

Box-R

Inline centrifugal fans

Use

- Supply and extract ventilation systems installed in small premises.
- High-pressure inline fan for ventilation systems installed in multi-level buildings and premises.
- Mounting in limited space.
- For multiport extract ventilation from several premises.
- Compatible with \varnothing 80 up to 200 mm round air ducts.



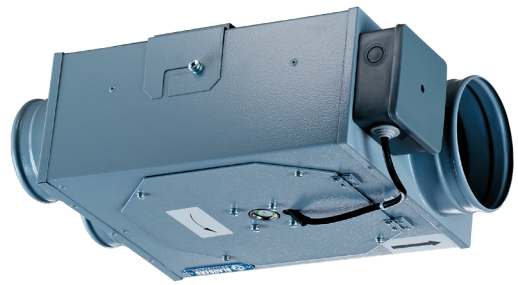
Air flow:
up to 783 m³/h
218 l/s



Power:
from 20 W



Noise level:
from 32 dBA



Design

- Steel supercompact casing covered with special polymer coating.
- Minimum casing height is only 90 mm.
- Aerodynamically shaped casing.
- External terminal block for power supply.
- Swivel cover provides easy access to the motor.
- Various casing modifications include from 1 to 6 inlet spigots.
- The connection spigots are equipped with rubber seals.

Motor

- Single-phase three-speed external rotor motor with a centrifugal impeller made of galvanized steel.
- Impeller with forward curved blades for high pressure in the ductwork system.
- turbine is designed to maintain permanent air flow irrespective of air resistance fluctuations in the ductworks.
- Equipped with ball bearings for longer service life.
- Integrated thermal protection with automatic restart.
- Dynamically balanced turbine.

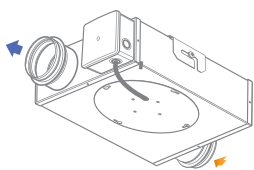
Speed control

- Automatic fan speed control as a function of air resistance in the ductwork system provides permanent air flow rate.
- Three-button speed switch provides manual speed control. Available upon order.
- Smooth or step speed control with a thyristor or autotransformer speed controller (available upon order) connected to the maximum speed terminal of the motor.

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.

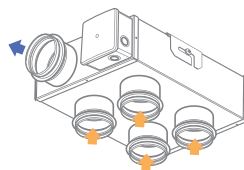
Modifications



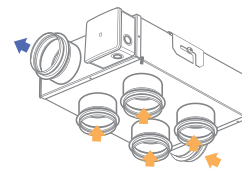
1 inlet pipe
 \varnothing 80 or 100 mm



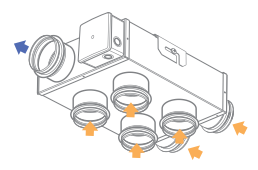
2 inlet pipes
 \varnothing 80 or 100 mm



4 inlet pipes
 \varnothing 80 or 100 mm



5 inlet pipes
 \varnothing 80 or 100 mm



6 inlet pipes
 \varnothing 80 or 100 mm

Designation key

Series	Outlet spigot diameter [mm]	Inlet spigot diameter [mm]	Number of inlet spigots	Motor modifications
Box-R	80; 100; 125; 150; 200	/ 80; 100; 125; 150; 200	x _ 1 (by default); 2; 4; 5; 6	max: high-powered motor V2: two-speed motor

Accessories

Backdraft air damper	Air damper	Clamp	Temperature controller	Speed controller	Timer / Sensor
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VRV



VKA



K



MLCD E2



CDP

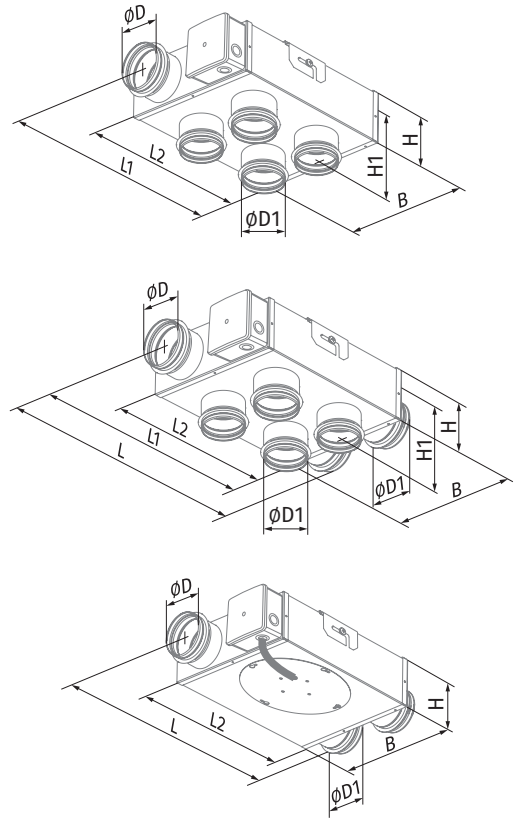


TE(TI)/SE(HSI)/LSE(LSI)/IRSE(IRSI)

INLINE FANS

Overall dimensions [mm]

Type	ØD	ØD1	B	H	H1	L	L1	L2	Weight [kg]
Box-R 80	79	79	260	90	-	352	-	253	3.2
Box-R 80/80x2	79	2x79	260	90	-	352	-	253	3.1
Box-R 80/80x4	79	2x79	260	90	150	-	302	253	3.4
Box-R 80/80x5	79	5x79	260	90	150	352	-	253	3.5
Box-R 80/80x6	79	6x79	260	90	150	352	-	253	3.6
Box-R 100	99	99	260	110	-	352	-	253	3.2
Box-R 100/80x2	99	2x79	260	110	-	352	-	253	3.1
Box-R 100/80x4	99	4x79	260	110	170	-	302	253	3.1
Box-R 100/80x5	99	5x79	260	110	170	352	-	253	3.7
Box-R 100/80x6	99	6x79	260	110	150	352	-	253	3.6
Box-R 100/100x2	99	2x99	260	110	-	352	-	253	3.1
Box-R 100/100x4	99	4x99	260	110	170	-	302	253	3.4
Box-R 100/100x5	99	5x99	260	110	170	352	-	253	3.5
Box-R 100/100x6	99	6x99	260	110	170	352	-	253	3.5
Box-R 125	124	124	270	141	-	397	-	299	5.2
Box-R 125 max	124	124	270	141	-	397	-	299	5.8
Box-R 125 V2	124	124	303	152	-	430	-	330	6.0
Box-R 150	149	149	340	207	-	447	-	350	7.1
Box-R 150 V2	149	149	340	207	-	447	-	350	7.7
Box-R 200	198	198	362	222	-	494	-	397	8.8
Box-R 200 V2	198	198	362	222	-	494	-	397	8.8



Technical data

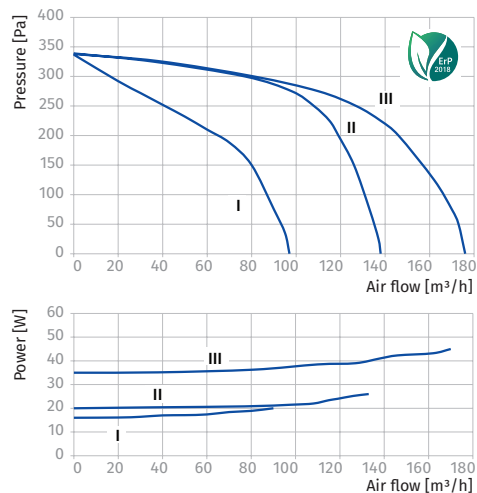
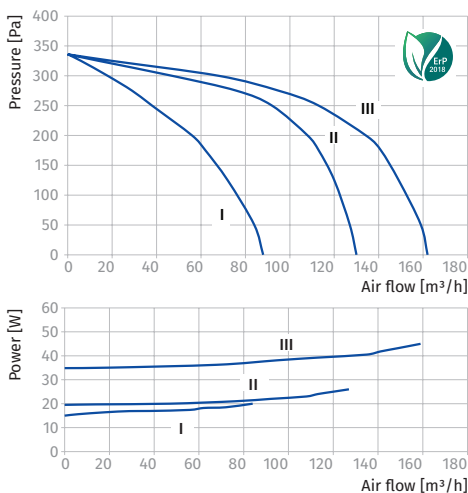
Parameters	Box-R 80			Box-R 100		
	I	II	III	I	II	III
Speed						
Voltage [V / 50 Hz]		1 ~ 230			1 ~ 230	
Power [W]	20	26	45	20	26	45
Current [A]	0.32	0.34	0.4	0.32	0.34	0.4
Maximum air flow [m³/h (l/s)]	88 (24)	130 (36)	162 (45)	97 (27)	138 (38)	176 (49)
RPM [min⁻¹]	1400	1800	2600	1400	1800	2600
Sound pressure at 3 m [dBA]	32	35	43	33	36	44
Max. transported air temperature [°C]		+50			+50	
SEC class		C			C	
Ingress protection rating		IPX4			IPX4	
ErP		2018			2018	

BOX-R 80

Sound power level, A-weighted	Octave frequency band [Hz]								LpA, 3 m [dBA]	LpA, 1 m [dBA]	
	Gen.	63	125	250	500	1000	2000	4000			8000
LWA to inlet [dBA]	74	44	62	61	36	69	69	66	58	54	64
LWA to outlet [dBA]	74	46	56	64	39	68	70	65	59	53	63
LWA to environment [dBA]	64	40	48	48	54	59	57	52	46	43	53

BOX-R 100

Sound power level, A-weighted	Octave frequency band [Hz]								LpA, 3 m [dBA]	LpA, 1 m [dBA]	
	Gen.	63	125	250	500	1000	2000	4000			8000
LWA to inlet [dBA]	76	45	64	62	65	70	71	67	59	55	65
LWA to outlet [dBA]	75	47	57	65	63	69	72	66	60	55	65
LWA to environment [dBA]	65	41	49	55	59	60	58	53	47	44	54



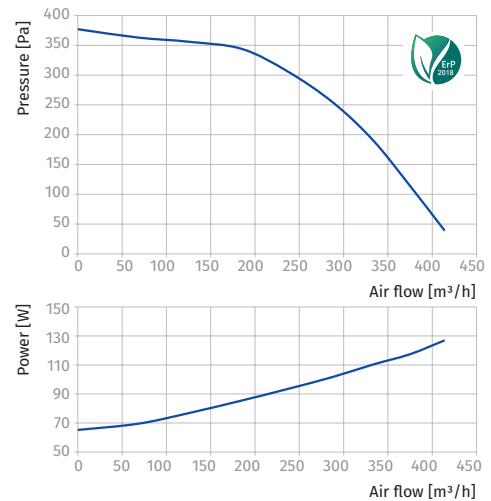
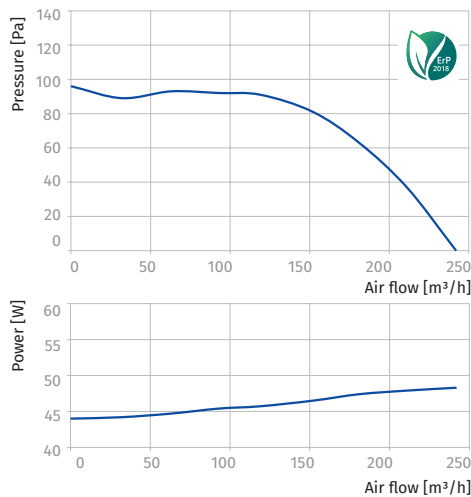
Parameters	Box-R 125	Box-R 125 max	Box-R 125 V2	
Speed	I	I	I	II
Voltage [V / 50 Hz]	1 ~ 230	1 ~ 230	1 ~ 230	
Power [W]	48	127	42	48
Current [A]	0.22	0.55	0.18	0.22
Maximum air flow [m ³ /h (l/s)]	242 (67)	414 (115)	220 (61)	300 (83)
RPM [min ⁻¹]	1430	2800	1960	2610
Sound pressure at 3 m [dBA]	37	47	39	45
Max. transported air temperature [°C]	+50	+50	+50	
SEC class	C	C	C	
Ingress protection rating	IPX4	IPX4	IPX4	
ErP	2018	2018	2018	

BOX-R 125

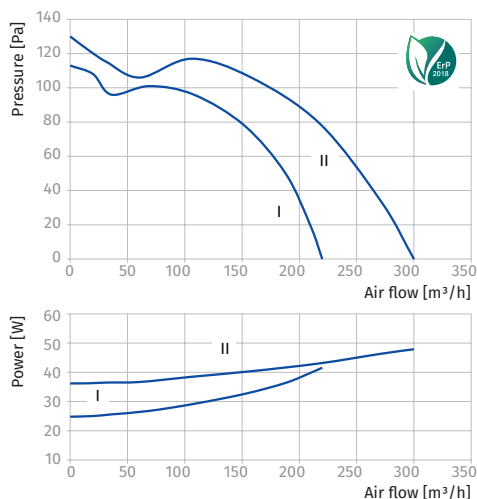
Sound power level, A-weighted	Octave frequency band [Hz]									LpA, 3 m [dBA]	LpA, 1 m [dBA]
	Gen.	63	125	250	500	1000	2000	4000	8000		
L _{WA} to inlet [dBA]	67	39	56	55	57	62	62	59	52	47	57
L _{WA} to outlet [dBA]	67	41	50	57	55	61	63	58	53	46	56
L _{WA} to environment [dBA]	58	36	43	48	52	53	51	47	41	37	47

BOX-R 125 MAX

Sound power level, A-weighted	Octave frequency band [Hz]									LpA, 3 m [dBA]	LpA, 1 m [dBA]
	Gen.	63	125	250	500	1000	2000	4000	8000		
L _{WA} to inlet [dBA]	78	46	66	66	68	73	74	70	61	58	68
L _{WA} to outlet [dBA]	79	50	62	69	66	72	76	71	63	59	69
L _{WA} to environment [dBA]	67	42	51	57	61	62	61	56	49	47	57


BOX-R 125 V2

Sound power level, A-weighted	Octave frequency band [Hz]									LpA, 3 m [dBA]	LpA, 1 m [dBA]
	Gen.	63	125	250	500	1000	2000	4000	8000		
L _{WA} to inlet [dBA]	76	45	64	63	66	70	71	67	59	55	65
L _{WA} to outlet [dBA]	76	47	59	66	63	69	72	68	60	55	65
L _{WA} to environment [dBA]	65	41	50	55	59	60	59	54	47	45	55



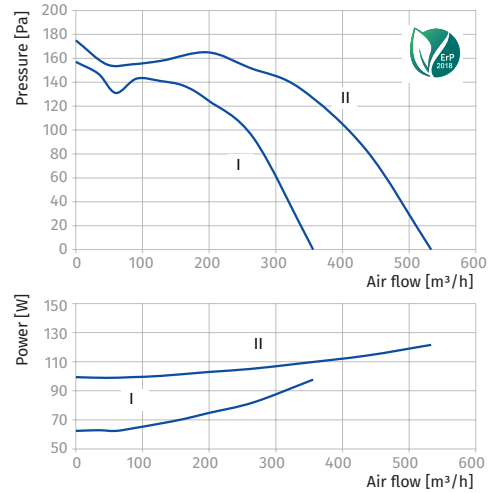
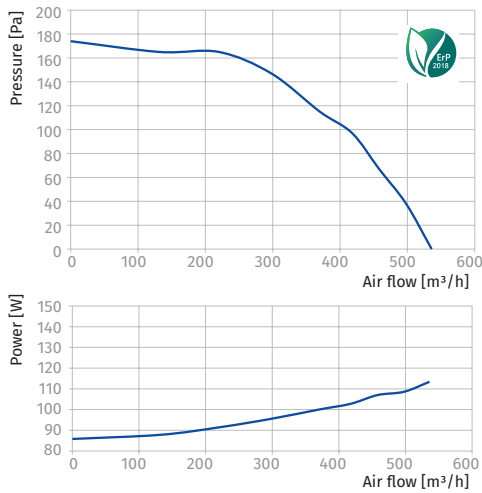
Parameters	Box-R 150	Box-R 150 V2		Box-R 200	Box-R 200 V2	
Speed	I	I	II	I	I	II
Voltage [V / 50 Hz]	1 ~ 230	1 ~ 230		1 ~ 230	1 ~ 230	
Power [W]	113	98	122	139	103	142
Current [A]	0.52	0.43	0.56	0.61	0.45	0.63
Maximum air flow [m³/h (l/s)]	536 (149)	356 (99)	533 (148)	783 (218)	460 (128)	752 (209)
RPM [min⁻¹]	1050	750	870	950	770	1200
Sound pressure at 3 m [dBA]	46	45	46	47	46	48
Max. transported air temperature [°C]	+50	+50		+50	+50	
SEC class	C	C		C	C	
Ingress protection rating	IPX4	IPX4		IPX4	IPX4	
ErP	2018	2018		2018	2018	

BOX-R 150

Sound power level, A-weighted	Octave frequency band [Hz]								LpA, 3 m [dBA]	LpA, 1 m [dBA]	
	Gen.	63	125	250	500	1000	2000	4000			8000
LWA to inlet [dBA]	76	45	64	63	66	70	71	67	59	55	65
LWA to outlet [dBA]	78	48	61	67	65	71	74	70	62	57	67
LWA to environment [dBA]	66	41	50	56	60	61	60	54	48	46	56

BOX-R 150 V2

Sound power level, A-weighted	Octave frequency band [Hz]								LpA, 3 m [dBA]	LpA, 1 m [dBA]	
	Gen.	63	125	250	500	1000	2000	4000			8000
LWA to inlet [dBA]	76	45	64	63	66	70	71	67	59	55	65
LWA to outlet [dBA]	77	49	59	66	65	71	73	68	62	56	66
LWA to environment [dBA]	66	42	49	55	59	61	61	56	45	46	56

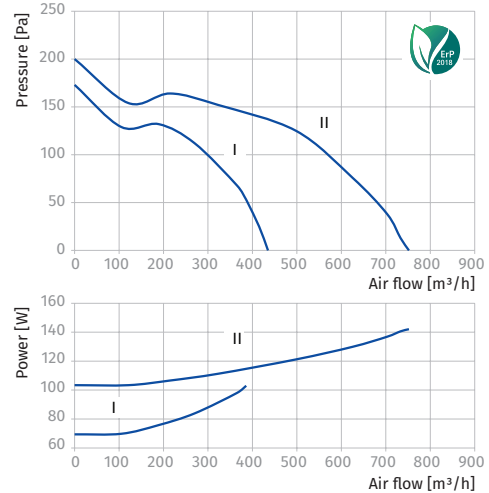
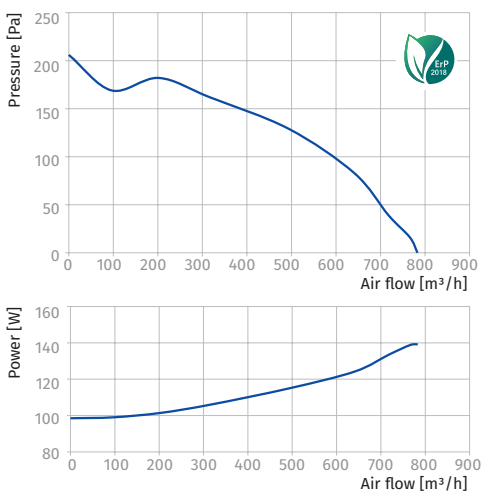


BOX-R 200

Sound power level, A-weighted	Octave frequency band [Hz]								LpA, 3 m [dBA]	LpA, 1 m [dBA]	
	Gen.	63	125	250	500	1000	2000	4000			8000
LWA to inlet [dBA]	79	47	67	66	69	74	75	71	62	59	69
LWA to outlet [dBA]	79	50	60	67	66	73	75	70	63	58	68
LWA to environment [dBA]	67	43	50	56	60	62	62	57	46	47	57

BOX-R 200 V2

Sound power level, A-weighted	Octave frequency band [Hz]								LpA, 3 m [dBA]	LpA, 1 m [dBA]	
	Gen.	63	125	250	500	1000	2000	4000			8000
LWA to inlet [dBA]	80	48	68	67	70	75	76	71	63	60	70
LWA to outlet [dBA]	79	51	61	68	67	74	70	70	63	59	69
LWA to environment [dBA]	68	43	51	57	61	63	58	58	47	48	58



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