

# Turbo EC

**Inline mixed flow fans with EC motor,  
12 minute ROT, 0-10 V speed controller**

## Use

- Designed for supply and exhaust ventilation systems requiring high energy efficiency, excellent response, high pressure and air flow rate while keeping noise under control.
- Extraction ventilation for bathrooms, toilets, laundries and ensuites in homes, apartments, hotels, retirement homes and villages.
- Compatible with 150 and 200 mm air ducts.
- Designed for NCC Section J fan efficiency compliance
- Built in 12 minute run on timer for NCC compliance
- Built in 0-10 V speed controller for commissioning
- 4 pin lead and plug
- Ultra efficient EC energy efficient motor
- Five year Blauberg Ventilation warranty



**Air flow:**  
up to 1040 m<sup>3</sup>/h  
289 l/s



**Power:**  
from 55 W



**Noise level:**  
from 23 dBA



## 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. The 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 impeller with specially profiled blades cause circular velocity rise, that results in air flow boost and pressure increase comparing to conventional design.
- The fan outlet combination of a diffuser, specially designed impeller and rectifier, allow for the optimum air distribution, high air capacity and pressure without excessive noise.

## Motor

- High efficient direct current EC motor.
- EC technology meets the up to date requirements to energy saving and controllable ventilation and provides up to 35 % energy saving as compared to asynchronous motors.
- EC motors have no friction and wearing parts as capacitor and brushes. Instead a maintenance free EC controller electronic circuit board is used.
- The impeller is dynamically balanced.
- The fan is compatible with 50 Hz and 60 Hz power mains and the maximum speed does not depend on power mains frequency.
- All motors have a sealed ball bearing motor with a service life of up to 40,000 hours.
- All motors have manual reset thermal overload protection as required for inline duct fans AS/NZS60335-2-80:2004.

## Wiring

- Comes with a 1.2 m lead, 4 pin plug.

## Speed Control

- The fan speed is controlled with an integrated 0-10 V speed controller.

## 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.

## Compliance

- AS/NZS 60335.2.80:2016+A1+A2+A3
- AS/NZS 60335.1:2020+ A1
- Certified 2025

## Ordering Information

Part Number	Model	Description
BLATURBO150EC TW	Turbo 150 EC TW	Mixed Flow 150 mm Fan, EC Motor, 12 Minute Timer, 0-10 V Speed Controller
BLATURBO200EC TW	Turbo 200 EC TW	Mixed Flow 200 mm Fan, EC Motor, 12 Minute Timer, 0-10 V Speed Controller

## Designation key

Series	Motor type	Duct diameter [mm]
Turbo	EC: electronically commutated motor	150; 200

## Accessories

### Filter box



### Grilles and cowls



### Ducting

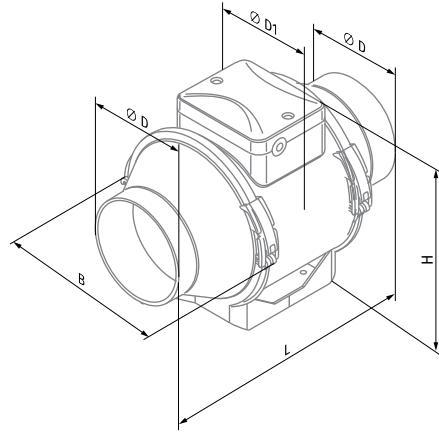


### Backdraft damper



### Overall Dimensions [mm]

Type	∅ D	∅ D1	B	H	L	Weight [kg]
Turbo EC 150	148	187	216.5	253.5	289	2.3
Turbo EC 200	198	209	239	277.5	295.5	3.95



### Technical Data

Parameters	Turbo EC 150	Turbo EC 200
Voltage [V / 50/60 Hz]	1~ 230	1~ 230
Power [W]	55	123
Current [A]	0.48	1.02
Max. airflow [m³/h (l/s)]	600 (167)	1040 (289)
RPM [min <sup>-1</sup> ]	3390	3390
Sound power level A-weighted [dBA] at full speed	46	49
Transported air temperature [°C]	-25...+55	-25...+55
Protection rating	IPX4	IPX4
SEC Class	B	-
Erp compliance	2018	2018

#### TURBO EC 150

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]	70	37	43	58	65	63	65	59	52	50	60
LWA to outlet [dBA]	68	41	45	52	60	63	63	59	52	47	57
LWA to environment [dBA]	67	32	44	59	63	59	58	51	43	46	56

#### TURBO EC 200

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]	76	36	45	57	70	69	72	69	59	56	65
LWA to outlet [dBA]	76	48	49	56	69	71	71	70	60	56	65
LWA to environment [dBA]	69	35	42	54	64	65	65	58	43	49	59

