



## Inline mixed-flow fan

# Turbo

Air capacity – up to 1750 m<sup>3</sup>/h

### Use

- Supply and exhaust 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 Ø100 up to 315 mm round air ducts.

### Design

- Casing made of low-flammable polypropylene.
- Ventilation unit with terminal box. Can be turned in any position.
- Special casing design 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 (option **US**) 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 (available upon separate order).

### 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).



## ■ Modifications and options

- **T** – adjustable run-out timer regulated from 2 to 30 minutes.
- **US** – three-position speed switch integrated in the fan.



- **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. The cable modification with a standard electric plug is also available (**FR1**).



- **G** – smooth speed controller with an electronic thermostat and an external temperature sensor that is fixed on 4 m power cable. The fan is

supplied with a pre-wired power cable with IEC plug as a standard. The cable modification with a standard electric plug is also available (**G1**).

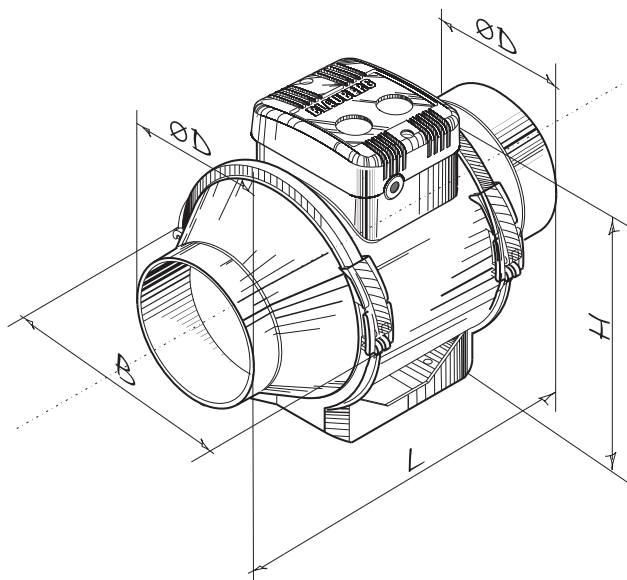


- **GI** – smooth speed controller with an electronic thermostat and a temperature sensor integrated into the air duct. The fan is supplied with a pre-wired power cable with IEC plug as a standard. The cable modification with a standard electric plug is also available (**GI1**).
- The options **G** and **GI** are used for automatic speed control depending on indoor temperature. The best ventilation solution for premises requiring permanent temperature control as greenhouses, orangeries, etc.

- **W** – the fan is equipped with a pre-wired power cable and IEC plug as a standard. Modification with a standard electric plug is available (**W1**).
- **max** – high-powered motor.

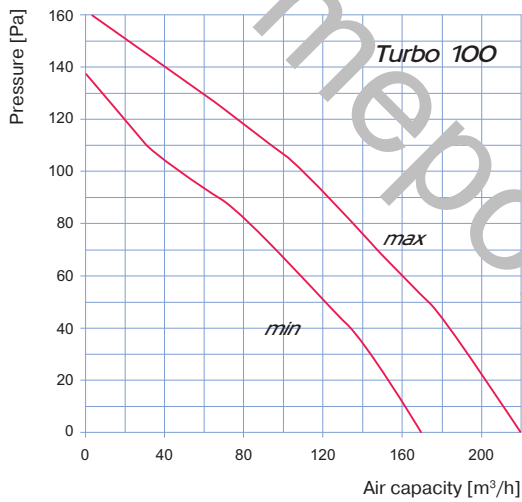
## ■ Overall dimensions

Type	Dimensions [mm]					Weight [kg]
	∅D	∅D1	B	H	L	
Turbo 100	97	164	195	241	303	1,68
Turbo 125	123	164	196	241	258	1,79
Turbo 150	148	187	220	251	289	3,18
Turbo 160	158	187	220	251	289	3,23
Turbo 200	199	209	239	261	295,5	3,8
Turbo 250	247	257	287	323	383	7,83
Turbo 315	310	323	362	408	445	11,7

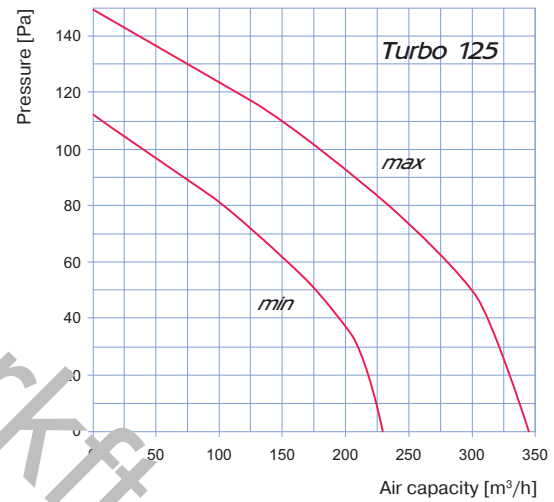


## Specifications

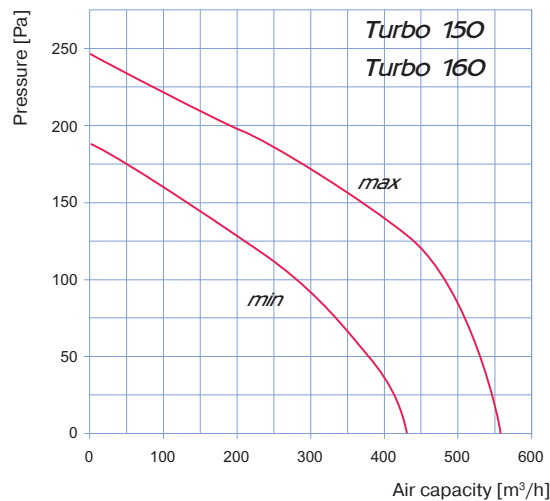
Parameters	Turbo 100		Turbo 125		Turbo 150 Turbo 160	
	min	max	min	max	min	max
Speed						
Voltage [V / 50 /60 Hz]	1~ 230		1~ 230		1~ 230	
Power [W]	23	25	25	30	42	50
Current [A]	0,10	0,11	0,11	0,13	0,19	0,22
Maximum air capacity [m <sup>3</sup> /h]	170	220	230	345	430	560
RPM [min <sup>-1</sup> ]	1980	2545	1535	2265	1940	2620
Sound pressure level at 3 m distance [dBA]	27	32	29	34	37	46
Max. operating temperature [°C]	60		60		60	
Ingress protection rating	IP X4		IP X4		IP X4	



Sound-power level	Octave-frequency band [Hz]								
	Gen	63	125	250	500	1000	2000	4000	8000
L <sub>wA</sub> to inlet, [dBA]	47	23	21	37	41	44	42	37	27
L <sub>wA</sub> to outlet, [dBA]	48	24	24	38	42	45	38	38	26
L <sub>wA</sub> to environment, [dBA]	37	20	19	23	30	34	26	26	17



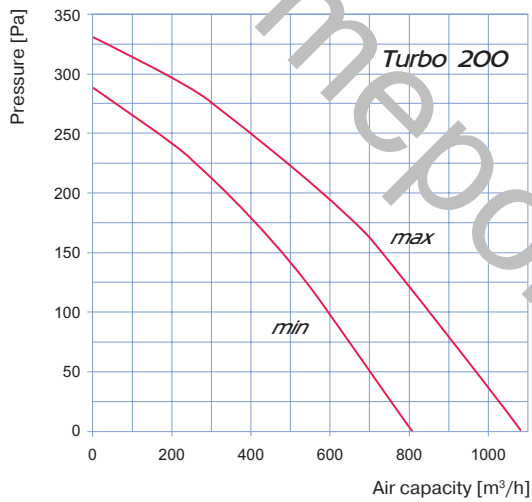
Sound-power level	Octave-frequency band [Hz]								
	Gen	63	125	250	500	1000	2000	4000	8000
L <sub>wA</sub> to inlet, [dBA]	55	25	24	41	47	49	50	39	32
L <sub>wA</sub> to outlet, [dBA]	53	27	29	42	45	49	48	42	32
L <sub>wA</sub> to environment, [dBA]	39	21	24	28	32	40	33	28	20



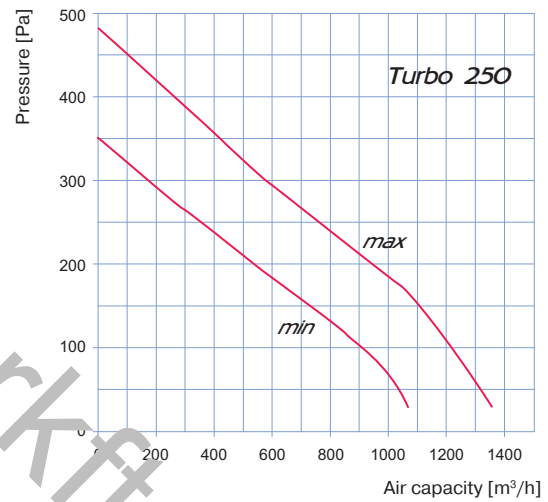
Sound-power level	Octave-frequency band [Hz]								
	Gen	63	125	250	500	1000	2000	4000	8000
L <sub>wA</sub> to inlet, [dBA]	54	36	34	40	45	51	48	41	25
L <sub>wA</sub> to outlet, [dBA]	64	39	40	55	57	58	63	56	44
L <sub>wA</sub> to environment, [dBA]	67	38	40	52	57	57	63	55	42

## Specifications

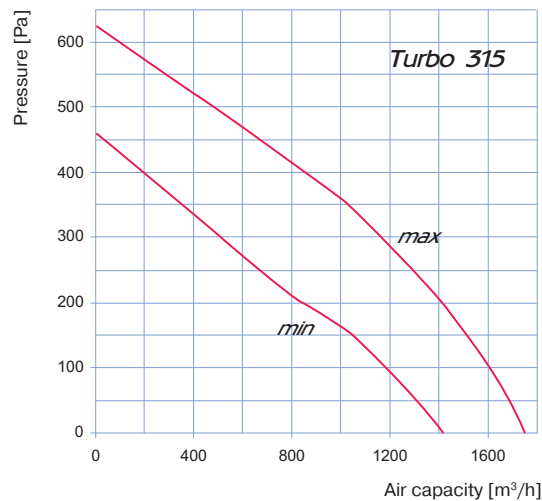
Parameters	Turbo 200		Turbo 250		Turbo 315	
	min	max	min	max	min	max
Speed						
Voltage [V / 50 /60 Hz]	1~ 230		1~ 230		1~ 230	
Power [W]	76	108	125	177	227	315
Current [A]	0,34	0,48	0,54	0,79	0,99	1,42
Maximum air capacity [m <sup>3</sup> /h]	805	1080	1070	1360	1420	1750
RPM [min <sup>-1</sup> ]	1915	2380	1955	2440	2115	2505
Sound pressure level at 3 m distance [dBA]	45	52	47	55	47	56
Max. operating temperature [°C]	60		60		60	
Ingress protection rating	IP X4		IP X4		IP X4	



Sound-power level	Octave-frequency band [Hz]								
	Gen	63	125	250	500	1000	2000	4000	8000
L <sub>WA</sub> to inlet, [dBA]	75	51	51	60	69	69	76	66	57
L <sub>WA</sub> to outlet, [dBA]	76	53	58	60	67	69	72	67	56
L <sub>WA</sub> to environment, [dBA]	62	47	47	43	55	60	55	51	38



Sound-power level	Octave-frequency band [Hz]								
	Gen	63	125	250	500	1000	2000	4000	8000
L <sub>WA</sub> to inlet, [dBA]	79	51	62	65	71	74	75	63	55
L <sub>WA</sub> to outlet, [dBA]	80	53	52	64	72	75	74	64	54
L <sub>WA</sub> to environment, [dBA]	68	47	48	48	60	62	54	49	34



Sound-power level	Octave-frequency band [Hz]								
	Gen	63	125	250	500	1000	2000	4000	8000
L <sub>WA</sub> to inlet, [dBA]	80	52	57	65	72	77	77	64	56
L <sub>WA</sub> to outlet, [dBA]	80	54	54	66	74	77	75	65	55
L <sub>WA</sub> to environment, [dBA]	69	49	49	50	60	66	57	51	36