

Series
VENTS VCU



Scroll-type single-inlet centrifugal fans powered by the motors with external rotor. The air capacity up to **2000 m³/h**. The fan is designed for supply and exhaust ventilation systems.

Applications

Designed for supply and exhaust ventilation of various premises. The fan can be used as a components for ventilation and air conditioning systems and is suitable for outside mounting.

Design

The fan casing is made of steel with polymeric coating.

Motor

The impeller with forward-curved blades of galvanized steel is powered by 2- and 4-pole asynchronous motor with external rotor. The motors are equipped with incorporated thermal overheating protection with automatic restart as well as ball bearings for long service life. For precise features, safe operation and low noise, each turbine is dynamically balanced while assembling. Motor protection rating IP 44.

Speed control

Both smooth and step speed control is performed with the symistor or autotransformer controller. Several fans can be connected to one controller in case the total power and operating current do not exceed the controller rated values.

Mounting

The fan is suitable for installation in ventilating chambers, air conditioning units or can be used separately. In case of independent operation it can be connected to air ducts by means of either both exhaust and inlet branch pipes or exhaust branch pipe only. The exhaust and intake branch pipes have rectangular or circular sections accordingly. Power is supplied by means of the external terminals.



VCU fan car workshop ventilation example.

Designation key:

Series	Motor modification		Impeller diameter, mm	Impeller width, mm
	Number of poles	Phase		
VENTS VCU	2 4	E – single phase	140; 160; 180; 200; 225; 250	60; 62; 80; 90; 92; 102; 140

Accessories



Technical data:

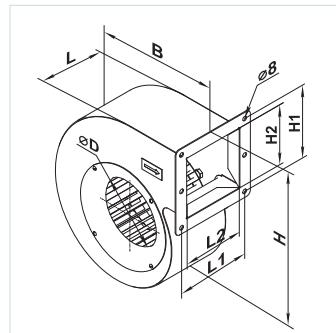
	VCU 2E 140x60	VCU 2E 160x62	VCU 2E 160x90	VCU 4E 180x92
Voltage [V / 50 Hz]	230	230	230	230
Power [W]	148	240	320	160
Current [A]	0,64	1,05	1,48	0,7
Maximum air flow [m³/h]	515	600	730	800
RPM [min⁻¹]	2820	2100	2745	1465
Noise level at 3 m [dBA]	68	68	70	62
Maximum operating temperature [°C]	-25 +45	-25 +50	-25 +45	-25 +45
Protection rating	IP X4	IP X4	IP X4	IP X4

Technical data:

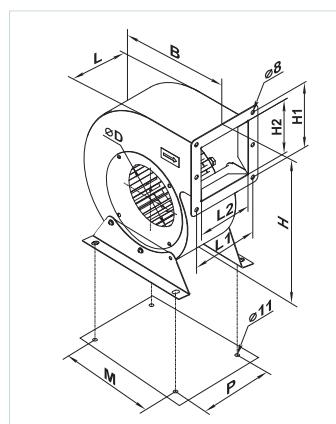
	VCU 4E 200x80	VCU 4E 200x102	VCU 4E 225x102	VCU 4E 250x140
Voltage [V / 50 Hz]	230	230	230	230
Power [W]	125	280	395	570
Current [A]	0,55	1,25	1,98	2,48
Maximum air flow [m³/h]	730	1350	1480	2000
RPM [min⁻¹]	1430	1475	1330	1310
Noise level at 3 m [dBA]	63	65	69	60
Maximum operating temperature [°C]	-25 +45	-25 +40	-40 +70	-40 +70
Protection rating	IP X4	IP X4	IP X4	IP X4

Fan overall dimensions:

Type	Dimensions [mm]									Mass [kg]
	ØD	B	H	H1	H2	L	L1	L2		
VCU 2E 140x60	140	243	287	125	93	85	107	75	3,2	
VCU 2E 160x62	160	277	324	136	106	89	112	82	4,2	
VCU 2E 160x90	160	277	324	136	106	136	158	127	5,1	
VCU 4E 180x92	180	311	360	150	120	145	166	137	6,5	
VCU 4E 200x80	200	335	398	165	134	121	140	113	6,8	
VCU 4E 200x102	200	335	398	165	134	157	175	148	7,3	

**Fan overall dimensions:**

Type	Dimensions [mm]										Mass [kg]
	ØD	B	H	H1	H2	L	L1	L2	P	M	
VCU 4E 225x102	225	365	441	210	171	145	170	137	178	250	11,2
VCU 4E 250x140	250	410	485	230	191	205	230	197	238	270	15,5



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