



## Inline centrifugal fan

# Centro-M

Air capacity – up to 5260 m<sup>3</sup>/h

### Use

- Supply and exhaust ventilation systems installed in various premises.
- Direct mounting inside air ductworks.
- Compatible with Ø 100 to 450 mm round air ducts.

### Design

- The casing is made of steel with a special polymer coating.
- Aerodynamically shaped casing.
- External terminal box for connection to power mains.

### Motor

- Single-phase external rotor motor with a centrifugal impeller with backward curved blades.
- Equipped with ball bearings for longer service life.
- Overheating protection by built-in thermal switches with automatic restart.
- Dynamically balanced turbine.
- Some standard sizes have high-powered motors (**Centro-M max**).
- For ventilation of premises with high requirements to noise level low-noise modifications are available (**Centro-M L**).

### Speed control

- Smooth speed control with an external thyristor controller or step speed control with an external auto transformer (both available upon separate order).

### Mounting

- Any mounting position.
- The fans with the connecting diameter from 100 up to 315 mm are fixed to wall or ceiling with mounting brackets supplied as a standard.
- The fans with the connecting diameter from 355 up to 450 mm are fixed with mounting brackets fixed on the casing.



- Flexible air ducts are fixed on the fan spigots with clamps.

### Modifications and options

- FR** – built-in smooth speed controller from 0 to 100%. The fan is supplied with a pre-wired power cable with IEC plug as a standard. The cable modification with a standard electric plug is also available (**FR1**).



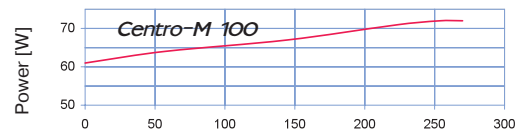
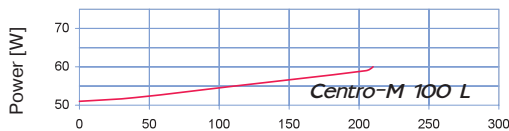
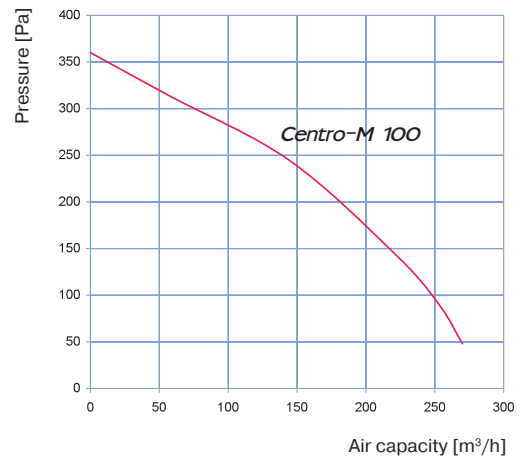
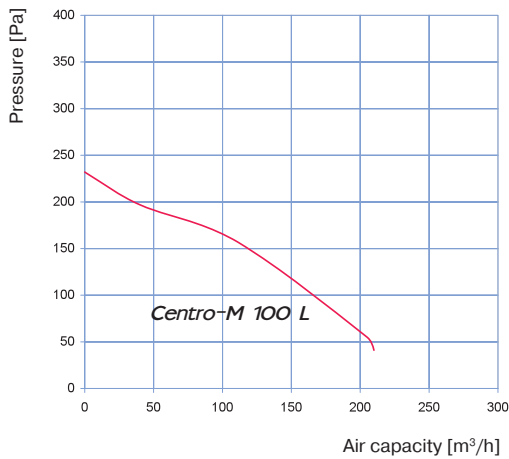
- G** – smooth speed controller with an electronic thermostat and an external temperature sensor that is fixed on 4 m power cable. The fan is supplied with a pre-wired power cable with IEC plug as a standard. The cable modification with a standard electric plug is also available (**G1**).



- max** – high-powered motor.
- L** – low-powered motor.
- W** – the fan is equipped with a pre-wired power cable and IEC plug as a standard. Modification with a standard electric plug is available (**W1**).

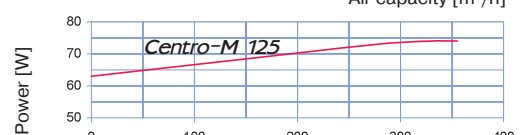
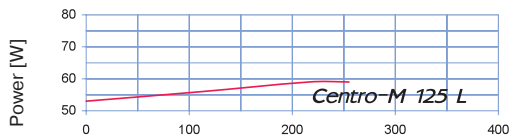
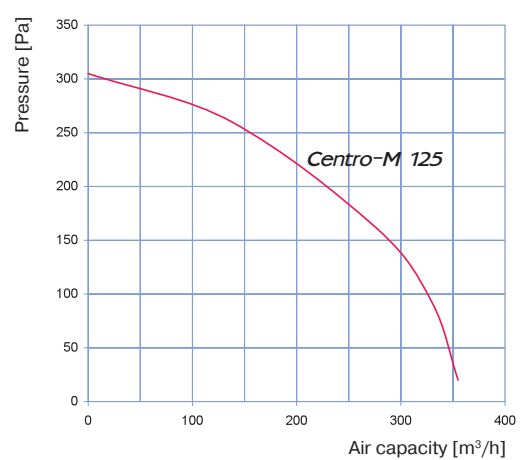
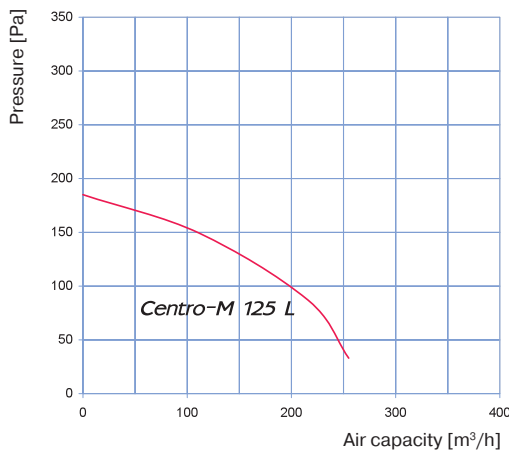
## Specifications

Parameters	Centro-M 100 L	Centro-M 100	Centro-M 125 L	Centro-M 125
Voltage [V / 50 Hz]	230	230	230	230
Power [W]	60	73	60	75
Current [A]	0,37	0,32	0,37	0,33
Maximum air capacity [m <sup>3</sup> /h]	210	270	255	355
RPM [min <sup>-1</sup> ]	2620	2830	2535	2800
Sound pressure level at 3 m distance [dBA]	36	47	36	47
Max. operating temperature [°C]	-25 +55	-25 +55	-25 +55	-25 +55
Ingress protection rating	IP X4	IP X4	IP X4	IP X4



Sound-power level	Octave-frequency band [Hz]								
	Gen	63	125	250	500	1000	2000	4000	8000
L <sub>WA</sub> to inlet, [dBA]	64	48	57	57	59	51	47	40	28
L <sub>WA</sub> to outlet, [dBA]	64	52	62	56	57	50	46	39	32
L <sub>WA</sub> to environment, [dBA]	57	23	13	23	38	42	42	31	15

Sound-power level	Octave-frequency band [Hz]								
	Gen	63	125	250	500	1000	2000	4000	8000
L <sub>WA</sub> to inlet, [dBA]	73	47	63	67	68	60	55	54	38
L <sub>WA</sub> to outlet, [dBA]	77	54	66	73	66	66	60	55	46
L <sub>WA</sub> to environment, [dBA]	63	45	60	55	41	25	7	18	22

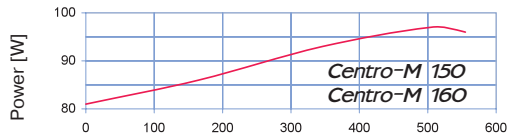
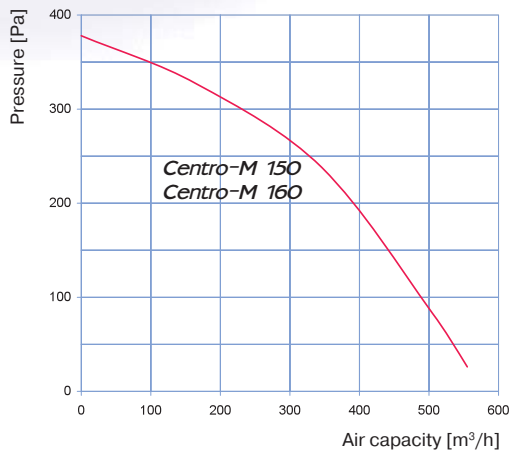


Sound-power level	Octave-frequency band [Hz]								
	Gen	63	125	250	500	1000	2000	4000	8000
L <sub>WA</sub> to inlet, [dBA]	60	34	51	53	56	46	43	34	29
L <sub>WA</sub> to outlet, [dBA]	62	33	52	59	58	51	49	41	32
L <sub>WA</sub> to environment, [dBA]	65	44	61	59	43	30	17	30	28

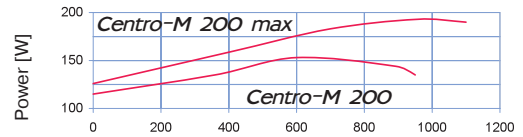
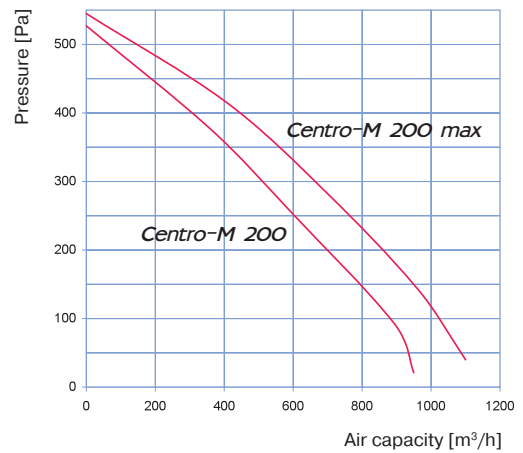
Sound-power level	Octave-frequency band [Hz]								
	Gen	63	125	250	500	1000	2000	4000	8000
L <sub>WA</sub> to inlet, [dBA]	73	54	67	68	67	64	61	51	41
L <sub>WA</sub> to outlet, [dBA]	76	57	69	68	72	71	65	57	45
L <sub>WA</sub> to environment, [dBA]	62	51	61	60	46	36	22	31	27

## Specifications

Parameters	Centro-M 150	Centro-M 160	Centro-M 200	Centro-M 200 max
Voltage [V / 50 Hz]	230	230	230	230
Power [W]	98	98	154	193
Current [A]	0,43	0,43	0,67	0,84
Maximum air capacity [m <sup>3</sup> /h]	555	555	950	1100
RPM [min <sup>-1</sup> ]	2705	2660	2375	2780
Sound pressure level at 3 m distance [dBA]	47	47	48	51
Max. operating temperature [°C]	-25 +55	-25 +55	-25 +50	-25 +45
Ingress protection rating	IP X4	IP X4	IP X4	IP X4



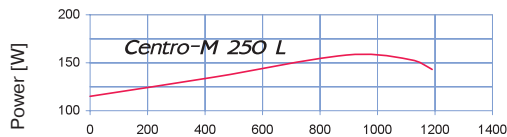
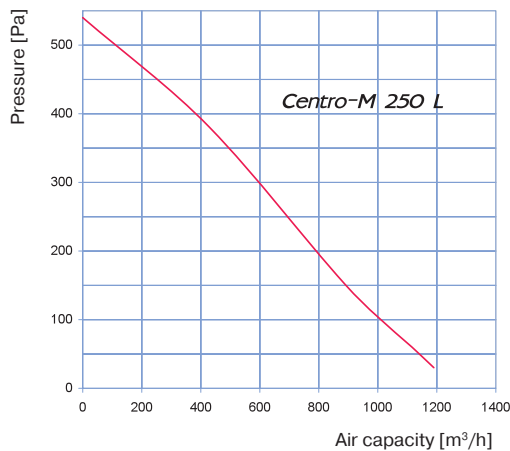
Sound-power level	Octave-frequency band [Hz]								
	Gen	63	125	250	500	1000	2000	4000	8000
<b>Centro-M 150</b>									
L <sub>WA</sub> to inlet, [dBA]	72	45	65	62	67	59	59	49	38
L <sub>WA</sub> to outlet, [dBA]	74	42	69	63	71	63	59	50	37
L <sub>WA</sub> to environment, [dBA]	62	41	59	55	39	19	17	28	22
<b>Centro-M 160</b>									
L <sub>WA</sub> to inlet, [dBA]	68	41	65	64	63	61	57	47	35
L <sub>WA</sub> to outlet, [dBA]	70	47	67	68	66	64	60	51	41
L <sub>WA</sub> to environment, [dBA]	60	40	61	55	39	18	16	28	22



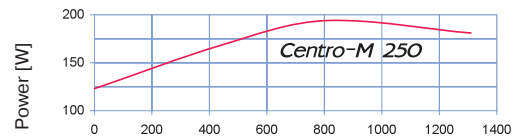
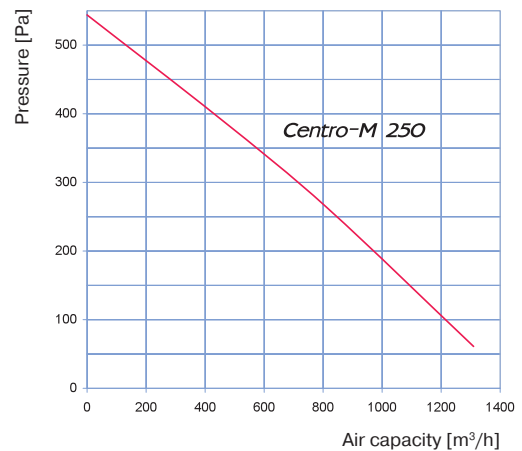
Sound-power level	Octave-frequency band [Hz]								
	Gen	63	125	250	500	1000	2000	4000	8000
<b>Centro-M 200</b>									
L <sub>WA</sub> to inlet, [dBA]	75	47	68	65	72	65	61	59	49
L <sub>WA</sub> to outlet, [dBA]	75	51	72	68	75	67	65	59	50
L <sub>WA</sub> to environment, [dBA]	65	46	61	59	47	31	28	46	42
<b>Centro-M 200 max</b>									
L <sub>WA</sub> to inlet, [dBA]	75	48	66	72	73	66	63	58	49
L <sub>WA</sub> to outlet, [dBA]	78	51	70	74	71	64	64	60	53
L <sub>WA</sub> to environment, [dBA]	66	49	64	60	45	35	28	46	41

## Specifications

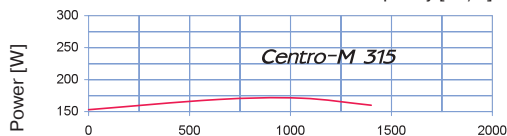
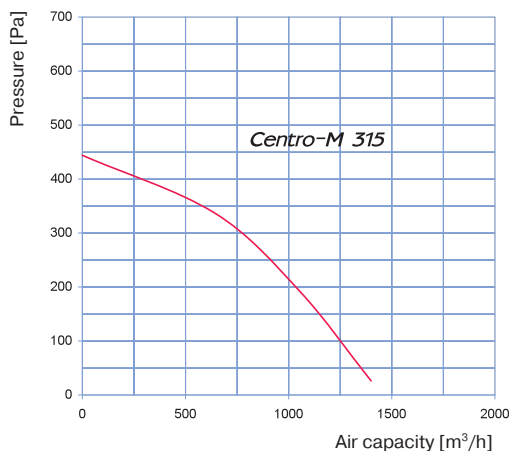
Parameters	Centro-M 250 L	Centro-M 250	Centro-M 315	Centro-M 315 max
Voltage [V / 50 Hz]	230	230	230	230
Power [W]	158	194	171	296
Current [A]	0,69	0,85	0,77	1,34
Maximum air capacity [m <sup>3</sup> /h]	1190	1310	1400	1880
RPM [min <sup>-1</sup> ]	2315	2790	2600	2720
Sound pressure level at 3 m distance [dBA]	52	52	52	54
Max. operating temperature [°C]	-25 +50	-25 +50	-25 +50	-25 +45
Ingress protection rating	IP X4	IP X4	IP X4	IP X4



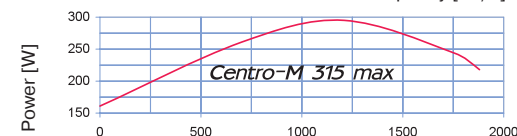
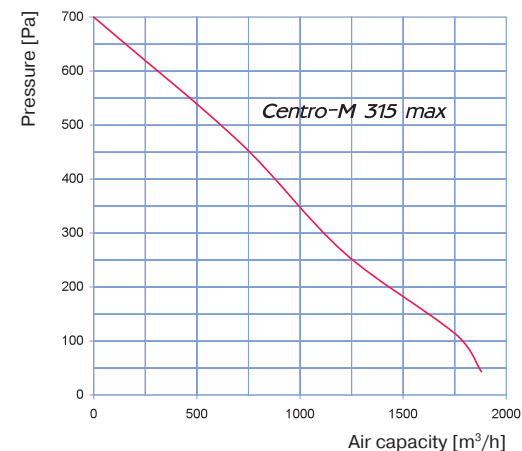
Sound-power level	Octave-frequency band [Hz]								
	Gen	63	125	250	500	1000	2000	4000	8000
L <sub>WA</sub> to inlet, [dBA]	68	46	57	60	65	62	58	60	54
L <sub>WA</sub> to outlet, [dBA]	75	44	59	64	65	67	65	68	59
L <sub>WA</sub> to environment, [dBA]	60	44	57	52	47	36	39	51	45



Sound-power level	Octave-frequency band [Hz]								
	Gen	63	125	250	500	1000	2000	4000	8000
L <sub>WA</sub> to inlet, [dBA]	75	60	68	65	67	66	60	53	48
L <sub>WA</sub> to outlet, [dBA]	77	62	71	74	70	71	69	59	50
L <sub>WA</sub> to environment, [dBA]	65	57	62	60	50	43	37	45	38



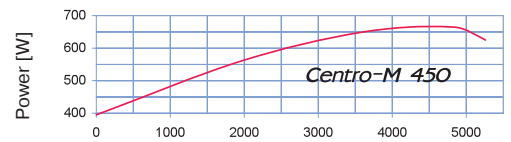
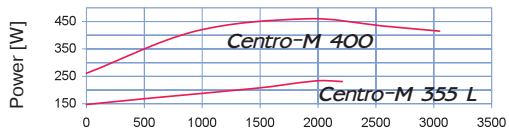
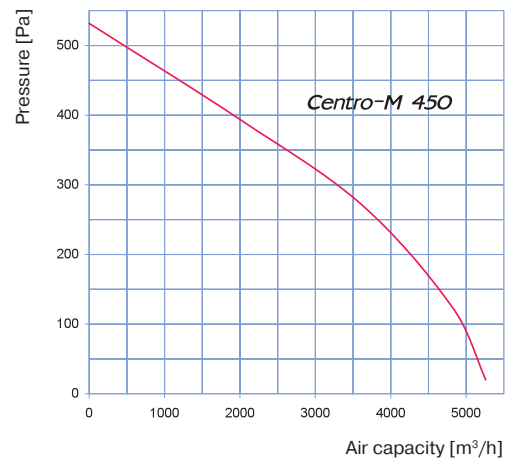
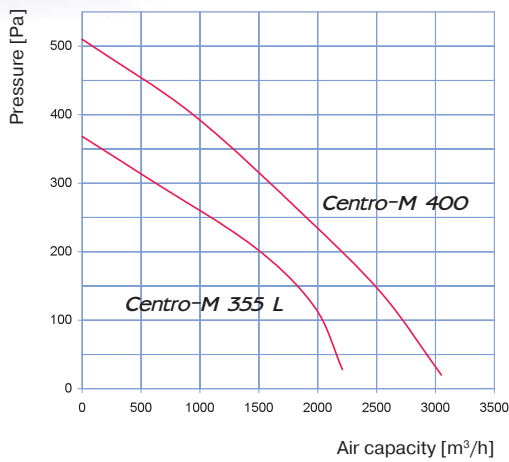
Sound-power level	Octave-frequency band [Hz]								
	Gen	63	125	250	500	1000	2000	4000	8000
L <sub>WA</sub> to inlet, [dBA]	71	35	51	61	69	66	62	59	56
L <sub>WA</sub> to outlet, [dBA]	75	42	58	62	71	69	67	59	57
L <sub>WA</sub> to environment, [dBA]	60	34	49	56	50	44	49	53	50



Sound-power level	Octave-frequency band [Hz]								
	Gen	63	125	250	500	1000	2000	4000	8000
L <sub>WA</sub> to inlet, [dBA]	77	54	67	72	70	67	67	64	56
L <sub>WA</sub> to outlet, [dBA]	81	54	71	72	71	69	72	64	60
L <sub>WA</sub> to environment, [dBA]	68	56	66	62	57	47	54	55	51

## Specifications

Parameters	Centro-M 355 L	Centro-M 400	Centro-M 450
Voltage [V / 50 Hz]	230	230	230
Power [W]	233	460	665
Current [A]	1,06	2,23	2,89
Maximum air capacity [m <sup>3</sup> /h]	2210	3050	5260
RPM [min <sup>-1</sup> ]	1375	1370	1265
Sound pressure level at 3 m distance [dBA]	58	61	65
Max. operating temperature [°C]	-25 +45	-40 +80	-40 +70
Ingress protection rating	IP X4	IP X4	IP X4

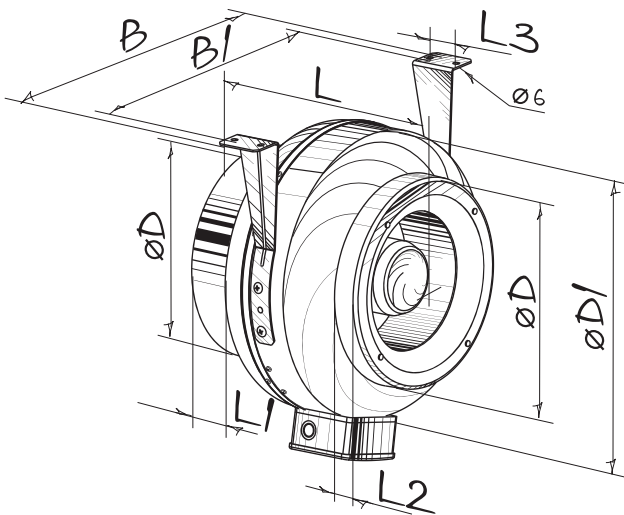


Sound-power level	Octave-frequency band [Hz]								
	Gen	63	125	250	500	1000	2000	4000	8000
<b>Centro-M 355 L</b>									
L <sub>WA</sub> to inlet, [dBA]	66	54	49	56	63	61	58	56	46
L <sub>WA</sub> to outlet, [dBA]	63	53	53	62	61	58	52	51	43
L <sub>WA</sub> to environment, [dBA]	53	50	48	49	49	45	39	36	24
<b>Centro-M 400</b>									
L <sub>WA</sub> to inlet, [dBA]	68	53	48	56	59	58	60	55	48
L <sub>WA</sub> to outlet, [dBA]	65	52	55	62	62	58	56	51	41
L <sub>WA</sub> to environment, [dBA]	56	47	47	49	47	43	42	37	25

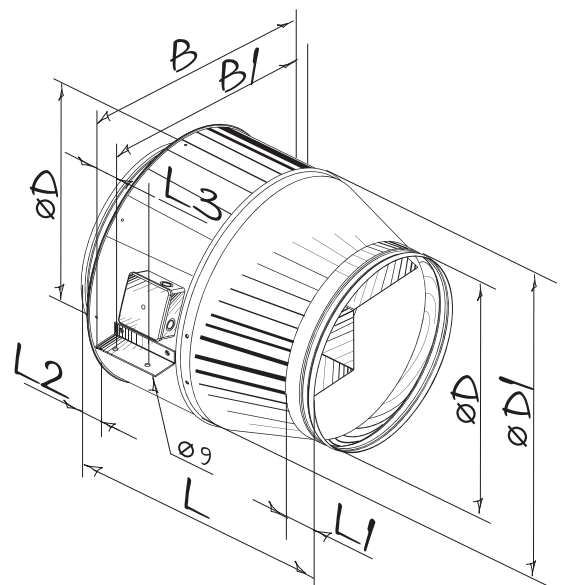
Sound-power level	Octave-frequency band [Hz]								
	Gen	63	125	250	500	1000	2000	4000	8000
<b>Centro-M 450</b>									
L <sub>WA</sub> to inlet, [dBA]	64	51	50	55	60	60	60	53	44
L <sub>WA</sub> to outlet, [dBA]	64	52	51	61	61	60	56	51	41
L <sub>WA</sub> to environment, [dBA]	54	46	48	51	47	44	42	37	24

**Overall dimensions**

Type	Dimensions [mm]								Weight [kg]
	øD	øD1	B	B1	L	L1	L2	L3	
Centro-M 100 L	98	254	298	258	205	20	25	30	3,45
Centro-M 100	98	254	298	258	205	20	25	30	3,45
Centro-M 125 L	123	254	298	258	205	20	25	30	3,58
Centro-M 125	123	254	298	258	205	20	25	30	3,58
Centro-M 150	149	304	349	309	220	25	25	30	4,17
Centro-M 160	159	304	357	317	220	25	25	30	4,32
Centro-M 200	198	344	390	350	240	25	29	40	5,70
Centro-M 200 max	198	344	390	350	250	25	29	40	5,70
Centro-M 250 L	248	344	390	350	249	25	31	40	5,09
Centro-M 250	248	344	390	350	249	25	31	40	5,09
Centro-M 315	314	404	454	414	260	25	40	40	7,30
Centro-M 315 max	314	404	454	414	288	25	40	40	7,30
Centro-M 355 L	353	460	522	522	506	60	60	70	18,80
Centro-M 400	398	570	663	634	570	60	60	70	25,10
Centro-M 450	448	608	700	670	644	60	60	80	27,26



Centro-M 100 – Centro-M 315



Centro-M 355 – Centro-M 450