Centro

Inline centrifugal fans

Use

- Supply and extract ventilation systems installed in various premises.
- Mounting in kitchens, bathrooms and other humid premises.
- Compatible with ∅ 4" up to 12" round air ducts.

Air flow: up to 871 CFM

Power: from 93 W

Noise level: from 2.3 Sones

HVI 2100 CERTIFIED

ETL LISTED c US Intertek

Design

- High quality, UV-resistant plastic case (flame rating – 5VA).
- Aerodynamically shaped casing.
- Airtight mounting box.

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.

Speed control

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

Mounting

- Due to compact design the fan is the ideal solution for mounting in limited spaces.
- 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

- **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.

- **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.
- **GTI1:** 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.

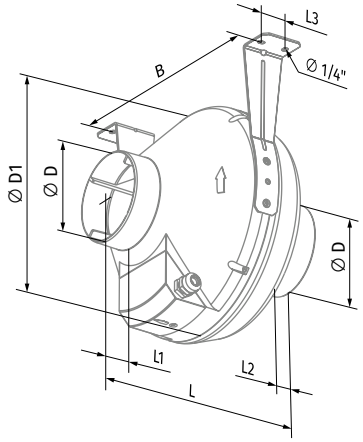
Accessories

Silencers	Filter boxes		Backdraft air dampers
			
SD	KFBK	KFBT	VRV

Designation key		
Series	**Duct diameter [mm]**	**Options**
Centro	**100; 150; 200; 250; 315**	**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. **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. **GT1:** speed controller, temperature controller with external temperature sensor, 5 min timer switch and power cable with mains plug. **GTI1:** 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.

Dimensions [in]

Model	Duct dia	∅ D	∅ D1	B	L	L1	L2	L3	Weight [lb]
Centro 100	4"	3 15/16"	9 13/16"	10 5/8"	9 1/16"	1 3/16"	1 1/16"	1 3/16"	4.7
Centro 150	6"	5 7/8"	11 13/16"	12 3/16"	11 1/4"	1 3/16"	1 3/16"	1 3/16"	5.7
Centro 200	8"	7 7/8"	13 3/8"	13 15/16"	10 7/8"	1 3/16"	1 3/16"	1 9/16"	8.8
Centro 250	10"	9 13/16"	13 3/8"	13 15/16"	10 7/16"	1 3/16"	1 3/16"	1 9/16"	9.9
Centro 315	12"	12 3/8"	15 3/4"	16 5/16"	16 5/16"	1 9/16"	2 3/16"	1 9/16"	11.2



Technical data

Model	Duct dia	Sones	RPM*	Watts*	Amps*	CFM*	CFM vs. Static Pressure (Ps) in WG											Max 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 100	4"	2.3	2980	109	0.94	170**	183	175	170**	164	154**	147	138**	130	122	115	106	2.2	120
Centro 150	6"	2.7	2785	93	0.77	290**	321	307	290**	272	255**	237	222**	206	193	175	159	1.8	120
Centro 200	8"	3.5	2781	149	1.25	520**	562	536	520**	501	472**	451	424**	397	372	347	329	2.5	120
Centro 250	10"	4.3	2523	266	2.25	620**	683	653	620**	588	551**	518	487**	453	423	394	368	3.1	120
Centro 315	12"	4.1	2641	269	2.25	770**	871	825	770**	736	683**	645	569**	515	476	430	388**	2.8	120

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

Centro EC

Inline centrifugal fans

Use

- Supply and exhaust ventilation and air conditioning systems of various premises requiring cost-saving controllable ventilation.
- The best ventilation solution for exhaust ventilation of bathrooms, kitchens and other humid premises.
- Compatible with ∅ 4" up to 12" round air ducts.

Air flow: up to 817 CFM

Power: from 29.5 W

Noise level: from 3 Sones

EC motor

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Design

- Durable, impact-resistant and corrosion-free ABS-plastic casing.
- Aerodynamically shaped casing.
- Airtight terminal box for connection to power mains.

Motor

- High-efficient electronically commutated direct current motors with backward curved blades. Such motors are the most state-of-the-art energy saving solution. Power consumption of EC motors is 35 % less as compared to standard motors. The fans with EC motors have excellent aerodynamic performance and low-noise operation.
- EC motors are featured with high performance and total speed controllable range.
- High efficiency reaching 90 % is the premium advantage of the electronically-commutated motors. The motors are equipped with ball bearings designed for at least 40 000 operating hours.

Speed control

- The fan is operated with an 0-10 V control signal.
- The air capacity is controlled depending on air temperature, pressure level, smoke content, etc.
- The speed of the EC motor can be changed proportionally to fluctuations of the control parameter and the fan delivers a required air volume to the ventilation system. Maximum fan speed does not depend on the current frequency.
- The fans may be integrated into a building management systems. The specially designed software provides precise control of all the fans integrated into the system.

Mounting

- The fans are designed for duct mounting in any point of the ventilation system with the casing mounted at any angle. In case of vertical mounting a protective outer hood must be installed on the top.
- Fixation to the floor, wall or ceiling is performed with the supplied mounting brackets.
- Electric connection and installation must be performed in compliance with the manual and the wiring diagram on the terminal box.

Mounting bracket for easy installation supplied with the fan

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.

Designation key

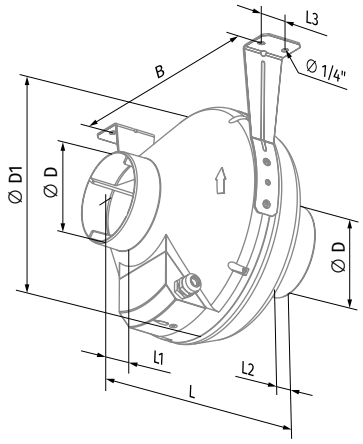
Series	Motor	Spigot diameter [mm]	Options
Centro	**EC:** electronically commutated motor	**100; 125; 150; 200; 250; 315**	**FR:** built-in smooth speed controller adjustable from 0 to 100 %. The fan is supplied with a pre-wired cable with IEC plug as a standard.

Accessories

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

Dimensions [in]

Model	Duct dia	∅ D	∅ D1	B	L	L1	L2	L3	Weight [lb]
Centro EC 100	4"	3 15/16"	9 13/16"	10 5/8"	9 1/16"	1 3/16"	1 1/16"	1 3/16"	4.7
Centro EC 125	5"	4 15/16"	9 13/16"	10 5/8"	8 11/16"	1 3/16"	1 1/16"	1 3/16"	4.9
Centro EC 150	6"	5 7/8"	11 13/16"	12 3/16"	11 1/4"	1 3/16"	1 3/16"	1 3/16"	5.7
Centro EC 200	8"	7 7/8"	13 3/8"	13 15/16"	10 7/8"	1 3/16"	1 3/16"	1 9/16"	8.8
Centro EC 250	10"	9 13/16"	13 3/8"	13 15/16"	10 7/16"	1 3/16"	1 3/16"	1 9/16"	9.9
Centro EC 315	12"	12 3/8"	15 3/4"	16 5/16"	16 5/16"	1 9/16"	2 3/16"	1 9/16"	11.2

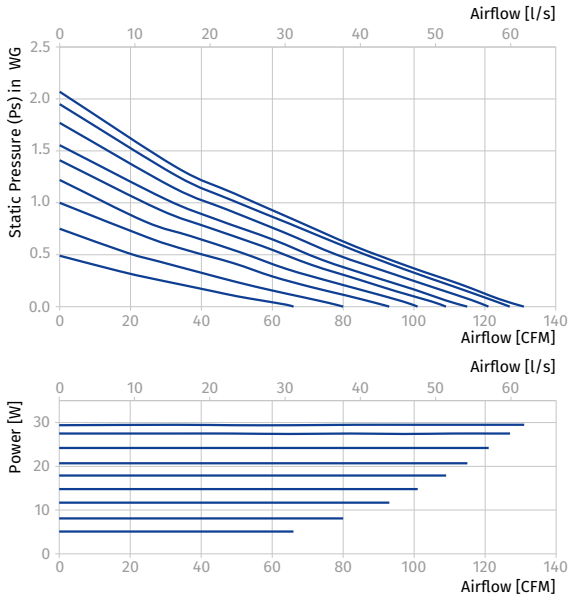


Technical data

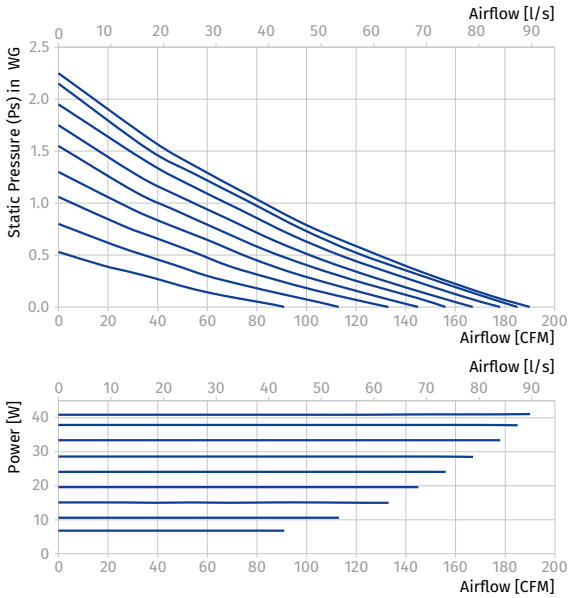
Model	Duct dia	Energy Star compliance	RPM*	Sones @ 1 ft	Watts*	Amps*	10 V curve CFM vs. Static Pressure (Ps) in WG											Max Ps, in WG	Volts
							0"	0.125"	0.2"	0.25"	0.375"	0.5"	0.75"	1"	1.25"	1.5"	2.5"		
Centro EC 100	4"	yes	2436	3	29.5	0.53	131	120	115	111	100	90	71	56	38	25	–	2.07	120
Centro EC 125	5"	yes	2675	3.4	41	0.63	190	173	163	158	142	130	105	82	63	45	–	2.2	120
Centro EC 150	6"	yes	3252	3.8	76	1.08	333	317	305	300	280	263	229	198	159	108	17	2.7	120
Centro EC 200	8"	yes	3000	3.9	99	1.45	471	447	423	418	392	366	312	248	191	142	–	2.24	120

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

CENTRO EC 100



CENTRO EC 125



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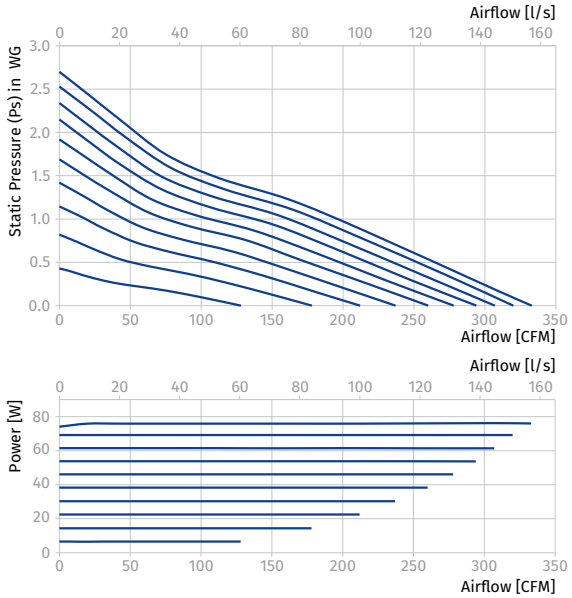

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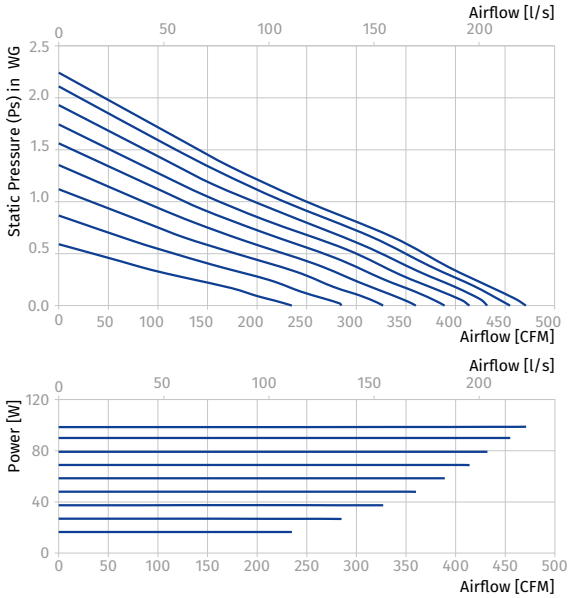
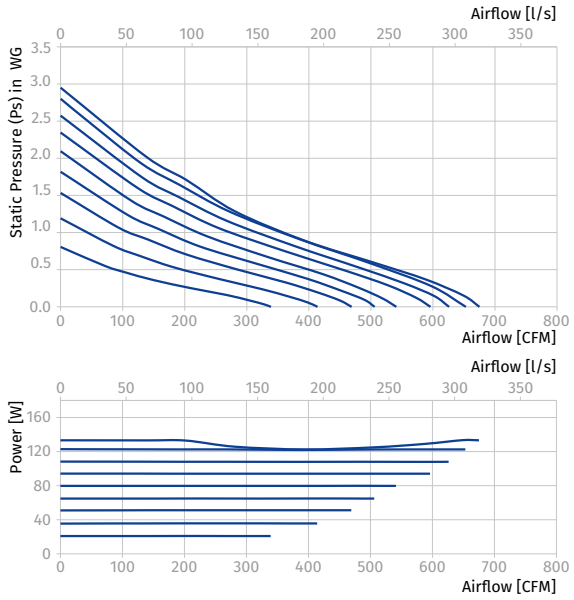


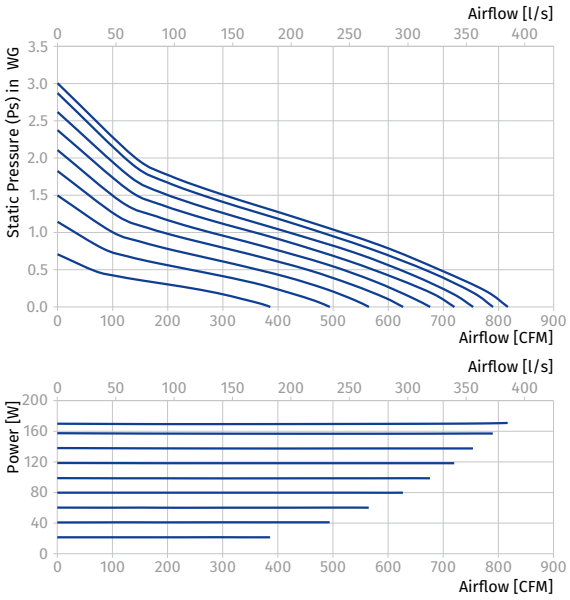
Model	Duct dia	Energy Star compliance	RPM*	Sones @ 1 ft	Watts*	Amps*	10 V curve CFM vs. Static Pressure (Ps) in WG											Max Ps, in WG	Volts
							0"	0.125"	0.2"	0.25"	0.375"	0.5"	0.75"	1"	1.25"	1.5"	2.5"		
Centro EC 250	10"	yes	2380	4.0	131	1.87	675	652	630	624	584	538	440	359	322	240	68	2.8	120
Centro EC 315	12"	yes	2680	4.2	170	2.37	817	794	774	768	731	693	611	516	464	303	69	3	120

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

CENTRO EC 250



CENTRO EC 315



Centro-M

Inline centrifugal fans

Use

- Supply and extract ventilation systems installed in various premises.
- Direct mounting inside air ductworks.
- Compatible with ∅ 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.

- **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.
- **GTI1:** 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

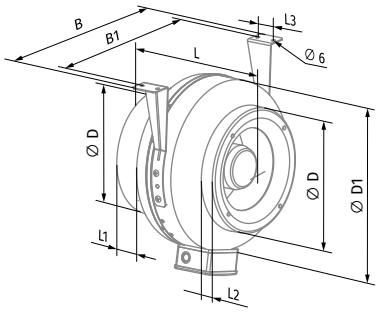
Silencers	Filter boxes		Backdraft air dampers	Air dampers
				
SD	KFBK	KFBT	VRV	VK / VKA

Designation key

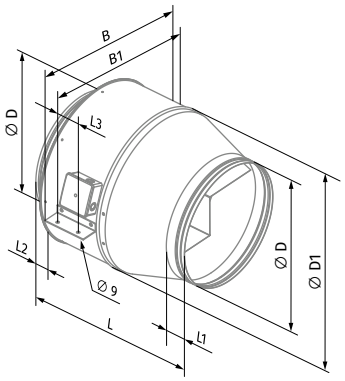
Series	Duct diameter [mm]	Options	Motor modifications
Centro-M	**100; 125; 150; 200; 250; 305; 355; 400; 450**	**FR1:** built-in smooth speed controller adjustable from 0 to 100 %. The fan is supplied with a pre-wired cable with a standard electric plug. **G1:** smooth speed controller with an electronic 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. **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. **GT1:** speed controller, temperature controller with external temperature sensor, 5 min timer switch and power cable with mains plug. **GTI1:** 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	∅ D	∅ 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.

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 ∅ 4" to 12" round air ducts.

Air flow:
up to 801 CFM

Power:
from 33 W

EC motor

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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

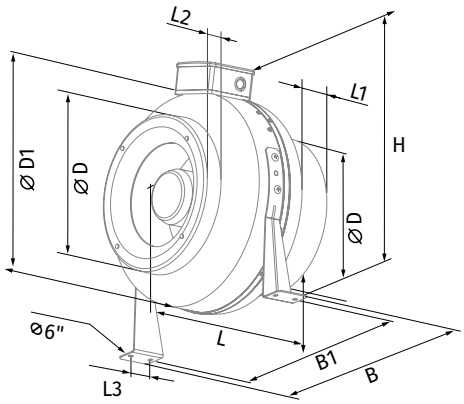
Series	Motor type	Duct diameter [mm]
Centro-M	**EC:** electronically commutated motor	**100; 125; 150; 200; 250; 305**

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	∅ D	∅ 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

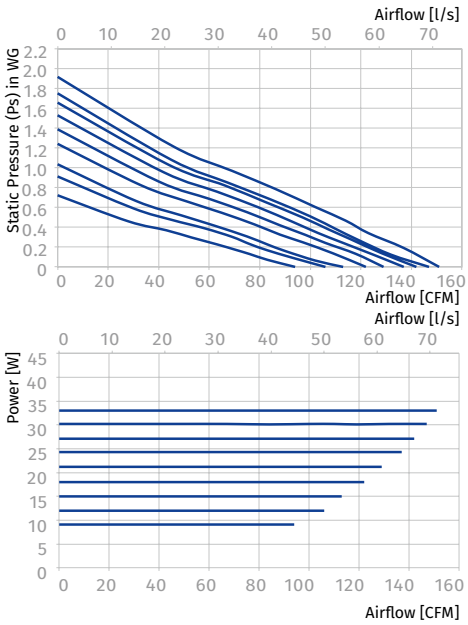


Technical data

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



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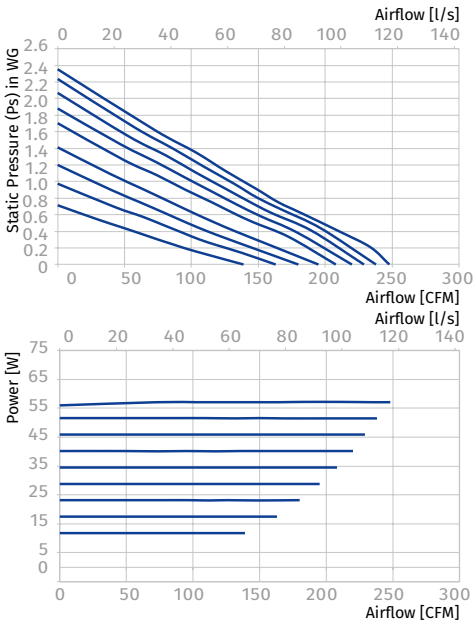

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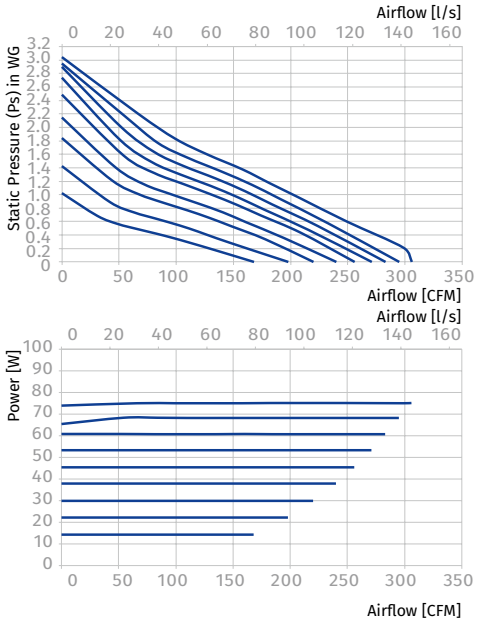

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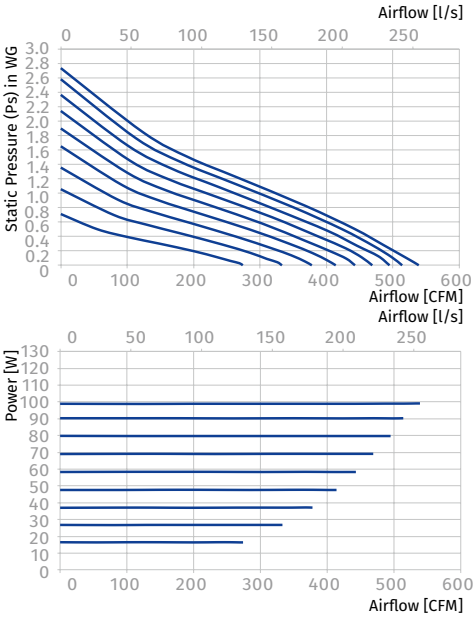

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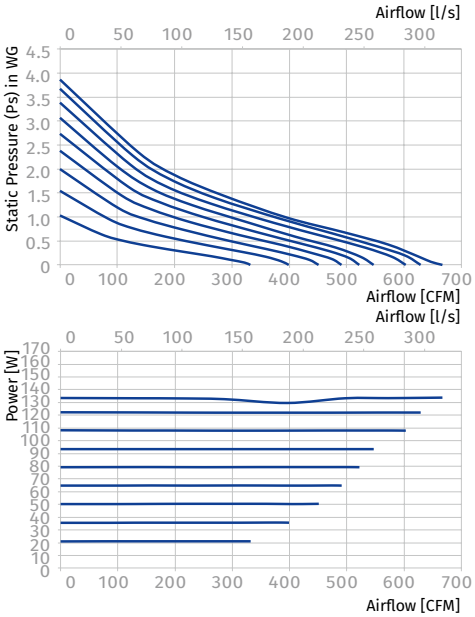
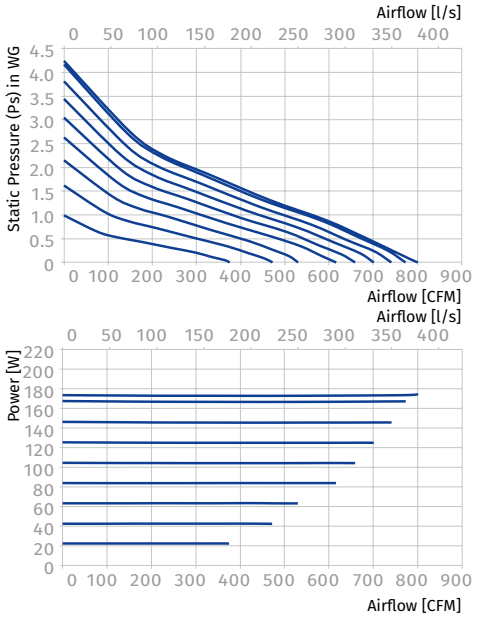


CENTRO-M EC 305



Turbo-E

Inline mixed-flow fans

Use

- Supply and extract ventilation systems installed in various premises.
- Mounting in kitchens, bathrooms and other humid premises.
- Ventilation air ducts requiring high pressure, powerful air flow and low noise level.
- Compatible with ∅ 4" up to 12" round air ducts.

Air flow: up to 1069 CFM

Power: from 24 W

Noise level: from 1.1 Sones

2100 HVI CERTIFIED

Intertek

Design

- Casing made of low-flammable polypropylene.
- Ventilation unit with terminal box. Can be turned to any position.
- Special design of the casing permits easy dismantling of the impeller and motor block for fan servicing without dismantling the air duct.

Motor

- Double-speed single-phase motor on ball bearings.
- Equipped with thermal overload protection.

Speed control

- The built-in switch or external switch for multi-speed fans (available upon separate order) are used to select one of two capacity modes.
- Smooth speed control is possible with a built-in speed controller (option **FR**) or an external thyristor speed controller.

Mounting

- Due to compact design the fan is the ideal solution for mounting in limited spaces, including space behind a false ceiling.
- The fan can be installed in any section of the ventilation system from intake to the end of the ductworks.
- Wall or ceiling mounting with a mounting plate.
- **TD**: mounting kit for installation of one diameter fans in parallel (for boosting capacity)

- **TL**: mounting kit for installation of one diameter fans in series (for boosting pressure).

Accessories

Silencers	Filter boxes		Backdraft air dampers	Air dampers	Clamps
					
SD	KFBK	KFBT	VRV	VK / VKA	K

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.

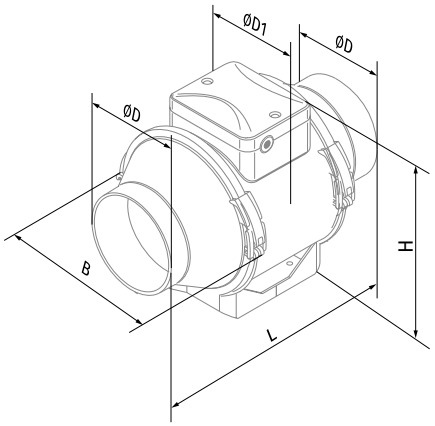
- **GI1:** smooth speed controller with an electronic thermostat and a temperature sensor integrated into the air duct. The fan is supplied with a standard electric plug.
- **GTI1:** speed controller, temperature controller with integrated temperature sensor, 5 min timer switch and power cable with mains 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.

Designation key

Series	Duct diameter [mm]	Options
Turbo-E	**100; 125; 150; 200; 250; 315**	**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. **GT1:** speed controller, temperature controller with external temperature sensor, 5 min timer switch and power cable with mains plug. **GTI1:** 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.

Dimensions [in]

Model	Duct dia	∅ D	∅ D1	B	H	L	Weight [lb]
Turbo-E 100	4"	3 3/4"	5 1/2"	6 9/16"	7 1/2"	9 11/16"	3.1
Turbo-E 125	5"	4 13/16"	5 1/2"	6 9/16"	7 1/2"	9 11/16"	3.1
Turbo-E 150	6"	5 3/4"	7 11/16"	8 3/4"	9 13/16"	11 5/8"	6.6
Turbo-E 200	8"	7 13/16"	8 1/4"	9 7/16"	10 1/4"	11 5/8"	14.1
Turbo-E 250	10"	9 3/4"	10 1/8"	11 5/16"	12 11/16"	15 1/16"	18.3
Turbo-E 315	12 3/8"	12 3/8"	12 11/16"	14 1/4"	16 1/16"	22 15/16"	25.1



Technical data

Model	Duct dia	Speed	Sones	RPM*	Watts*	Amps*	CFM vs. Static Pressure (Ps) in WG											Max Ps. in WG	Volts
							0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1		
Turbo-E 100	4"	high	2.5	2584	38	0.45	134	120	100**	55	33	20	4	–	–	–	–	0.63	120
		low	1.1	2527	25	0.29	86	68	50**	28	8	0	–	–	–	–	–	0.52	120
Turbo-E 125	5"	high	2.5	2472	36	0.46	157	140	120**	83	15	–	–	–	–	–	–	0.46	120
		low	1.4	2191	24	0.3	121	91	60**	1	–	–	–	–	–	–	–	0.32	120
Turbo-E 150	6"	high	3.5	2072	55	0.46	244	230	210**	174	89**	72	59**	45	34	19	4	1	120
		low	1.5	1896	28	0.23	161	135	70**	48	34**	19	0	–	–	–	–	0.6	120
Turbo-E 200	8"	high	4.5	2049	104	0.87	440	418	400**	352	347**	319	280**	223	172	115	34	1.1	120
		low	2	1552	65	0.54	319	288	260**	231	179**	141	67**	24	–	–	–	0.8	120
Turbo-E 250	10"	high	4.5	2525	200	1.68	880	870	866	859	850	842	832	821	795	751	708	2.27	120
		low	2.5	1925	130	1.11	655	641	630	610	588	565	531	497	457	397	330	1.54	120
Turbo-E 315	12 3/8"	high	4.5	2375	343	2.95	1069	1048	1020**	996	955**	915	889**	863	818	768	713	2.6	120
		low	2.5	1856	224	1.89	858	800	780**	745	688**	626	567**	482	397	347	298	1.7	120

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

Turbo EC

Inline mixed-flow fans

Use

- Supply and extract ventilation systems installed in various premises.
- Mounting in kitchens, bathrooms and other humid premises.
- Ventilation air ducts requiring high pressure, powerful air flow and low noise level.
- Compatible with ∅ 4", 5", 6", 8", 10" round air ducts.
- Compact size for limited spaces.

Air flow: up to 745 CFM

Power: from 25.9 W

Noise level: from 1.7 Sones

Design

- Turbo EC fans combine the versatility and outstanding performance of both axial and centrifugal fans producing a powerful air flow and high pressure while retaining the signature energy-efficiency and response of EC motors.
- The casing of Turbo EC fan is made of low-combustible polypropylene. The removable central unit with a motor, impeller and terminal box is attached to the fittings by means of special mounting brackets with integral latches. This helps to make the fan maintenance extremely simple and convenient. Fan service no longer requires major disassembly and dismantling of the fan: all you have to do is remove the main unit from the casing and carry out the maintenance as required.
- The inlet fitting has a profiled header which ensures smooth air flow into the fan. Conically shaped impelles with specially profiled blades cause circular velosity rise, that resuts in airflow boost and pressure increase comparing to conventional design.
- The fan outlet combination of a diffuser, specially designed impeller and rectifier allow for the optimim air distribution: high air capacity and pressure without excessive noise.

Motor

- The fans feature high-efficiency electronically commutated (EC) direct current motors. These state-of-the-art units offer excellent energy efficiency. In addition to that EC motors combine high performance and optimum response over the entire speed range. The performance efficiency of electronically commutated motors reaches a staggering 90 %.

Speed control

- The fans are controlled by means of a 0-10 V control signal while the performance regulation is based on the feedback from the temperature, smoke and other sensors as well as other vital parameter settings. As the control signal changes the EC fan changes speed accordingly to supply the exact air amount required by the ventilation system.
- The maximum fan speed does not depend on the electric mains frequency enabling compatibility with both 50 Hz and 60 Hz networks. The fans can be easily combined into a single computer-controlled network. Special software allows for precise control over the operating parameters of the network units. All the system parameters can be monitored from the computer screen allowing to program operating parameters for each fan on the network individually.
- Integration of several fans into a single computer-controlled system with sensor feedback combined with speed control across the entire dynamic range.

Mounting

- The fans are intended for installation in matching diameter air ducts at any point of the ventilation system without limitation to mounting angle.
- The fan casing has a flat mounting plate for a secure wall mounting.
- Electrical connection and installation must be performed in accordance with the instruction manual and the electrical connections diagram applied to the terminal box.
- A single system may have several fans installed in parallel to boost the output capacity or in series to boost the working pressure.

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	CDT E/0-10

Options

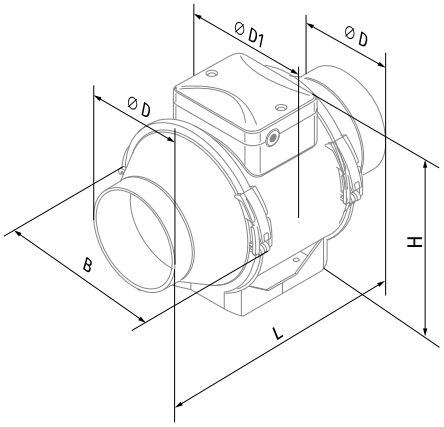
- **FR:** built-in smooth speed controller adjustable from 0 to 100 %. The fan is supplied with a pre-wired cable with IEC plug as a standard.
- **G:** smooth speed controller with an electronic thermostat and an external temperature sensor that is fixed on 13 ft cable. The fan is supplied with a pre-wired power cable with IEC plug as a standard.
- **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.

Designation key

Series	Motor type	Duct diameter [mm]	Options
Turbo	**EC:** electronically commutated motor	**100; 125; 150; 200; 250**	**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. **G:** 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 cable with IEC plug as a standard. **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.

Dimensions [in]

Model	Duct dia	∅ D	B	H	L	Weight [lb]
Turbo EC 100	4"	3 3/4"	6 9/16"	7 1/2"	9 11/16"	3.1
Turbo EC 125	5"	4 13/16"	6 9/16"	7 1/2"	9 11/16"	3.1
Turbo EC 150	6"	5 3/4"	8 3/4"	9 13/16"	11 5/8"	6.6
Turbo EC 200	8"	7 13/16"	9 7/16"	10 1/4"	11 5/8"	14.1
Turbo EC 250	10"	9 3/4"	11 5/16"	12 11/16"	15 1/16"	18.3

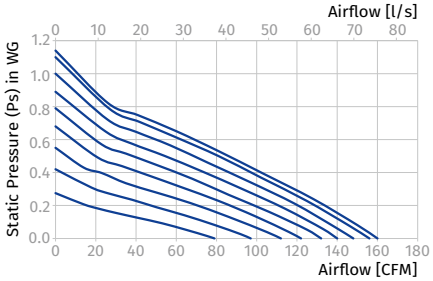


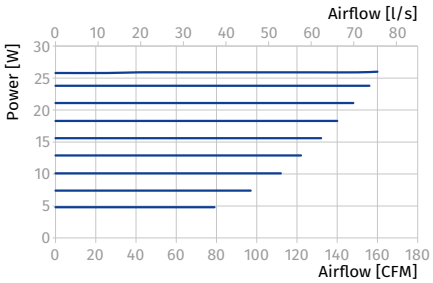
Technical data

Model	Duct dia	Energy Star compliance	RPM*	Sones	Watts*	Amps*	CFM*	CFM vs. Static Pressure (Ps) in WG 10 V signal										Max Ps, in WG	Volts
								0"	0.125"	0.2"	0.25"	0.375"	0.5"	0.75"	1"	1.25"	1.5"		
Turbo EC 100	4"	yes	2940	1.7	25.9	0.42	134	160	145	134	127	106	87	42	11	–	–	1.14	120
Turbo EC 125	5"	yes	2928	1.8	35.4	0.54	215	245	227	215	207	187	158	85	25	–	–	1.13	120
Turbo EC 150	6"	yes	2800	2.6	52.4	0.54	318	343	328	318	311	293	272	222	143	66	8	1.53	120
Turbo EC 200	8"	yes	2750	3.2	121.3	1.76	560	590	573	560	550	533	512	468	405	303	180	2.05	120
Turbo EC 250	10"	yes	2568	3.2	170.6	2.26	680	745	705	680	663	625	590	505	415	308	240	2.50	120

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

TURBO EC 100





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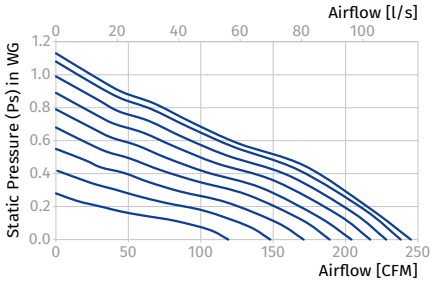

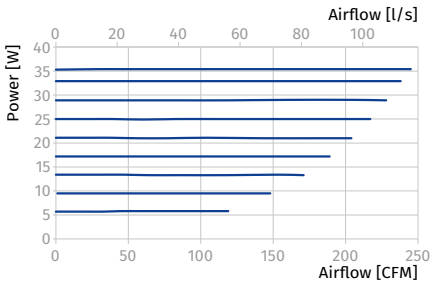

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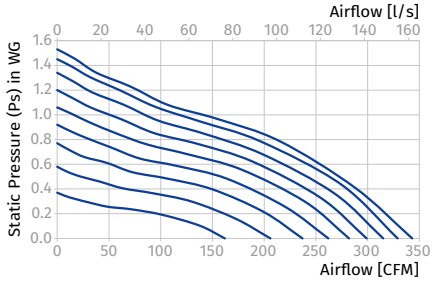

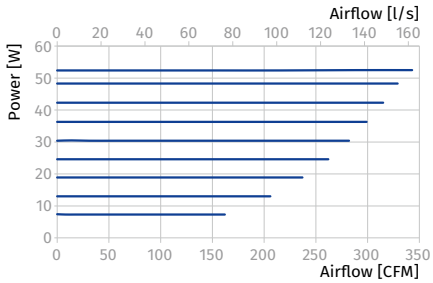

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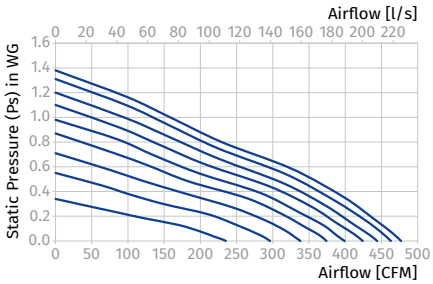
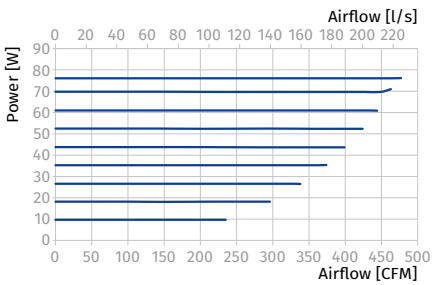
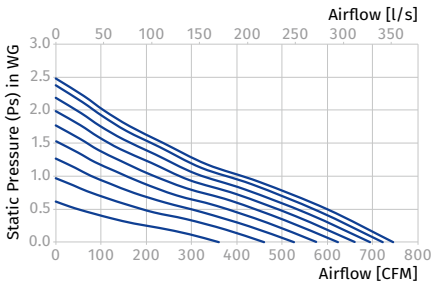
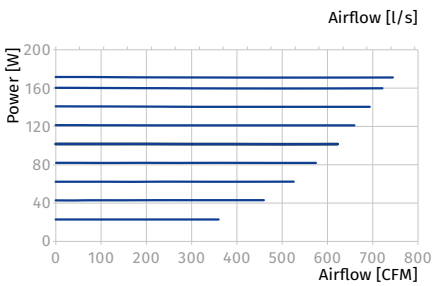




TURBO EC 250





Turbo

Inline mixed-flow fans

Use

- Supply and extract ventilation systems installed in various premises.
- Mounting in kitchens, bathrooms and other humid premises.
- Ventilation air ducts requiring high pressure, powerful air flow and low noise level.
- Compatible with ∅ 4", 5", 6" round air ducts.
- Compatible with high pressure system.
- Compact size for limited spaces.

Air flow: up to 317 CFM

Power: from 22 W

Noise level: from 0.6 Sones

2100 HVI CERTIFIED

Intertek

Design

- Lightweight, durable and uv resistant plastic case (flame rating – 5va).
- Corrosion free.
- Turbo fans provide ultra quiet operation and excellent airflow even in high pressure systems. The specifically designed and optimized case and the new aerodynamic mixed flow impeller ensure the highest performance.
- The diffuser, impeller and guide vanes provide a smooth laminar (non-turbulent) airflow that minimizes noise and generates excellent airflow in high pressure systems.
- The hemispheric shaped impeller with specially profiled blades are designed to ensure super silent operation.
- The Removable Body, including motor, impeller and junction box, is the Ultimate Solution for Easy Installation & cleaning.
- The removable body with the junction box can be rotated 1800 to facilitate mounting and wiring.

Motor

- Double-speed capacitor motor with thermal overload protection.
- Equipped with thermal overload protection.
- Vibration free operation.

Speed control

- The built-in switch or external switch for multi-speed fans (available upon separate order) are used to select one of two capacity modes.
- Smooth speed control is possible with a built-in speed controller (option **FR**) or an external thyristor speed controller.

Mounting

- Due to compact design the fan is the ideal solution for mounting in limited spaces, including space behind a false ceiling.
- The fan can be installed in any section of the ventilation system from intake to the end of the ductworks.
- Wall or ceiling mounting with a mounting plate.
- The fan case is equipped with a mounting plate to attach the fan to the wall or ceiling.

Accessories

Silencers	Filter boxes		Backdraft air dampers	Air dampers	Clamps
					
SD	KFBK	KFBT	VRV	VK / VKA	K

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.

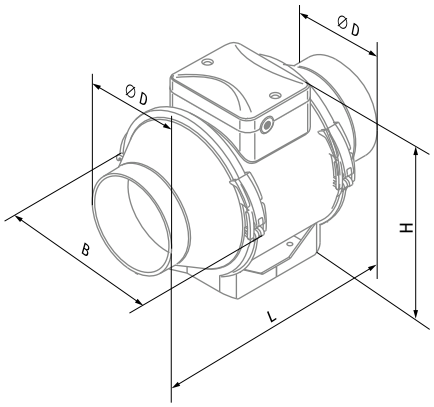
- **GI1:** smooth speed controller with an electronic thermostat and a temperature sensor integrated into the air duct. The fan is supplied with a standard electric plug.
- **GTI1:** speed controller, temperature controller with integrated temperature sensor, 5 min timer switch and power cable with mains 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.

Designation key

Series	Duct diameter [mm]	Options
Turbo	**100; 125; 150**	**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. **GT1:** speed controller, temperature controller with external temperature sensor, 5 min timer switch and power cable with mains plug. **GTI1:** 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.

Dimensions [in]

Model	Duct dia	∅ D	B	H	L	Weight [lb]
Turbo 100	4"	3 13/16"	7 11/16"	8 15/16"	11 15/16"	3.39
Turbo 125	5"	4 13/16"	7 11/16"	8 15/16"	10 3/16"	3.33
Turbo 150	6"	5 13/16"	8 11/16"	9 3/4"	11 3/8"	4.58



Technical data

Model	Duct dia	Energy Star compliance	Speed	RPM*	Sones	Watts*	Amps*	CFM*	CFM vs. Static Pressure (Ps) in WG											Max Ps, in WG	Volts
									0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1		
Turbo 100	4"	no	high	2363	1.5	28	0.23	100**	134	119	100**	78	58**	36	18	9	–	–	–	0.78	120
			low	2065	0.9	22	0.2	60**	97	79	60**	39	20**	8	–	–	–	–	–	0.61	120
Turbo 125	5"	no	high	2303	1.3	36	0.29	160**	199	181	160**	137	94**	62	33	0	–	–	–	0.7	120
			low	1990	0.6	23	0.2	70**	117	95	70**	44	11**	–	–	–	–	–	–	0.48	120
Turbo 150	6"	no	high	2570	2.5	67	0.56	290**	317	305	290**	274	257**	237	218	189	130	81	48	1.22	120
			low	1847	1.1	53	0.46	190**	237	217	190**	169	132**	108	81	51	26	0	–	0.93	120

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

Turbo Max

Inline mixed-flow fans

Use

- Supply and extract ventilation systems installed in various premises.
- Mounting in kitchens, bathrooms and other humid premises.
- Ventilation air ducts requiring high pressure, powerful air flow and low noise level.
- Compatible with ∅ 4", 5", 6" round air ducts.
- Compatible with high pressure system.
- Compact size for limited spaces.

Air flow: up to 372 CFM

Power: from 39 W

Noise level: from 0.6 Sones

Design

- Lightweight, durable and uv resistant plastic case (flame rating – 5va).
- Corrosion free.
- **Turbo Max** fans provide ultra quiet operation and excellent airflow even in high pressure systems. The specifically designed and optimized case and the new aerodynamic mixed flow impeller ensure the highest performance.
- The diffuser, impeller and guide vanes provide a smooth laminar (non-turbulent) airflow that minimizes noise and generates excellent airflow in high pressure systems.
- The hemispheric shaped impeller with specially profiled blades are designed to ensure super silent operation.
- The Removable Body, including motor, impeller and junction box, is the Ultimate Solution for Easy Installation & cleaning.
- The removable body with the junction box can be rotated 1800 to facilitate mounting and wiring.

Motor

- Double-speed capacitor motor with thermal overload protection.
- Equipped with thermal overload protection.
- Vibration free operation.

Speed control

- The built-in switch or external switch for multi-speed fans (available upon separate order) are used to select one of two capacity modes.
- Smooth speed control is possible with a built-in speed controller (option **FR**) or an external thyristor speed controller.

Mounting

- Due to compact design the fan is the ideal solution for mounting in limited spaces, including space behind a false ceiling.
- The fan can be installed in any section of the ventilation system from intake to the end of the ductworks.
- Wall or ceiling mounting with a mounting plate.
- The fan case is equipped with a mounting plate to attach the fan to the wall or ceiling.

Accessories

Silencers	Filter boxes		Backdraft air dampers	Air dampers	Clamps
					
SD	KFBK	KFBT	VRV	VK / VKA	K

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.

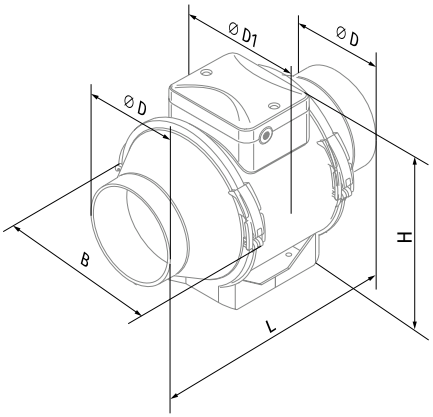
- **GI1:** smooth speed controller with an electronic thermostat and a temperature sensor integrated into the air duct. The fan is supplied with a standard electric plug.
- **GTI1:** speed controller, temperature controller with integrated temperature sensor, 5 min timer switch and power cable with mains 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.

Designation key

Series	Duct diameter [mm]	Options
Turbo Max	**100; 125; 150**	**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. **GT1:** speed controller, temperature controller with external temperature sensor, 5 min timer switch and power cable with mains plug. **GTI1:** 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.

Dimensions [in]

Model	Duct dia	∅ D	∅ D1	B	H	L	Weight [lb]
Turbo Max 100	4"	3 7/8"	5 1/2"	7 5/8"	8 7/8"	12"	4.0
Turbo Max 125	5"	4 7/8"	6 3/8"	7 1/2"	8 7/8"	10 1/8"	4.0
Turbo Max 150	6"	5 7/8"	7 3/4"	8 1/2"	9 7/8"	11 3/8"	6.0



Technical data

Model	Duct dia	Speed	RPM*	Watts*	Amps*	CFM*	CFM vs. Static Pressure (Ps) in WG											Max Ps, in WG	Volts
							0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1		
Turbo Max 100	4"	high	2927	48	0.4	180**	206	194	180**	161	133**	102	78**	55	43	26	0	1	120
		low	2414	39	0.32	120**	143	129	120**	107	90**	68	51**	35	16	0	–	0.9	120
Turbo Max 125	5"	high	3003	62	0.53	250**	285	268	250**	230	209**	153	99**	62	31	0	0	0.87	120
		low	2570	48	0.42	190**	218	205	190**	174	144**	107	72**	42	11	0	0	0.82	120
Turbo Max 150	6"	high	2981	81	0.69	350**	372	361	350**	337	322**	307	293**	275	261	226	108	1.37	120
		low	2432	76	0.64	270**	304	288	270**	251	233**	213	192**	158	109	72	48	1.22	120

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

Centro PS

Dryer booster fans

Benefits

- Installed Pressure Switch.
- Compatible with ∅ 4", 5", 6" round air ducts.
- High static pressure applications.
- Backward curved centrifugal impeller.
- External rotor motor with thermal overload protection.
- Ideal for long duct runs.
- Vibration free operation.
- Energy efficient.
- Maintenance free.
- Corrosion resistant.
- UV resistant, UL94 certified plastic.
- Pre-wired and supplied with mounting bracket for easy installation,

Air flow:
up to 317 CFM

Power:
from 93 W

Applications

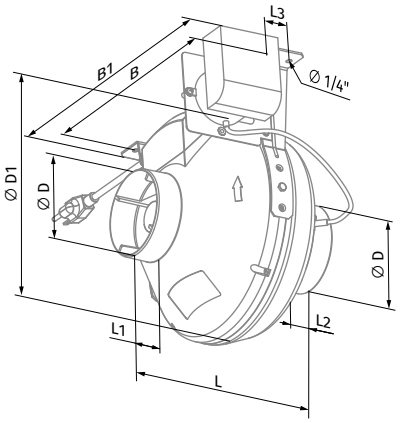
Centro PS booster fans can be used to exceed the maximum 25 ft. and allow complex duct runs. The fan should be at least 15 ft. from the dryer as close as possible where the duct terminates. Please refer to the installation manual for the correct angle of pressure switch.

Description

- Centro PS Series dryer booster fan has been specially designed to solve dryer vent problems where more airflow is needed. Centro PS dryer booster fans make dryers run more efficiently, save energy by reducing drying time, and limit lint and moisture problems. The pre-installed pressure switch runs in 10 minute repeate cycles.
- Every 10 minutes the booster fan stops for 15 seconds. If the pressure still exists, another cycle begins. If the dryer stops during the cycle, the booster fan will complete the 10 minute cycle that it had started before the dryer stopped. The extra venting helps to keep the duct lint free and to clear any remaining moisture. The fans are fitted with backward curved centrifugal impeller, which prevents lint from getting stuck in the fan. Feature powerful sealed external rotor motor with lifelong bearings and thermal protection. This powerful combination enables the Centro PS fans to deliver exceptional airflow performances even in long duct runs.
- Designed to vent up to 150 ft. duct work.

Dimensions [in]

Model	∅ D	∅ D1	B	B1	L	L1	L2	L3	Weight [lb]
Centro PS 100	3 15/16"	9 13/16"	10 5/8"	13 3/8"	9 1/16"	1 3/16"	1 1/16"	1 3/16"	4.7
Centro PS 125	4 15/16"	9 13/16"	10 5/8"	13 3/8"	8 11/16"	1 3/16"	1 1/16"	1 3/16"	4.9
Centro PS 150	5 7/8"	11 13/16"	12 3/16"	13 3/8"	11 1/4"	1 3/16"	1 3/16"	1 3/16"	5.7



Technical data

Model	Duct dia	Sones	RPM*	Watts*	CFM vs. Static Pressure (Ps) in WG										Volt
					0"	0.125"	0.2"	0.25"	0.375"	0.5"	0.75"	1.0"	1.25"	1.5"	
Centro PS 100	4"	2.3	2980	109	162	155	150	147	141	134	120	104	87	67	120
Centro PS 125	5"	2.7	2960	114	235	222	214	207	193	178	151	123	99	72	120
Centro PS 150	6"	2.7	2785	93	317	300	289	282	265	247	212	178	132	68	120

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

Specification

- Voltage: 120 V, 60 Hz .
- Motor: Single-phase external rotor motor with backward curved centrifugal impellers.
- Airflow capacity: up to 317 CFM.
- Sones: 2.3-2.7.
- Power consumption: 93-114 W.
- Suitable for working airstreams up to 149 °F.
- IPX4 protection.
- Thermal overload protection.
- Pressure switch, mounting bracket and power cord included.

Primo

Inline mixed flow fans

Use

- Inline fans for supply and exhaust ventilation of various commercial and industrial premises requiring powerful air flow.
- The fans are compatible with ∅ 14'' and 16'' air ducts.
- Combines wide capabilities and high performance features of axial and centrifugal fans, providing powerful air flow.

Air flow: up to 2112 CFM

Power: from 198 W

Noise level: from 2.6 Sones

Design

- The casing is made of polymer additionally reinforced with a metal housing.
- Due to the conically shaped polymer impeller with specially profiled blades, the air stream circular velocity increases, which results in higher air flow and pressure, as compared to characteristics of standard axial fans.
- The specially designed diffuser, impeller and airflow rectifier at the fan outlet provide smooth air flow distribution and enable the best combination of high capacity, powerful pressure and low noise.
- The fan casing is equipped with an airtight terminal box for connection to power mains.

Motor

- Three-speed high-efficient asynchronous motor.
- Equipped with ball bearings for longer service life (up to 40 000 hours).
- All motors have thermal overload protection.

Mounting

- The fans can be mounted at any place and at any angle within the ductwork system. Several fans may be installed in one system in parallel to attain higher air capacity or in series to increase operating pressure in the system. The fan casing is equipped with fixing brackets for suspended mounting.
- The fans can be installed using the appropriately sized **UM Primo** bracket.

Designation key

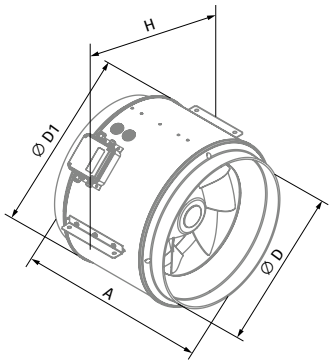
Series	Duct diameter [mm]	Modifications
Primo	**355; 400**	**US:** three-speed switch **FR1:** smooth speed controller adjustable from 0 to 100 % and power cable with mains plug **G1:** speed controller, temperature controller with external temperature sensor, power cable with mains plug **W1:** power cable with mains plug

Accessories

Silencers	Filter boxes		Electric heaters	Water heaters	Backdraft air dampers	Air dampers	Clamps
							
SD	**KFBK**	**KFBT**	**EKH**	**WKH**	**VRV**	**VK / VKA**	**K**

Dimensions [in]

Model	∅ D1	∅ D	A	H	Weight [lbs]
Primo 355	16"	13 3/4"	14 5/8"	18 7/16"	33
Primo 400	17 3/4"	15 9/16"	16 5/16"	20 3/16"	41

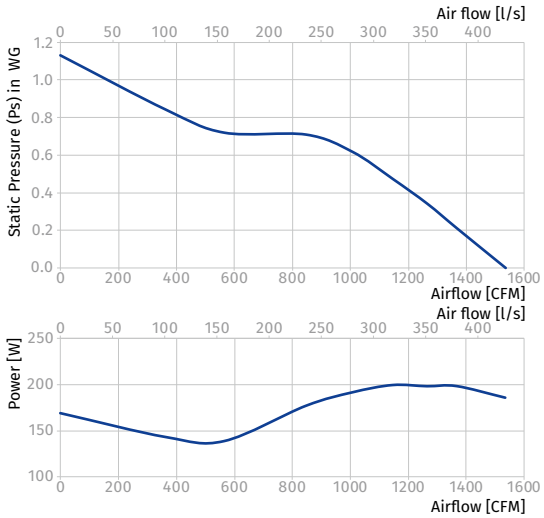


Technical data

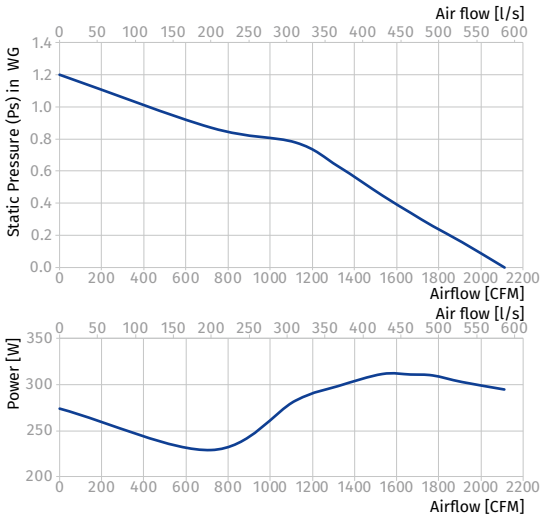
Model	Duct dia	RPM*	Sones	Watts*	Amps*	CFM vs. Static Pressure (Ps) in WG											Max Ps. in WG	Volts
						0"	0.125"	0.2"	0.25"	0.375"	0.5"	0.75"	1"	1.25"	1.5"	2.5"		
Primo 355	14"	1516	2.6	198	1.76	1536	1435	1370	1330	1230	1120	500	150	–	–	–	1.18	120
Primo 400	16"	1378	2.7	309	2.7	2112	1950	1850	1775	1625	1475	1175	400	–	–	–	1.2	120

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

PRIMO 355



PRIMO 400



inWave 100/125

Sound-insulated inline mixed-flow fans

Use

- Supply and extract ventilation systems installed in various premises with high requirements to the noise level.
- For ventilation air ducts requiring high pressure, powerful air flow and low noise level.
- Compatible with ∅ 4" and 5" air ducts.

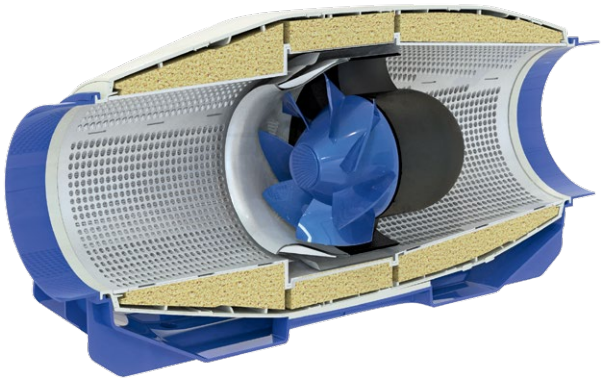
Air flow: up to 207 CFM

Power: from 22 W

Noise level: from 1.4 Sones

Design

- The casing is made of high-quality durable plastic, internally filled with 2" mineral wool thermal- and sound-insulating layer.
- Special inner perforation of the casing and sound-insulating material are designed for wide-frequency sound absorbing.
- Mixed-flow impeller made of high-quality plastic.
- The diffusor, the specially profiled impeller and directing vanes provide high performance and powerful pressure combined with low noise operation.
- External airtight terminal block on the fan casing for power supply.
- Mounting brackets on the fan casing for mounting to the floor, to the wall or ceiling.



Motor

- Single-phase high-efficient motor with low energy demand on ball bearings.
- Overheating protection due to built-in thermal switches.
- Motor ingress protection rating IPX4.

Speed control

- Speed selection with an external multi-speed controller (specially ordered accessory).
- Smooth speed control is possible either with an integrated speed controller (**FR1** option), transformer speed controller (specially ordered accessory) when connected to the maximum speed terminal.

Mounting

- Due to its compact design the fan is the ideal solution for mounting in limited spaces.
- The fan is suitable for mounting in any section of the ventilation system from intake to the end of the ductwork.
- Wall or ceiling mounting with a special bracket on the fan casing.

Designation key

Series	Duct diameter [mm]	Options
inWave	**100/125**	**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 **GT1:** speed controller, temperature controller with external temperature sensor, 5 min timer switch and power cable with mains plug **GTI1:** 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

Accessories

Silencers	Filter boxes		Electric heaters	Water heaters	Backdraft air dampers	Air dampers	Clamps	Speed switches
								
SD	KFBK	KFBT	EKH	WKH	VRV	VK / VKA	K	CDP-2/5

Modifications and options

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

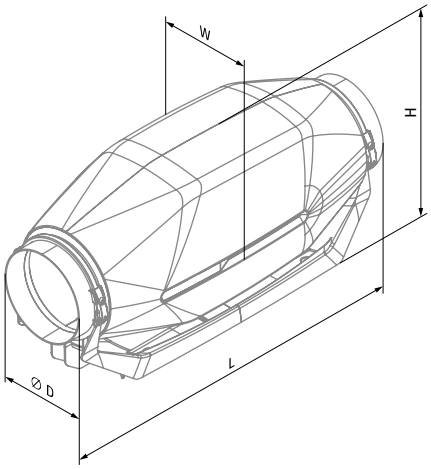
- **G1:** smooth speed controller with an electronic thermostat and an external temperature sensor that is fixed on 13 ft power cable with a standard electric plug.
- **GI1:** smooth speed controller with an electronic thermostat and a temperature sensor integrated into the air duct. The fan is supplied with a standard electric plug.
- **GTI1:** 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.

inWave 100/125 (spigot 4")

inWave 100/125 (spigot 5")

Dimensions [in]

Type	∅ D	H	L	W	Weight [lb]
inWave 100/125 (spigot 4")	3 7/8	10 3/4	29 5/8	10	11
inWave 100/125 (spigot 5")	4 7/8	10 3/4	26 3/4	10	11



Technical data

	Duct dia	Energy Star compliance	Speed	RPM*	Sones	Watts*	Amps*	CFM vs. Static Pressure (Ps) [in WG]											Max Ps [in WG]	Volts
								0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1		
inWave 100/125	5"	yes	high	3060	2	29	0.24	207	190	167	128	103	57	25	3	-	-	-	0.7	120 V / 60 Hz
			low	2475	1.4	22	0.2	168	145	121	93	55	3	-	-	-	-	-	0.5	

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

inWave 150/160

Sound-insulated inline mixed-flow fans

Use

- Supply and extract ventilation systems installed in various premises with high requirements to the noise level.
- For ventilation air ducts requiring high pressure, powerful air flow and low noise level.
- Compatible with ∅ 6" air ducts.

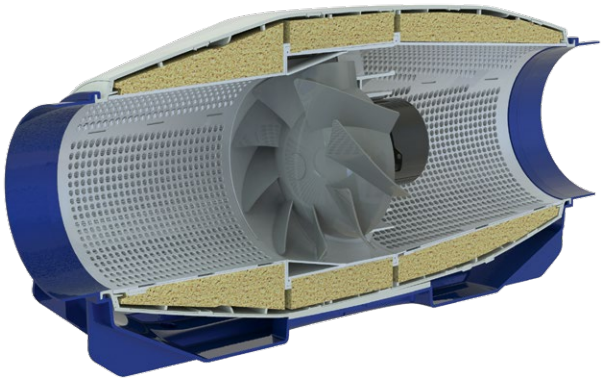
Air flow: up to 298 CFM

Power: from 53 W

Noise level: from 1.5 Sones

Design

- The casing is made of high-quality durable plastic, internally filled with 2" mineral wool thermal- and sound-insulating layer.
- Special inner perforation of the casing and sound-insulating material are designed for wide-frequency sound absorbing.
- Mixed-flow impeller made of high-quality plastic.
- The diffusor, the specially profiled impeller and directing vanes provide high performance and powerful pressure combined with low noise operation.
- External airtight terminal block on the fan casing for power supply.
- Mounting brackets on the fan casing for mounting to the floor, to the wall or ceiling.



Motor

- Single-phase high-efficient motor with low energy demand on ball bearings.
- Overheating protection due to built-in thermal switches.
- Motor ingress protection rating IPX4.

Speed control

- Speed selection with an external multi-speed controller (specially ordered accessory).
- Smooth speed control is possible either with an integrated speed controller (**FR1** option), transformer speed controller (specially ordered accessory) when connected to the maximum speed terminal.

Mounting

- Due to its compact design the fan is the ideal solution for mounting in limited spaces.
- The fan is suitable for mounting in any section of the ventilation system from intake to the end of the ductwork.
- Wall or ceiling mounting with a special bracket on the fan casing.

Designation key

Series	Duct diameter [mm]	Options
inWave	**150/160**	**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 **GT1:** speed controller, temperature controller with external temperature sensor, 5 min timer switch and power cable with mains plug **GTI1:** 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

Accessories

Silencers	Filter boxes		Electric heaters	Water heaters	Backdraft air dampers	Air dampers	Clamps	Speed switches
								
SD	**KFBK**	**KFBT**	**EKH**	**WKH**	**VRV**	**VK / VKA**	**K**	**CDP-2/5**

Modifications and options

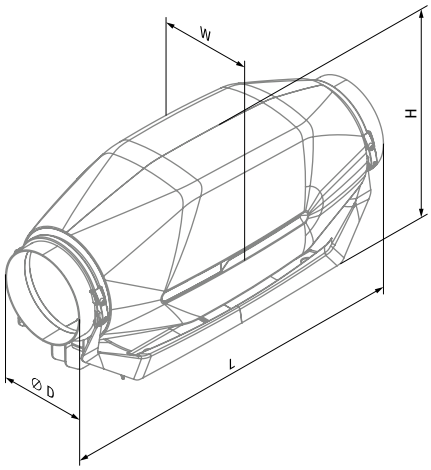
- **FR1:** smooth speed controller adjustable from 0 to 100 % and power cable with mains plug.

- **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.
- **GI1:** smooth speed controller with an electronic thermostat and a temperature sensor integrated into the air duct. The fan is supplied with a standard electric plug.
- **GTI1:** 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.

inWave 150/160 (spigot 6", spigot 6" with a rubber seal)

Dimensions [in]

Type	∅ D	H	L	W	Weight [lb]
inWave 150/160 (spigot 6")	5 7/8	10 3/4	23 7/8	10	11



Technical data

	Duct dia	Energy Star compliance	Speed	RPM*	Sones	Watts*	Amps*	CFM vs. Static Pressure (Ps) [in WG]											Max Ps [in WG]	Volts
								0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1		
inWave 150/160	6"	no	high	2540	2.5	68.5	0.57	298	282	265	242	220	197	170	135	75	30	5	1.02	120 V / 60 Hz
			low	1800	1.5	53	0.45	211	185	158	126	97	70	30	-	-	-	-	0.67	

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