

RAPID VAC 200 – filtration of dry dusts



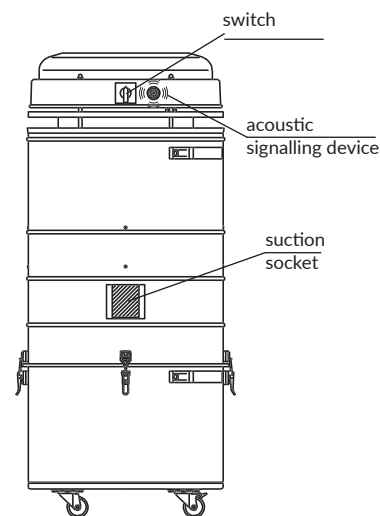
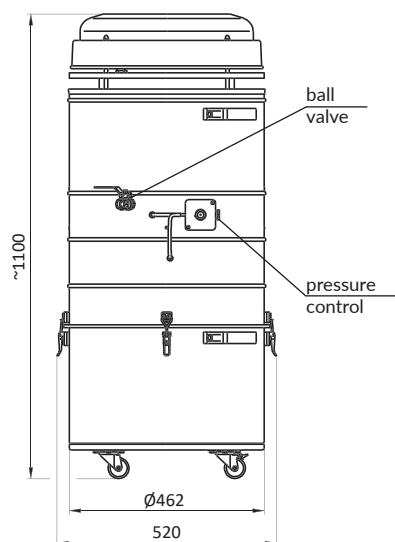
Purpose

RAPID VAC 200 belongs to the high-vacuum group of filtering units. The device is designed for extraction and filtration the dry dust of various sort. The appliance removes efficiently any impurities, directly from the site of emission. Especially, it is appropriate for extraction the pollutants from the hoods of stationary manual grinding tools and polishing tools, for dry vacuum cleaning of the machines, installations and industrial

rooms. Moreover, it can even be connected to various miniature local exhausts.

As there is applied a cartridge of polyester fabric, it is possible to capture very small dust particles, even those of diameter smaller than 0,4 µm.

Due to 1000 h of turbine longevity, it is not recommended to use the device for continuous work.



Structure

RAPID VAC 200 consists of:

- cylindrical steel housing,
- suction turbine,
- high-efficiency cartridge filter – of polyester fabric – filtration efficiency 99,9%,
- rotary jet – for cartridge filter regeneration
- suction socket – equipped with a loose Ø44 mm fitting piece, to connect the extraction hose,
- cut-off valve for the compressed air – manual or electromagnetic, depending on the version,
- control unit (for manual or automatic version),
- pressure control – activating the acoustic signalling upon excessive filter flow resistances,
- waste container along with the castor assembly, providing easy device displacement.

Options

There are two control options applied for RAPID VAC 200:

- Standard version – the fan is switched on manually, whereby it is important to open the compressed air valve for several seconds (supplying the rotary jets) before the turbines are operated.
- Automatic version – after the turbine is switched on, first the electromagnetic valve of the compressed air opens automatically, then – after several seconds – the turbine is automatically operated.

RAPID VAC 200

Operational use

RAPID VAC 200 requires connection to the external compressed air installation of minimum 0,6 MPa. The device is energised through a five-metre-long supply cable with a plug. During the filter regeneration process, the dust which has been struck from the filters, accumulates in the waste container (periodical

emptying required). The cartridge filter ought to be replaced every 1–2 years. RAPID VAC 200 – can work with one local exhaust.

At the moment when the filter reaches the extreme pollution rate, pressure control automatically activates the acoustic signalling device. After the turbine is switched off, it is necessary to regenerate the filter and in several seconds the appliance is ready for operation.


Technical data

Type of the device	Part no.	Filter regeneration	Volume flow [m ³ /h]	Motor rate [kW]	Supply voltage [V]	Acoustic pressure level [dB(A)]	Capacity of the waste container [dm ³]	Weight [kg]
RAPID VAC 200-S	800073	manual	225	1,6	230	72	45	31,2
RAPID VAC 200-A	800074	automatic	225	1,6	230	72	45	32,6

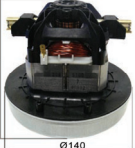
1. Maximum vacuum for all sizes is 30 000 Pa.
2. Filtration efficiency amounts 99,9%.

Replaceable elements

Cartridge filter


	Type	Part no.	Weight [kg]	Filtration efficiency [%]	Remarks
	PN032032U	800F01	4,2	99,9	Replacement frequency – 1 up to 2 years.

Suction turbine

	Type	Part no.	Weight [kg]	Remarks
	AS 309,5	810T07	1,4	Replacement frequency – after approx. 1000 hours of use.

Additional equipment

Dust collecting nozzle

	Type	Part no.	Weight [kg]
	SC-50	856S05	1


Pipe

	Type	Part no.	Weight [kg]
	S-50	801Z02	1,2

Connection fitting piece

	Type	Part no.	Weight [kg]
	Z50/44	832Z00	0,11

Hose

	Type	Part no.	Weight [kg/m]	Remarks
	PCV FLEX-44	821P29	0,36	Flexible extraction hose. Standard purchase length 15 m. For technical data see section VENTILATION ACCESSORIES.