

Centro-M EC

Inline centrifugal fans with EC motor

Use

- Supply and extract ventilation systems installed in various premises.
- Direct mounting inside air ductworks.
- For arranging energy-saving and controllable ventilation systems.
- Compatible with Ø 4" to 12" round air ducts.



Air flow:
up to 801 CFM



Power:
from 33 W



Design

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

Motor

- High-efficient direct current EC motor with external rotor and backward curved blades.
- EC technologies meet the latest requirements to arrange high-efficient energy saving ventilation.
- EC motors have energy demand by 35 % less as compared to standard motors and have efficiency up to 90 %.
- EC motors are featured with high performance, low noise level and well controllable total speed range.
- Overheating protection by built-in thermal switches with automatic restart.
- Dynamically balanced turbine.

Operation and speed control

- The fan is controlled with a 0–10 V external control signal, e.g. CDT E/0-10 speed controller for EC motors.
- The fan capacity is regulated by various parameters, including temperature level, pressure, smoke, etc.
- EC motor changes its rotation speed synchronously with the fluctuation of the control parameter to ensure the best suitable air flow.
- The fan is compatible with 50 and 60 Hz power mains with the same maximum speed.
- The parameters may be set and controlled due to data exchange between a PC and the fan.
- The fans can be integrated into a unified decentralized computerized network to adjust ventilation system with respect to specific user's demands.










Mounting

- Fans are fixed to wall or ceiling with mounting brackets supplied as a standard.
- Flexible air ducts are fixed on the fan spigots with clamps.

Designation key

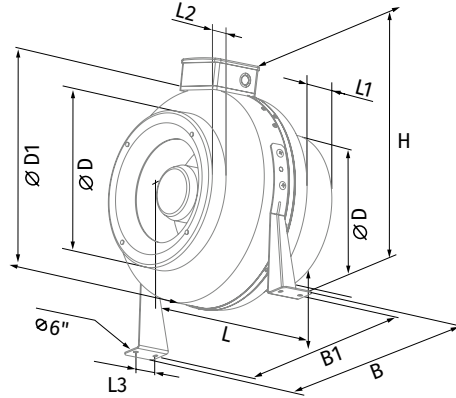
Series	Motor type	Duct diameter [mm]
Centro-M	EC: electronically commutated motor	100; 125; 150; 200; 250; 305

Accessories

Silencers	Filter boxes	Electric heaters	Water heaters	Backdraft air dampers	Air dampers	Clamps	Speed controllers	
								
SD	KFBK	KFBT	EKH	WKH	VRV	VK / VKA	KZ	CDT E/0-10

Dimensions [in]

Model	Duct dia	Ø D	Ø D1	H	B	B1	L	L1	L2	L3	Weight [lb]
Centro-M EC 100	4"	3 55/64"	10 3/64"	13 25/64"	12 13/64"	10 5/8"	7 63/64"	25/32"	63/64"	1 3/16"	7
Centro-M EC 125	5"	4 27/32"	10 3/64"	13 25/64"	12 13/64"	10 5/8"	7 63/64"	25/32"	63/64"	1 3/16"	6.8
Centro-M EC 150	6"	5 53/64"	12 1/64"	14 11/64"	14 11/64"	12 19/32"	7 7/8"	25/32"	63/64"	1 3/16"	8.2
Centro-M EC 200	8"	7 51/64"	13 37/64"	17 1/8"	15 35/64"	13 31/32"	9 41/64"	63/64"	1 3/16"	1 37/64"	11.2
Centro-M EC 250	10"	9 49/64"	13 37/64"	17 1/8"	15 35/64"	13 31/32"	9 27/32"	63/64"	1 3/16"	1 37/64"	12.8
Centro-M EC 305	12"	11 59/64"	15 15/16"	18 5/16"	17 29/32"	16 11/32"	10 15/64"	13/16"	1 3/16"	1 37/64"	15.8

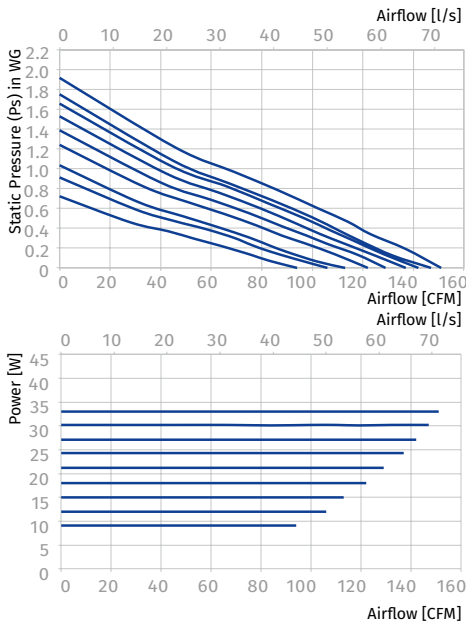


Technical data

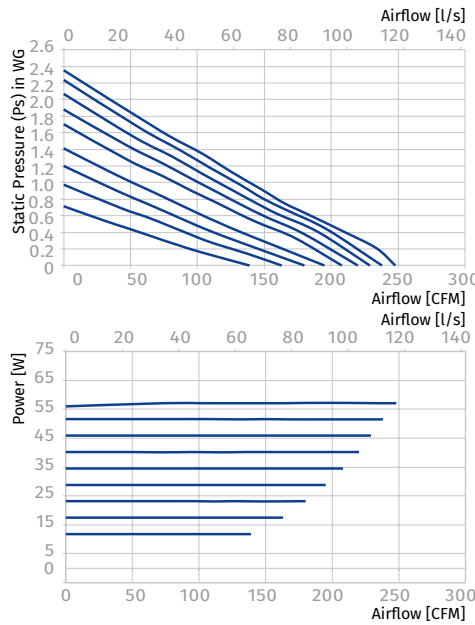
Model	Duct dia	RPM*	Sones	Watts*	Amps*	Air stream temp. [°F (°C)]	CFM vs. Static Pressure (Ps) in WG										Volts	
							0"	0.125"	0.2"	0.25"	0.375"	0.5"	0.75"	1.0"	1.25"	1.5"		2.5"
Centro-M EC 100	4"	2760	6.91	33	0.51	-13...+140 (-25...+60)	151	141	135	130	120	110	90	70	49	29	-	120
Centro-M EC 125	5"	3396	6.80	57.1	0.84	-13...+140 (-25...+60)	248	239	231	225	211	198	170	143	115	88	-	120
Centro-M EC 150	6"	3336	6.60	75.1	1.08	-13...+140 (-25...+60)	306	299	291	285	272	258	231	204	176	149	40	120
Centro-M EC 200	8"	2820	7.60	99	1.45	-13...+140 (-25...+60)	539	510	494	484	458	432	380	328	277	225	18	120
Centro-M EC 250	10"	2628	8.20	133.6	1.89	-13...+140 (-25...+60)	667	600	586	577	553	530	484	438	392	346	161	120
Centro-M EC 305	12"	2796	8.35	173.5	2.41	-13...+140 (-25...+60)	801	741	726	716	690	665	614	563	512	461	257	120

* The parameters RPM, Watts, Amps are indicated at 0.2 in WG static pressure.

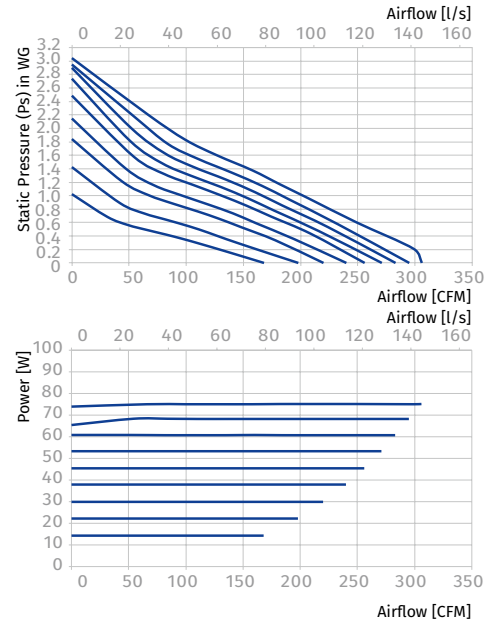
CENTRO-M EC 100



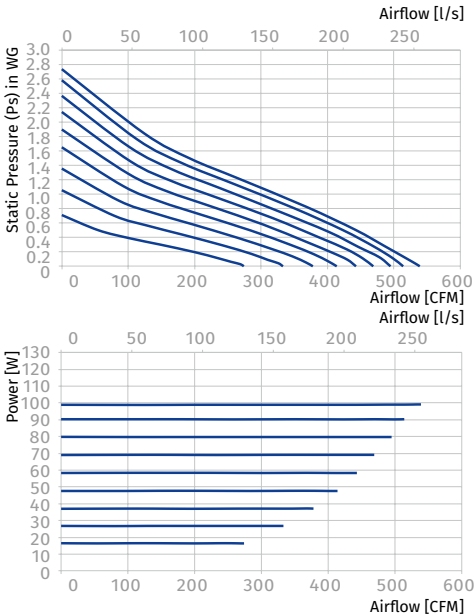
CENTRO-M EC 125



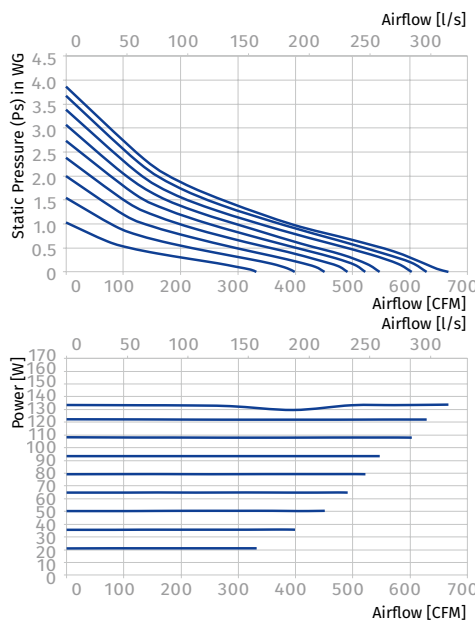
CENTRO-M EC 150



CENTRO-M EC 200



CENTRO-M EC 250



CENTRO-M EC 305

