

ROBUST – filtration of dry coarse dust



ROBUST-1000



ROBUST-2000



Purpose

ROBUST units have been developed for cleaning the air from dry and coarse dust of size above 5 µm, arising during various technological processes. Especially, they are designed for capturing the dusts during grinding, refilling the powdery materials and other dust emitting processes in such industries as chemical, food processing, pharmaceutical, plastics processing etc.

Structure

ROBUST consists of subsequent elements:

- housing of steel sheet,
- radial fan – cast aluminium housing,
- cartridge filter – of cellulose-polyester fabric – class F9,
- manual filter cleaner – removing the dusts deposited on the cartridge filter surface,
- sparks catcher,
- drawer to collect the struck off dusts,
- connection fitting pieces – to mound the extraction arms or to connect hoses,
- silencer – at the fan outlet,
- motor protective switch – with short-circuit- and overload protection.

Operational Use

The dust-laden air is drawn through connection fitting pieces, located on the inlet side of the device. To the connections can be installed ERGO LUX extraction arms or hoses, directed to the contamination source. ROBUST-1000 is equipped with one Ø125 mm and one Ø160 mm connection, whereas ROBUST-2000 with one Ø160 mm and one Ø200 mm connection. By means of adequate reducers User can easily adapt both devices into the most convenient connection variant. The unit is delivered with two fitting pieces that are plugged, as manufacturer's state. User decides on how to use the connection ferrules.

It is important to use the manual filter cleaning device after certain time, as the flow capacity significantly drops during the use. Simply, turn the knob of the cleaning device to shake the dusts off from the filter surface. Subsequently, the struck off impurities are accumulating in the waste drawer, that has to be emptied periodically. Cartridge filters must be replaced for new after a period of use (approx. 1-2 years).



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Technical data

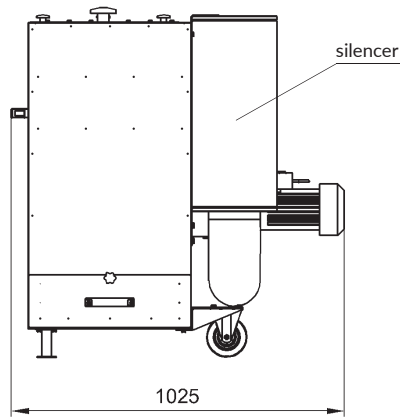
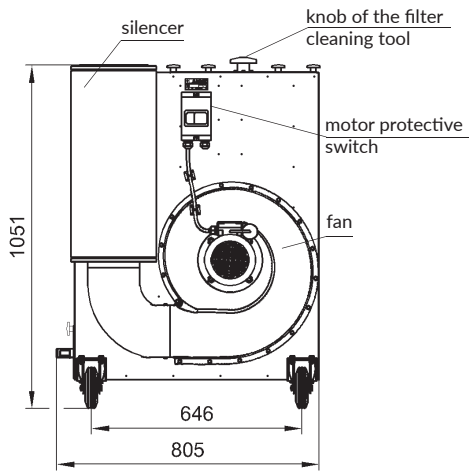
Type	Part no.	Maximum volume flow [m³/h]¹	Maximum vacuum [Pa]	Supply voltage [V]	Motor rate [kW]	Capacity of the waste drawer [dm³]	Acoustic pressure level [dB(A)] from a distance of:		Weight [kg]	Intake connections²
							1 m	5 m		
ROBUST-1000	800O87	1100	1700	230	0,75	39	70	61,5	100	1xØ125 mm 1xØ160 mm
ROBUST-2000	800O89	2000	2000	230	1,5	80	73	66,5	152	1xØ160 mm 1xØ200 mm

1. Volume flow has been measured at the clean filters.

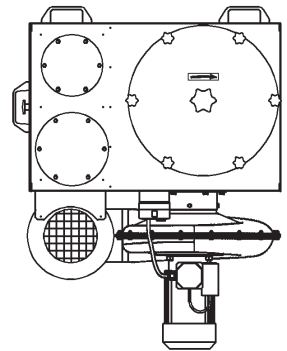
2. Workranges of ERGO LUX extraction arms is represented on separate catalogue cards.

ROBUST

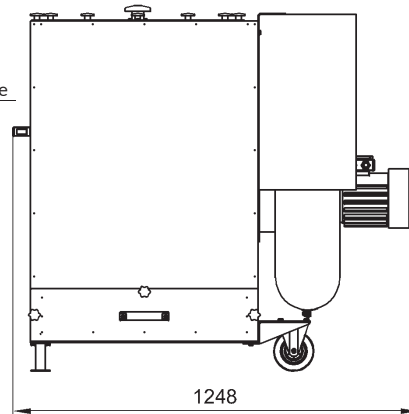
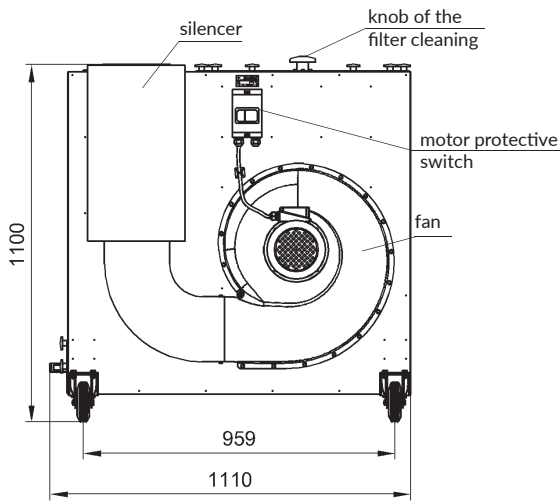
ROBUST-1000



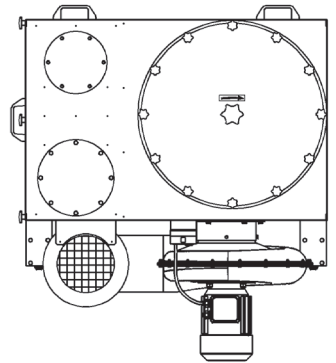
Top view



ROBUST-2000



Top view



Replaceable parts

Cartridge filter

	Type	Part no.	Weight [kg]	Class	Filtration efficiency [%]	Quantity of filters	Application
	CP163868U	800F06	9,6	F9	95	1	ROBUST-1000
	CP165768U	800F07	13,2	F9	95	1	ROBUST-2000