Turbo EC eco

Inline mixed-flow fans

Use

- Supply and extract ventilation systems installed in various premises requiring extremely low power consumption and low noise level.
- Mounting in kitchens, bathrooms and other humid premises.
- Compatible with ∅ 100 up to 125 mm round air ducts.

Air flow:
up to 275 m³/h
76 l/s

Power:
up to 16 W



Design

- Casing made of impact- and corrosion-resistant ABS plastic (∅ 100–125).
- 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

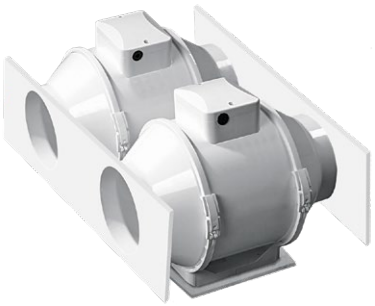
- Two-speed single-phase EC motor on ball bearings with extremely low power consumption.
- Equipped with thermal overheating protection.

Speed control

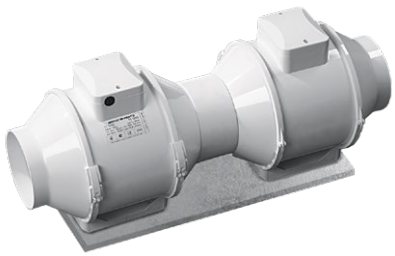
- The built-in switch (option **US**) or external switch for multi-speed fans (available upon separate order) are used to select one of two capacity modes.

Mounting

- Due to the 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		Electric heaters	Water heaters	Backdraft air dampers	Air dampers	Clamps	Speed switches	
									
SD	KFBK	KFBT	EKH	WKH	VRV	VK / VKA	K	CDP-2/10	CDP-2/5

Modifications

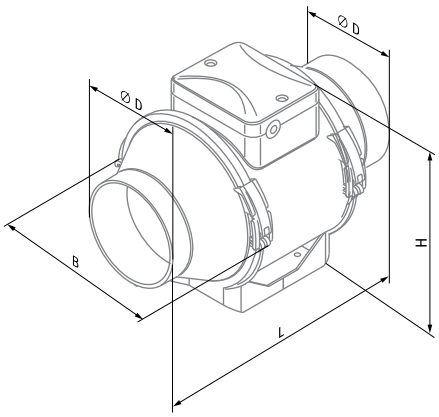
- **W:** power cable with mains plug.
- **T:** turn-off delay timer adjustable from 2 to 30 minutes.
- **US:** three-position speed switch.



Designation key				
Series	**Motor type**	**Duct diameter [mm]**	**Motor modifications**	**Modifications**
Turbo	**EC:** electronically commutated motor	**100; 125**	**eco:** energy efficient motor with low power consumption	**T:** turn-off delay timer adjustable from 2 to 30 minutes **US:** three-position speed switch **W:** power cable with mains plug

Dimensions [mm]

Model	∅ D	B	H	L	Weight [kg]
Turbo EC 100 eco	96	167	190	246	1.45
Turbo EC 125 eco	123	167	190	246	1.79

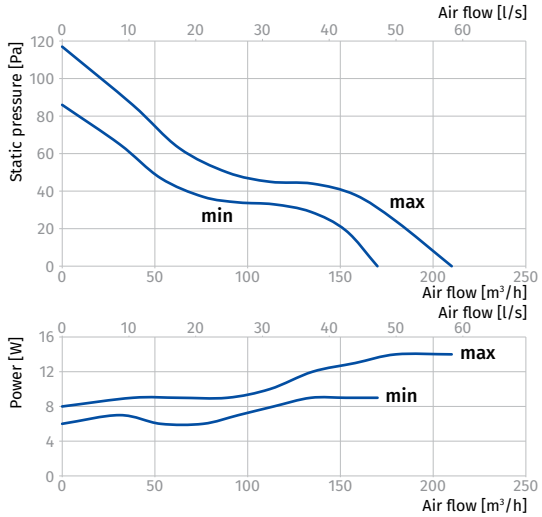


Technical data

Parameters	Turbo EC 100 eco		Turbo EC 125 eco	
Speed	min	max	min	max
Voltage [V / 50-60 Hz]	1~ 230		1~ 230	
Power [W]	9	14	10	16
Current [A]	0.10	0.12	0.11	0.13
Maximum air flow [m³/h (l/s)]	170 (47)	210 (58)	228 (63)	275 (76)
RPM [min⁻¹]	2204	2562	2204	2562
Sound pressure level at 3 m [dBA]	28	29	26	28
Transported air temperature [°C]	-25...+40		-25...+40	
IP rating	IPX4		IPX4	

TURBO EC 100 eco

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]	**60**	40	53	57	53	50	45	38	31	**40**	**49**
L_{WA} to outlet [dBA]	**59**	38	52	55	51	49	44	37	30	**38**	**48**
L_{WA} to env. [dBA]	**49**	28	41	45	43	41	37	31	25	**29**	**39**



TURBO EC 125 eco

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]	**59**	38	52	55	51	49	44	37	30	**38**	**48**
L_{WA} to outlet [dBA]	**57**	37	50	54	50	47	43	36	29	**37**	**47**
L_{WA} to env. [dBA]	**49**	28	40	45	42	40	37	31	25	**28**	**38**

