

CENTRO (V2)

Inline centrifugal fans

Use

- Supply and extract ventilation systems installed in various premises.
- Mounting in kitchens, bathrooms and other humid premises.
- Compatible with Ø 100 up to 315 mm round air ducts.



Air flow:
up to 1700 m³/h
472 l/s



Power:
from 45 W



Noise level:
from 36 dBA



Design

- High-quality durable plastic casing.
- Aerodynamically shaped casing.
- Airtight mounting box.
- Centro 150** is compatible with 150 and 160 mm air ducts.

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.
- Some standard sizes have high-powered motors (**Centro max**).
- For ventilation of premises with high requirements to noise level low-noise modifications are available (**Centro L**).
- Centro V2** series: two-speed asynchronous motor with external rotor and centrifugal impeller with forward curved blades.

Speed control

- Smooth speed control with a built-in electronic speed controller (option **FR**).
- Smooth speed control with an external thyristor controller or step speed control with an external auto transformer (both available upon separate order).
- Centro V2** series: Two-speed control with the external CDP-2/10 speed switch (available upon separate order).

Mounting

- Due to compact design the fan is the ideal solution for mounting in limited spaces.
- Any mounting position.
- Wall or ceiling mounting with fixing brackets supplied as a standard or with a wire frame **Halter Centro** (available upon separate order).
- 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**).



- max:** high-powered motor.
- L:** low-powered motor.
- 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**).
- G1:** smooth speed controller with an electronic thermostat and a temperature sensor integrated into the air duct. 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 (**G11**).



- V:** built-in speed switch (for two-speed models).
- 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**).

Accessories

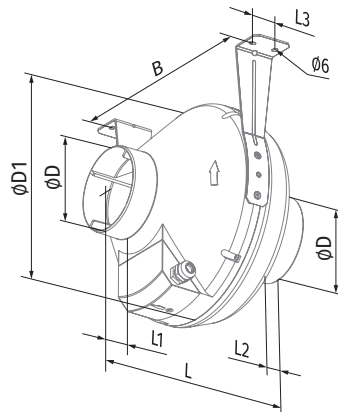
Silencer	Panel filter	Pocket filter	Electric heater	Water heater	Backdraft air damper	Shutter	Speed controller
							
SD	KFBK	KFBT	EKH	WKH	VRV	VKA	CDT E1.8, CDP-2/10

Designation key			
Series	Duct diameter [mm]	Motor modifications	Options
Centro	100; 125; 150*; 200; 250; 315	max: high-powered motor; L: low-powered motor V2: two-speed motor	FR: built-in smooth speed controller adjustable from 0 to 100 %. The fan is supplied with a pre-wired cable with IEC plug as a standard. FR1: built-in smooth speed controller adjustable from 0 to 100 %. The fan is supplied with a pre-wired cable with a standard electric plug. G: smooth speed controller with an electronic thermostat and an external temperature sensor that is fixed on 4 m cable. The fan is supplied with a pre-wired cable with IEC plug as a standard. G1: smooth speed controller with an electronic thermostat and an external temperature sensor that is fixed on 4 m cable. The fan is supplied with a pre-wired power cable with a standard plug. GI: smooth speed controller with an electronic thermostat and a temperature sensor integrated into the air duct. The fan is supplied with a pre-wired power cable with IEC plug as a standard. GI1: smooth speed controller with an electronic thermostat and a temperature sensor integrated into the air duct. The fan is supplied with a pre-wired power cable with a standard electric plug. V: built-in speed switch (for two-speed models) 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.

* Centro 150 (V2) model is compatible with the air ducts both Ø 150 and 160 mm

Overall dimensions [mm]

Type	ØD	ØD1	B	L	L1	L2	L3	Weight [kg]
Centro 100 L / Centro 100 / Centro 100 V2	100	250	270	230	30	27	30	2.22
Centro 125 L / Centro 125 / Centro 125 V2	125	250	270	220	30	27	30	2.20
Centro 150 / Centro 150 V2	150/160	300	310	286	30	30	30	2.45
Centro 200 Centro 200 max / Centro 200 max V2	200	340	354	276	30	30	40	3.00
Centro 250 L / Centro 250 / Centro 250 V2	250	340	354	265	30	30	40	4.30
Centro 315 / Centro 315 V2	315	400	414	276	40	55	40	4.85
Centro 315 max / Centro 315 max V2	315	400	414	276	40	55	40	4.85



Technical data

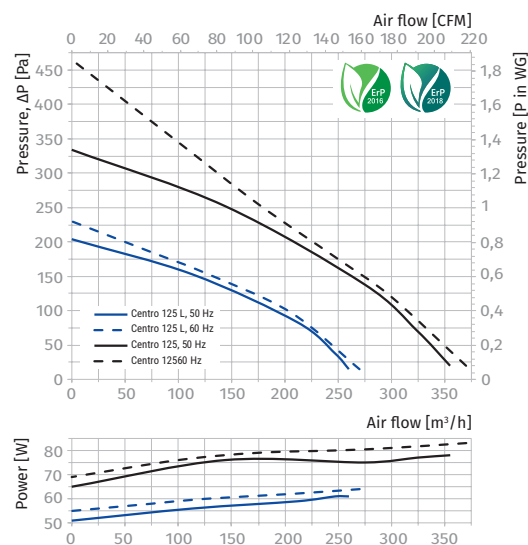
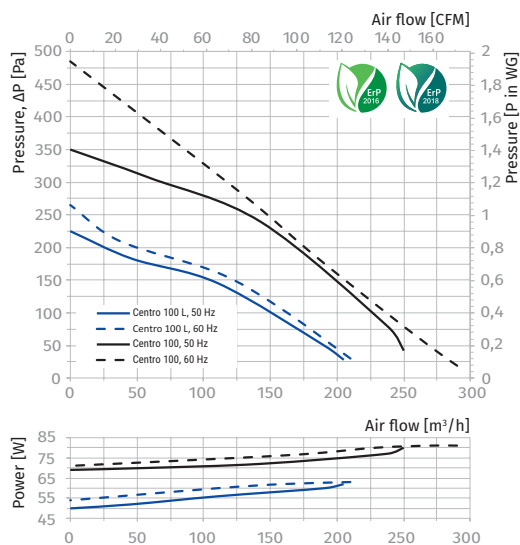
Parameters	Centro 100 L		Centro 100		Centro 125 L		Centro 125	
Voltage [V]	1 ~ 230		1 ~ 230		1 ~ 230		1 ~ 230	
Frequency [Hz]	50	60	50	60	50	60	50	60
Power [W]	62	63	80	81	61	64	79	81
Current [A]	0,38	0,38	0,34	0,34	0,38	0,4	0,34	0,35
Maximum air flow [m³/h (l/s)]	205 (57)	210 (58)	250 (69)	290 (81)	260 (72)	270 (75)	355 (99)	370 (103)
RPM [min⁻¹]	2650	2710	2820	2890	2610	2680	2800	2830
Sound pressure at 3 m [dBA]	36	36	40	41	36	37	40	41
Max. transported air temperature [°C]	-25...+55	-25...+50	-25...+55	-25...+50	-25...+55	-25...+50	-25...+55	-25...+50
SEC class	C	-	C	-	C	-	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 100 L, CENTRO 100

Sound power level, A-weighted	Octave frequency bands [Hz]									LpA, 3 m [dBA]	LpA, 1 m [dBA]
	Gen.	63	125	250	500	1000	2000	4000	8000		
Centro 100 L											
LWA to inlet [dBA]	77	55	69	75	67	62	58	52	42	56	66
LWA to outlet [dBA]	76	62	69	74	66	59	55	51	40	55	65
LWA to environment [dBA]	57	26	45	47	51	52	49	40	31	36	46
Centro 100											
LWA to inlet [dBA]	83	60	75	81	73	67	63	57	46	62	72
LWA to outlet [dBA]	82	67	75	80	72	64	60	55	44	61	71
LWA to environment [dBA]	61	28	49	51	55	57	53	44	34	40	50

CENTRO 125 L, CENTRO 125

Sound power level, A-weighted	Octave frequency bands [Hz]									LpA, 3 m [dBA]	LpA, 1 m [dBA]
	Gen.	63	125	250	500	1000	2000	4000	8000		
Centro 125 L											
LWA to inlet [dBA]	78	52	70	76	67	63	60	55	46	57	67
LWA to outlet [dBA]	77	59	70	75	66	60	58	53	45	56	66
LWA to environment [dBA]	56	27	40	48	51	50	50	40	28	36	46
Centro 125											
LWA to inlet [dBA]	84	56	76	82	72	68	65	59	50	63	73
LWA to outlet [dBA]	83	63	76	81	71	65	62	57	49	62	72
LWA to environment [dBA]	60	29	44	52	55	54	54	44	31	40	50



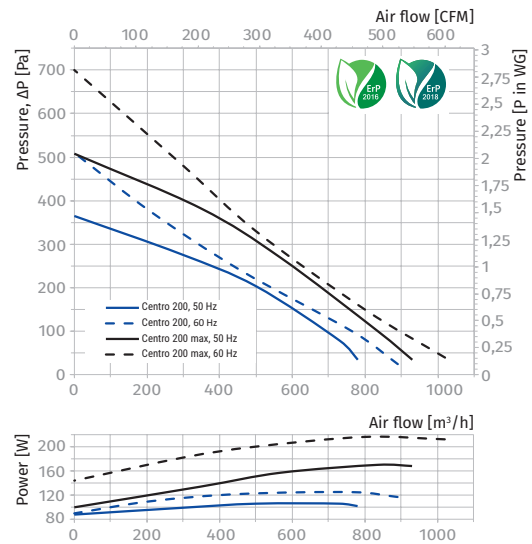
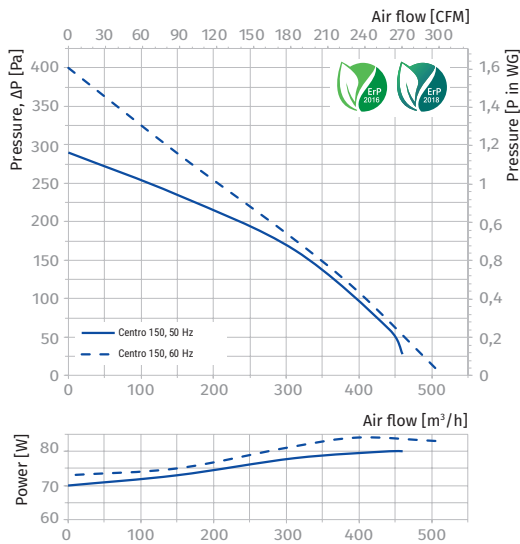
Parameters	Centro 150		Centro 200		Centro 200 max	
Voltage [V]	1 ~ 230		1 ~ 230		1 ~ 230	
Frequency [Hz]	50	60	50	60	50	60
Power [W]	80	84	107	132	173	216
Current [A]	0,35	0,37	0,47	0,58	0,76	0,94
Maximum air flow [m³/h (l/s)]	460 (128)	505 (140)	780 (217)	890 (247)	930 (258)	1020 (283)
RPM [min⁻¹]	2725	2840	2660	2765	2125	2155
Sound pressure at 3 m [dBA]	42	43	46	46	48	49
Max. transported air temperature [°C]	-25...+55	-25...+50	-25...+55	-25...+50	-25...+55	-25...+45
SEC class	B	-	B	-	B	-
Ingress protection rating	IPX4		IPX4		IPX4	
Motor IP rating	IP44		IP44		IP44	
ErP	2016, 2018		2016, 2018		2016, 2018	

CENTRO 150

Sound power level, A-weighted	Octave frequency bands [Hz]									LpA, 3 m [dBA]	LpA, 1 m [dBA]
	Gen.	63	125	250	500	1000	2000	4000	8000		
LWA to inlet [dBA]	90	53	87	86	75	74	71	68	54	69	79
LWA to outlet [dBA]	90	53	88	85	72	71	66	65	52	69	79
LWA to environment [dBA]	63	26	46	55	57	57	57	47	35	42	52

CENTRO 200, CENTRO 200 MAX

Sound power level, A-weighted	Octave frequency bands [Hz]									LpA, 3 m [dBA]	LpA, 1 m [dBA]
	Gen.	63	125	250	500	1000	2000	4000	8000		
Centro 200											
LwA to inlet [dBA]	85	47	74	81	77	77	78	70	59	65	75
LwA to outlet [dBA]	83	44	73	77	75	75	78	70	60	63	73
LwA to environment [dBA]	66	27	48	59	61	61	59	51	39	46	56
Centro 200 max											
LwA to inlet [dBA]	90	49	78	87	81	81	82	74	63	69	79
LwA to outlet [dBA]	87	46	77	81	79	79	82	74	64	67	77
LwA to environment [dBA]	68	29	52	60	63	63	62	53	39	48	58



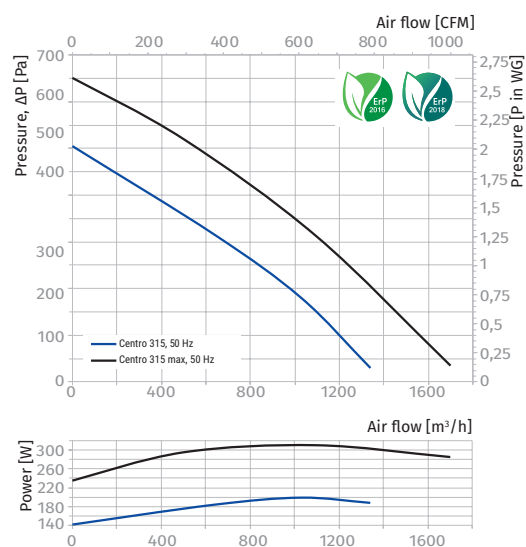
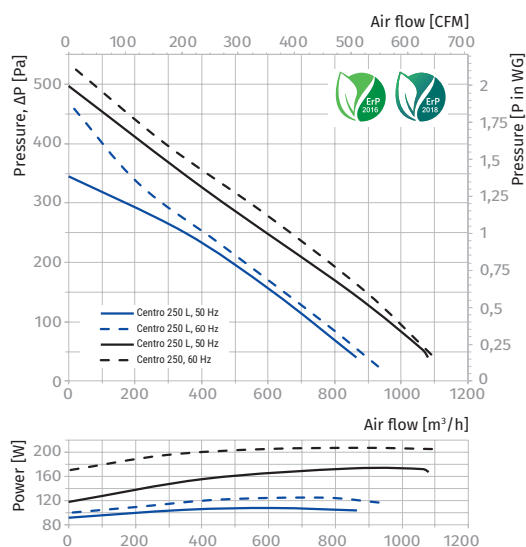
Parameters	Centro 250 L		Centro 250		Centro 315	Centro 315 max
Voltage [V]	1 ~ 230		1 ~ 230		1 ~ 230	1 ~ 230
Frequency [Hz]	50	60	50	60	50	50
Power [W]	108	135	173	207	200	310
Current [A]	0,47	0,59	0,76	0,9	0,88	1,36
Maximum air flow [m³/h (l/s)]	865 (240)	930 (258)	1080 (300)	1090 (303)	1340 (372)	1700 (472)
RPM [min⁻¹]	2560	2570	2090	2120	2655	2590
Sound pressure at 3 m [dBA]	47	48	49	50	48	57
Max. transported air temperature [°C]	-25...+55	-25...+50	-25...+55	-25...+50	-25...+55	-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 250 L, CENTRO 250

Sound power level, A-weighted	Octave frequency bands [Hz]									LpA, 3 m	LpA, 1 m
	Gen.	63	125	250	500	1000	2000	4000	8000	[dBA]	[dBA]
Centro 250 L											
LwA to inlet [dBA]	89	53	76	74	78	84	85	80	70	69	79
LwA to outlet [dBA]	89	56	68	78	75	83	86	79	71	68	78
LwA to environment [dBA]	68	36	50	60	63	62	61	56	42	47	57
Centro 250											
LwA to inlet [dBA]	90	61	78	85	83	85	81	77	65	70	80
LwA to outlet [dBA]	88	64	77	73	82	84	82	77	63	68	78
LwA to environment [dBA]	69	35	49	61	64	64	62	50	39	49	59

CENTRO 315

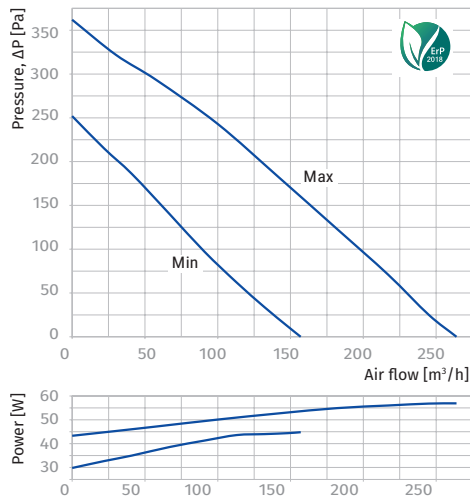
Sound power level, A-weighted	Octave frequency bands [Hz]									LpA, 3 m [dBA]	LpA, 1 m [dBA]
	Gen.	63	125	250	500	1000	2000	4000	8000		
Centro 200											
LwA to inlet [dBA]	86	51	73	71	75	81	82	77	68	66	76
LwA to outlet [dBA]	87	55	66	76	73	81	84	77	69	66	76
LwA to environment [dBA]	69	30	48	59	63	65	62	52	38	48	58
Centro 200 max											
LwA to inlet [dBA]	93	56	80	78	82	88	89	84	74	73	83
LwA to outlet [dBA]	93	59	72	82	79	87	90	83	75	72	82
LwA to environment [dBA]	78	33	54	63	71	73	73	63	55	57	67



Parameters	Centro 100 V2		Centro 125 V2		Centro 150 V2		Centro 200 V2	
Speed	min	max	min	max	min	max	min	max
Voltage [V / 50-60 Hz]	1 ~ 230		1 ~ 230		1 ~ 230		1 ~ 230	
Power [W]	45	57	45	58	46	59	83	95
Current [A]	0.21	0.25	0.21	0.26	0.22	0.26	0.27	0.43
Maximum air flow [m³/h (l/s)]	157 (44)	264 (73)	191 (53)	329 (91)	264 (73)	445 (124)	430 (119)	741 (206)
RPM [min⁻¹]	1820	2440	1810	2380	1805	2420	1920	2470
Sound pressure at 3 m [dBA]	38		39		40		42	
Transported air temperature [°C]	-25...+55		-25...+55		-25...+55		-25...+55	
SEC class	D		D		D		C	
Ingress protection rating	IPX4		IPX4		IPX4		IPX4	
Motor IP rating	IP44		IP44		IP44		IP44	
ErP	2018		2018		2018		2018	

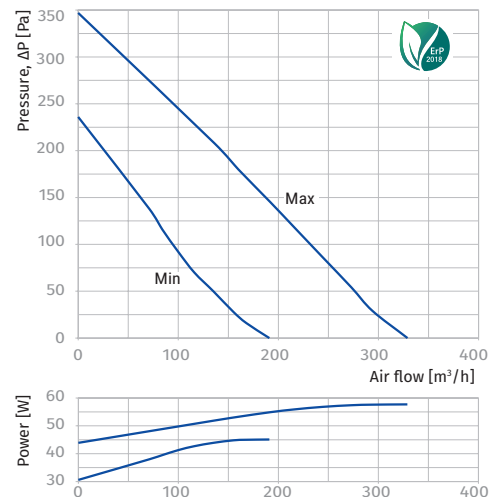
CENTRO 100 V2

Sound power level, A-weighted	Octave frequency bands [Hz]									LpA, 3 m [dBA]	LpA, 1 m [dBA]
	Gen.	63	125	250	500	1000	2000	4000	8000		
LWA to inlet [dBA]	79	57	71	77	69	64	60	54	43	58	68
LWA to outlet [dBA]	79	64	72	77	69	61	57	53	42	58	68
LWA to environment [dBA]	58	27	46	48	53	54	50	41	32	38	48



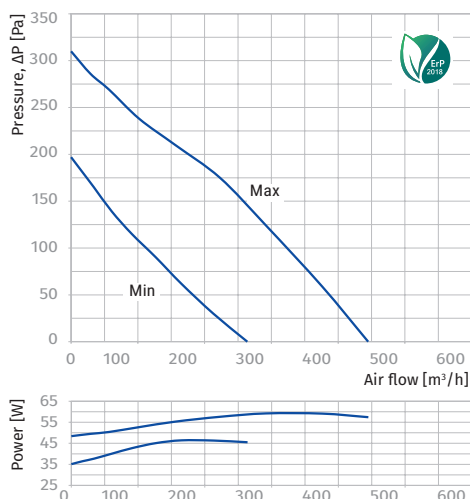
CENTRO 125 V2

Sound power level, A-weighted	Octave frequency bands [Hz]									LpA, 3 m [dBA]	LpA, 1 m [dBA]
	Gen.	63	125	250	500	1000	2000	4000	8000		
LWA to inlet [dBA]	81	59	74	79	72	66	62	56	45	61	71
LWA to outlet [dBA]	79	64	72	77	69	61	58	53	42	58	68
LWA to environment [dBA]	59	27	48	49	53	55	51	43	33	39	49



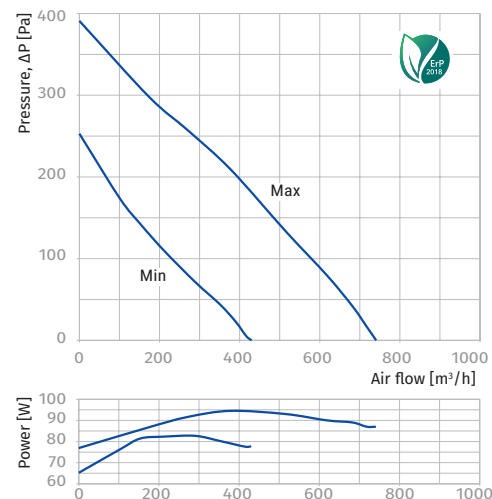
CENTRO 150 V2

Sound power level, A-weighted	Octave frequency bands [Hz]									LpA, 3 m [dBA]	LpA, 1 m [dBA]
	Gen.	63	125	250	500	1000	2000	4000	8000		
LWA to inlet [dBA]	88	52	85	84	74	73	70	67	53	67	77
LWA to outlet [dBA]	86	51	84	82	69	68	63	62	50	66	76
LWA to environment [dBA]	61	25	45	53	55	55	55	46	34	40	50



CENTRO 200 V2

Sound power level, A-weighted	Octave frequency bands [Hz]									LpA, 3 m [dBA]	LpA, 1 m [dBA]
	Gen.	63	125	250	500	1000	2000	4000	8000		
LWA to inlet [dBA]	81	45	70	77	73	73	74	67	56	61	71
LWA to outlet [dBA]	79	41	69	72	71	71	73	66	56	58	68
LWA to environment [dBA]	62	25	45	55	57	57	55	48	37	42	52



Parameters	Centro 250 V2		Centro 315 V2	
Speed	min	max	min	max
Voltage [V / 50-60 Hz]	1 ~ 230		1 ~ 230	
Power [W]	147	176	143	173
Current [A]	0.66	0.76	0.68	0.76
Maximum air flow [m³/h (l/s)]	642 (178)	1126 (313)	758 (211)	1268 (352)
RPM [min⁻¹]	1940	2370	1870	2410
Sound pressure at 3 m [dBA]	46		48	
Transported air temperature [°C]	-25...+55		-25...+55	
SEC class	C		-	
Ingress protection rating	IPX4		IPX4	
Motor IP rating	IP44		IP44	
ErP	2018		2016	

CENTRO 250 V2

Sound power level, A-weighted	Octave frequency bands [Hz]									LpA, 3 m [dBA]	LpA, 1 m [dBA]
	Gen.	63	125	250	500	1000	2000	4000	8000		
L _{WA} to inlet [dBA]	86	51	73	71	75	81	82	77	67	66	76
L _{WA} to outlet [dBA]	87	54	66	76	73	81	83	77	69	66	76
L _{WA} to environment [dBA]	67	35	49	59	62	61	60	55	41	46	56

CENTRO 315 V2

Sound power level, A-weighted	Octave frequency bands [Hz]									LpA, 3 m [dBA]	LpA, 1 m [dBA]
	Gen.	63	125	250	500	1000	2000	4000	8000		
L _{WA} to inlet [dBA]	90	54	77	75	79	85	86	81	71	70	80
L _{WA} to outlet [dBA]	89	56	68	78	75	83	86	79	71	68	78
L _{WA} to environment [dBA]	69	37	51	61	64	63	62	57	43	48	58

