



CENTRO

Data sheet Version 1.0



Centro

Inline Centrifugal Fans

USE

- Supply and extract ventilation systems installed in various premises.
- Mounting in kitchens, bathrooms and other humid premises.
- Compatible with Ø100 up to 315 mm round air ducts.



Air flow:
up to 1700 m³/h
472 l/s



Power:
from 61 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).

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).



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).

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.

- 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).

Accessories

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



- **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).
- **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).

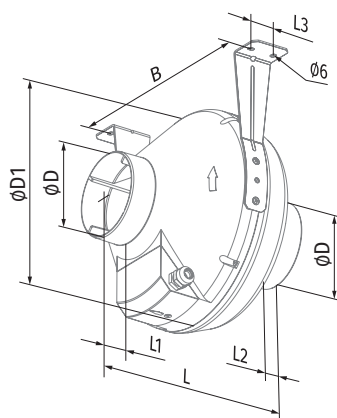
Designation key

Series	Duct diameter [mm]	Options	Motor modifications
Centro	100; 125; 150*; 200; 250; 315	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. 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. G11: 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. 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

* Centro 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	100	250	270	230	30	27	30	2.08
Centro 125 L / Centro 125	125	250	270	220	30	27	30	2.20
Centro 150	150 / 160	300	310	286	30	30	30	2.45
Centro 200	200	340	354	276	30	30	40	3.00
Centro 200 max	200	340	354	276	30	30	40	3.00
Centro 250 L / Centro 250	250	340	354	265	30	30	40	4.30
Centro 315	315	400	414	276	40	55	40	4.85
Centro 315 max	315	400	414	276	40	55	40	4.85

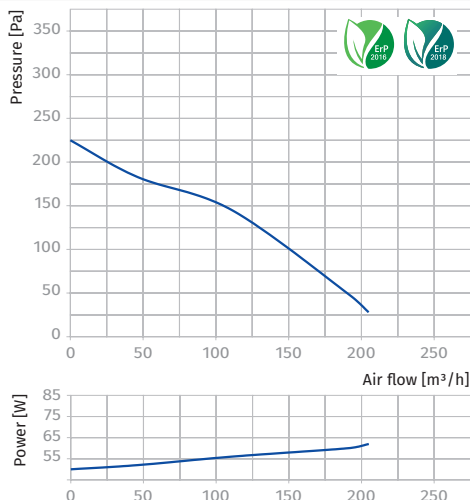


Parameters	Centro 100 L	Centro 100	Centro 125 L	Centro 125
Voltage [V / 50-60 Hz]	1 ~ 230	1 ~ 230	1 ~ 230	1 ~ 230
Power [W]	62	80	61	79
Current [A]	0.38	0.34	0.38	0.34
Maximum air flow [m³/h (l/s)]	205 (57)	250 (69)	260 (72)	355 (99)
RPM [min⁻¹]	2650	2820	2610	2800
Sound pressure at 3 m [dBA]	36	40	36	40
Transported air temperature [°C]	-25...+55	-25...+55	-25...+55	-25...+55
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

Sound power level, A-filter applied

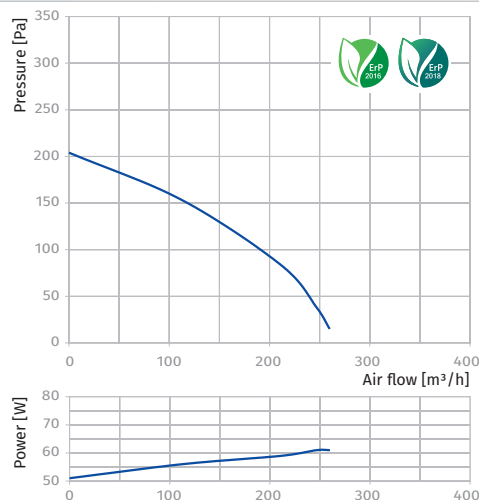
Sound power level, A-weighted	Gen.	Octave frequency band [Hz]								LpA, 3 m [dBA]	LpA, 1 m [dBA]
		63	125	250	500	1000	2000	4000	8000		
LWA to inlet [dBA]	77	55	69	75	67	62	58	52	42	56	66
LWA to outlet [dBA]	76	62	69	74	66	59	55	51	40	55	65
LWA to environment [dBA]	57	26	45	47	51	52	49	40	31	36	46



CENTRO 125 L

Sound power level, A-filter applied

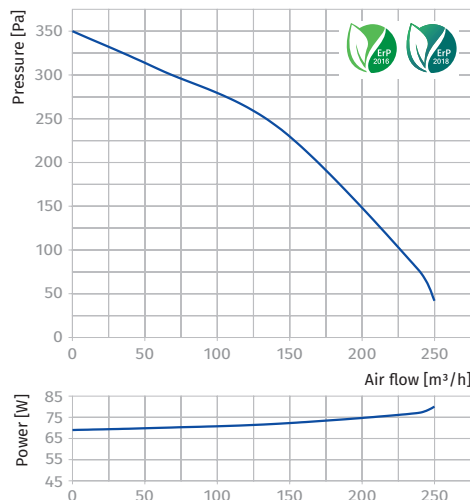
Sound power level, A-weighted	Gen.	Octave frequency band [Hz]								LpA, 3 m [dBA]	LpA, 1 m [dBA]
		63	125	250	500	1000	2000	4000	8000		
LWA to inlet [dBA]	78	52	70	76	67	63	60	55	46	57	67
LWA to outlet [dBA]	77	59	70	75	66	60	58	53	45	56	66
LWA to environment [dBA]	56	27	40	48	51	50	50	40	28	36	46



CENTRO 100

Sound power level, A-filter applied

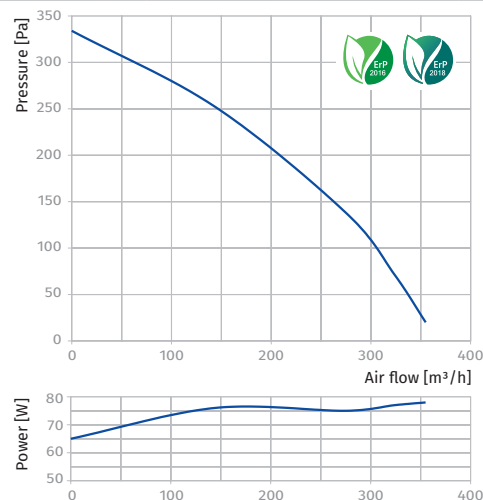
Sound power level, A-weighted	Gen.	Octave frequency band [Hz]								LpA, 3 m [dBA]	LpA, 1 m [dBA]
		63	125	250	500	1000	2000	4000	8000		
LWA to inlet [dBA]	83	60	75	81	73	67	63	57	46	62	72
LWA to outlet [dBA]	82	67	75	80	72	64	60	55	44	61	71
LWA to environment [dBA]	61	28	49	51	55	57	53	44	34	40	50



CENTRO 125

Sound power level, A-filter applied

Sound power level, A-weighted	Gen.	Octave frequency band [Hz]								LpA, 3 m [dBA]	LpA, 1 m [dBA]
		63	125	250	500	1000	2000	4000	8000		
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

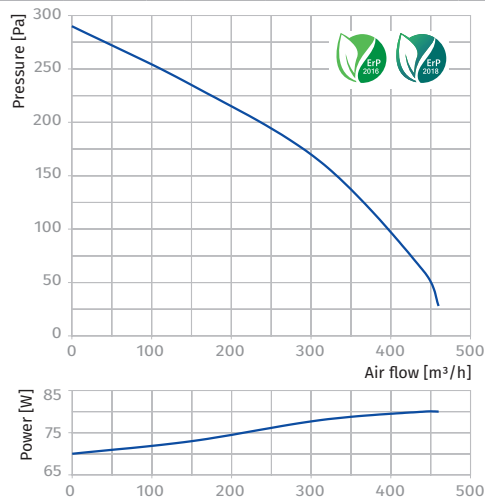


Parameters	Centro 150	Centro 200	Centro 200 max	Centro 250 L
Voltage [V / 50-60 Hz]	1 ~ 230	1 ~ 230	1 ~ 230	1 ~ 230
Power [W]	80	107	173	108
Current [A]	0.35	0.47	0.76	0.47
Maximum air flow [m³/h (l/s)]	460 (128)	780 (217)	930 (258)	865 (240)
RPM [min⁻¹]	2725	2660	2125	2560
Sound pressure at 3 m [dBA]	42	46	48	47
Transported air temperature [°C]	-25...+55	-25...+50	-25...+45	-25...+50
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 150

Sound power level, A-filter applied

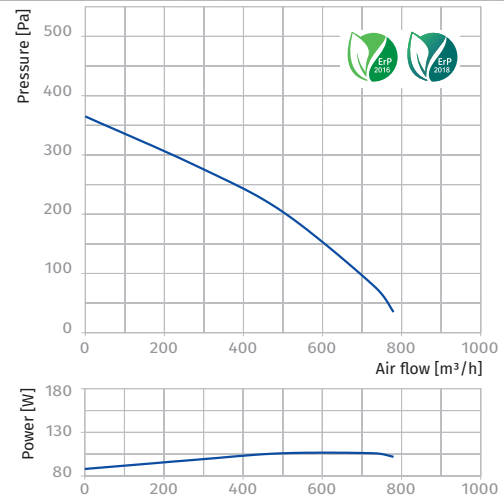
Sound power level, A-weighted	Gen.	Octave frequency band [Hz]								LpA, 3 m [dBA]	LpA, 1 m [dBA]
		63	125	250	500	1000	2000	4000	8000		
LWA to inlet [dBA]	90	53	87	86	75	74	71	68	54	69	79
LWA to outlet [dBA]	90	53	88	85	72	71	66	65	52	69	79
LWA to environment [dBA]	63	26	46	55	57	57	57	47	35	42	52



CENTRO 200

Sound power level, A-filter applied

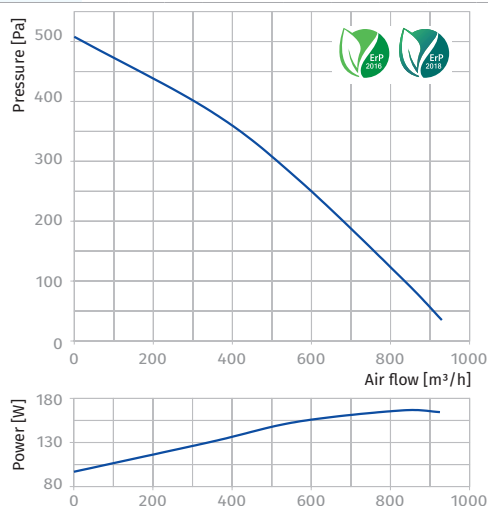
Sound power level, A-weighted	Gen.	Octave frequency band [Hz]								LpA, 3 m [dBA]	LpA, 1 m [dBA]
		63	125	250	500	1000	2000	4000	8000		
LWA to inlet [dBA]	85	47	74	81	77	77	78	70	59	65	75
LWA to outlet [dBA]	83	44	73	77	75	75	78	70	60	63	73
LWA to environment [dBA]	66	27	48	59	61	61	59	51	39	46	56



CENTRO 200 MAX

Sound power level, A-filter applied

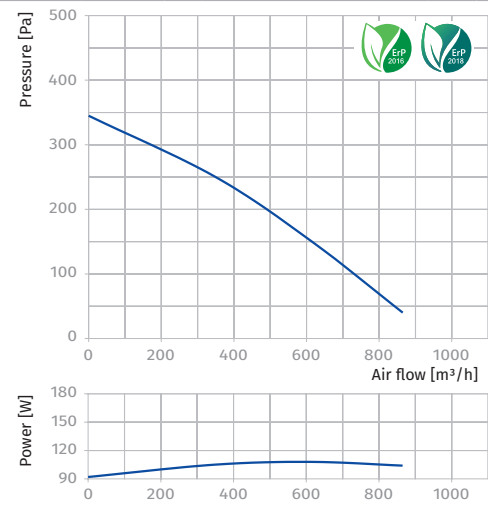
Sound power level, A-weighted	Gen.	Octave frequency band [Hz]								LpA, 3 m [dBA]	LpA, 1 m [dBA]
		63	125	250	500	1000	2000	4000	8000		
LWA to inlet [dBA]	90	49	78	87	81	81	82	74	63	69	79
LWA to outlet [dBA]	87	46	77	81	79	79	82	74	64	67	77
LWA to environment [dBA]	68	29	52	60	63	63	62	53	39	48	58



CENTRO 250 L

Sound power level, A-filter applied

Sound power level, A-weighted	Gen.	Octave frequency band [Hz]								LpA, 3 m [dBA]	LpA, 1 m [dBA]
		63	125	250	500	1000	2000	4000	8000		
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

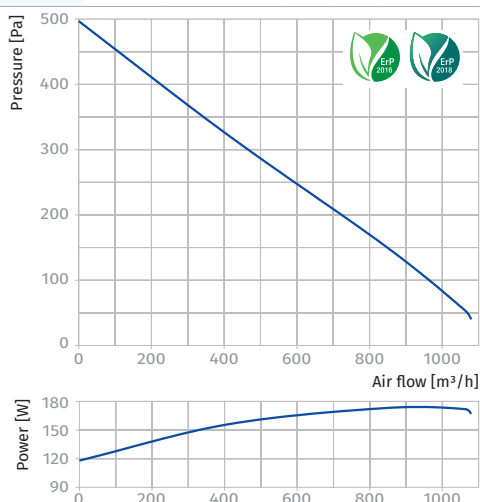


Parameters	Centro 250	Centro 315	Centro 315 max
Voltage [V / 50 Hz]	1 ~ 230	1 ~ 230	1 ~ 230
Power [W]	173	200	310
Current [A]	0.76	0.88	1.36
Maximum air flow [m³/h (l/s)]	1080 (300)	1340 (372)	1700 (472)
RPM [min⁻¹]	2090	2655	2590
Sound pressure at 3 m [dBA]	49	48	57
Transported air temperature [°C]	-25...+50	-25...+50	-25...+45
SEC class	B	-	-
Ingress protection rating	IPX4	IPX4	IPX4
Motor IP rating	IP44	IP44	IP44
ErP	2016, 2018	2016, 2018	2016, 2018

CENTRO 250

Sound power level, A-filter applied

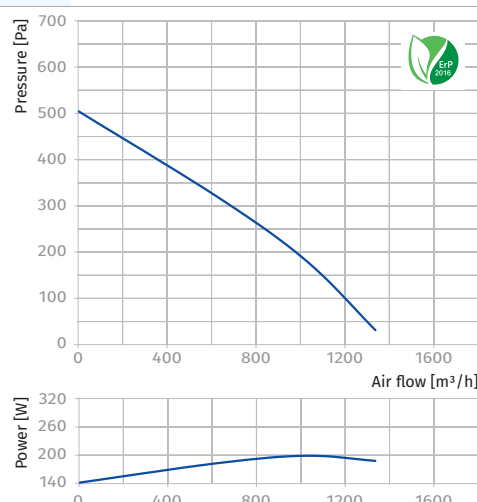
Sound power level, A-weighted	Gen.	Octave frequency band [Hz]								LpA, 3 m [dBA]	LpA, 1 m [dBA]
		63	125	250	500	1000	2000	4000	8000		
LWA to inlet [dBA]	90	61	78	85	83	85	81	77	65	70	80
LWA to outlet [dBA]	88	64	77	73	82	84	82	77	63	68	78
LWA to environment [dBA]	69	35	49	61	64	64	62	50	39	49	59



CENTRO 315

Sound power level, A-filter applied

Sound power level, A-weighted	Gen.	Octave frequency band [Hz]								LpA, 3 m [dBA]	LpA, 1 m [dBA]
		63	125	250	500	1000	2000	4000	8000		
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 315 MAX

Sound power level, A-filter applied

Sound power level, A-weighted	Gen.	Octave frequency band [Hz]								LpA, 3 m [dBA]	LpA, 1 m [dBA]
		63	125	250	500	1000	2000	4000	8000		
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

