

Box

Inline centrifugal fans

Use

- Supply and extract ventilation systems installed in small premises.
- Mounting in limited space.
- Compatible with \varnothing 100 up to 160 mm round air ducts.



Air flow:
up to 553 m³/h
154 l/s



Power:
from 58 W



Noise level:
from 47 dBA



Design

- Compact steel casing covered with special polymer coating.
- Casing height from 110 up to 175 mm depending on the modification.
- Aerodynamically shaped casing.
- External terminal block for power supply.
- A hinged cover plate provides easy access to the motor with no need to dismantle the fans and air ducts.
- The connection spigots are equipped with rubber seals.

Motor

- Single-phase external rotor motor with a centrifugal impeller and backward curved blades.
- Equipped with ball bearings for longer service life.
- Integrated thermal protection with automatic restart.
- Dynamically balanced impeller.

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

- Due to compact design the fan is the ideal solution for mounting in limited spaces, including the space behind false ceiling.
- Any mounting position.
- Wall or ceiling mounting with a fixing bracket supplied as a standard.
- Flexible air ducts are fixed on the fan spigots with clamps.



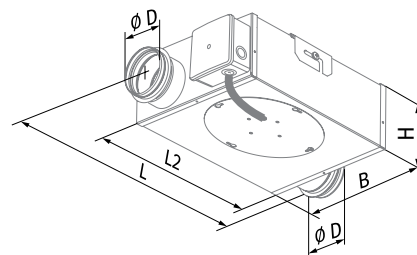
INLINE FANS

Designation key

Series	Spigot diameter [mm]
Box	100; 125; 150; 160

Overall dimensions [mm]

Type	\varnothing D	B	H	L	L2	Weight [kg]
Box 100	99	252	133	420	321	4.65
Box 125	124	252	133	420	321	4.55
Box 150	149	300	170	480	382	6.35
Box 160	159	300	170	480	382	6.6



Accessories

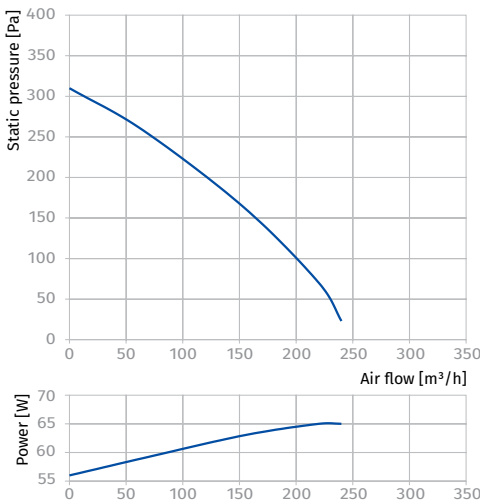
Silencers	Filter boxes	Electric heaters	Water heaters	Backdraft air dampers	Air dampers	Clamps	Speed controllers
							
SD	KFBK / KFBT	EKH	WKH	VRV	VK / VKA	KZ	CDT E1.8

Technical data

Parameters	Box 100	Box 125	Box 150	Box 160
Voltage [V]	1 ~ 230	1 ~ 230	1 ~ 230	1 ~ 230
Frequency [Hz]	50/60	50/60	50/60	50/60
Power [W]	58	58	85	85
Current [A]	0.26	0.26	0.38	0.38
Maximum air flow [m³/h (l/s)]	240 (67)	340 (94)	553 (154)	553 (154)
RPM [min⁻¹]	2500	2500	2600	2600
Sound pressure at 3 m [dBA]	47	48	50	50
Transported air temperature [°C]	-25...+50	-25...+50	-25...+40	-25...+40
SEC class	C	B	B	B
IP rating	IPX4	IPX4	IPX4	IPX4
Motor IP rating	IP44	IP44	IP44	IP44
ErP	2018	2018	2018	2018

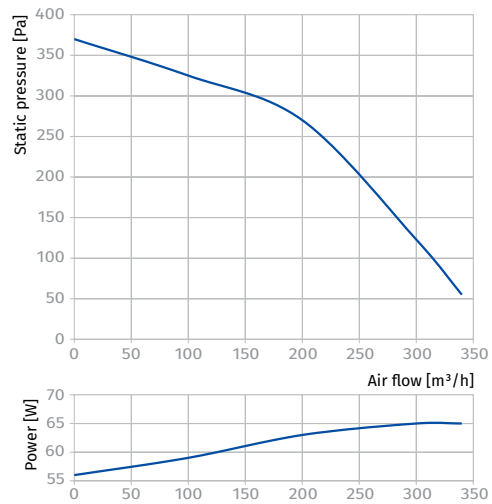
BOX 100

Sound power level, A-weighted	Total	Octave frequency bands [Hz]							
		63	125	250	500	1000	2000	4000	8000
LWA to inlet [dBA]	58	53	55	53	51	51	54	53	48
LWA to outlet [dBA]	66	51	51	54	56	64	61	56	52
LWA to environment [dBA]	51	38	37	42	43	46	41	40	32



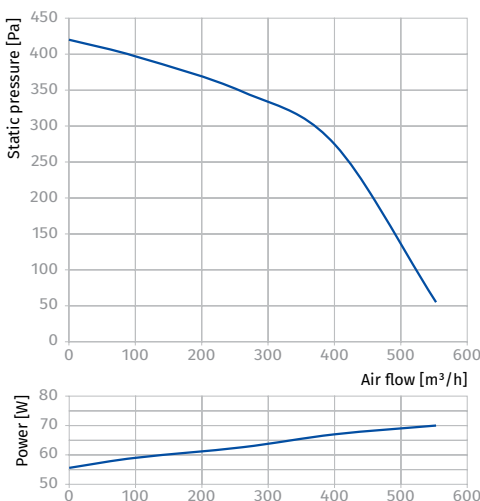
BOX 125

Sound power level, A-weighted	Total	Octave frequency bands [Hz]							
		63	125	250	500	1000	2000	4000	8000
LWA to inlet [dBA]	63	53	51	56	56	53	54	51	49
LWA to outlet [dBA]	65	49	49	59	57	62	61	56	53
LWA to environment [dBA]	48	38	40	42	41	43	42	37	33



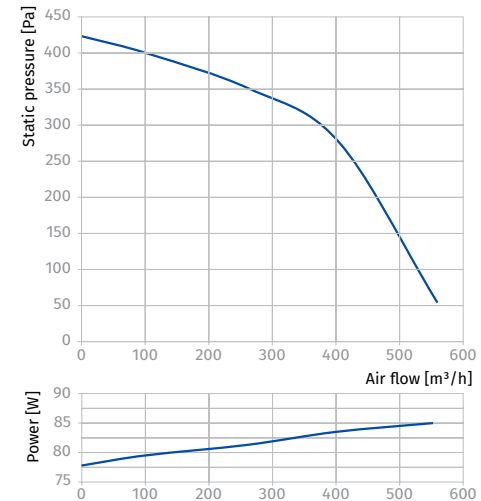
BOX 150

Sound power level, A-weighted	Total	Octave frequency bands [Hz]							
		63	125	250	500	1000	2000	4000	8000
LWA to inlet [dBA]	62	51	51	58	56	54	54	52	51
LWA to outlet [dBA]	66	45	46	60	56	61	61	55	54
LWA to environment [dBA]	49	36	38	44	44	42	41	38	35



BOX 160

Sound power level, A-weighted	Total	Octave frequency bands [Hz]							
		63	125	250	500	1000	2000	4000	8000
LWA to inlet [dBA]	64	52	51	59	57	54	55	54	50
LWA to outlet [dBA]	69	47	46	58	59	65	61	57	55
LWA to environment [dBA]	52	40	37	42	43	44	43	36	33



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