



## Inline centrifugal fans

# Box-R

Air capacity – up to 176 m<sup>3</sup>/h



### ■ Use

- ❑ Supply and exhaust 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 exhaust ventilation from several premises.
- ❑ Compatible with Ø 80 up to 100 mm round air ducts.

### ■ 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 suction spigots.
- ❑ Connecting 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.
- ❑ The 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.

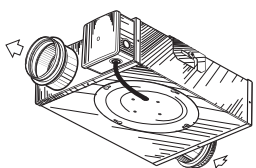
### ■ Speed control

- ❑ 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.

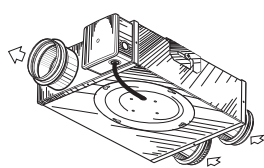
### ■ Mounting

- ❑ 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 fan spigots with clamps.

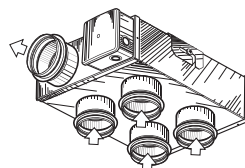
### ■ Modifications:



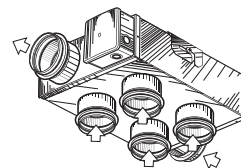
1 suction pipe  
Ø80 or 100 mm



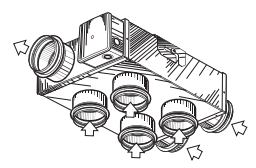
2 suction pipes  
Ø80 or 100 mm



4 suction pipes  
Ø80 or 100 mm





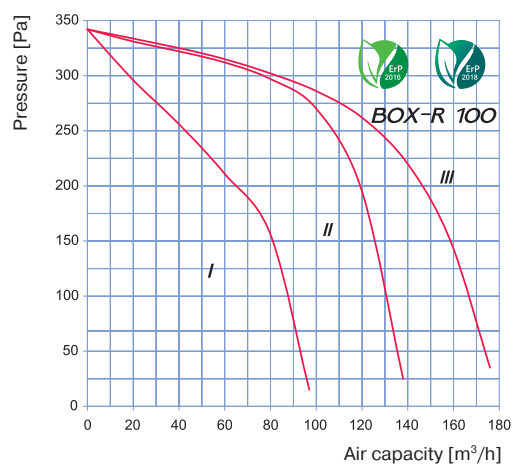
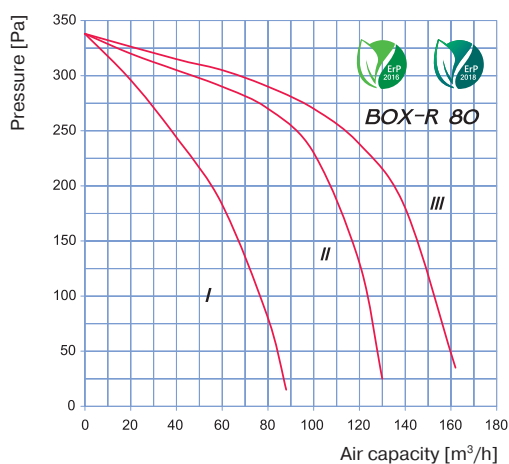
5 suction pipes  
Ø80 or 100 mm



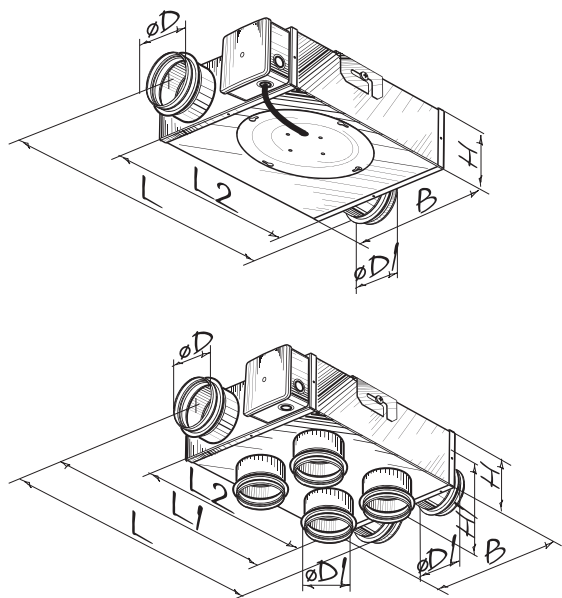
6 suction pipes  
Ø80 or 100 mm

## Specifications

Parameters	Box-R 80 			Box-R 100 		
	1	2	3	1	2	3
Speed						
Voltage [V / 50 Hz]	230	230	230	230	230	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 capacity [m <sup>3</sup> /h]	88	130	162	97	138	176
RPM [min <sup>-1</sup> ]	1400	1800	2600	1400	1800	2600
Sound pressure level at 3 m distance [dBA]	32	35	43	33	36	44
Max. operating temperature [°C]	50	50	50	50	50	50
SEC class	C					
Ingress protection rating	IPX4	IPX4	IPX4	IPX4	IPX4	IPX4



## Overall dimensions



Type	Dimensions [mm]								Weight [kg]
	∅D	∅D1	B	H	H1	L	L1	L2	
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