

Centro-MZ

Inline centrifugal fans

Use

- Supply and extract ventilation systems installed in various premises.
- The best solution both for humid indoor premises and outside areas.
- Compatible with Ø100 up to 315 mm round air ducts.



Air flow:
up to 1540 m³/h
428 l/s



Power:
from 60 W



Noise level:
from 35 dBA



Design

- Galvanized steel casing.
- Aerodynamically shaped casing.
- External terminal block for power supply.

Motor

- Single-phase external rotor motor with a centrifugal impeller with backward curved blades.
- Equipped with ball bearings for longer service life.
- Integrated thermal protection with automatic restart.
- Dynamically balanced turbine.
- For ventilation of premises with high requirements to noise level low-noise modifications are available (**Centro-MZ 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.
- Wall or ceiling mounting with fixing brackets supplied as a standard.
- Flexible air ducts are fixed on the fan spigots with clamps.

Modifications and options

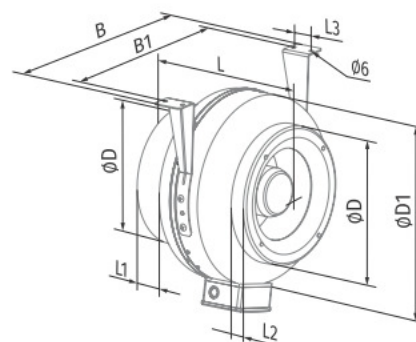
- max:** high-powered motor.
- L:** low-powered motor.
- W:** the fan is equipped with a power cord and a socket or plug (**W1**).

Designation key

Series	Duct diameter	Options	Motor modifications
Centro-MZ	100; 125; 150; 160; 200; 250; 315	W: the fan is equipped with a pre-wired power cable and IEC plug as a standard. W1: the fan is equipped with a pre-wired power cable and a standard electric plug.	max: high-powered motor L: low-powered motor

Overall dimensions [mm]

Type	ØD	ØD1	B	B1	L	L1	L2	L3	Weight [kg]
Centro-MZ 100 L	98	237	253	293	202	23	22	30	3.16
Centro-MZ 100	98	237	253	293	202	23	22	30	3.16
Centro-MZ 125 L	123	237	253	293	202	23	22	30	3.16
Centro-MZ 125	123	237	253	293	202	23	22	30	3.16
Centro-MZ 150	148	278	294	334	200	25	23	30	3.42
Centro-MZ 160	158	278	294	334	200	25	23	30	3.44
Centro-MZ 200 L	198	332	340	380	245	25	29	40	5.43
Centro-MZ 200	198	332	340	380	245	25	29	40	5.43
Centro-MZ 250 L	249	332	340	380	213	25	29	40	5.25
Centro-MZ 250	249	332	340	380	213	25	29	40	5.25
Centro-MZ 315 L	313	402	410	450	308	33	55	40	6.57
Centro-MZ 315	313	402	410	450	308	33	55	40	6.57



Accessories

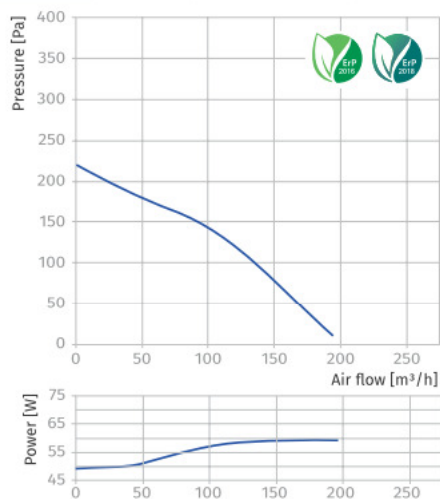
Silencer	Panel filter	Pocket filter	Electric heater	Water heater	Backdraft air damper	Shutter	Clamp	Speed controller
SD	KFBK	KFBT	EKH	WKH	VRV	VKA	KZ	CDT E1.8

Technical data

Parameters	Centro-MZ 100 L	Centro-MZ 100	Centro-MZ 125 L	Centro-MZ 125
Voltage [V / 50-60 Hz]	230	230	230	230
Power [W]	60	72	60	78
Current [A]	0.37	0.32	0.37	0.34
Maximum air flow [m³/h (l/s)]	195 (54)	250 (69)	230 (64)	330 (92)
RPM [min⁻¹]	2670	2820	2605	2820
Sound pressure at 3 m [dBA]	35	46	35	46
Transported air temperature [°C]	-25...+55	-25...+55	-25...+55	-25...+55
SEC class	C	C	C	C
Ingress protection rating	IPX4	IPX4	IPX4	IPX4
Motor IP rating	IP44	IP44	IP44	IP44
ErP	2016, 2018	2016, 2018	2016, 2018	2016, 2018

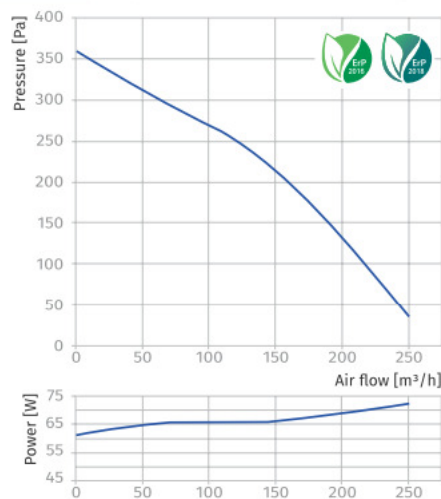
CENTRO-MZ 100 L

Sound power level, A-weighted	Octave frequency bands [Hz]							
	Gen.	63	125	250	500	1000	2000	4000 8000
LWA to inlet [dBA]	63	51	57	56	57	51	46	40 29
LWA to outlet [dBA]	65	54	62	58	61	57	50	45 33
LWA to environment [dBA]	55	19	14	21	34	42	41	29 17



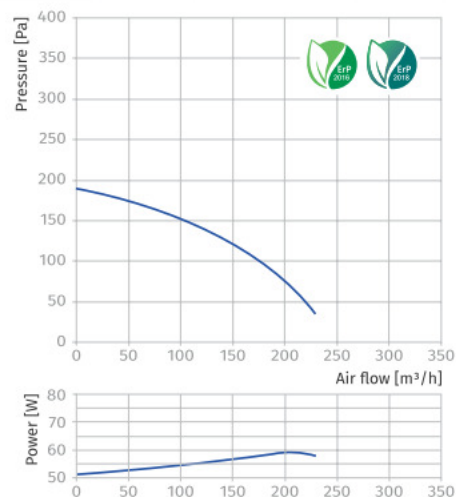
CENTRO-MZ 100

Sound power level, A-weighted	Octave frequency bands [Hz]							
	Gen.	63	125	250	500	1000	2000	4000 8000
LWA to inlet [dBA]	72	47	67	68	67	60	54	53 42
LWA to outlet [dBA]	73	56	67	72	66	63	58	57 42
LWA to environment [dBA]	64	43	60	57	41	24	6	17 24



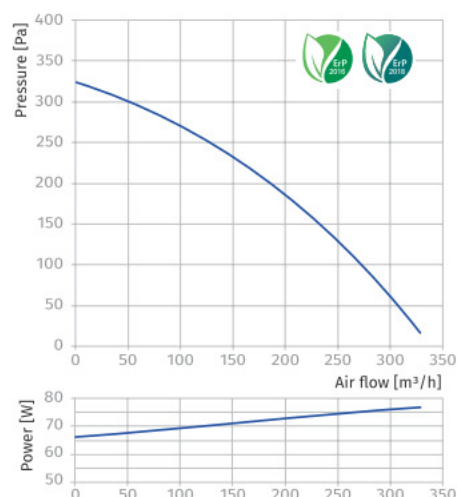
CENTRO-MZ 125 L

Sound power level, A-weighted	Octave frequency bands [Hz]							
	Gen.	63	125	250	500	1000	2000	4000 8000
LWA to inlet [dBA]	59	31	52	54	53	49	46	35 30
LWA to outlet [dBA]	61	35	53	56	60	51	49	35 34
LWA to environment [dBA]	64	46	60	59	43	33	15	30 28



CENTRO-MZ 125

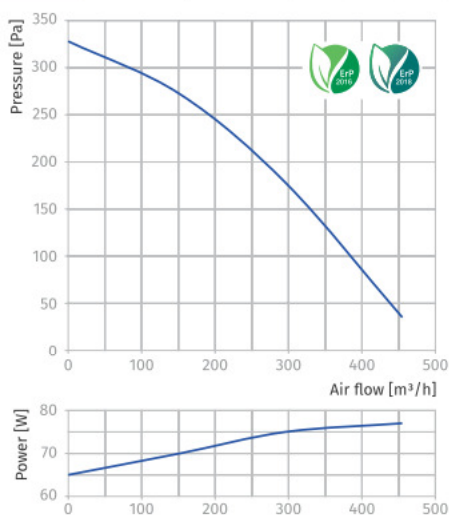
Sound power level, A-weighted	Octave frequency bands [Hz]							
	Gen.	63	125	250	500	1000	2000	4000 8000
LWA to inlet [dBA]	75	56	63	68	69	64	61	52 41
LWA to outlet [dBA]	75	58	71	74	72	65	65	56 47
LWA to environment [dBA]	64	52	64	59	48	36	23	30 27



Parameters	Centro-MZ 150	Centro-MZ 160	Centro-MZ 200 L	Centro-MZ 200
Voltage [V / 50-60 Hz]	230	230	230	230
Power [W]	75	78	139	157
Current [A]	0.33	0.34	0.61	0.69
Maximum air flow [m³/h (l/s)]	455 (126)	455 (126)	840 (233)	1000 (278)
RPM [min⁻¹]	2770	2760	2790	2740
Sound pressure at 3 m [dBA]	46	46	48	50
Transported air temperature [°C]	-25...+55	-25...+55	-25...+50	-25...+45
SEC class	B	B	B	B
Ingress protection rating	IPX4	IPX4	IPX4	IPX4
Motor IP rating	IP44	IP44	IP44	IP44
ErP	2016, 2018	2016, 2018	2016, 2018	2016, 2018

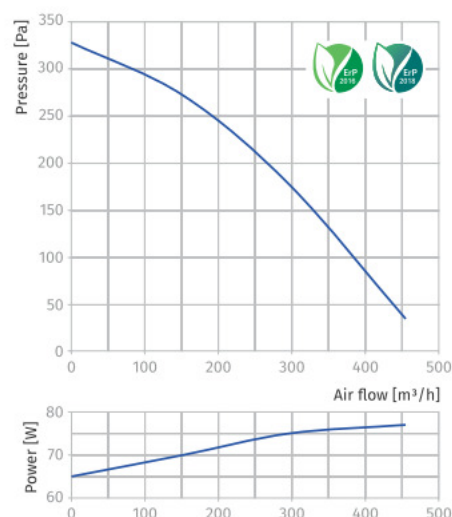
CENTRO-MZ 150

Sound power level, A-weighted	Octave frequency bands [Hz]							
	Gen.	63	125	250	500	1000	2000	4000 8000
LWA to inlet [dBA]	72	42	65	64	64	61	60	48 38
LWA to outlet [dBA]	73	47	68	66	69	64	59	47 41
LWA to environment [dBA]	63	41	59	54	37	18	17	29 22



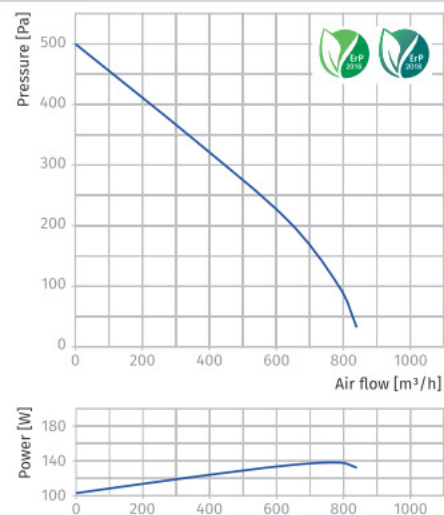
CENTRO-MZ 160

Sound power level, A-weighted	Octave frequency bands [Hz]							
	Gen.	63	125	250	500	1000	2000	4000 8000
LWA to inlet [dBA]	69	42	67	66	63	61	58	48 35
LWA to outlet [dBA]	72	46	69	65	68	64	63	50 40
LWA to environment [dBA]	60	41	60	53	36	20	18	30 24



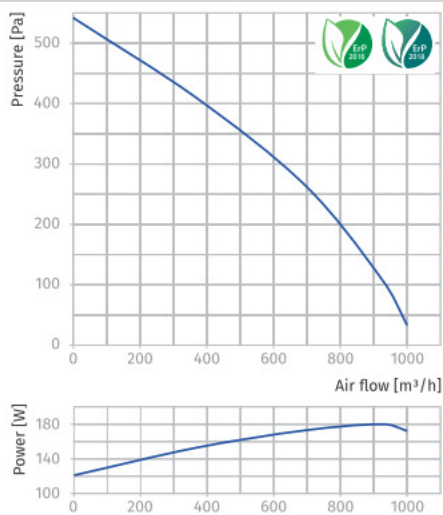
CENTRO-MZ 200 L

Sound power level, A-weighted	Octave frequency bands [Hz]							
	Gen.	63	125	250	500	1000	2000	4000 8000
LWA to inlet [dBA]	76	47	68	65	70	67	59	58 50
LWA to outlet [dBA]	76	49	71	69	72	63	63	60 53
LWA to environment [dBA]	64	46	61	57	48	32	27	48 42



CENTRO-MZ 200

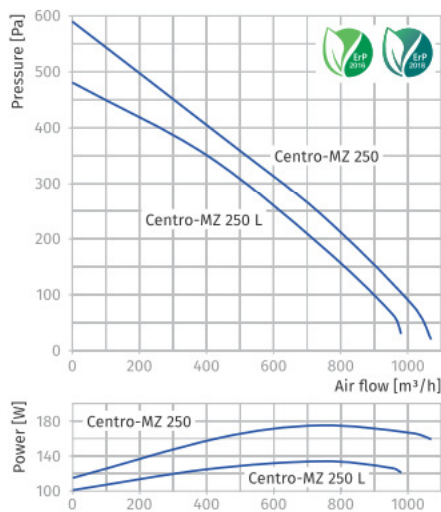
Sound power level, A-weighted	Octave frequency bands [Hz]							
	Gen.	63	125	250	500	1000	2000	4000 8000
LWA to inlet [dBA]	73	51	66	68	71	67	64	58 52
LWA to outlet [dBA]	79	51	73	69	74	67	65	60 50
LWA to environment [dBA]	68	47	64	64	46	32	30	44 42



Parameters	Centro-MZ 250 L	Centro-MZ 250	Centro-MZ 315 L	Centro-MZ 315
Voltage [V / 50-60 Hz]	230	230	230	230
Power [W]	134	152	151	185
Current [A]	0.59	0.66	0.66	0.81
Maximum air flow [m³/h (l/s)]	980 (272)	1070 (297)	1330 (369)	1540 (428)
RPM [min⁻¹]	2785	2765	2680	2730
Sound pressure at 3 m [dBA]	51	52	52	53
Transported air temperature [°C]	-25...+50	-25...+50	-25...+50	-25...+45
SEC class	B	B	-	-
Ingress protection rating	IPX4	IPX4	IPX4	IPX4
Motor IP rating	IP44	IP44	IP44	IP44
ErP	2016, 2018	2016, 2018	2016, 2018	2016, 2018

CENTRO-MZ 250 L, CENTRO-MZ 250

Sound power level, A-weighted	Octave frequency bands [Hz]							
	Gen.	63	125	250	500	1000	2000	4000 8000
Centro-MZ 250 L								
LWA to inlet [dBA]	69	46	59	61	65	62	58	60 54
LWA to outlet [dBA]	74	49	59	63	66	67	62	64 56
LWA to environment [dBA]	60	42	54	54	44	37	37	52 45
Centro-MZ 250								
LWA to inlet [dBA]	75	60	66	67	67	67	63	56 45
LWA to outlet [dBA]	76	60	73	71	69	65	66	59 46
LWA to environment [dBA]	65	58	62	60	47	43	40	47 36



CENTRO-MZ 315 L, CENTRO-MZ 315

Sound power level, A-weighted	Octave frequency bands [Hz]							
	Gen.	63	125	250	500	1000	2000	4000 8000
Centro-MZ 315 L								
LWA to inlet [dBA]	70	35	53	61	65	67	61	58 56
LWA to outlet [dBA]	74	41	54	64	73	70	65	62 60
LWA to environment [dBA]	59	35	49	53	50	46	51	50 50
Centro-MZ 315								
LWA to inlet [dBA]	77	53	66	71	69	68	66	63 60
LWA to outlet [dBA]	78	58	71	74	72	71	71	63 63
LWA to environment [dBA]	70	55	66	61	57	48	54	56 51

