BLAUBERG
NORTH AMERICA

Iso-Mix
Sound-insulated inline mixed-flow fans

Use

- Supply and extract 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 ∅ 4" up to ∅ 12 3/8" air ducts.

Air flow: up to 1050 CFM

Power: from 22 W

Noise level: from 0.3 Sones

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 13 ft 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**).

Accessories

Silencer	Panel filter	Pocket filter	Backdraft air damper	Air damper	Clamp
SD	KFBK	KFBT	VRV	VKA	K

Designation key

Series	Duct diameter [mm]	Options
Iso-Mix	100; 125; 150; 200; 250; 315	**T:** turn-off delay timer adjustable from 2 to 30 min.
		US: three-position speed switch integrated in the fan.
		FR: built-in smooth speed controller adjustable from 0 to 100 %. The fan is supplied with a pre-wired cable with IEC plug as a standard.
		FR1: built-in smooth speed controller adjustable from 0 to 100 %. The fan is supplied with a pre-wired cable with a standard electric plug.
		G: smooth speed controller with an electronic thermostat and an external temperature sensor that is fixed on 13 ft cable. The fan is supplied with a pre-wired cable with IEC plug as a standard.
		G1: smooth speed controller with an electronic thermostat and an external temperature sensor that is fixed on 13 ft cable. The fan is supplied with a pre-wired power cable with a standard plug.
		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.
		GI1: 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 a standard electric plug.
		W: the fan is equipped with a pre-wired power cable and IEC plug as a standard.
		W1: the fan is equipped with a pre-wired power cable and a standard electric plug.

Overall dimensions [in]

Type	Duct dia	ØD	B	B1	L	H
Iso-Mix 100	4"	3 7/8"	8 7/16"	9 9/16"	19 7/8"	9 5/16"
Iso-Mix 125	5"	4 13/16"	8 7/16"	9 9/16"	18 11/16"	9 5/16"
Iso-Mix 150	6"	5 13/16"	9 3/4"	10 13/16"	22 13/16"	10 1/4"
Iso-Mix 200	8"	7 13/16"	11 9/16"	15 3/16"	20 7/16"	11 5/8"
Iso-Mix 250	10"	9 3/4"	14 1/16"	17 1/2"	25 3/16"	14 3/16"
Iso-Mix 315	12 3/8"	12 5/16"	17"	20 1/2"	31 7/8"	17 1/16"
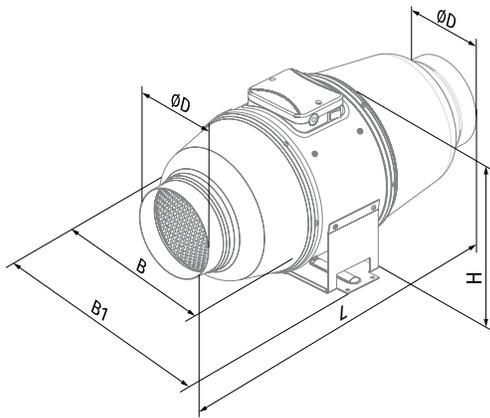
Iso-Mix 100 – Iso-Mix 150
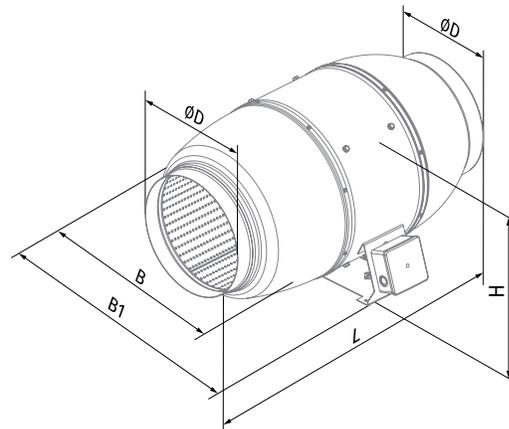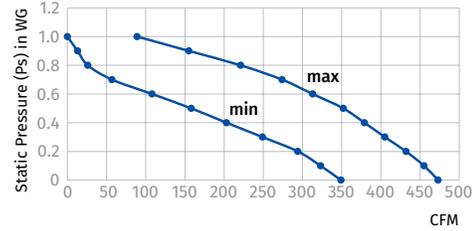

Iso-Mix 200 – Iso-Mix 315

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Technical data

Model	Duct dia	Speed	RPM*	Sones	Watts*	Amps*	CFM vs. Static Pressure (Ps) in WG											Volts/Hz
							0"	0.1"	0.2"	0.3"	0.4"	0.5"	0.6"	0.7"	0.8"	0.9"	1"	
Iso-Mix 100	4"	high	2363	1.2	28	0.24	128	113	97	76	56	32	10	-	-	-	-	120/60
		low	2065	0.3	22	0.2	99	81	62	40	12	-	-	-	-	-	-	
Iso-Mix 125	5"	high	2303	0.9	35	0.3	188	174	158	130	94	60	30	0	-	-	-	120/60
		low	1990	0.4	23	0.22	116	90	68	38	0	-	-	-	-	-	-	
Iso-Mix 150	6"	high	2570	2.0	67	0.55	327	314	299	284	266	245	224	190	140	89	48	120/60
		low	1847	0.7	53	0.45	240	220	192	171	135	111	86	56	28	5	-	
Iso-Mix 200	8"	high	2303	2.0	111	0.93	473	455	432	405	379	352	313	274	221	155	89	120/60
		low	1990	0.7	70	0.58	349	323	294	249	203	158	108	57	26	13	0	
Iso-Mix 250	10"	high	2570	4.0	200	1.68	880	874	866	858	850	842	832	821	794	751	708	120/60
		low	1847	2.0	130	1.11	655	648	630	608	587	565	531	497	450	390	330	
Iso-Mix 315	12 3/8"	high	2570	3.5	353	2.95	1050	1026	999	971	942	914	884	853	823	794	764	120/60
		low	1847	2.0	236	1.95	830	804	770	726	682	638	581	524	464	399	335	

* The parameters RPM, Watts, Amps are indicated at 0.2 in WG static pressure.

ISO-MIX 100
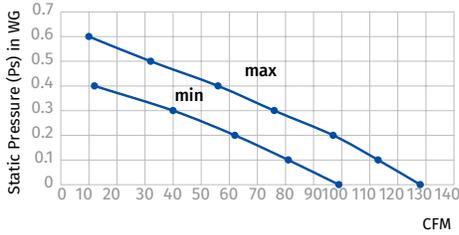
ISO-MIX 200

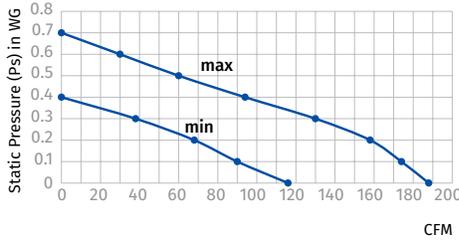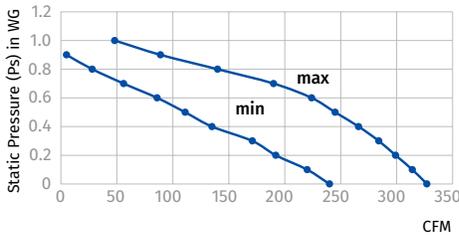### ISO-MIX 125

ISO-MIX 250

ISO-MIX 150

ISO-MIX 315