

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 1240 m³/h
344 l/s



Power:
from 62 W



Noise level:
from 40 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 impeller.
- Some standard sizes have high-powered motors (**Centro max**).
- Centro V2** is equipped with the two-speed asynchronous motor with external rotor and centrifugal dynamically balanced impeller with backward curved blades.

Speed control

- Smooth speed control with a built-in electronic speed controller (option **FR1**).
- 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-2/5** or **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

- max:** high-powered motor.
- FR1:** smooth speed controller adjustable from 0 to 100 % and power cable with mains plug.



- G1:** speed controller, temperature controller with external temperature sensor (cable length 4 m), power cable with mains plug.
- G11:** speed controller, temperature controller with integrated temperature sensor and power cable with mains plug.
- The **G1** and **G11** modifications enable automatic speed control depending on indoor temperature. The optimal ventilation solution for premises requiring permanent temperature control as greenhouses, orangeries, etc.



- V:** built-in speed switch (for two-speed models).
- W1:** power cable with mains plug.

Accessories

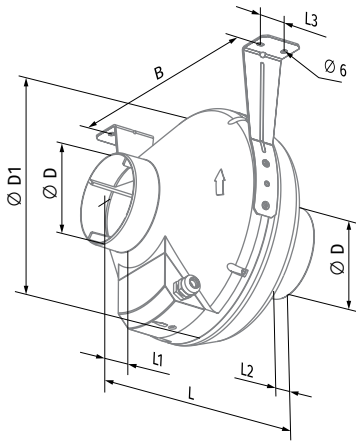
Silencers	Filter boxes	Electric heaters	Water heaters	Backdraft air dampers	Air dampers	Clamps	Speed controllers			
										
SD	KFBK	KFBT	EKH	WKH	VRV	VK / VKA	K	CDT1 E	CDT E1.8	CDTE E... TP

Designation key			
Series	Duct diameter [mm]	Motor modifications	Options
Centro	100; 125; 150*; 200; 250; 315	max: high-powered motor V2: two-speed motor	V: built-in speed switch (for two-speed models) FR1: smooth speed controller adjustable from 0 to 100 % and power cable with mains plug G1: speed controller, temperature controller with external temperature sensor, power cable with mains plug G11: speed controller, temperature controller with integrated temperature sensor and power cable mains plug W1: power cable with mains plug

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

Dimensions [mm]

Type	Ø D	Ø D1	B	L	L1	L2	L3	Weight [kg]
Centro 100 / Centro 100 V2	100	250	270	230	30	27	30	2.22
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 V2	200	340	354	276	30	30	40	3.00
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

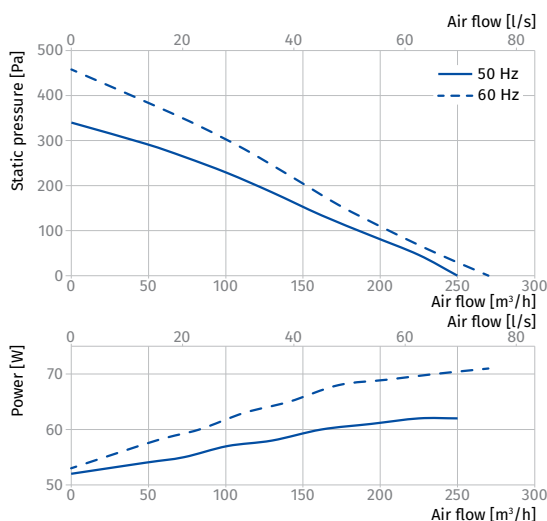


Technical data

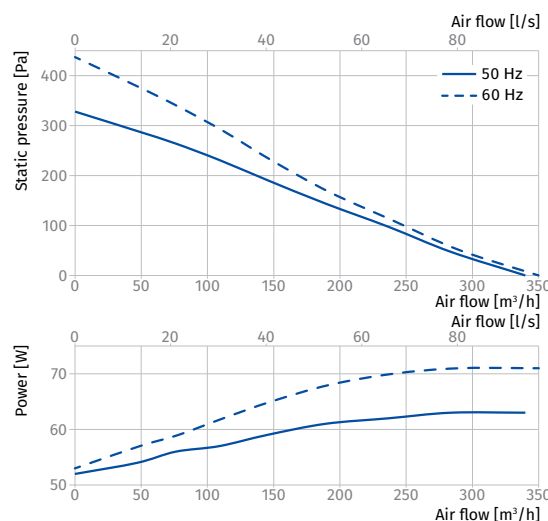
Parameters	Centro 100		Centro 125		Centro 150		Centro 200		Centro 200 max	
Voltage [V]	1 ~ 230		1 ~ 230		1 ~ 230		1 ~ 230		1 ~ 230	
Frequency [Hz]	50	60	50	60	50	60	50	60	50	60
Power [W]	62	71	63	71	65	73	107	125	166	185
Current [A]	0.29	0.33	0.29	0.33	0.29	0.33	0.49	0.57	0.73	0.85
Maximum air flow [m³/h (l/s)]	250 (69)	270 (75)	340 (94)	350 (97)	460 (128)	505 (140)	780 (217)	785 (218)	1065 (296)	1000 (278)
RPM [min⁻¹]	2769	3213	2751	3159	2628	2940	2616	2862	2700	2766
Sound pressure at 3 m [dBA]	40	41	40	41	42	43	46	46	48	49
Max. transported air temperature [°C]	-25...+55	-25...+50	-25...+55	-25...+50	-25...+55	-25...+50	-25...+55	-25...+50	-25...+55	-25...+45
SEC class	C	-	C	-	B	-	B	-	B	-
IP rating	IPX4		IPX4		IPX4		IPX4		IPX4	
Motor IP rating	IP44		IP44		IP44		IP44		IP44	
ErP	2018	-	2018	-	2018	-	2018	-	2018	-

To comply with ErP 2018 it is necessary to use a speed controller and local demand control typology (connect the sensor).

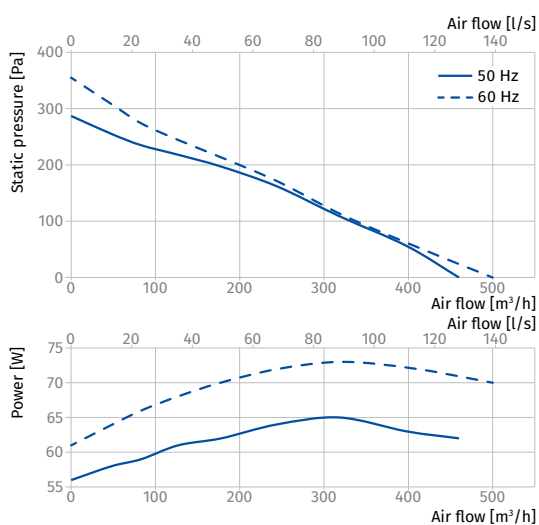
CENTRO 100



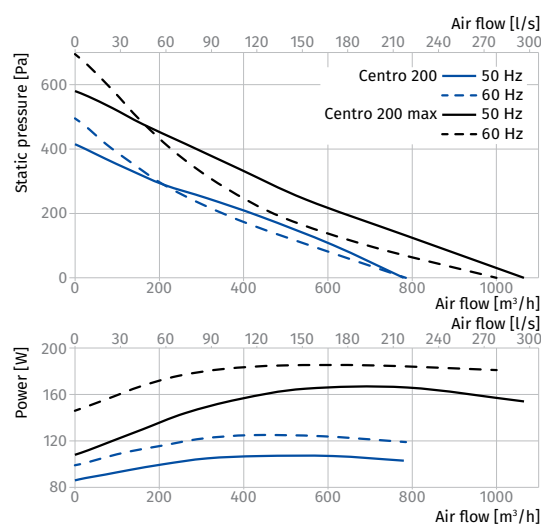
CENTRO 125



CENTRO 150



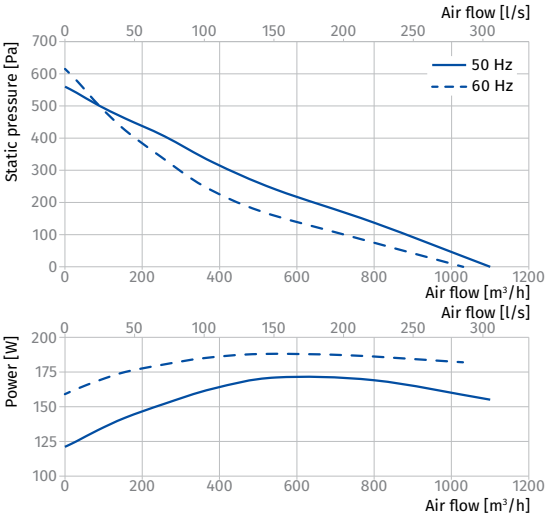
CENTRO 200, CENTRO 200 MAX



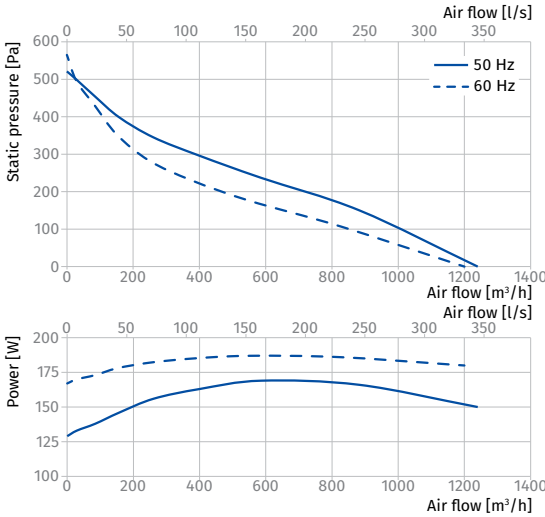
Parameters	Centro 250		Centro 315	
Voltage [V]	1 ~ 230		1 ~ 230	
Frequency [Hz]	50	60	50	60
Power [W]	171	188	169	187
Current [A]	0.75	0.86	0.74	0.86
Maximum air flow [m³/h (l/s)]	1100 (306)	1030 (286)	1240 (344)	1200 (333)
RPM [min⁻¹]	2424	2746	2478	2590
Sound pressure at 3 m [dBA]	49	50	49	50
Max. transported air temperature [°C]	-25...+55	-25...+50	-25...+55	-25...+50
SEC class	B	-	B	-
IP rating	IPX4		IPX4	
Motor IP rating	IP44		IP44	
ErP	2018	-	2018	-

To comply with ErP 2018 it is necessary to use a speed controller and local demand control typology (connect the sensor).

CENTRO 250



CENTRO 315

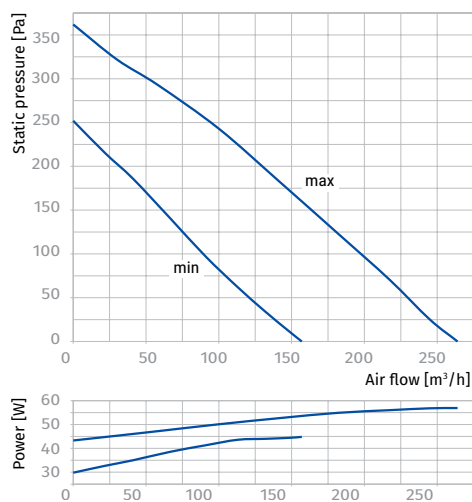


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Parameters	Centro 100 V2		Centro 125 V2		Centro 150 V2		Centro 200 V2	
Speed	min	max	min	max	min	max	min	max
Voltage [V]	1 ~ 230		1 ~ 230		1 ~ 230		1 ~ 230	
Frequency [Hz]	50		50		50		50	
Power [W]	45	57	45	58	46	59	83	95
Current [A]	0.21	0.25	0.21	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	
IP rating	IPX4		IPX4		IPX4		IPX4	
Motor IP rating	IP44		IP44		IP44		IP44	
ErP	2018		2018		2018		2018	

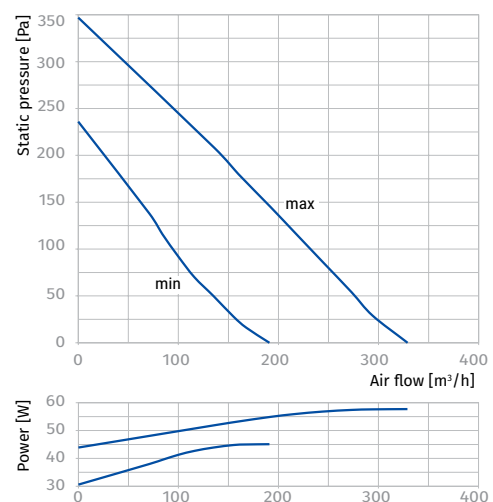
CENTRO 100 V2

Sound power level, A-weighted	Total	Octave frequency bands [Hz]								LpA 3 m	LpA 1 m
		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



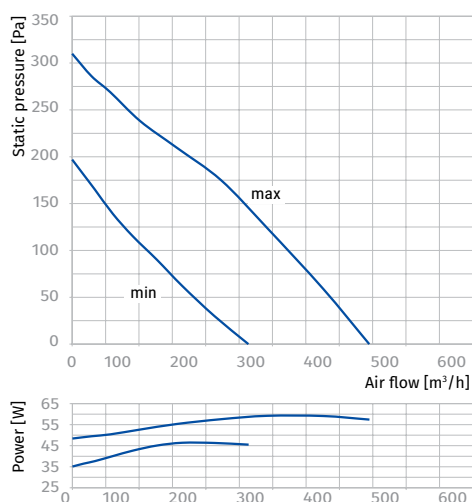
CENTRO 125 V2

Sound power level, A-weighted	Total	Octave frequency bands [Hz]								LpA 3 m	LpA 1 m
		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



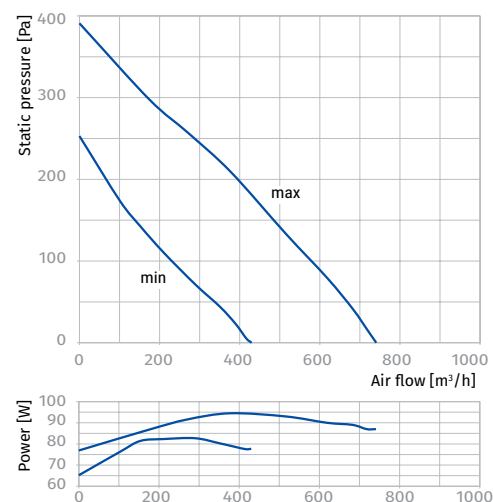
CENTRO 150 V2

Sound power level, A-weighted	Total	Octave frequency bands [Hz]								LpA 3 m	LpA 1 m
		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	Total	Octave frequency bands [Hz]								LpA 3 m	LpA 1 m
		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



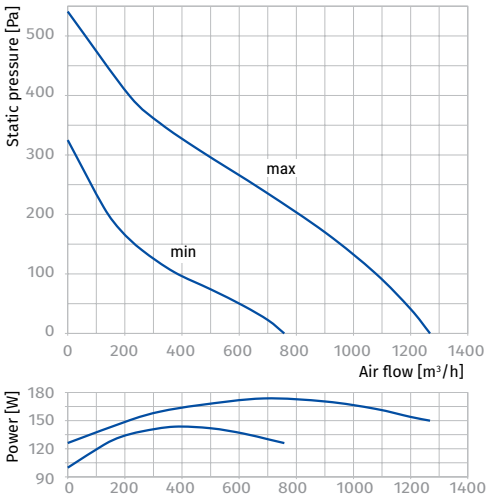
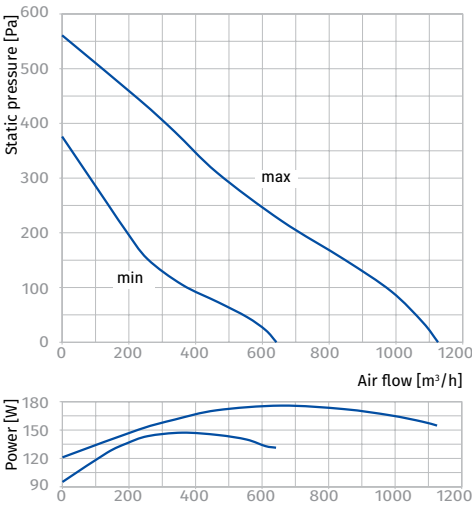
Parameters	Centro 250 V2		Centro 315 V2	
Speed	min	max	min	max
Voltage [V]	1 ~ 230		1 ~ 230	
Frequency [Hz]	50		50	
Power [W]	147	176	143	173
Current [A]	0.66	0.76	0.68	0.76
Maximum air flow [m³/h (l/s)]	642 (178)	1126 (313)	758 (211)	1268 (352)
RPM [min ⁻¹]	1940	2370	1870	2410
Sound pressure at 3 m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

CENTRO 250 V2

Sound power level, A-weighted	Total	Octave frequency bands [Hz]								LpA 3 m	LpA 1 m
		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	Total	Octave frequency bands [Hz]								LpA 3 m	LpA 1 m
		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



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