

Centro-M

Inline centrifugal fans

Use

- Supply and extract ventilation systems installed in various premises.
- Direct mounting inside air ductworks.
- Compatible with Ø 4" to 18" round air ducts.



Air flow:
up to 3716 CFM



Power:
from 68 W



Noise level:
from 2.3 Sones



Design

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

Motor

- Single-phase external rotor motor with a centrifugal impeller with backward curved blades.
- Equipped with ball bearings for longer service life.
- Overheating protection by built-in thermal switches with automatic restart.
- Dynamically balanced turbine.
- Some standard sizes have high-powered motors (Centro-M max).

Speed control

- Smooth speed control with an external thyristor controller or step speed control with an external auto transformer.

Mounting

- The fans with the connecting diameter from 4" up to 12" are fixed to wall or ceiling with mounting brackets supplied as a standard.
- The fans with the connecting diameter from 14" up to 18" are fixed with mounting brackets fixed on the casing.
- Flexible air ducts are fixed on the fan spigots with clamps.

Modifications and options

- FR1:** built-in smooth speed controller from 0 to 100 %. The fan is supplied with a standard electric plug.



- G1:** smooth speed controller with an electronic thermostat and an external temperature sensor that is fixed on 13 ft power cable with a standard electric 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 a standard electric plug.
- GT1:** speed controller, temperature controller with integrated temperature sensor, 5 min timer switch and power cable with mains plug.
- GT1:** speed controller, temperature controller with external temperature sensor (cable length 13 ft), 5 min timer switch and power cable with mains plug.
- GS1:** speed and temperature regulators with an external temperature sensor attached to a 13 ft cable, shutting on when the set temperature is reached. Power cord with a mains plug.

Accessories

Silencers



SD

Filter boxes



KFBK



KFBT

Backdraft air dampers



VRV

Air dampers



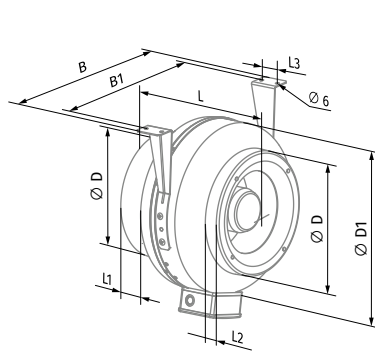
VK / VKA

Designation key

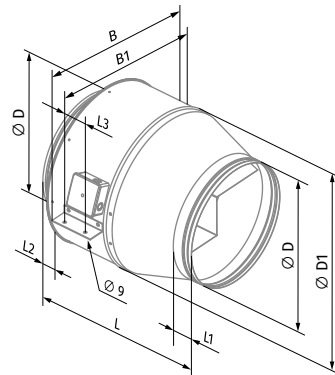
Series	Duct diameter [mm]	Options	Motor modifications
Centro-M	100; 125; 150; 200; 250; 305; 355; 400; 450	FR1: built-in smooth speed controller adjustable from 0 to 100 %. The fan is supplied with a pre-wired cable with a standard electric plug. G1: smooth speed controller with an electronic thermostat and an external temperature sensor that is fixed on 13 ft cable. The fan is supplied with a pre-wired power cable with a standard plug. 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. GT1: speed controller, temperature controller with external temperature sensor, 5 min timer switch and power cable with mains plug. GT11: speed controller, temperature controller with integrated temperature sensor, 5 min timer switch and power cable with mains plug. GS1: speed controller with an electronic thermostat and a temperature sensor fixed on a 13 ft cable. Temperature-based switching on.	max: high-powered motor L: low-powered motor

Dimensions [in]

Model	Duct dia	Ø D	Ø D1	B	B1	L	L1	L2	L3
Centro-M 100	4"	3 15/16"	10"	11 3/4"	10 3/16"	8 1/16"	0 13/16"	1"	1 3/16"
Centro-M 125	5"	4 15/16"	10"	11 3/4"	10 3/16"	8 1/16"	0 13/16"	1"	1 3/16"
Centro-M 150	6"	5 7/8"	11 15/16"	13 3/4"	12 3/16"	8 11/16"	1"	1"	1 3/16"
Centro-M 200	8"	7 7/8"	13 9/16"	15 3/8"	13 3/4"	9 7/8"	1"	1 1/8"	1 9/16"
Centro-M 200 max	8"	7 7/8"	13 9/16"	15 3/8"	13 3/4"	9 7/8"	1"	1 1/8"	1 9/16"
Centro-M 250	10"	9 13/16"	13 9/16"	15 3/8"	13 3/4"	9 3/16"	1"	1 1/4"	1 9/16"
Centro-M 305	12"	12"	15 7/8"	17 3/4"	16 5/16"	10 1/4"	0 15/16"	1 3/16"	1 9/16"
Centro-M 305 max	12"	12"	15 7/8"	17 3/4"	16 5/16"	10 1/4"	0 15/16"	1 3/16"	1 9/16"
Centro-M 355 L	14"	13 7/8"	18 1/8"	20 9/16"	20 9/16"	19 15/16"	2 3/8"	2 3/8"	2 3/4"
Centro-M 400	16"	15 11/16"	22 7/16"	26 1/8"	24 15/16"	22 7/16"	2 3/8"	2 3/8"	2 3/4"
Centro-M 450	18"	17 5/8"	23 15/16"	27 9/16"	26 3/8"	25 3/8"	2 3/8"	2 3/8"	3 1/8"



Centro-M 100 – Centro-M 305 max



Centro-M 355 L – Centro-M 450

Technical data

Model	Duct dia	RPM*	Sones	Watts*	Amps*	CFM*	CFM vs. Static Pressure (Ps) in WG											Volts
							0"	0.1"	0.2"	0.3"	0.4"	0.5"	0.6"	0.7"	0.8"	0.9"	1"	
Centro-M 100	4"	2730	2.3	68	0.57	142	156	147	142	135	128	122	116	108	103	95	86	120
Centro-M 125	5"	2663	3.3	73	0.62	200**	228	214	200**	185	174	160	146	136	124	113	102	120
Centro-M 150	6"	2781	4.3	150	1.28	420**	456	439	420**	399	378	357	335	316	295	275	255	120
Centro-M 200	8"	2335	4.6	201	1.72	530**	599	566	530**	482	440**	405	372**	337	310	284	261**	120
Centro-M 200 max	8"	2745	4.7	240	2.14	632	657	643	632	617	605	590	575	559	540	520	498	120
Centro-M 250	10"	2374	4.6	229	1.98	610**	687	648	610**	566	525**	477	441**	405	375	338	315**	120
Centro-M 305	12"	2647	5.7	219	1.91	680**	740	712	680**	642	606**	562	521**	474	435	400	371**	120
Centro-M 305 max	12"	2320	6.1	272	2.42	890	985	930	890	845	810	773	735	700	660	627	594	120
Centro-M 355 L	14"	1620	8	297	1.3	1248	1390	1320	1248	1201	1177	1118	1001	765	530	333	175	220
Centro-M 400	16"	1585	9.8	673	3.05	1989	2071	2050	1989	1972	1913	1854	1700	1589	1413	1236	294	220
Centro-M 450	18"	1560	12	1250	5.4	3531	3716	3630	3531	3470	3414	3296	3060	2825	2578	2295	706	220

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

** HVI rated.