

# SUCTION UNITS “VORTEX” SERIES

In industrial environment, the collection of abrasive media mixed with dust and other polluting fractions, usually causes problems - regular vacuum cleaners are not suitable for this purpose or their performance is insufficient.

**VORTEX series suction units** are designed for transporting abrasive media, taking into account all possible features of industrial production environment. Efficiency is achieved by a continuously operating suction pump, which is protected with an inlet filter and the separation system.

Units are available in both stationary and mobile version with an electric drive.

VORTEX suction units come in a range from 5.5 kW to 110 kW.

VORTEX-2000-45 model provides an example of VORTEX suction unit.



\* VORTEX-2000-45



Basic set	VORTEX-2000-45
Electric motor	IP55, 45 kW, 3 x 400 V, 50 Hz, isolation class F, IP 55
Electrical requirements	77 A; star / delta (fuse 125 Amp)
Output	3-14 t/hr
The maximum recommended hose length	45 m
Recommended hose diameter	Max. 152 mm (6")
Air volume	~32 m <sup>3</sup> /min under vacuum 500 MBar
Maximum vacuum	500 MBar
Vacuum pump	Rotary, 3-blade
Noise level (at a distance of 5 meters)	~85 dB(A)
The main filter (2 pcs.)	Cartridge filter, NA-909-0 Polyester
Filter cleaning	With compressed air
Dust emissions	Approx. 5 mg/ m <sup>3</sup> of air
Filter area	20 m <sup>2</sup>
Dimensions L x W x H (mm)	2335 x 1500 x 2345
Weight	2000 kg

We also manufacture a compact version VORTEX-2000-45-COMP that:

- has a filter cleaning system, which operates with vacuum pulses, without using compressed air, it works automatically, filter cleaning process does not require to turn off the unit or use an additional compressor.
- is fitted with a cassette bag filter
- has more compact dimensions compared to the basic version VORTEX-2000-45

This version of the suction unit, along with its compact size, also stands out by its greater "on air" performance, which enables the most efficient transportation process of abrasive, and significantly facilitates the work with the system in the difficult environment of ship repair industry.



\* VORTEX-2000-45-COMP

Basic set	VORTEX-2000-45-COMP
Electric motor	IP55, 45 kW, 400 V, 50 Hz), isolation class F, IP 55
Electrical requirements	77 A; star / delta (fuse 125 Amp)
Output	5-17 t/hr
The maximum recommended hose length	45 m
Recommended hose diameter	Max. 152 mm (6")
Air volume	~42 m <sup>3</sup> /min under vacuum 500 MBar
Maximum vacuum	50 % (500 mbar)
Vacuum pump	Rotary, 3-blade
Noise level (at a distance of 5 meters)	~83 dB(A)
The main filter (2 pcs.)	Bag filter cassette
Filter cleaning	Automatic vacuum pulse, without compressed air system or shaking
Dust emissions	Approx. 5 mg / m <sup>3</sup> of air
Filter area	10 m <sup>2</sup>
Dimensions L x W x H (mm)	1500 x 1700 x 2450
Weight	1520 kg

### The full range of VORTEX suction unit models

Basic set	VORTEX-220-5,5	VORTEKS-750-15	VORTEKS-1600-30	VORTEKS-2000-45	VORTEKS-2000-45-COMP	VORTEKS-3000-75	VORTEKS-3000-75-CONT	VORTEKS-4000-2X45-CONT	VORTEKS-5000-110-CONT
Motor	5.5 kW	15 kW	30 kW	45 kW	45 kW	75 kW	75 kW	2x45 kW	110 kW
Control panel	Start/Stop Control panel	Start/Stop Control panel	Start/Stop Control panel	Start/Stop Control panel	Start/Stop Control panel	Start/Stop Control panel	Start/Stop Control panel	Start/Stop Control panel	Start/Stop Control panel
		Y / D	Y / D	Y / D	Y / D	Y / D	Y / D	Y / D	Y / D
Length, mm (L)	1259	1735	2335	2335	1500	2960	2991	2991	2991
Width, mm (W)	650	900	1500	1500	1700	1500	2438	2438	2438
Weight (kg)	325	800	2000	2000	1520	2900	3700	4800	4800
Height (H)	1505	2150	2345	2345	2450	2360	2591	2591	2591