

# Iso-B

## Sound-insulated centrifugal fans

### Use

- Supply and extract ventilation systems installed in premises with high requirements to the noise level.
- Compatible with Ø100 up to 315 mm round air ducts.
- Suitable for limited mounting space.



**Air flow:**  
up to 2150 m³/h  
597 l/s



**Power:**  
from 72 W



**Noise level:**  
from 33 dBA



### Design

- Galvanized steel casing internally filled with 30 mm thermal- and sound-insulating layer made of non-flammable foamed polyurethane.
- The connection spigots are equipped with rubber seals.
- Fixing brackets for easy mounting.

### Motor

- Two-pole external rotor asynchronous motor with centrifugal impeller and backward curved blades.
- The motor is installed on specially designed vibration-damping mounts to absorb vibration and noise.
- Equipped with ball bearings for longer service life.
- Integrated thermal protection with automatic restart.
- Dynamically balanced turbine.

### Speed control

- Smooth speed control with an external thyristor controller or step speed control with an external auto transformer (both available upon separate order).

### Mounting

- Fixed to wall or ceiling with a fixing bracket supplied as a standard.
- Flexible air ducts are fixed on the fan spigots with clamps.
- Power is supplied through an external terminal box.

### Modifications and options

- G:** temperature and speed controller with external temperature sensor fixed on 4 m cable. The fan is equipped with a power cord with a socket or a plug (**G1**).
- G1:** temperature and speed controller with a sensor built into the fan casing. The fan is equipped with a power cord with a socket or plug (**G11**). G and G1 options are used for automatic speed control depending on indoor temperature. The best ventilation solution for the premises requiring permanent temperature control as greenhouses, orangeries, etc.
- W:** the fan is equipped with a power cord and a socket or plug (**W1**).
- max:** high-powered motor.

### Designation key

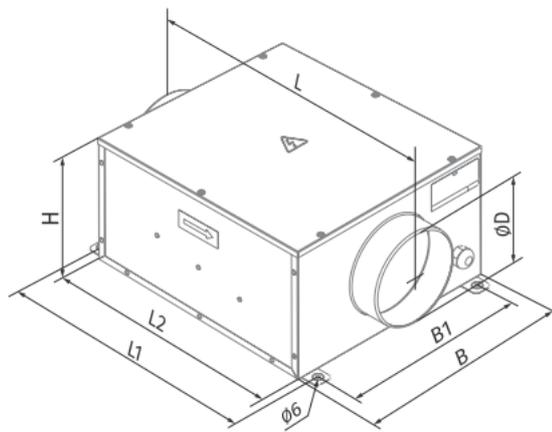
Series	Spigot diameter [mm]	Options	Motor modifications
Iso-B	100; 125; 150; 160; 200; 250; 315	<p><b>G:</b> smooth speed controller with an electronic thermostat and an external temperature sensor that is fixed on 4 m cable. The fan is supplied with a pre-wired cable with IEC plug as a standard.</p> <p><b>G1:</b> 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 a standard plug.</p> <p><b>G1:</b> 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.</p> <p><b>G11:</b> 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.</p> <p><b>W:</b> the fan is equipped with a pre-wired power cable and IEC plug as a standard.</p> <p><b>W1:</b> the fan is equipped with a pre-wired power cable and a standard electric plug.</p>	<b>max:</b> high-powered motor

### Accessories

Silencer	Panel filter	Pocket filter	Electric heater	Water heater	Backdraft air damper	Air damper	Speed controller	Timer / Sensor
SD	KFBK	KFBT	EKH	WKH	VRV	VKA	CDT E1.8	TE(TI)/HSE(HSI)/LSE(LSI)/IRSE(IRSI)

**Overall dimensions [mm]**

Type	ØD	B	B1	H	L	L1	L2	Weight [kg]
Iso-B 100	99	322	280	192	447	380	350	5.4
Iso-B 125	124	322	280	192	447	380	350	5.4
Iso-B 150	149	352	310	212	477	410	380	6.4
Iso-B 160	159	352	310	212	477	410	380	6.4
Iso-B 200	199	432	368	287	588	506	480	10.0
Iso-B 200 max	199	432	368	287	588	506	480	12.0
Iso-B 250	249	432	368	287	588	506	480	12.5
Iso-B 315	314	502	438	397	648	566	540	15.5

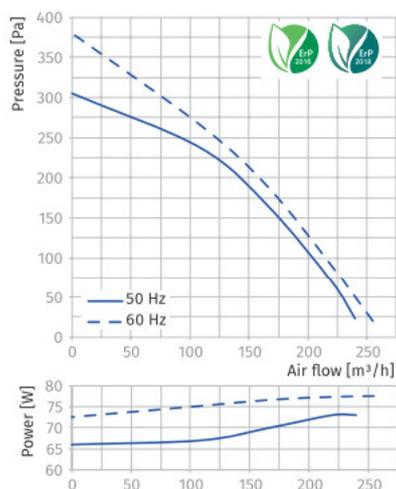


**Technical data**

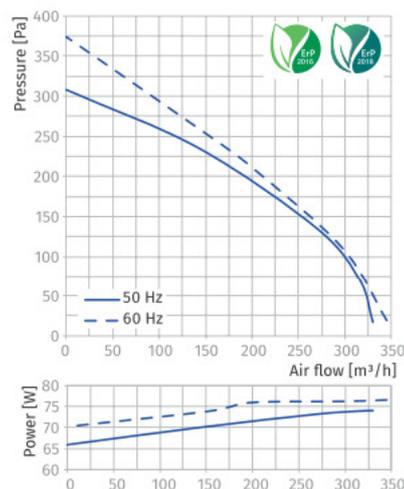
Parameters	Iso-B 100		Iso-B 125		Iso-B 150		Iso-B 160	
Voltage [V]	230		230		230		230	
Frequency [Hz]	50	60	50	60	50	60	50	60
Power [W]	73	77	73	77	72	76	75	76
Current [A]	0,32	0,34	0,32	0,34	0,32	0,33	0,33	0,33
Maximum air flow [m <sup>3</sup> /h (l/s)]	240 (67)	255 (71)	330 (92)	345 (96)	420 (117)	435 (121)	420 (117)	435 (121)
RPM [min <sup>-1</sup> ]	2560	2690	2590	2700	2600	2720	2690	2720
Sound pressure at 3 m [dBA]	33	34	35	36	36	37	36	37
Transported air temperature [°C]	-25...+55		-25...+55		-25...+55		-25...+55	
SEC class	C		C		C		C	
Ingress protection rating	IPX4		IPX4		IPX4		IPX4	
Motor IP rating	IP44		IP44		IP44		IP44	
ErP	2016, 2018		2016, 2018		2016, 2018		2016, 2018	

**ISO-B 100**

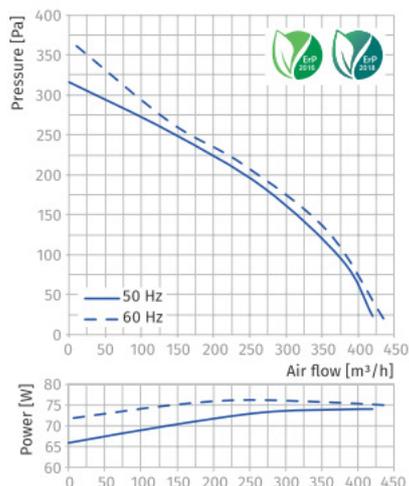
Sound power level, A-weighted	Octave frequency bands [Hz]								
	Gen.	63	125	250	500	1000	2000	4000	8000
LWA to inlet [dBA]	59	53	57	54	52	51	54	51	47
LWA to outlet [dBA]	68	49	50	53	56	66	63	56	54
LWA to environment [dBA]	40	27	29	32	31	34	29	29	20


**ISO-B 125**

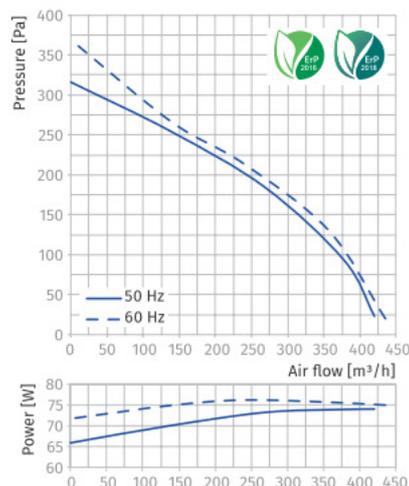
Sound power level, A-weighted	Octave frequency bands [Hz]								
	Gen.	63	125	250	500	1000	2000	4000	8000
LWA to inlet [dBA]	64	51	51	54	56	54	55	53	51
LWA to outlet [dBA]	65	50	49	59	55	61	61	58	51
LWA to environment [dBA]	38	29	32	33	33	33	31	28	25


**ISO-B 150**

Sound power level, A-weighted	Octave frequency bands [Hz]								
	Gen.	63	125	250	500	1000	2000	4000	8000
LWA to inlet [dBA]	62	49	50	58	56	54	55	52	50
LWA to outlet [dBA]	66	43	44	59	55	62	60	55	53
LWA to environment [dBA]	41	26	30	35	34	34	30	26	25


**ISO-B 160**

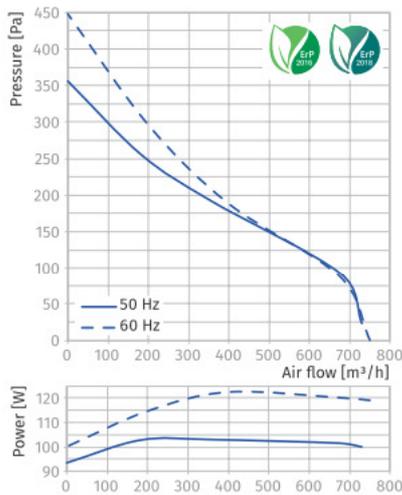
Sound power level, A-weighted	Octave frequency bands [Hz]								
	Gen.	63	125	250	500	1000	2000	4000	8000
LWA to inlet [dBA]	62	50	51	60	56	52	55	54	51
LWA to outlet [dBA]	68	48	47	57	60	67	63	59	56
LWA to environment [dBA]	41	28	26	32	33	36	34	25	23



Parameters	Iso-B 200		Iso-B 200 max		Iso-B 250		Iso-B 315	
Voltage [V]	230		230		230		230	
Frequency [Hz]	50	60	50	60	50	60	50	60
Power [W]	103	122	195	232	198	238	322	367
Current [A]	0,45	0,53	0,85	1,02	0,87	1,04	1,4	1,6
Maximum air flow [m³/h (l/s)]	730 (203)	750 (208)	950 (264)	960 (267)	1300 (361)	1315 (365)	2150 (597)	2150 (597)
RPM [min⁻¹]	2550	2740	2570	2690	2420	2730	2670	2850
Sound pressure at 3 m [dBA]	38	39	41	42	41	43	43	44
Transported air temperature [°C]	-25...+50	-25...+45	-25...+45	-25...+45	-25...+50	-25...+45	-25...+45	-25...+45
SEC class	B		B		-		-	
Ingress protection rating	IPX4		IPX4		IPX4		IPX4	
Motor IP rating	IP44		IP44		IP44		IP44	
ErP	2016, 2018		2016, 2018		2016		2016	

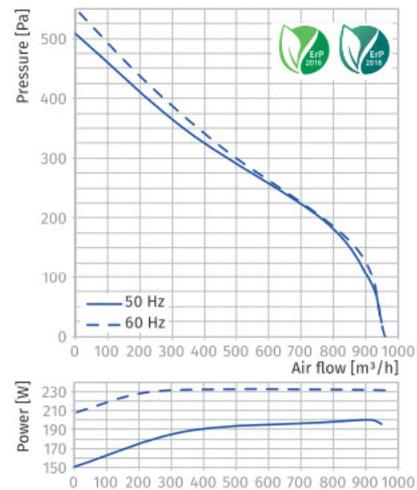
### ISO-B 200

Sound power level, A-weighted	Octave frequency bands [Hz]								
	Gen.	63	125	250	500	1000	2000	4000	8000
L <sub>WA</sub> to inlet [dBA]	52	37	38	45	45	39	39	36	26
L <sub>WA</sub> to outlet [dBA]	67	49	46	55	64	59	60	53	41
L <sub>WA</sub> to environment [dBA]	43	33	35	33	38	25	31	25	25



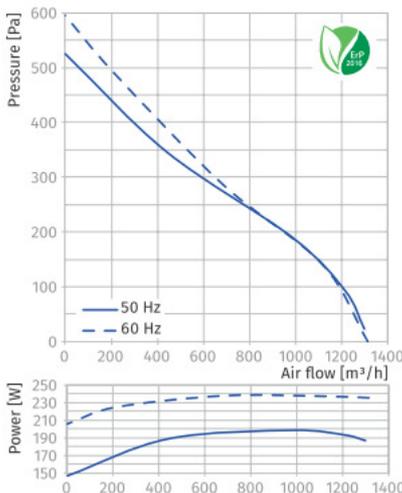
### ISO-B 200 MAX

Sound power level, A-weighted	Octave frequency bands [Hz]								
	Gen.	63	125	250	500	1000	2000	4000	8000
L <sub>WA</sub> to inlet [dBA]	53	41	43	53	51	47	44	44	36
L <sub>WA</sub> to outlet [dBA]	70	48	49	57	68	65	63	58	51
L <sub>WA</sub> to environment [dBA]	45	29	32	37	40	27	29	26	27



### ISO-B 250

Sound power level, A-weighted	Octave frequency bands [Hz]								
	Gen.	63	125	250	500	1000	2000	4000	8000
L <sub>WA</sub> to inlet [dBA]	59	44	45	54	51	47	45	45	38
L <sub>WA</sub> to outlet [dBA]	74	51	51	62	70	67	64	61	55
L <sub>WA</sub> to environment [dBA]	46	33	36	41	42	30	26	23	27



### ISO-B 315

Sound power level, A-weighted	Octave frequency bands [Hz]								
	Gen.	63	125	250	500	1000	2000	4000	8000
L <sub>WA</sub> to inlet [dBA]	59	45	47	56	47	48	50	44	40
L <sub>WA</sub> to outlet [dBA]	75	52	51	59	68	68	65	62	54
L <sub>WA</sub> to environment [dBA]	48	41	41	44	43	36	28	32	29

