



APPLICATION

Mixed flow fans are specially designed for supply and exhaust ventilation of premises requiring high pressure, powerful air flow and low noise level. These fans are featured with wide capabilities and high performance of axial and centrifugal fans. The fans are compatible with \emptyset 100 to 315 mm.

AREAS OF APPLICATION

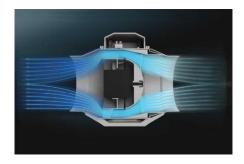
Best Solution for Ventilation of hotel bathrooms / green house with temperature sensor and other humid premises as well for ventilation of residential premises, flats, cottages, offices, shops, cafes, health care and child care facilities etc.

DESIGN

- The fan Casing made of low-flammable polypropylene.
- Unique casing design where special clamps with latches permits easy dismantling of the impeller and motor block without dismantling the air duct. This makes the fan maintenance fast and easy.



- The ventilation unit with terminal box can be turned to any position.
- The inlet spigot is equipped with a collector to enable smooth air inlet to the fan. The hemispheric impeller shape and specially profiled blades increase the air flow circular velocity and provide higher pressure and capacity as compared to standard axial fans.
- The diffuser, the specially profiled impeller and the directing vanes at outlet from the fan casing distribute air flow in such a way as to attain the best combination of high performance, enhanced pressure and low noise.



Inline mixed-flow fan **Turbo**







MOTOR

- Mixed flow fans are equipped with double-speed single phase motor on ball bearings with low energy demand.
- Motor equipped with built in thermal overload protection.
- Maintenance-free ball bearings for 40 000 hrs non-stop operation.
- Motor has IP X4 ingress protection rating.

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.
- **DT** 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).

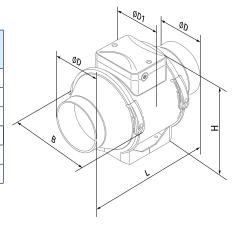
■ GI – smooth speed controller with an electronic thermostat and a temperature sensor integrated into the air duct. The fan is supplied with a pre-wired power cable with IEC plug as a standard. The cable modification with a standard electric plug is also available (Gi1).

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, hotel bath rooms 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

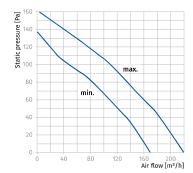
Typo			Weight			
Туре	(D	D1	В	Н	L	[kg]
Turbo 100	97	164	196	241	303	1,68
Turbo 125	123	164	196	241	258	1,79
Turbo 150	148	187	220	251	289	3,18
Turbo 200	199	209	239	261	295,5	3,8
Turbo 250	247	257	287	323	383	7,83
Turbo 315	310	323	362	408	445	11,7



SPECIFICATIONS

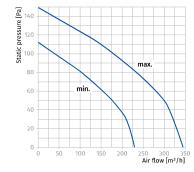
Parameters	Turb	o 100	Turbe	Turbo 125		o 150	
Speed	min	max	min	max	min	max	
Voltage [V / 50 /60 Hz]	1~	230	1~ :	230	1~ 230		
Power [W]	23	25	25	29	42	50	
Current [A]	0,10	0,11	0,11	0,13	0,19	0,22	
Maximum air capacity [m³/h]	170	220	230	345	430	560	
RPM [min ⁻¹]	1980	2545	1535	2265	1940	2620	
Sound pressure level at 3 m distance [dBA]	27	32	29	34	32	44	
Max. operating temperature [°C]	6	60	6	0	6	0	
Motor Protection	IP	44	IP	44	ΙP	44	
ErP		=		_	20	18	

TURBO 100



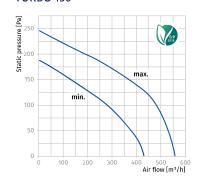
Sound power level, A-weighted	Total	63		LpA 1 m							
LwA to input [dBA]	54	19	35	50	49	44	37	25	17	33	43
L _{WA} to output [dBA]	53	17	34	50	49	48	36	24	17	32	42
LwA to environment [dBA]	47	14	29	43	43	39	33	22	15	27	37

TURBO 125



Sound power level,	Total		Octave Frequency Bands [Hz]									
A-weighted ▼	lotai	63	125	250	500	1000	2000	4000	8000	3 m	1 m	
Lwa to input [dBA]	54	26	38	52	50	44	38	27	17	34	44	
LwA to output [dBA]	54	25	37	51	49	43	38	28	18	33	43	
Lwa to environment [dBA]	49	21	32	46	45	40	35	25	16	29	39	

TURBO 150



Sound power level,	Total		Octave Frequency Bands [Hz]								
A-weighted ▼	IOtal	63	125	250	500	1000	2000	4000	8000	3 m	1 m
Lwa to input [dBA]	59	31	45	54	52	54	48	35	29	38	48
Lwa to output [dBA]	63	37	49	56	56	60	48	39	30	42	52
LwA to environment [dBA]	52	21	30	48	43	45	42	34	23	32	42



SPECIFICATIONS

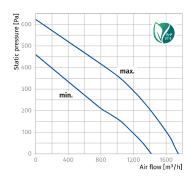
Parameters	Turb	o 200	Turb	o 250	Turbo 315		
Speed	min	max	min	max	min	max	
Voltage [V / 50 /60 Hz]	1~	230	1~	230	1~ 230		
Power [W]	76	108	125	177	227	315	
Current [A]	0,34	0,48	0,54	0,79	0,99	1,42	
Maximum air capacity [m³/h]	805	1080	1070	1360	1420	1750	
RPM [min ⁻¹]	1915	2380	1955	2440	2115	2505	
Sound pressure level at 3 m distance [dBA]	39	45	44	51	41	52	
Max. operating temperature [°C]	6	60	6	0	60		
Motor Protection	IP	44	IP	44	IP 44		
ErP	20)18	20)18	2018		

TURBO 200 [ed] 350 250 200 min. 100 50

0	200		400)	60	0	800 Air t	10w [i	000 m³/h]		
Sound power level, A-weighted	Total					ncy Bands [Hz]				LpA 3 m	LpA 1 m
,		65	125	250	500	1000	2000	4000	8000		
LwA to input [dBA]	66	38	50	58	59	60	59	55	45	45	55
LwA to output [dBA]	64	40	50	54	58	59	57	51	44	43	53
LwA to environment [dBA]	60	27	42	49	54	55	54	46	34	39	49

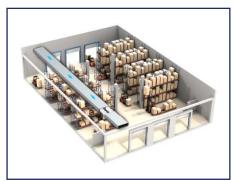
Sound power level,	Total		Octa	ve Fr	eque	ncy Ba	nds [H	z]		LpA	LpA
A-weighted ▼	iotai	63	125	250	500	1000	2000	4000	8000	3 m	1 m
LwA to input [dBA]	72	48	57	63	66	69	64	54	45	52	62
LwA to output [dBA]	75	48	56	64	70	71	66	56	45	54	64
LwA to environment [dBA]	65	32	51	57	61	59	56	45	32	44	54

TURBO 315



Sound power level,	Total		Octave Frequency Bands [Hz]								
A-weighted ▼	iotai	63	125	250	500	1000	2000	4000	8000	3 m	1 m
LwA to input [dBA]	72	43	54	62	67	66	67	58	47	52	62
Lwa to output [dBA]	70	45	57	59	64	66	63	56	46	50	60
Lwa to environment [dBA]	62	28	51	53	57	57	54	46	36	41	51

INSTALLATION EXAMPLES







Office Exhaust



Bathroom Exhaust