



Sound-insulated inline mixed-flow fan

Iso-Mix

Air capacity – up to 1920 m³/h

■ Use

- Supply and exhaust 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 Ø100 up to Ø315 mm air ducts.

■ Design

- The casing is made of polymer-coated steel, internally filled with 50 mm 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

- Double-speed single-phase high-efficient motor with low energy demand on ball bearings.
- Overheating protection by built-in thermal switches.
- Motor ingress protection rating IPX4.

■ Speed control

- Speed selection with a built-in speed switch (US option) or an external multi-speed switch (special accessory).
- Smooth speed control is possible either with an integrated speed switch (FR option), an external thyristor or transformer speed controller (special 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 mounting plate on the fan casing.

■ 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).



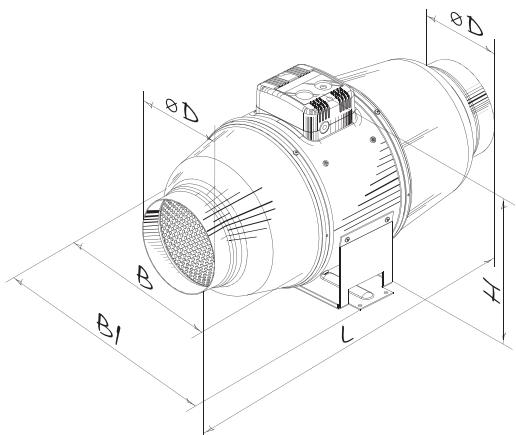
- G** – smooth speed controller with an electronic thermostat and an external temperature sensor that is fixed on 4 m cable. The fan is supplied with a pre-wired power cable with IEC plug as a standard. The cable modification with a standard electric plug is also available (G1).



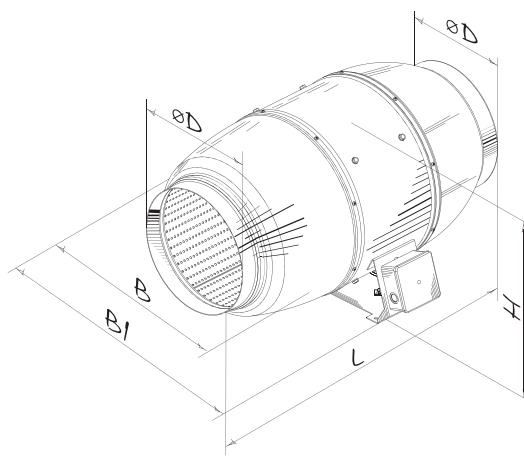
- GI** – smooth speed controller with an electronic thermostat and a temperature sensor integrated into the air duct. The fan is supplied with a pre-wired power cable with IEC plug as a standard. The cable modification with a standard electric plug is also available (GI1). G and GI options enable automatic speed control depending on indoor temperature. The best solution for ventilation of premises with permanent temperature control, e.g. greenhouses.
- W** – pre-wired power cable and IEC plug as a standard. Modification with a standard electric plug is available (W1).

■ Overall dimensions

Type	Dimensions [mm]					Weight [kg]
	$\varnothing D$	B	B1	L	H	
Iso-Mix 100	98	214	243	505	251	4,6
Iso-Mix 125	123	214	243	474	251	4,6
Iso-Mix 150	148	247	273	579	263	6,1
Iso-Mix 160	159	281	327	566	284	6,3
Iso-Mix 200	198	293	386	550	295	8,0
Iso-Mix 250	248	358	445	658	360	15,0
Iso-Mix 315	313	432	520	780	434	25,0



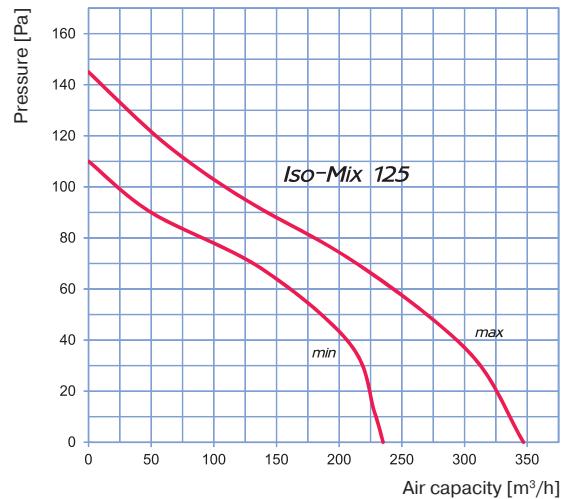
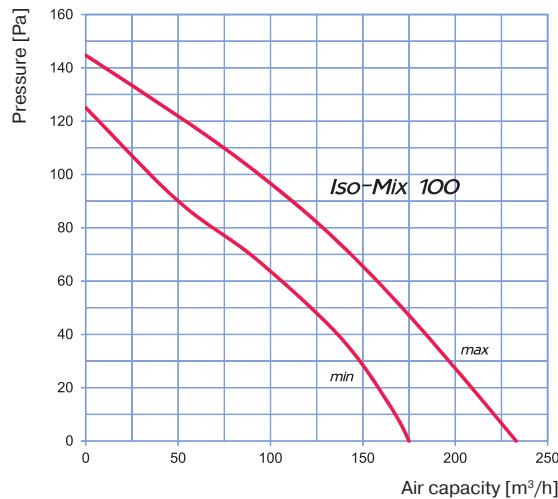
Iso-Mix 100 – Iso-Mix 150



Iso-Mix 160 – Iso-Mix 315

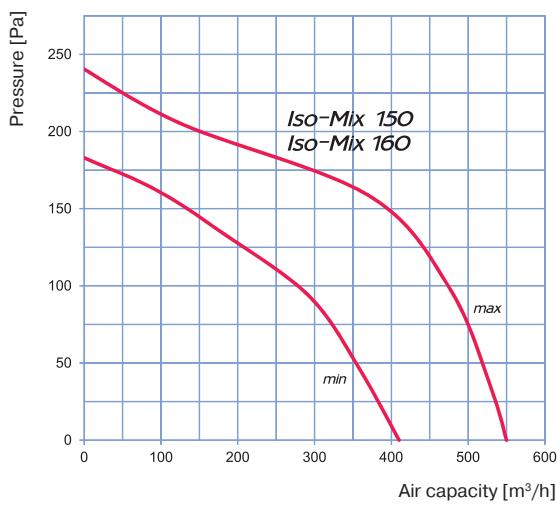
■ Specifications

Parameters	Iso-Mix 100		Iso-Mix 125		Iso-Mix 150 Iso-Mix 160	
Speed	min	max	min	max	min	max
Voltage [V / 50 /60 Hz]	1~ 230		1~ 230		1~ 230	
Power [W]	24	26	25	30	45	52
Current [A]	0,10	0,11	0,11	0,13	0,20	0,23
Maximum air capacity [m^3/h]	175	233	235	347	410	550
RPM [min^{-1}]	2015	2610	1660	2315	1985	2640
Sound pressure level at 3 m distance [dBA]	24	29	23	28	26	33
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 _{WA} to inlet, [dBA]	42	19	18	29	35	39	39	31	24
L _{WA} to outlet, [dBA]	45	20	19	30	38	42	35	35	23
L _{WA} to environment, [dBA]	34	15	14	17	25	29	21	22	14

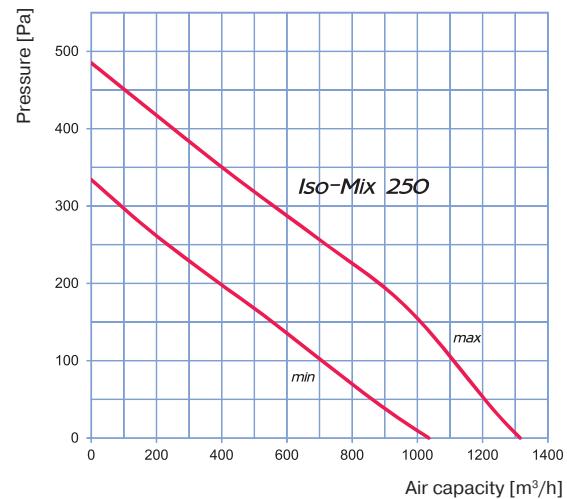
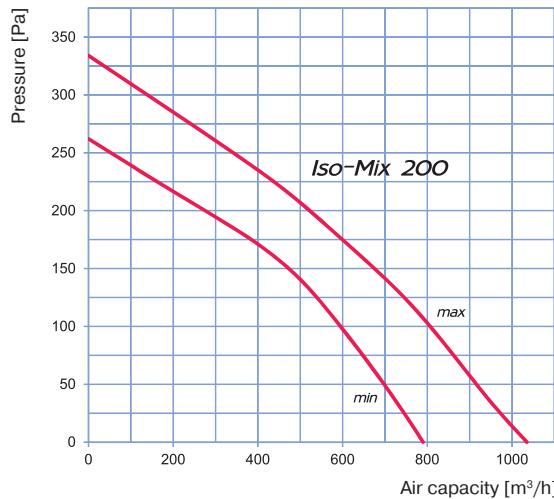
Sound-power level	Octave-frequency band [Hz]								
	Gen	63	125	250	500	1000	2000	4000	8000
L _{WA} to inlet, [dBA]	47	19	21	35	38	42	41	35	28
L _{WA} to outlet, [dBA]	46	21	24	35	39	41	43	37	29
L _{WA} to environment, [dBA]	35	17	20	23	27	28	22	21	15



Sound-power level	Octave-frequency band [Hz]								
	Gen	63	125	250	500	1000	2000	4000	8000
L _{WA} to inlet, [dBA]	61	25	33	49	55	53	55	53	39
L _{WA} to outlet, [dBA]	59	35	36	51	55	55	55	50	42
L _{WA} to environment, [dBA]	39	19	22	39	35	36	33	24	21

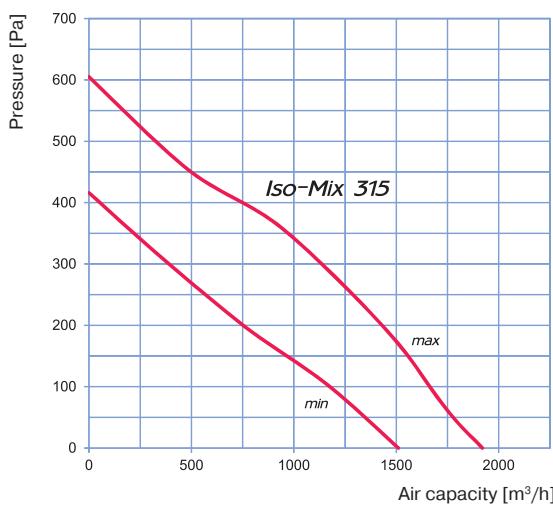
■ Specifications

Parameters	Iso-Mix 200		Iso-Mix 250		Iso-Mix 315	
Speed	min	max	min	max	min	max
Voltage [V / 50 /60 Hz]	1~ 230		1~ 230		1~ 230	
Power [W]	78	110	127	178	213	313
Current [A]	0,35	0,49	0,52	0,79	0,93	1,41
Maximum air capacity [m ³ /h]	790	1035	1035	1315	1510	1920
RPM [min ⁻¹]	2000	2460	1960	2460	2120	2620
Sound pressure level at 3 m distance [dBA]	31	36	34	38	36	40
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 _{WA} to inlet, [dBA]	62	26	38	54	57	58	55	52	48
L _{WA} to outlet, [dBA]	65	28	42	48	62	60	62	50	44
L _{WA} to environment, [dBA]	45	22	30	31	38	41	42	29	22

Sound-power level	Octave-frequency band [Hz]								
	Gen	63	125	250	500	1000	2000	4000	8000
L _{WA} to inlet, [dBA]	65	29	41	57	60	61	58	55	51
L _{WA} to outlet, [dBA]	75	31	45	58	65	73	65	53	47
L _{WA} to environment, [dBA]	55	25	33	48	41	53	49	41	29



Sound-power level	Octave-frequency band [Hz]								
	Gen	63	125	250	500	1000	2000	4000	8000
L _{WA} to inlet, [dBA]	69	35	47	62	61	64	67	58	55
L _{WA} to outlet, [dBA]	75	40	53	69	69	70	65	55	51
L _{WA} to environment, [dBA]	58	25	32	41	51	55	52	49	37