

Series
VENTS VKP mini



Compact centrifugal fans in steel casing with the air capacity up to **176 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 Ø 80 and 100 mm round ducts. 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 casing height is only 94 mm for VKP..80 model and 112 mm for VKP..100 model that 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 IP 44.

■ **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.



Easy access to motor without fan dismounting



External terminal box for power supply

Designation key:

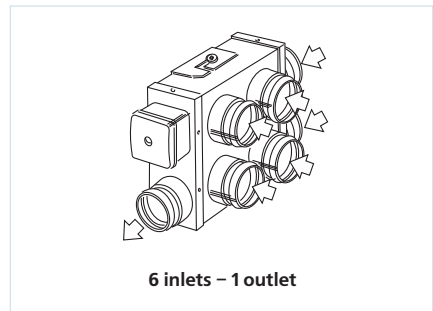
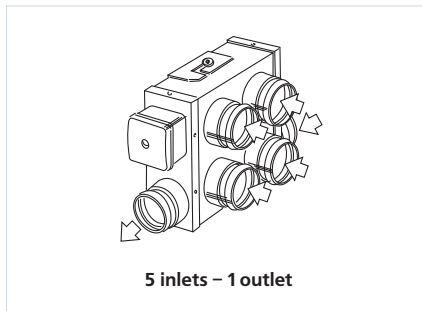
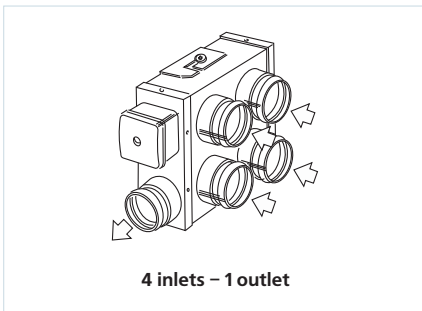
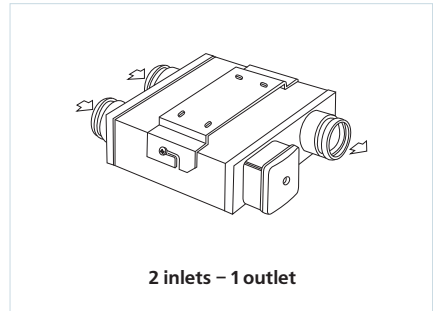
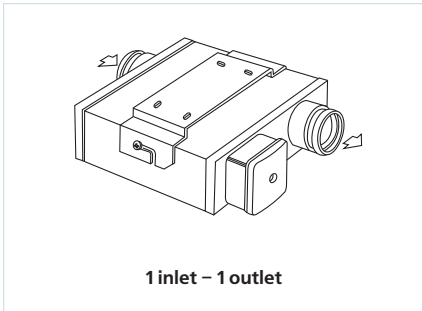
Series	Exhaust spigot diameter	Intake spigot diameter	Number of intake spigots	Type
VENTS VKP	80; 100	80; 100	_(by default) 1; 2; 4; 5; 6	mini

Accessories



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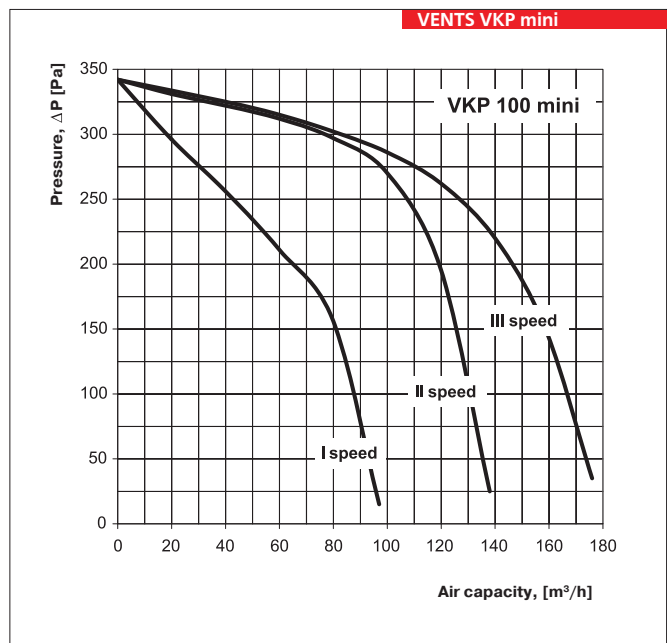
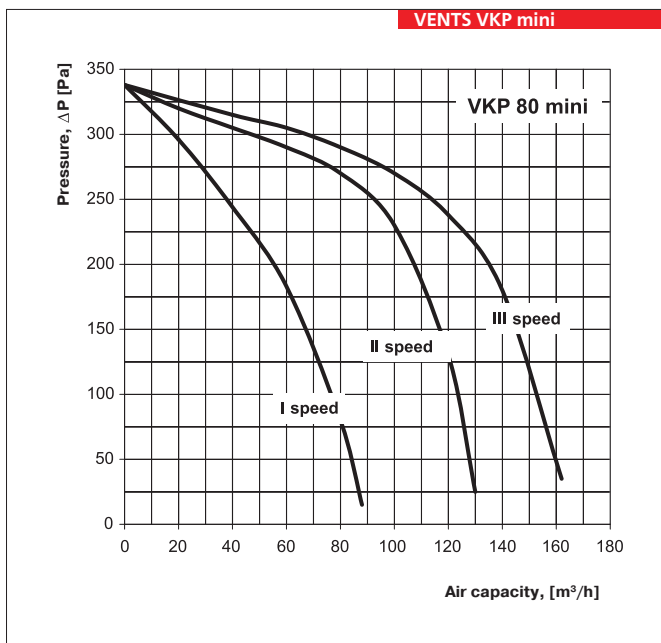
VKP mini fan modifications



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Technical data:

	VKP 80 mini			VKP 100 mini		
Speed	1	2	3	1	2	3
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
Max. air capacity [m ³ /h]	88	130	162	97	138	176
RPM [min ⁻¹]	1400	1800	2600	1400	1800	2600
Noise level at 3 m [dBA]	32	35	43	33	36	44
Max. transported air temperature [°C]	50	50	50	50	50	50
SEC class	C					
Protection rating	IP X4	IP X4	IP X4	IP X4	IP X4	IP X4



FANS FOR ROUND DUCTS

Fan overall dimensions:

Type	Dimensions [mm]								Weight [kg]	Fig.no.
	$\varnothing D$	$\varnothing D1$	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 R mini	79	–	252	90	126	–	297	253	2.0	1
VKP 100 R 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	3.3	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

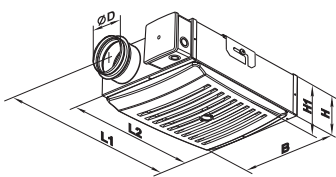


Fig. 1

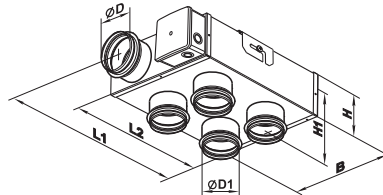


Fig. 2

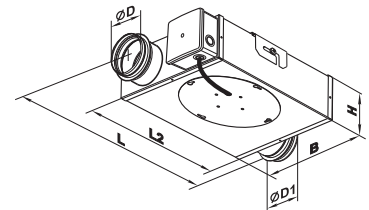


Fig. 3

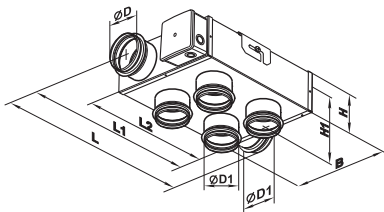


Fig. 4

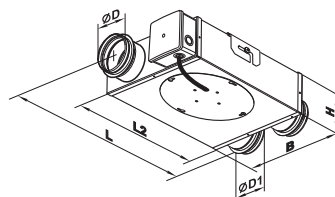


Fig. 5

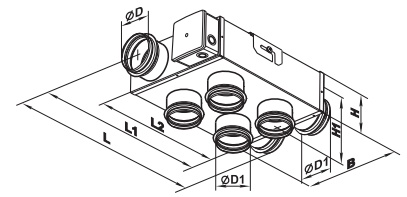


Fig. 6

■ VKP mini ventilation examples

▶ 1 inlet – 1 outlet



▶ 2 inlets – 1 outlet



▶ 4 inlets – 1 outlet



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