

Series
VENTS VKP mini



Compact centrifugal fans in steel casing with the air flow up to **783 m³/h** with permanent air flow maintaining at alternating pressure in the system

Applications

Supply and exhaust ventilation systems for various small premises with a limited mounting space. For connection with round ducts from 80 to 200 mm in diameter. Various casing modifications with the number of inlets from 1 to 6 enable using one fan for air exhaust from several premises simultaneously. This makes ventilation system mounting much easier.

Design

The fan casing is made of steel with polymeric coating. The minimum casing height enables fan mounting in a limited space. The removable cover provides free access to the motor, ensures easy mounting and enables the fan and air ducts maintenance without dismounting.

Motor

The centrifugal impeller with backward curved blades for high pressure is powered by means of the single phase three-speed motor with external rotor. The specially designed smart impeller with forward curved blades maintains constant air flow by means of controlling the motor speed depending on air resistance in the air duct.

Motor is equipped with incorporated overheating protection with automatic restart and ball bearings for long service life designed for at least 40 000 hours.

For precise features, safe operation and low noise, each turbine is dynamically balanced while assembly. Motor protection rating IP44.

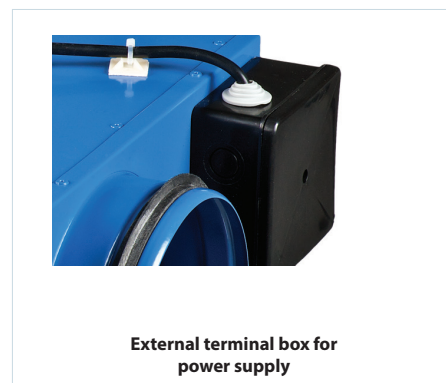
Speed control

The motor speed changes automatically as a function of ventilation system resistance thus ensuring the constant air flow. For smooth or step speed control a thyristor or autotransformer controller can be applied. Motor speed changes automatically as a function of the ventilation system resistance. This ensures constant airflow. If a three-position switch is additionally installed, three speeds of motor can be controlled manually.

Several fans can be connected to one controller in case the total power and operating current do not exceed the controller rated values.

Mounting

Mounting at any angle to the wall is performed with the fastening bracket supplied with the unit. The fan is powered through the external terminal box. Electric connection and mounting shall be performed in compliance with the manual and wiring diagram on the terminal box.



Designation key

Series	Exhaust spigot diameter	Intake spigot diameter	Number of intake spigots	Type
VENTS VKP	80; 100; 125; 150; 200	80; 100; 125; 150; 200	1 (by default); 2; 4; 5; 6	mini

Accessories



Backdraft damper

Air shutter

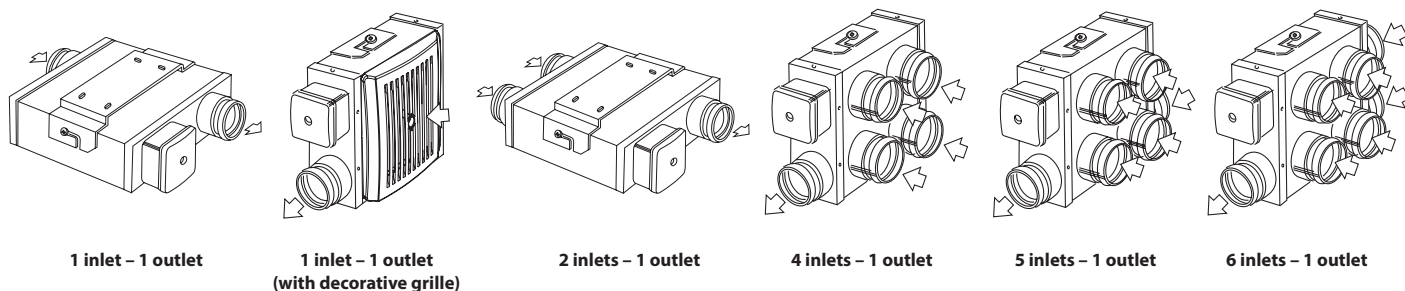
Clamps

Temperature regler

Speed switch

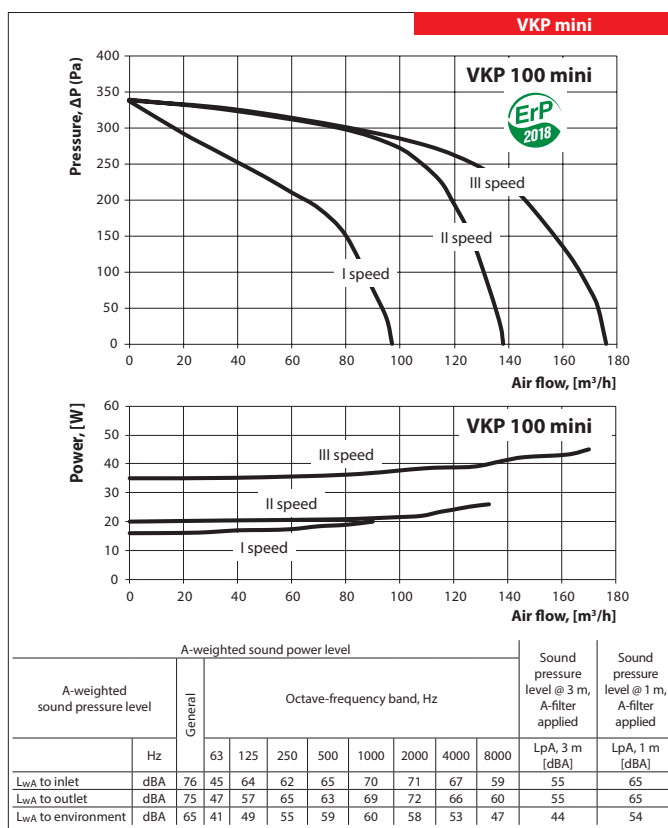
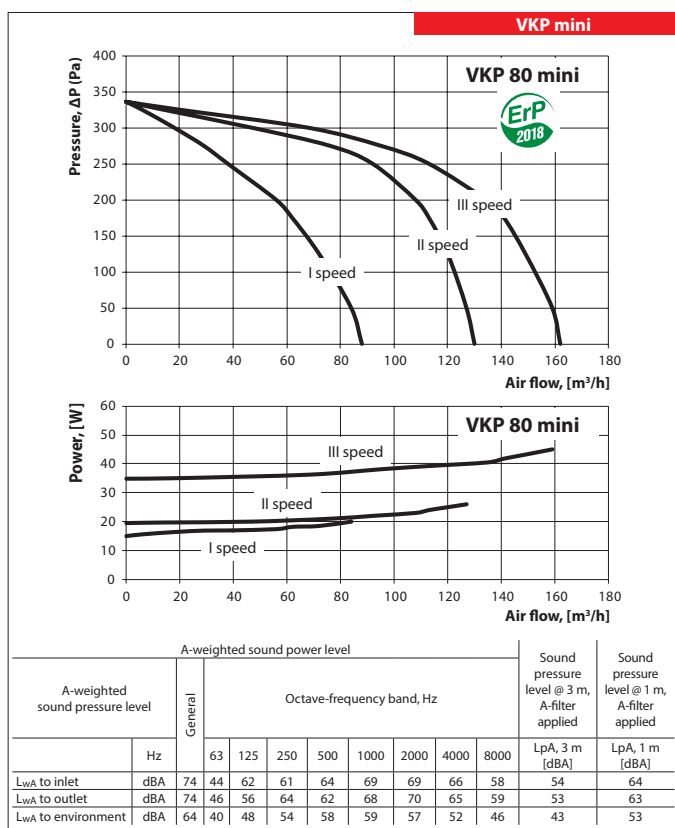
Sensor

VKP mini fan modifications



Technical data

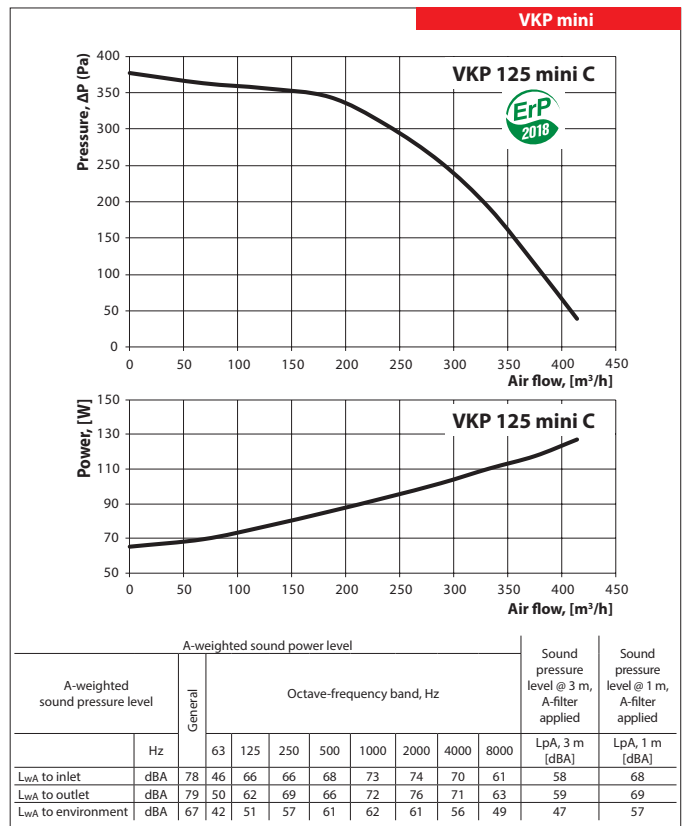
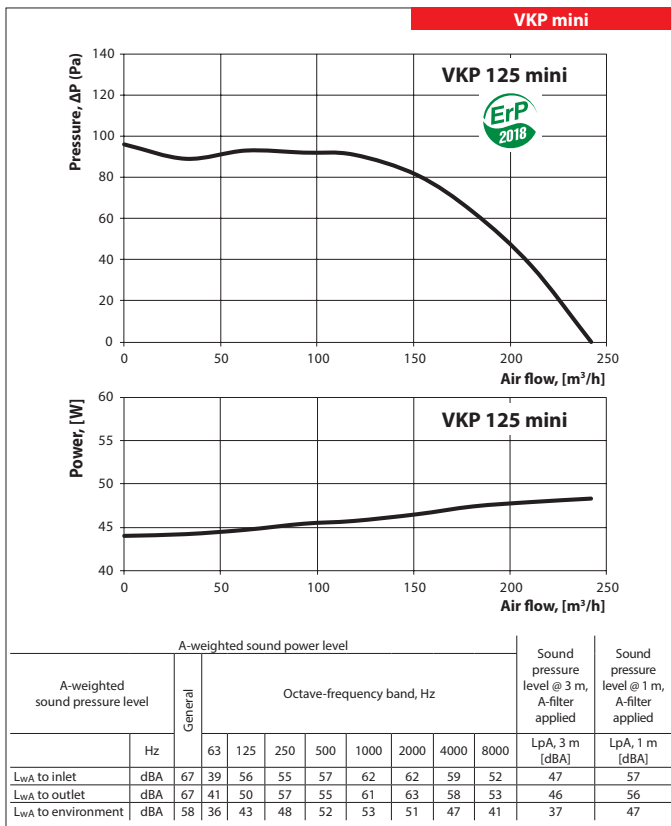
	VKP 80 mini			VKP 100 mini		
	1	2	3	1	2	3
Speed	1	2	3	1	2	3
Voltage [V/50 Hz]	1~230					
Power [W]	20	26	45	20	26	45
Current [A]	0.32	0.34	0.4	0.32	0.34	0.4
Max. air flow [m³/h]	88	130	162	97	138	176
RPM [min ⁻¹]	1400	1800	2600	1400	1800	2600
Sound pressure level at 3 m distance [dBA]	32	35	43	33	36	44
Max. transported air temperature [°C]	+50					
SEC class	C					
Protection rating	IPX4					



FANS FOR ROUND DUCTS

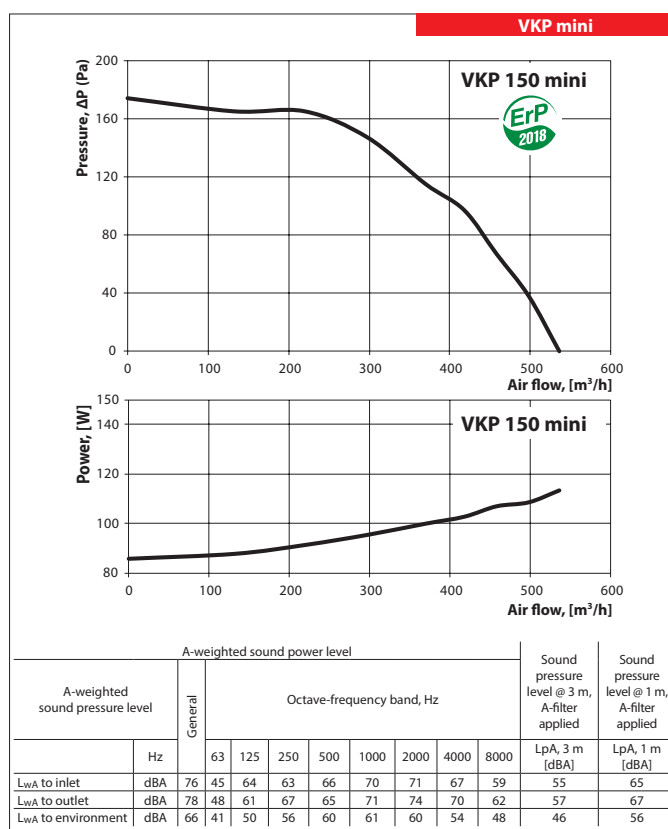
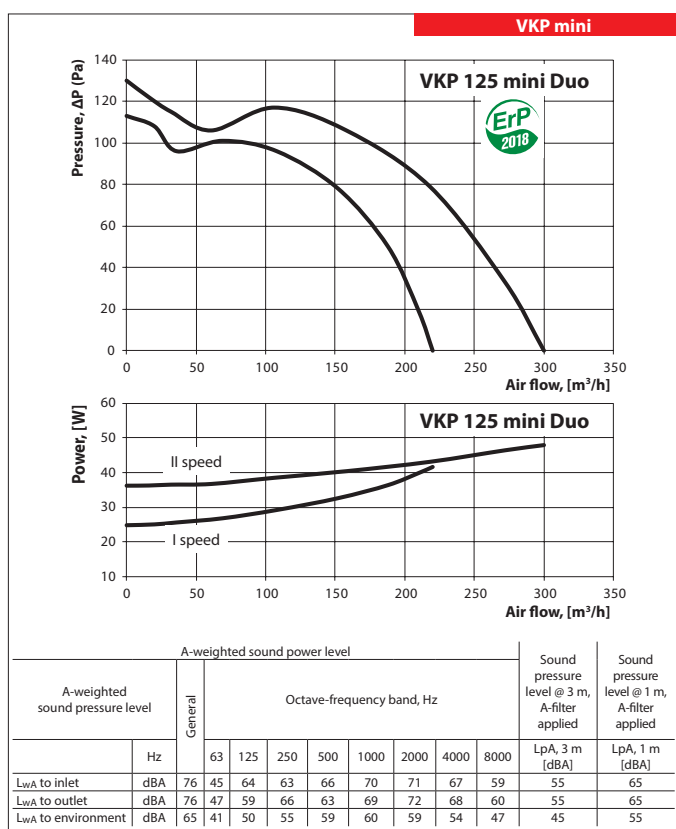
Technical data

	VKP 125 mini	VKP 125 mini C
Speed	1	1
Voltage [V/50 Hz]	1~230	
Power [W]	48	127
Current [A]	0.22	0.55
Max. air flow [m³/h]	242	414
RPM [min⁻¹]	1430	2800
Sound pressure level at 3 m distance [dBA]	37	47
Max. transported air temperature [°C]	+50	
SEC class	C	
Protection rating	IPX4	



Technical data

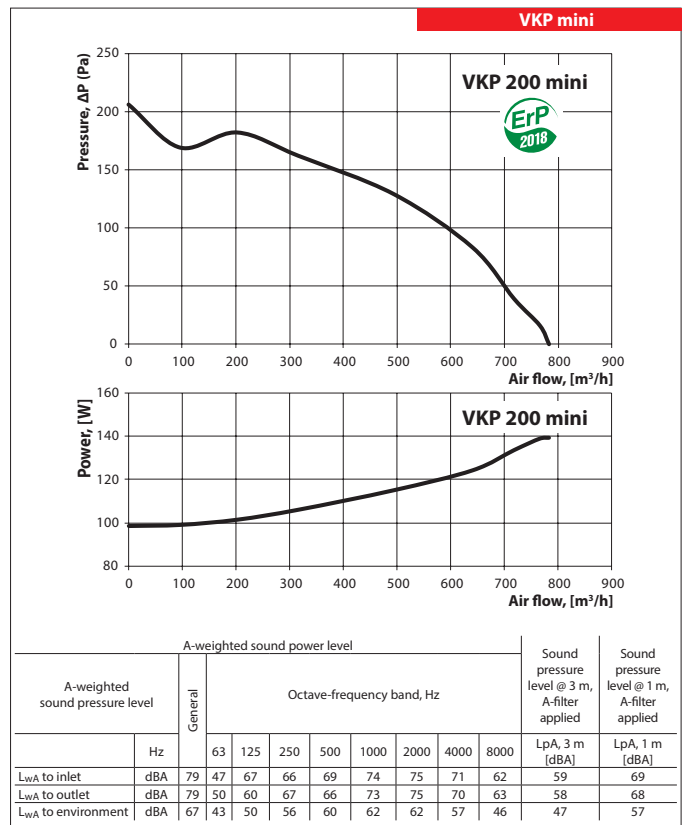
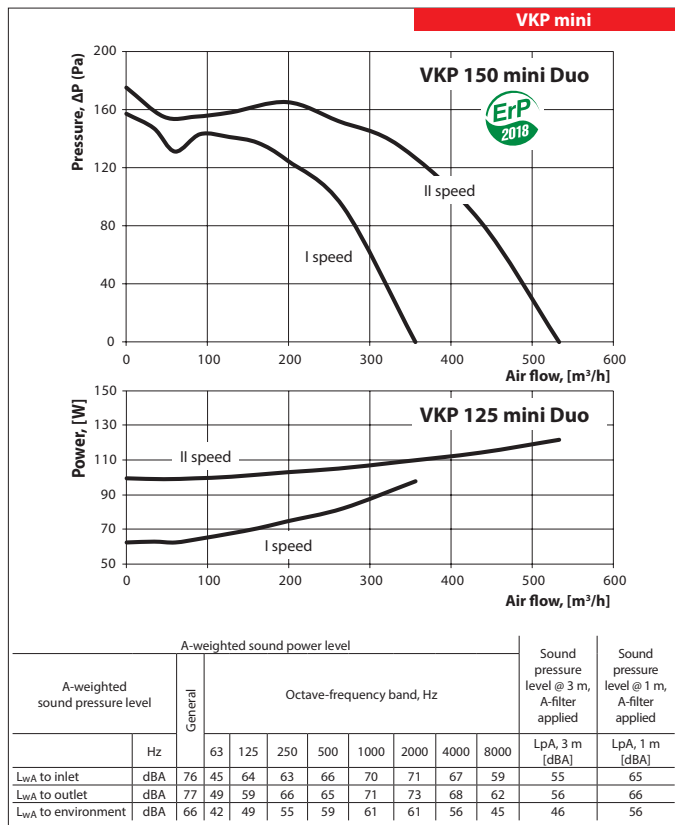
	VKP 125 mini Duo		VKP 150 mini
Speed	1	2	1
Voltage [V/50 Hz]	1~230		1~230
Power [W]	42	48	113
Current [A]	0.18	0.22	0.52
Max. air flow [m ³ /h]	220	300	536
RPM [min ⁻¹]	1960	2610	1050
Sound pressure level at 3 m distance [dBA]	39	45	46
Max. transported air temperature [°C]	+50		
SEC class	C		
Protection rating	IPX4		



FANS FOR ROUND DUCTS

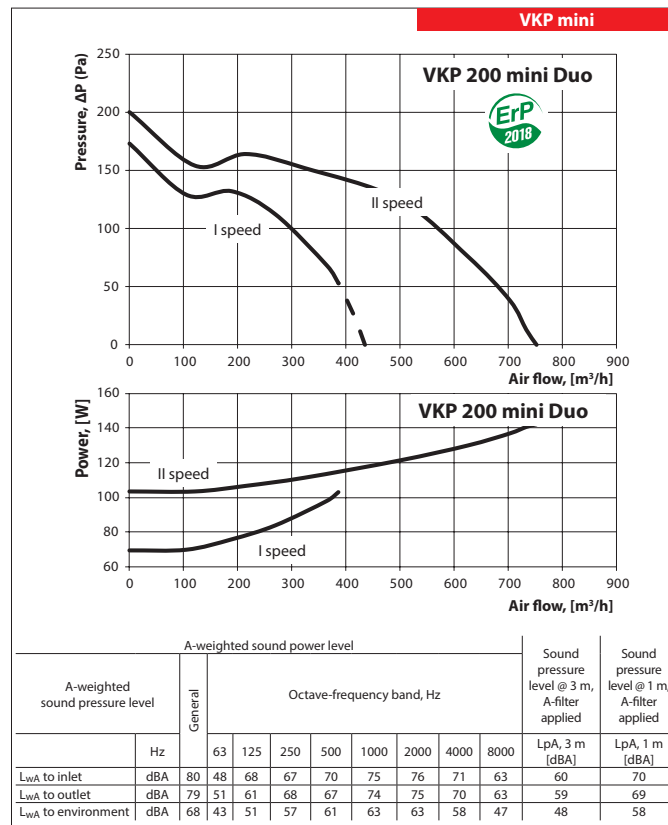
Technical data

	VKP 150 mini Duo		VKP 200 mini
Speed	1	2	1
Voltage [V/50 Hz]			
Power [W]	98	122	139
Current [A]	0.43	0.56	0.61
Max. air flow [m³/h]	356	533	783
RPM [min⁻¹]	750	870	950
Sound pressure level at 3 m distance [dBA]	45	46	47
Max. transported air temperature [°C]	+50		
SEC class	C		
Protection rating	IPX4		



Technical data

VKP 200 mini Duo		
Speed	1	2
Voltage [V/50 Hz]		
Power [W]	103	142
Current [A]	0.45	0.63
Max. air flow [m ³ /h]	460	752
RPM [min ⁻¹]	770	1200
Sound pressure level at 3 m distance [dBA]	46	48
Max. transported air temperature [°C]	+50	
SEC class	C	
Protection rating	IPX4	



FANS FOR ROUND DUCTS

Fan overall dimensions

Type	Dimensions [mm]								Weight [kg]	Fig.no.
	∅D	∅D1	B	H	H1	L	L1	L2		
VKP 80 mini	79	79	252	90	–	351	–	253	2.0	3
VKP 100 mini	99	99	252	110	–	351	–	253	3.37	3
VKP 80 P mini	79	–	252	90	126	–	297	253	2.0	1
VKP 100 P mini	99	–	252	90	144	–	297	253	3.37	1
VKP 80/80*2 mini	79	79	252	90	–	351	–	253	3.28	5
VKP 100/100*2 mini	99	99	252	110	–	351	–	253	3.48	5
VKP 80/80*4 mini	79	79	252	90	136	–	297	253	3.28	2
VKP 100/100*4 mini	99	99	252	110	166	–	297	253	3.48	2
VKP 100/80*2 mini	99	79	252	110	–	351	–	253	3.48	5
VKP 100/80*4 mini	99	79	252	110	166	–	297	253	3.48	2
VKP 80/80*5 mini	79	79	252	90	136	351	–	253	3.28	4
VKP 80/80*6 mini	79	79	252	90	136	351	–	253	3.30	6
VKP 100/80*6 mini	99	79	252	110	166	351	–	253	3.73	6
VKP 100/80*5 mini	99	79	252	110	166	351	–	253	3.73	4
VKP 100/100*5 mini	99	99	252	110	166	351	–	253	3.73	4
VKP 100/100*6 mini	99	99	252	110	166	351	–	253	3.73	6
VKP 125 mini	124	124	270	141	–	397	–	299	5.20	7
VKP 125 C mini	124	124	270	141	–	397	–	299	5.80	7
VKP 125 mini Duo	124	124	303	152	–	430	–	330	6.00	7
VKP 150 mini	149	149	340	207	–	447	–	350	7.10	7
VKP 150 mini Duo	149	149	340	207	–	447	–	350	7.70	7
VKP 200 mini	198	198	362	222	–	494	–	397	8.80	7
VKP 200 mini Duo	198	198	362	222	–	494	–	397	8.80	7

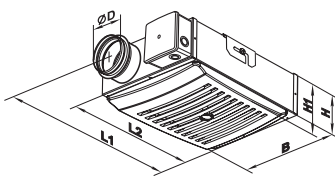


Fig. 1

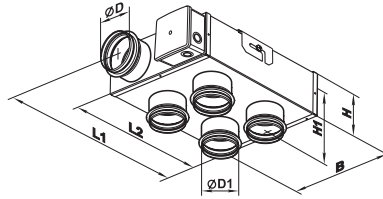


Fig. 2

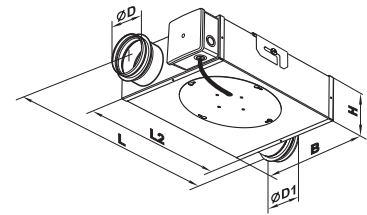


Fig. 3

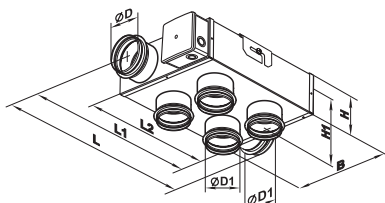


Fig. 4

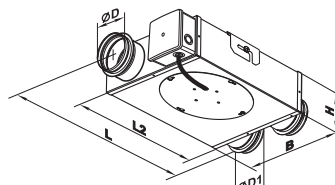


Fig. 5

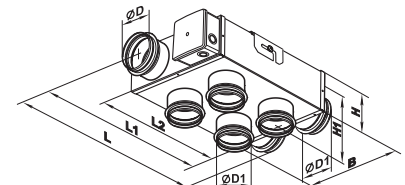


Fig. 6

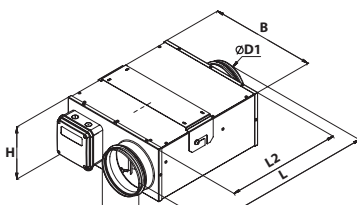


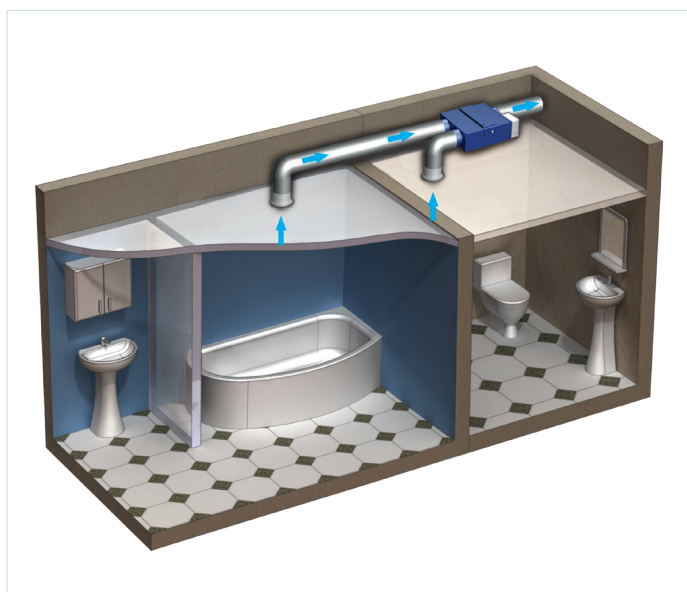
Fig. 7

■ VKP mini ventilation examples

▶ 1 inlet - 1 outlet



▶ 2 inlets - 1 outlet



▶ 4 inlets - 1 outlet

