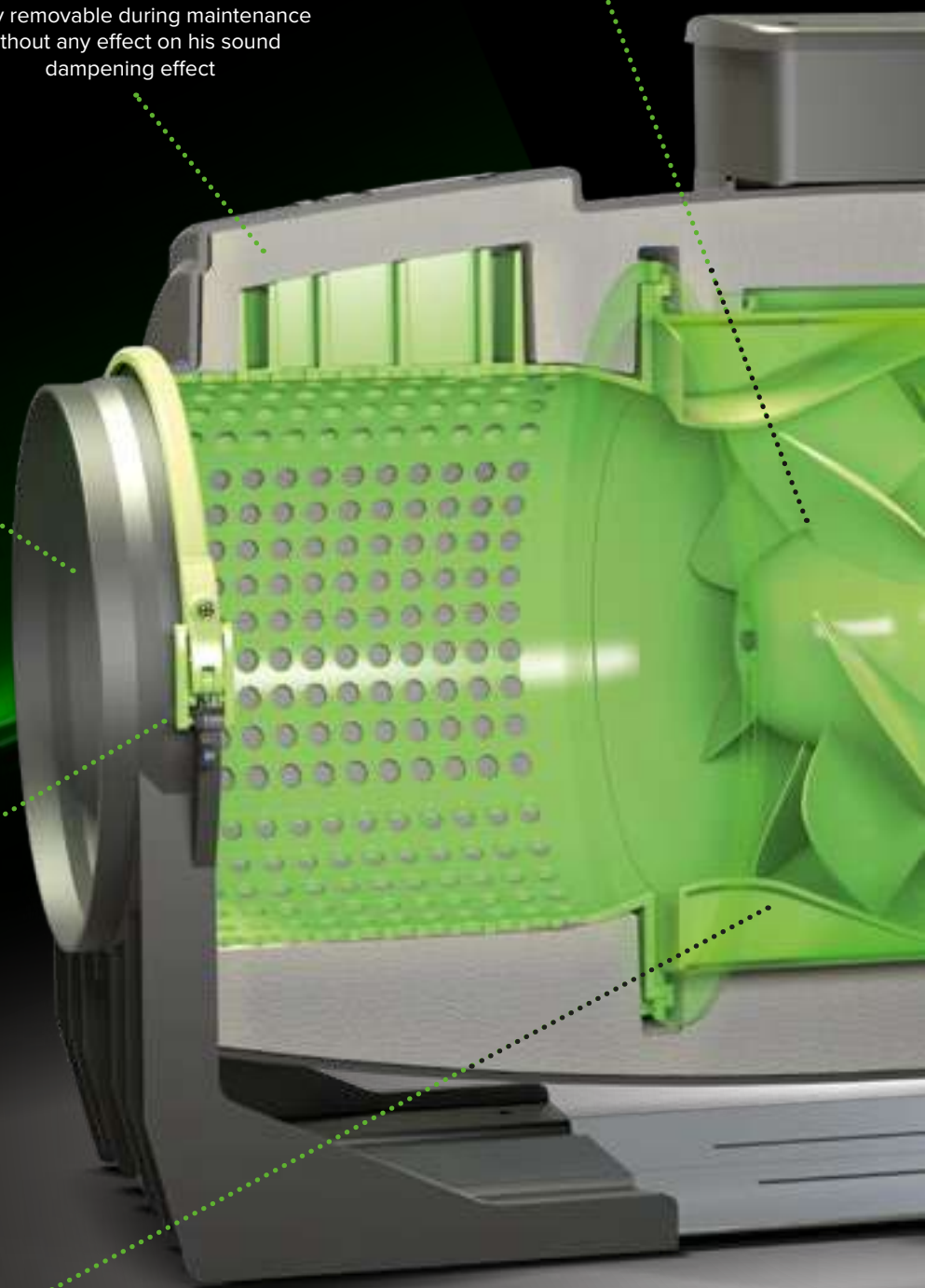
Easily removable during maintenance  
without any effect on his sound  
dampening effect

## INLET NOZZLE

Dimensioned to sustain the product  
in the wall and ceiling installation

## DIVERGENT ELEMENT

It helps the impeller to increase  
the performance



NEW

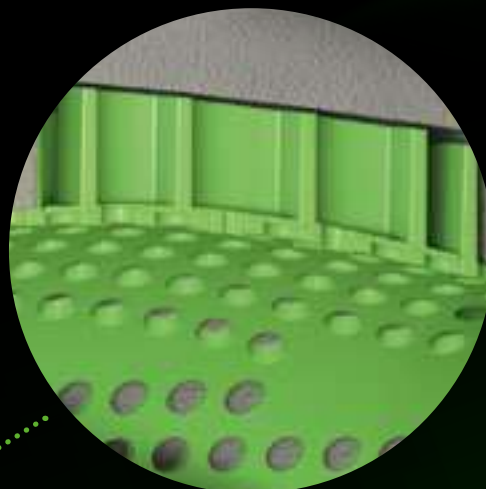
# LINEO QUIET RANGE

In-line mixed flow fans



## ELECTRIC BOX

Produced in a material granting electrical and fire resistance



## HELMHOLTZ RESONATOR GROUP

Passive sound dampener used to decrease the noise levels at predetermined frequencies

## FLOW DRIVER

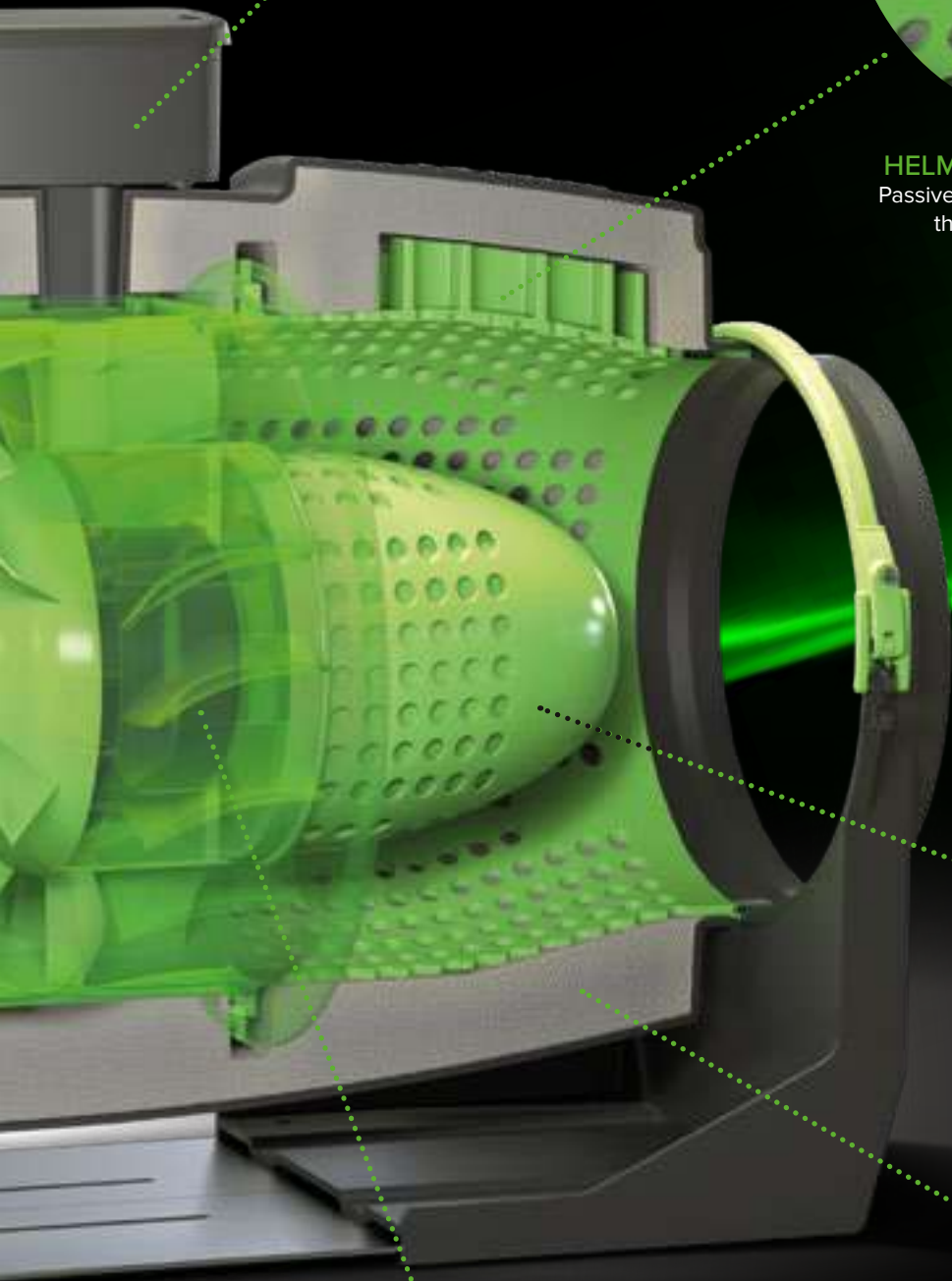
It corrects the airflow after the impeller and the rectifier, avoiding energy losses due to vortices

## CO-MOULDED SHELL

Easily removable during maintenance without any effect on his sound dampening effect

## RECTIFIER BLADES

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



# LINEO QUIET ES RANGE

equipped with EC brushless motors

The products in the **LINEO QUIET ES** range differ from the corresponding versions of the LINEO QUIET range due to the use of electronically controlled 2 speed EC brushless (low consumption) motors. Each speed can be set at installation. Alternatively the units can run at 1 speed only, adjustable by user through 0-10V signal.



# LINEO QUIET RANGE

equipped with AC motors

The **LINEO QUIET** range products are fitted with traditional AC motors, 2 or 3 speed depending on the model.





NEW

LINEO QUIET RANGE

In-line mixed flow fans



because environment  
has to be....

**SUSTAINED**





# LINEO QUIET ES RANGE NEW

In-line mixed flow fans equipped with EC Brushless motors

## TECHNICAL AND PERFORMANCE DATA - LINEO QUIET ES\*

Models	Code	V~50/60HZ	W		RPM	Max Airflow		Max Pressure		Protection grade**	Max °C	KG
			4/6/8/10V			4/6/8/10V		4/6/8/10V				
			4/6/8/10V	4/6/8/10V		m³/h	l/s	mmH <sub>2</sub> O	Pa			
LINEO 100 QUIET ES	17170	220-240	6.2	0.09	1140	135	37.5	3.5	34.3	IP45	60	3.8
			8.3	0.12	1450	175	48.6	5.8	56.9			
			14.7	0.18	2050	250	69.4	11.4	111.8			
			23	0.26	2510	300	83.3	24.8	243.2			
LINEO 125 QUIET ES	17171	220-240	6.6	0.10	1080	180	50	3.3	32.4	IP45	60	3.6
			8.8	0.12	1340	225	62.5	5.6	54.9			
			16	0.18	1865	320	88.9	11	107.9			
			24	0.26	2210	380	105.6	23.7	232.4			
LINEO 150 QUIET ES	17172	220-240	7.7	0.11	1015	250	69.4	4.6	45.1	IP45	60	5.4
			10.6	0.14	1240	305	84.7	7.5	73.6			
			20	0.24	1700	430	119.4	14.7	107.9			
			31	0.34	2030	515	143.1	24.2	237.3			
LINEO 160 QUIET ES	17173	220-240	7.7	0.11	1010	250	69.4	4.5	44.1	IP45	60	5.2
			10.6	0.14	1245	315	87.5	7.5	73.6			
			19.7	0.23	1685	435	120.8	14.4	141.2			
			31	0.34	2035	525	145.8	23.9	234.4			
LINEO 200 QUIET ES	17174	220-240	15.2	0.18	1380	570	158.3	8.6	84.3	IP45	50	8.6
			25.3	0.27	1705	720	200	13.9	136.3			
			52.4	0.52	2245	945	262.5	22.9	224.6			
			88	0.78	2700	1145	318.1	33.6	329.5			
LINEO 250 QUIET ES	17175	220-240	20	0.19	1365	750	208.3	10.1	99.1	IP45	50	13.4
			35	0.28	1680	940	261.1	15.6	153			
			75	0.60	2250	1250	347.2	26.6	260.9			
			125	0.97	2680	1485	412.4	37.5	367.8			
LINEO 315 QUIET ES	17176	220-240	42	0.31	1260	1400	388.9	12.9	126.5	IP45	50	28.3
			72	0.51	1560	1730	480.6	19.5	191.2			
			155	1.10	2070	2300	638.9	33.8	331.5			
			220	1.52	2350	2630	730.6	38.7	379.5			

\* all data referred to supply at 50 Hz

\*\* protection grade referred to ducted units

## SOUND LEVELS - LINEO QUIET ES

Models	Code	SOUND POWER L <sub>w</sub> dB (A)											
		INTAKE				SUPPLY				BREAKOUT			
		4V	6V	8V	10V	4V	6V	8V	10V	4V	6V	8V	10V
LINEO 100 QUIET ES	17170	64.8	72.4	77.5	79.1	64.5	73.2	75.6	79	38.1	46.2	46.5	47.9
LINEO 125 QUIET ES	17171	63.7	71	75.8	78.3	64.3	73.5	74.7	79.4	42.3	48.5	51	51.7
LINEO 150 QUIET ES	17172	65.5	72.1	75	76.9	66	72.8	75.6	76.7	40.7	45.8	49.6	50.8
LINEO 160 QUIET ES	17173	65.5	72.1	75	76.9	66	72.8	75.6	76.7	40.7	45.8	49.6	50.8
LINEO 200 QUIET ES	17174	74.8	80	82.6	84.7	72.4	77.6	80.5	83.6	49.9	54.4	56.9	59.1
LINEO 250 QUIET ES	17175	71.4	76.7	83.7	88.1	70.7	76.1	83	87.2	44.4	49.1	55.9	60
LINEO 315 QUIET ES	17176	82.6	85.7	88.3	89.1	73.3	80.6	82.2	84.5	55.9	62.3	64.7	65.3

Models	Code	SOUND PRESSURE L <sub>p</sub> dB(A)*											
		INTAKE				SUPPLY				BREAKOUT			
		4V	6V	8V	10V	4V	6V	8V	10V	4V	6V	8V	10V
LINEO 100 QUIET ES	17170	47.3	54.9	59.9	61.5	47	55.7	25.9	47	17.6	25.6	25.9	27.4
LINEO 125 QUIET ES	17171	46.1	53.4	58.3	60.8	46.8	56	57.2	61.9	21.8	28	30.4	31.3
LINEO 150 QUIET ES	17172	48	54.6	57.4	59.4	49	55.3	58.1	59.1	20.2	25.3	29.1	30.2
LINEO 160 QUIET ES	17173	48	54.6	57.4	59.4	49	55.3	58.1	59.1	20.2	25.3	29.1	30.2
LINEO 200 QUIET ES	17174	57.3	62.4	65.1	67.1	54.8	60.1	63	66.1	29.4	33.9	36.4	38.6
LINEO 250 QUIET ES	17175	53.9	59.2	66.1	70.5	52	58.6	65.5	69.7	23.8	28.6	35.4	39.5
LINEO 315 QUIET ES	17176	65.1	68.2	70.8	71.6	55.8	63.1	64.6	67	35.4	41.8	44.1	44.8

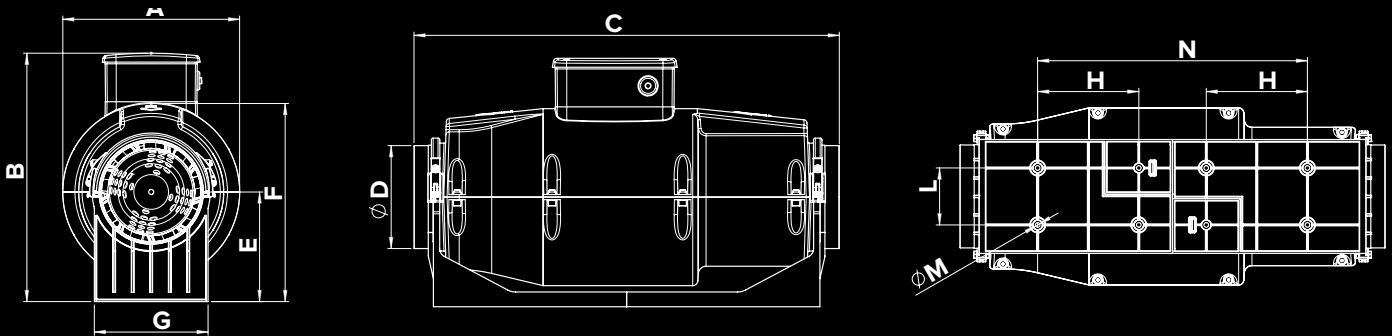
\* Calculated in free field conditions at 3 m distance

## DIMENSIONS - LINEO QUIET ES

Models	Code	A	B	C	Ø D	E	F	G	H	L	Ø M	N	VERSION
LINEO 100 QUIET ES	17170	210	294.6	639	97	130	235	135	120	67.5	5.5	320	A
LINEO 125 QUIET ES	17171	210	294.6	504.5	122	130	235	135	120	67.5	5.5	320	A
LINEO 150 QUIET ES	17172	232	320.6	685	147	145	261.5	170	132	85	5.5	360	A
LINEO 160 QUIET ES	17173	232	320.6	570	156.5	145	261.5	170	135	85	5.5	360	A
LINEO 200 QUIET ES	17174	322.5	417.6	625.5	194.5	195	363.5	190	120	155	5.5	510	B
LINEO 250 QUIET ES	17175	318	411.9	751.5	243	189.5	363.5	200	70	170	6.5	604.5	B
LINEO 315 QUIET ES	17176	415.5	557.8	940	307	234	441	309	110	255	8.5	780	C

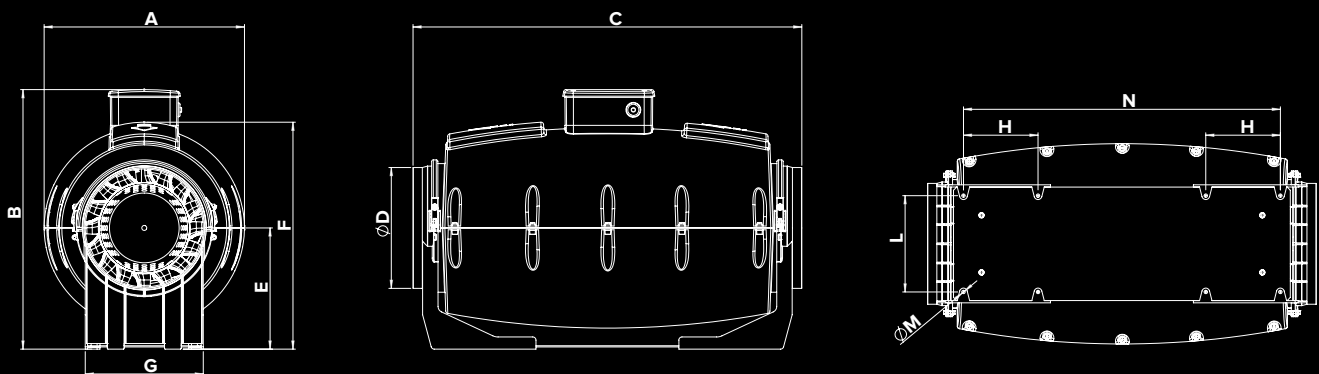
### VERSION A

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



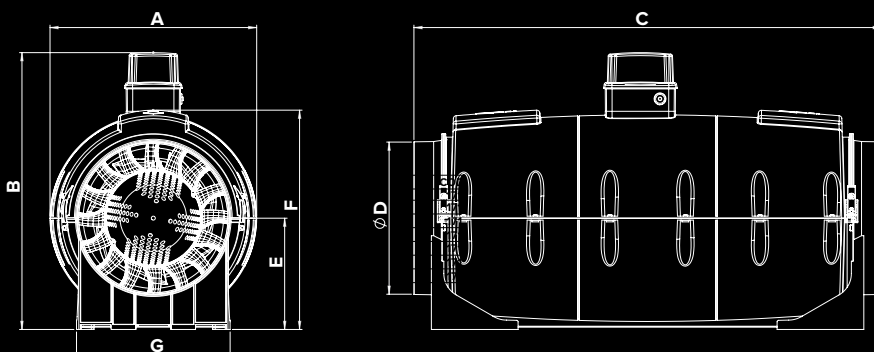
### VERSION B

LINEO 200 QUIET ES - LINEO 250 QUIET ES



### VERSION C

LINEO 315 QUIET ES

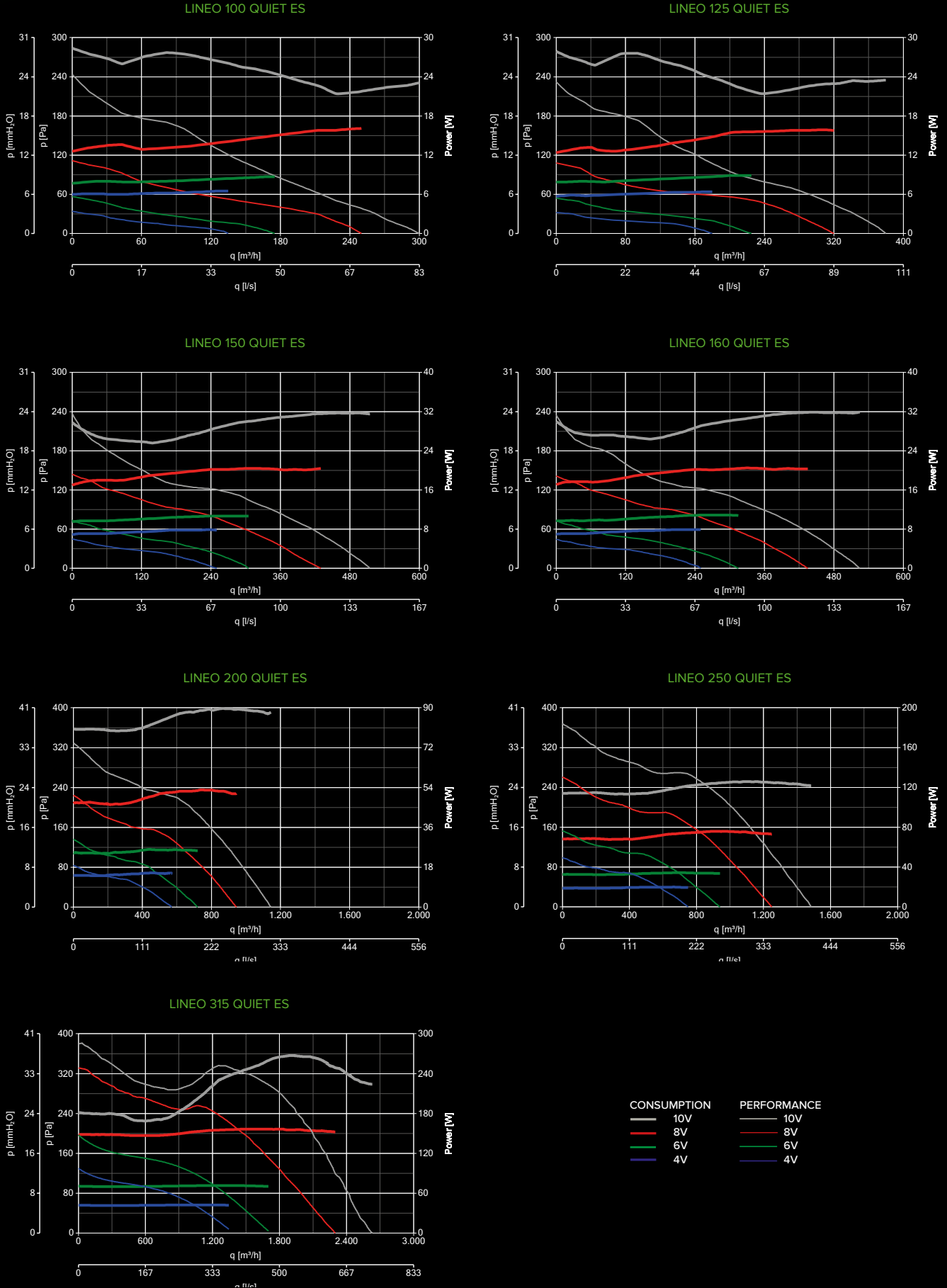





# LINEO QUIET ES RANGE NEW

In-line mixed flow fans equipped with EC Brushless motors

## PERFORMANCE AND ABSORPTION CURVES - LINEO QUIET ES



## CONTROLLERS - LINEO QUIET ES

MODELS	DESCRIPTION	CODE	PRODUCT
	<b>POT-IT</b> - POTENTIOMETER COMPATIBLE WITH FLUSHMOUNTING IN UNI 503 ELECTRIC BOX	12826	17170 - 17171 - 17172 - 17173 - 17174 17175 - 17176
	<b>POT</b> - POTENTIOMETER COMPATIBLE WITH FLUSHMOUNTING IN DIN ELECTRIC BOX	12828	17170 - 17171 - 17172 - 17173 - 17174 17175 - 17176
	<b>DUO</b> - 2 SPEED SELECTOR	22914	ALL PRODUCTS
	<b>C TEMP</b> - TEMPERATURE SENSOR	12992	ALL PRODUCTS
	<b>C SMOKE</b> - AIR QUALITY SENSOR	12993	ALL PRODUCTS
	<b>C HCS</b> - HUMIDITY SENSOR	12994	ALL PRODUCTS
	<b>C PIR</b> - PASSIVE INFRARED SENSOR	12998	ALL PRODUCTS
	<b>C TIMER</b> - TIMER	12999	ALL PRODUCTS



# LINEO QUIET RANGE NEW

In-line mixed flow fans equipped with AC motors

## TECHNICAL AND PERFORMANCE DATA - LINEO QUIET\*

Models	Code	V~50/60 HZ	W min/med/ max	A min/med/ max	RPM min/med/ max	Max Airflow		Max Pressure		Protecion grade**	Max °C	KG
						m³/h min/med/max	l/s min/med/max	mmH₂O min/med/max	Pa min/med/max			
LINEO 100 QUIET	17160	220-240	11	0.09	1455	150	41.7	9	88.3	IP45	45	3,8
LINEO 100 T QUIET	17190		24	0.11	1880	200	55.6	11.5	112.8			
LINEO 125 QUIET	17161	220-240	11	0.09	1125	190	52.8	8	78.5	IP45	45	3,6
LINEO 125 T QUIET	17191		24	0.11	1475	250	69.4	10	98.1			
LINEO 150 QUIET	17162	220-240	24	0.14	1040	255	70.8	10.5	103	IP45	55	5,4
LINEO 150 T QUIET	17192		37	0.17	1430	350	97.2	15.5	152			
LINEO 160 QUIET	17163	220-240	24	0.14	1040	255	70.8	10.5	103	IP45	55	5,2
LINEO 160 T QUIET	17193		37	0.17	1430	350	97.2	15.5	152			
LINEO 200 QUIET	17164	220-240	50	0.34	1880	805	223.6	20.6	202	IPX5	50	8,6
LINEO 200 T QUIET	17194		80	0.42	2380	1045	290.3	26.3	257.9			
LINEO 250 QUIET	17165	220-240	95	0.42	1640	960	266.7	20.2	198.1	IPX5	50	13,4
			125	0.55	2320	1340	372.2	30.3	297.2			
			150	0.65	2750	1550	430.6	34.6	339.3			
LINEO 315 QUIET	17166	220-240	215	0.95	1930	2070	575	30.6	300.1	IPX5	50	28,3
			270	1.15	2360	2530	702.8	43.3	424.6			
			360	1.55	2705	2890	802.8	53.6	525.7			

\* all data referred to supply at 50 Hz

\*\* protection grade referred to ducted units

## SOUND LEVELS - LINEO QUIET

Models	Code	SOUND POWER Lw dB (A)								
		INTAKE			SUPPLY			BREAKOUT		
		min	med.	max	min	med.	max	min	med.	max
LINEO 100 QUIET	17160	62.2	70.5	74.6	62.3	68.7	74.4	36.2	41.8	46.6
LINEO 100 T QUIET	17190									
LINEO 125 QUIET	17161	60.1	64.2	70.4	60.5	64.2	70.9	36.2	41.8	45.5
LINEO 125 T QUIET	17191									
LINEO 150 QUIET	17162	60.3	68.2	77.3	62.1	67.7	76	38.2	43.4	51.2
LINEO 150 T QUIET	17192									
LINEO 160 QUIET	17163	60.3	68.2	77.3	62.1	67.7	76	38.2	43.4	51.2
LINEO 160 T QUIET	17193									
LINEO 200 QUIET	17164	76.9	83.3	86.4	75.1	81.5	85	51.6	57.4	60.7
LINEO 200 T QUIET	17194									
LINEO 250 QUIET	17165	76.3	83.6	85.1	75	83.4	87.4	49.5	57	60.7
LINEO 315 QUIET	17166	82.8	87	91.7	82.8	87	89.8	58.8	62.9	65.9

Models	Code	SOUND PRESSURE LP dB(A)*								
		INTAKE			SUPPLY			BREAKOUT		
		min	med.	max	min	med.	max	min	med.	max
LINEO 100 QUIET	17160	44.6	52.9	57.1	44.8	51.2	56.9	15.7	21.3	26.1
LINEO 100 T QUIET	17190									
LINEO 125 QUIET	17161	42.6	46.7	52.9	43	46.6	53.4	15.6	21.1	25
LINEO 125 T QUIET	17191									
LINEO 150 QUIET	17162	42.8	50.7	59.7	44.5	50.1	58.5	17.6	22.9	30.7
LINEO 150 T QUIET	17192									
LINEO 160 QUIET	17163	42.8	50.7	59.7	44.5	50.1	58.5	17.6	22.9	30.7
LINEO 160 T QUIET	17193									
LINEO 200 QUIET	17164	59.3	65.8	68.8	57.6	64	67.5	31	36.9	40.2
LINEO 200 T QUIET	17194									
LINEO 250 QUIET	17165	58.8	67.6	71.5	57.5	65.9	69.9	29	36.5	40.1
LINEO 315 QUIET	17166	66.8	71	74.2	65.3	69.5	72.3	38.3	42.4	45.4

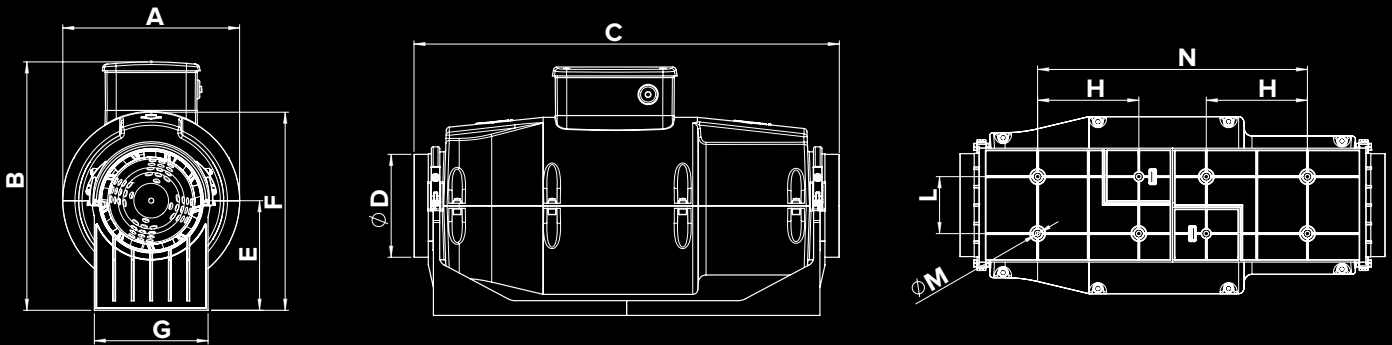
\* calculated in free field conditions at 3 m distance

**DIMENSIONS - LINEO QUIET**

Models	Code	A	B	C	Ø D	E	F	G	H	L	Ø M	N	VERSION
LINEO 100 QUIET	17160												
LINEO 100 T QUIET	17190	210	294.5	639	97	130	235	135	120	67.5	5.5	320	A
LINEO 125 QUIET	17161												
LINEO 125 T QUIET	17191	210	294.6	504.5	122	130	235	135	120	67.5	5.5	320	A
LINEO 150 QUIET	17162												
LINEO 150 T QUIET	17192	232	320.5	685	147	145	261.5	170	132	85	5.5	360	A
LINEO 160 QUIET	17163												
LINEO 160 T QUIET	17193	232	320.5	570	156.5	145	261.5	170	135	85	5.5	360	A
LINEO 200 QUIET	17164												
LINEO 200 T QUIET	17194	322.5	417.5	625.5	194.5	195	363.5	190	120	155	5.5	510	B
LINEO 250 QUIET	17165												
LINEO 250 QUIET	17165	318	412	751.5	243	189.5	363.5	200	70	170	6.5	604.5	B
LINEO 315 QUIET	17166												
LINEO 315 QUIET	17166	415.5	496.5	940	307	244	441	309	110	255	8.5	780	B

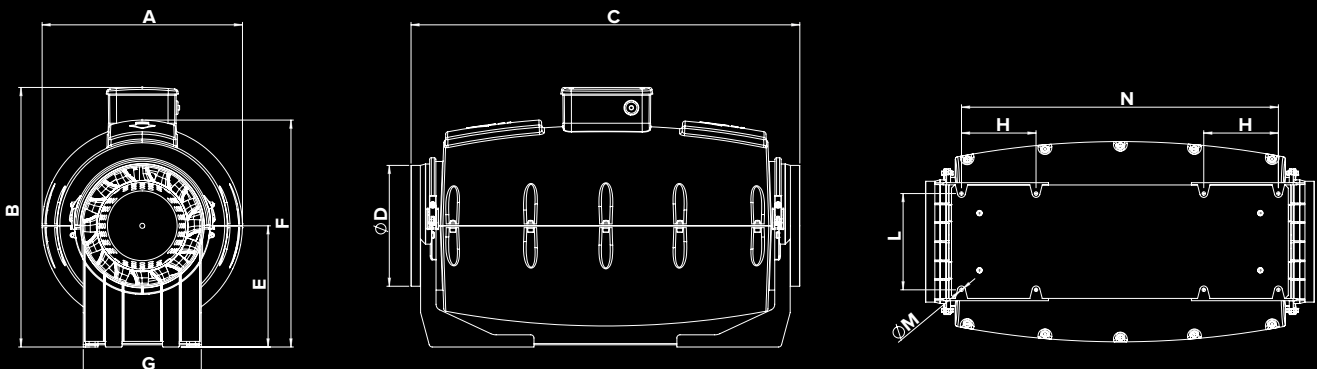
**VERSION A**

LINEO 100 QUIET - LINEO 100 T QUIET - LINEO 125 QUIET - LINEO 125 T QUIET  
LINEO 150 QUIET - LINEO 150 T QUIET - LINEO 160 QUIET - LINEO 160 T QUIET



**VERSION B**

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



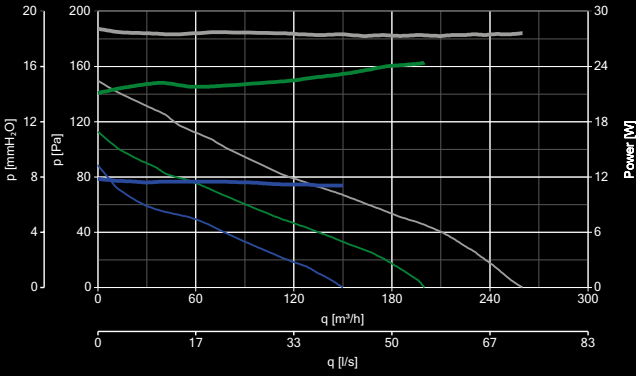


# LINEO QUIET RANGE NEW

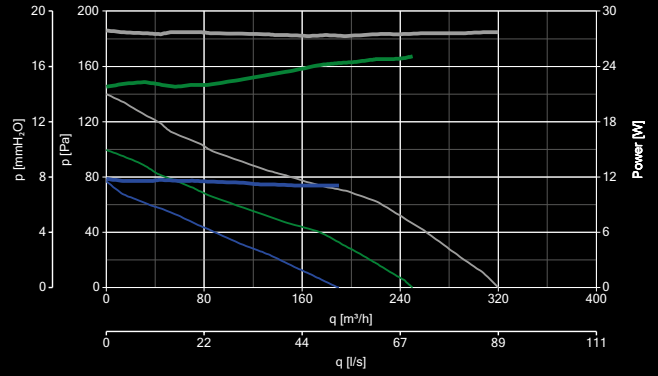
In-line mixed flow fans equipped with AC motors

## PERFORMANCE AND ABSORPTION CURVES - LINEO QUIET

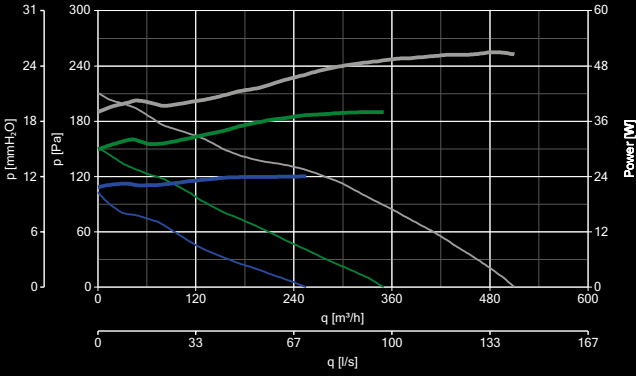
LINEO 100 QUIET - LINEO 100 T QUIET



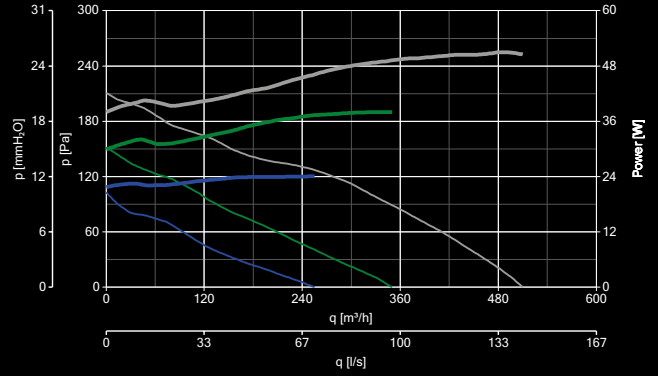
LINEO 125 QUIET - LINEO 125 T QUIET



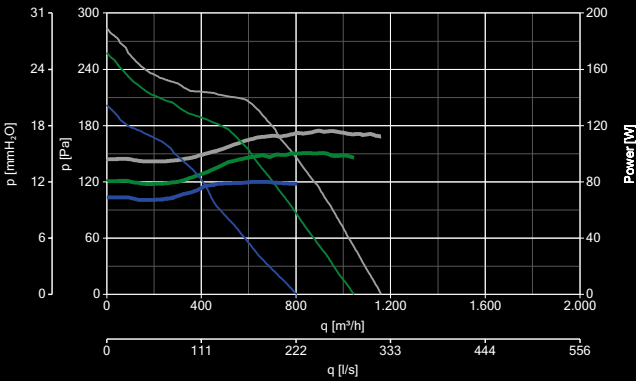
LINEO 150 QUIET - LINEO 150 T QUIET



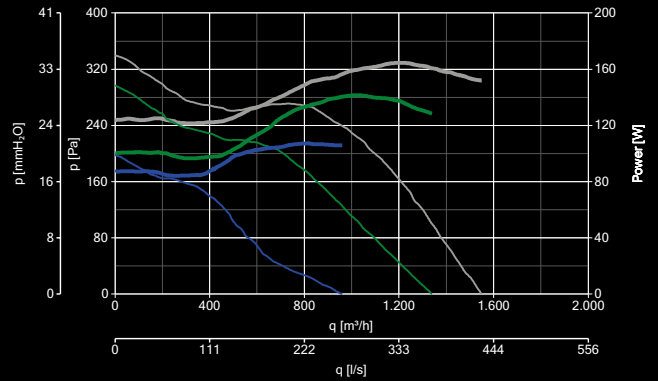
LINEO 160 QUIET - LINEO 160 T QUIET



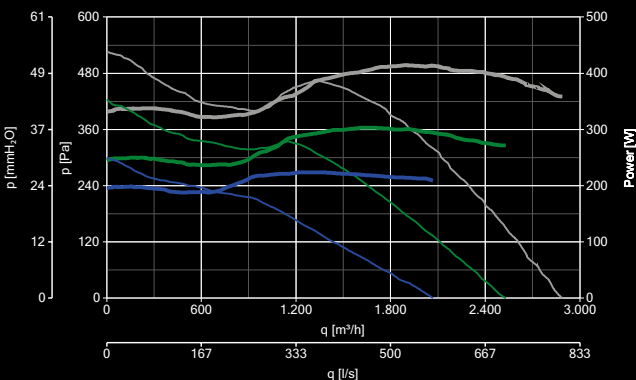
LINEO 200 QUIET - LINEO 200 T QUIET



LINEO 250 QUIET











LINEO 315 QUIET



CONSUMPTION      PERFORMANCE  
— 10V              — 10V  
— 6V                — 6V  
— 4V                — 4V



## CONTROLLERS - LINEO QUIET

MODELS	DESCRIPTION	CODE	PRODUCT
	<b>C5 0.5</b> - 5 SPEED CONTROLLER	12987	17160 - 17161 - 17162 - 17163 - 17164 17165 - 17166
	<b>C 1.5</b> - ELECTRONIC SPEED CONTROLLER 1.5 A	12966	17160 - 17161 - 17162 - 17163 - 17164 17165 - 17166
	<b>C 2.5</b> - ELECTRONIC SPEED CONTROLLER 2.5 A	12967	17165 - 17166
	<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>TRIO-LINEO 503</b> - 3 SPEED SELECTOR	12891	17160 - 17161 - 17162 - 171763 - 17164 17165 - 17166 - 17190 - 17191 17192 17193 - 17194
	<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