

Series  
**VENTS VCU**



Scroll-type single-inlet centrifugal fans powered by the motors with external rotor. The air capacity up to **2000 m<sup>3</sup>/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**

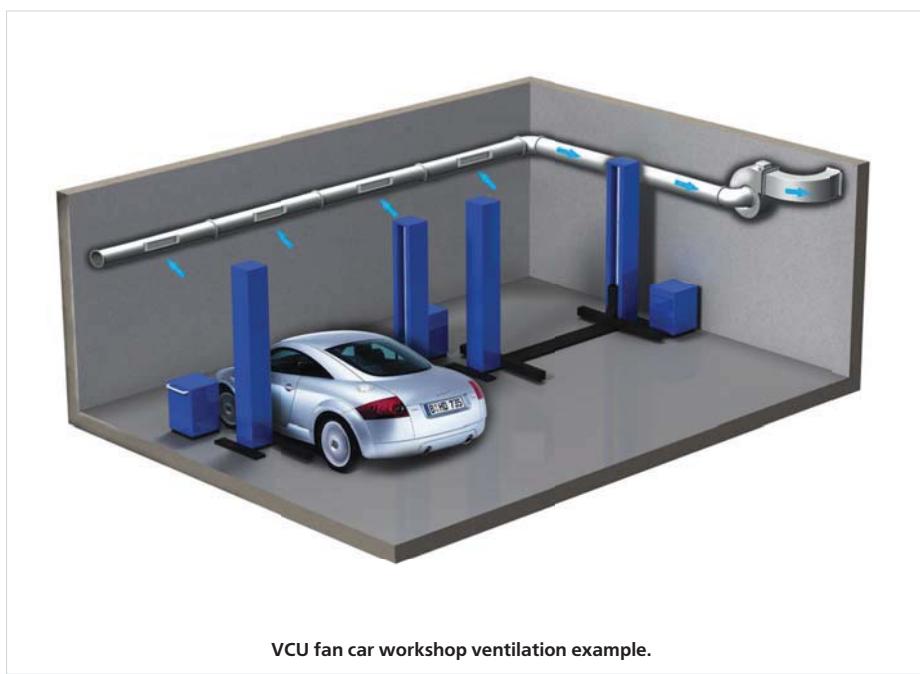
The impeller with forward-curved blades of galvanized steel is powered by 2- and 4-pole asynchronous motor with external rotor. The motors are equipped with incorporated thermal overheating protection with automatic restart as well as ball bearings for long service life. For precise features, safe operation 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		
<b>VENTS VCU</b>	2 4	<b>E – single phase</b>	140; 160; 180; 200; 225; 250	60; 62; 80; 90; 92; 102; 140

**Accessories**



**Technical data:**

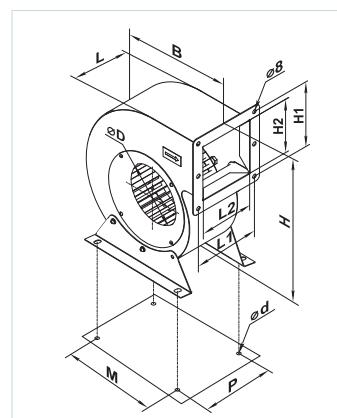
	<b>VCU 2E 140x60</b>	<b>VCU 2E 160x62</b>	<b>VCU 2E 160x90</b>	<b>VCU 4E 180x92</b>
Voltage [V / 50 Hz]	230	230	230	230
Power [W]	148	240	320	160
Current [A]	0,64	1,05	1,48	0,7
Maximum air flow [m³/h]	515	600	730	800
RPM [min⁻¹]	2820	2100	2745	1465
Noise level at 3 m [dBA]	68	68	70	62
Maximum operating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

**Technical data:**

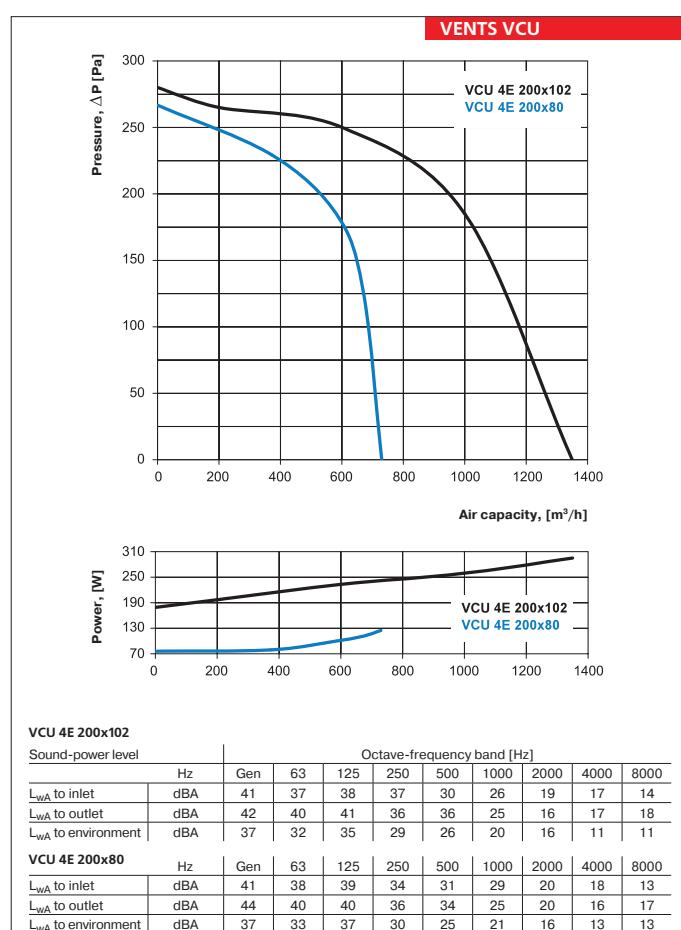
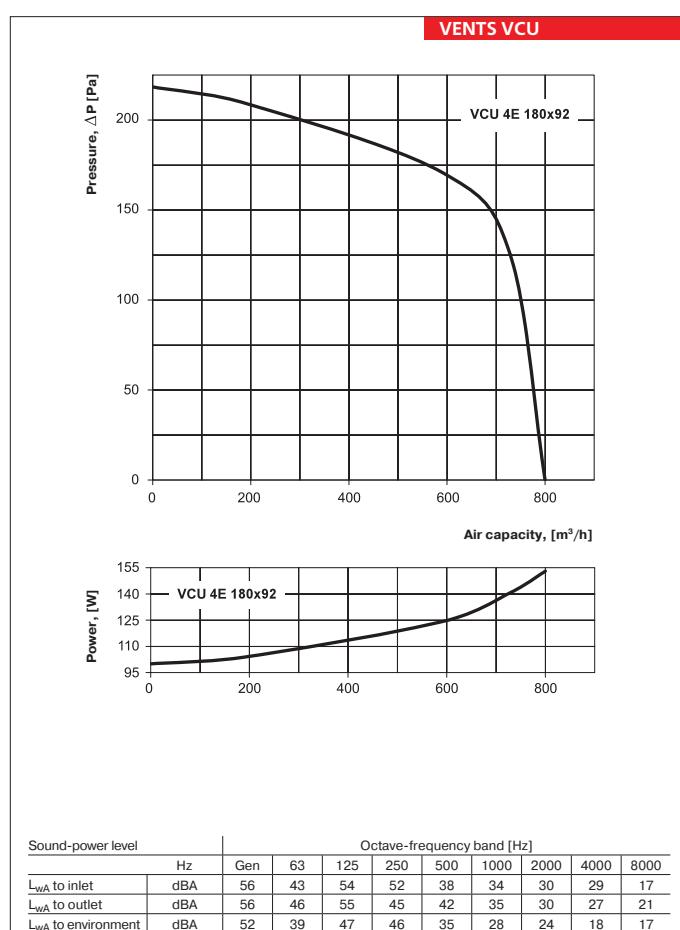
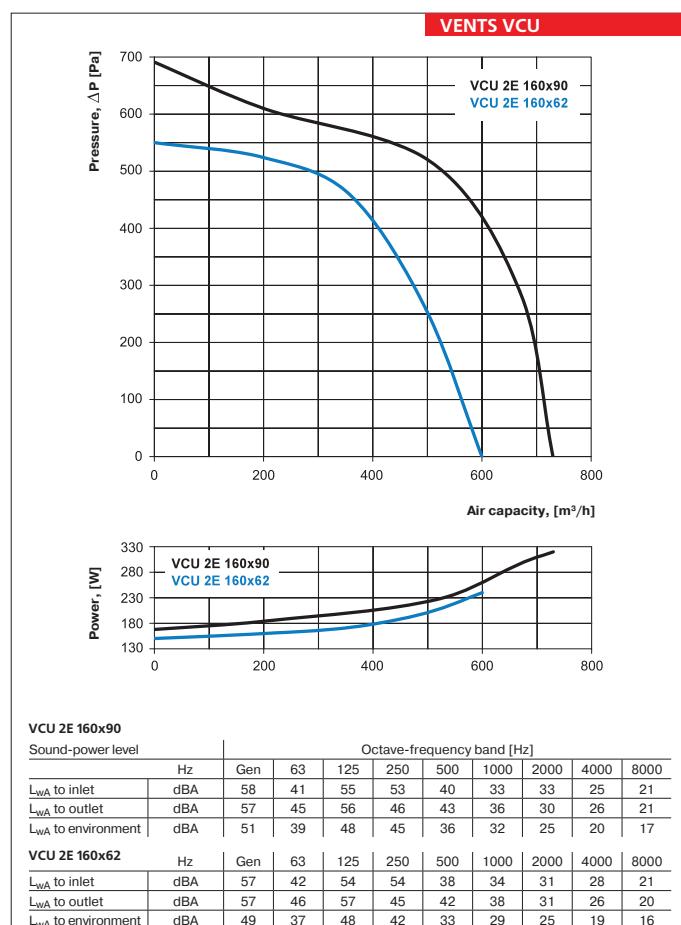
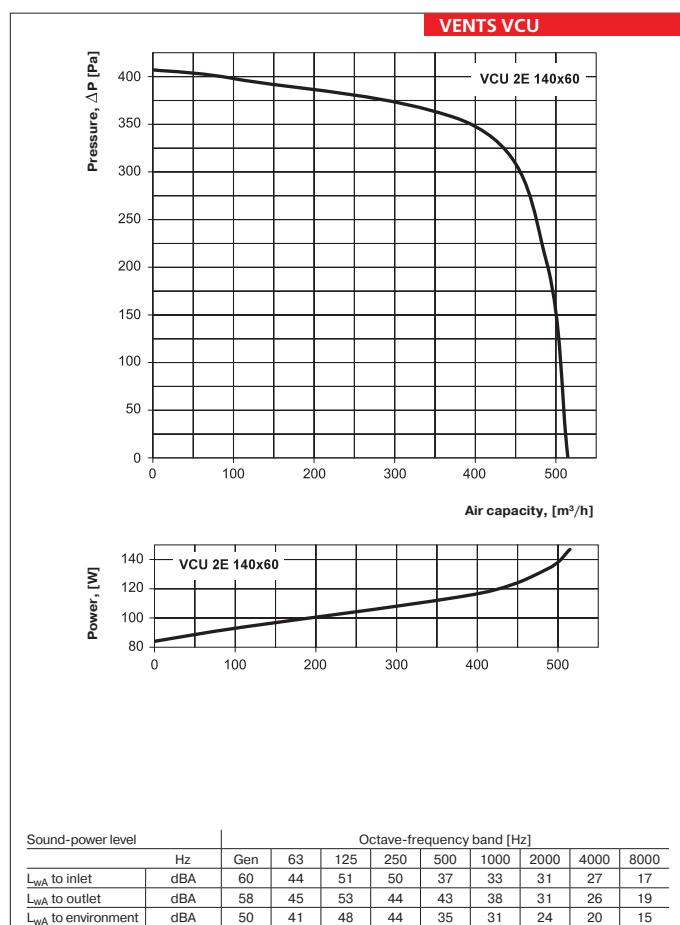
	<b>VCU 4E 200x80</b>	<b>VCU 4E 200x102</b>	<b>VCU 4E 225x102</b>	<b>ВЦУ 4Е 250x102</b>	<b>VCU 4E 250x140</b>
Voltage [V / 50 Hz]	230	230	230	230	230
Power [W]	125	280	395	810	570
Current [A]	0,55	1,25	1,98	3,65	2,48
Maximum air flow [m³/h]	730	1350	1480	2000	2000
RPM [min⁻¹]	1430	1475	1330	1330	1310
Noise level at 3 m [dBA]	63	65	69	63	60
Maximum operating temperature [°C]	-25 +45	-25 +40	-40 +70	-40 +70	-40 +70
Protection rating	IP X4	IP X4	IP X4	IP X4	IP X4

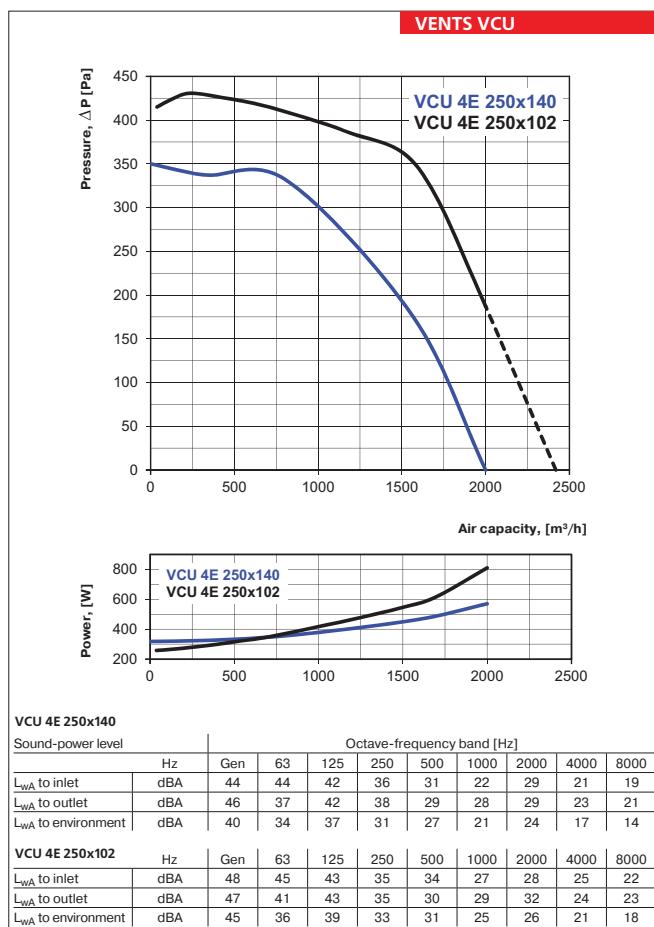
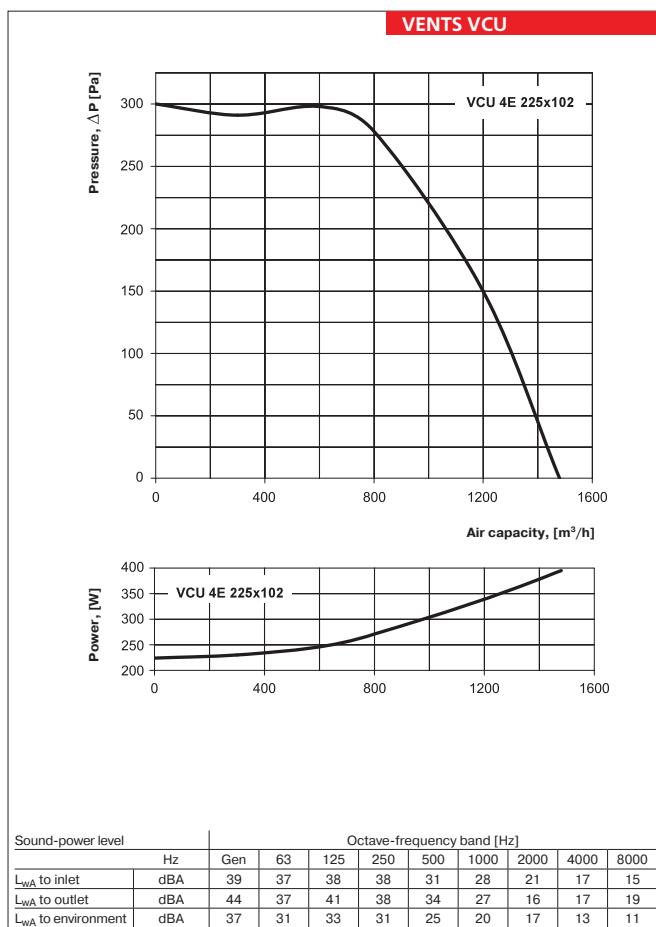
**Fan overall dimensions:**

Type	Dimensions [mm]												Mass [kg]
	ØD	B	H	H1	H2	L	L1	L2	P	M	d		
VCU 2E 140x60	140	243	287	125	93	85	107	75	116	150	9	3,5	
VCU 2E 160x62	160	277	324	136	106	89	112	82	122	200	9	4,6	
VCU 2E 160x90	160	277	324	136	106	136	158	127	168	200	9	5,5	
VCU 4E 180x92	180	311	360	150	120	145	166	137	181	230	9	7,1	
VCU 4E 200x80	200	345	398	165	134	116	140	108	150	240	9	7,5	
VCU 4E 200x102	200	345	398	165	134	152	175	143	185	240	9	8,0	
VCU 4E 225x102	225	365	441	210	171	145	170	137	178	250	11	11,9	
ВЦУ 4Е 250x102	250	410	485	230	191	165	190	157	198	270	11	16,3	
VCU 4E 250x140	250	410	485	230	191	205	230	197	238	270	11	16,3	



## CENTRIFUGAL FANS



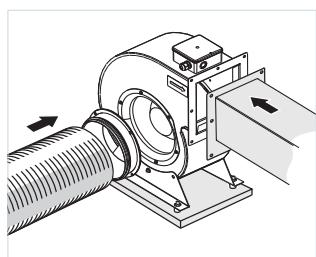


#### Selection table for accessories:

Type	Rubber anti-vibration mounts	Spring-loaded anti-vibration mounts	Flange	Grille
VCU 2E 140x60	VVCr 8	VVCp 8	FVC 140	RVC 140
VCU 2E 160x62	VVCr 8	VVCp 8	FVC 160	RVC 160
VCU 2E 160x90	VVCr 8	VVCp 8	FVC 160	RVC 160
VCU 4E 180x92	VVCr 8	VVCp 8	FVC 180	RVC 180
VCU 4E 200x80	VVCr 8	VVCp 8	FVC 200	RVC 200
VCU 4E 200x102	VVCr 8	VVCp 8	FVC 200	RVC 200
VCU 4E 225x102	VVCr 14	VVCr 14	FVC 200/FVC 225	RVC 200/RVC 225
BLV 4E 250x102	VVCr 14	VVCr 14	FVC 250	RVC 250
VCU 4E 250x140	VVCr 14	VVCr 14	FVC 250	RVC 250

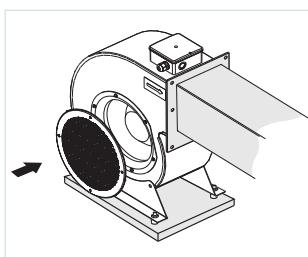
#### FVC Flange

designed to connect round ducts to VCU fans.



#### RVC Grille

designed for fan protection against foreign objects.



#### Anti-vibration mounts VVCr and VVCp

Designed for noise reduction and vibration damping produced by the fans. Provide dynamic loading decrease and increase reliability and durability of ventilation equipment.



Anti-vibration mount VVCr



Anti-vibration mount VVCp