

pulse-clean dust extraction booth



EXEON[®]
CLEAN AIR FOR INDUSTRY

*industrial extraction modular
booths for dust and smoke*

RPB pulse-clean dust extraction booth



NON-RETURN RUBBER LIP

Detail of suction slot with inner rubber lip that closes during pulse cleaning of the cartridges

The pulse clean extraction booth has been designed for various applications in workshops where:

- Ductwork installation is difficult or unsuitable
- Air-conditioned or heated workshops to avoid energy waste in exhausting the air outdoors and the need to recycle the outside air
- Environments where the source of pollutant/smoke changes depending on process
- Insufficient local exhaust performed by portable units or weak filtering capability of the existing pollution control system

Benefits of the pulse clean extraction booth

- Energy saving, reduced heating or air conditioning cost
- Easy and low cost retrofit without need of ducting
- Easy transportation and installation by crane eyelets and forklift lifting points
- Simple maintenance of the horizontal cartridges
- Stand alone positioning with the possibility to vary the location depending on immediate needs
- Easy dust disposal thanks to the dust drawers
- Plug and play installation just requires compressed air connection and electric power
- Low noise operation thanks to the high efficiency backward curved fans installed
- Filtered air recirculation into the working area

The RPB pulse clean extraction booth has been designed for easy maintenance, maximum filtration efficiency and convenient stand alone positioning

OPERATING PROCEDURE

The cabins are completely built in panels of galvanized steel (painted on request) bolted together.

The operating procedure of the sanding cabin is simple and effective and is clearly illustrated in the diagram.

A vacuum is created via the soundproofed centrifugal fan positioned on the upper part of the cabin.

This vacuum forces the air to circulate driving the dust through the high efficiency Class M cartridge filters without dangerous spreading into the work environment.

The air, perfectly purified, is ejected by the centrifugal fan the characteristics of which are such as to guarantee the correct suction speed of the area in accordance with existing regulations.

The cabin is also equipped with a complete cyclic programmer for automatic cleaning of the filtering cartridges by compressed air and ON/OFF switch.

OPTIONS

- Modular extended roof
- Light
- External control board
- Modular sides and roof
- Fully painted

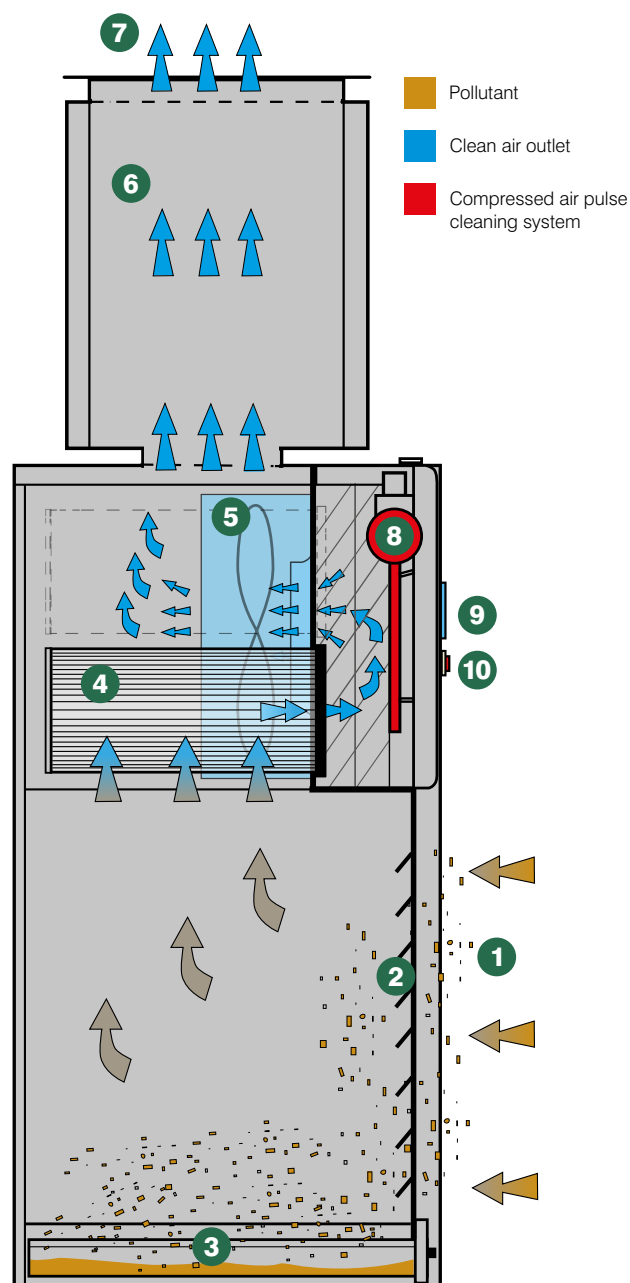
Cartridge filters



polyester/PTFE coating
polyester/aluminum coated/antistatic
polyester/teflon membrane
cellulose with nanofibers



Cartridge model choice could affect various parameters

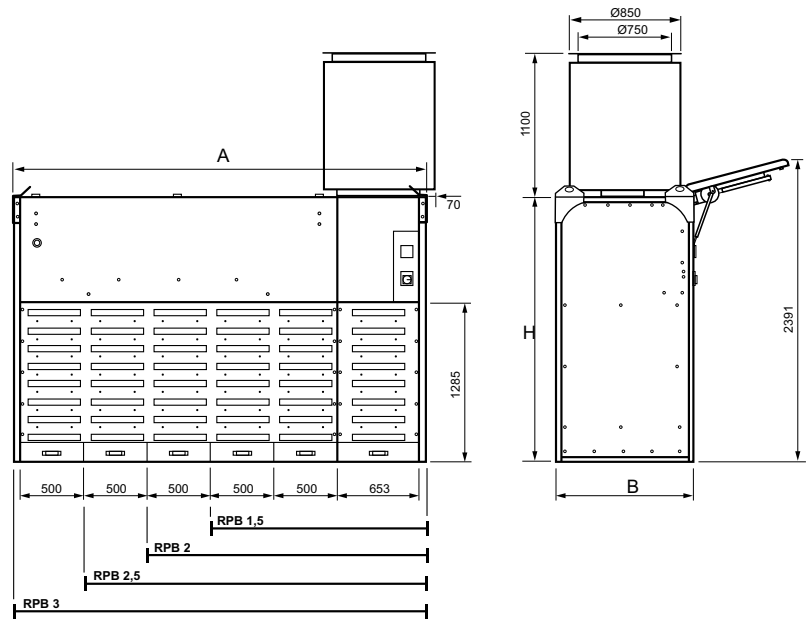


- 1 DUST INLET
- 2 NON-RETURN RUBBER LIP
- 3 DUST COLLECTING DRAWER
- 4 CARTRIDGE FILTER
- 5 FAN
- 6 ATTENUATOR
- 7 FILTERED AIR OUTLET
- 8 COMPRESSED AIR TANK
- 9 CYCLIC PROGRAMMER (PLC)
- 10 ON/OFF SWITCH

OVERALL DIMENSIONS

	A	B	H	C
RPB 1,5	1733	1095	2115	1653
RPB 2	2233	1095	2115	2153
RPB 2,5	2733	1095	2115	2653
RPB 3	3233	1095	2115	3153
RPB 4	4466	1095	2115	4306
RPB 5	5466	1095	2115	5306
RPB 6	6466	1095	2115	6306

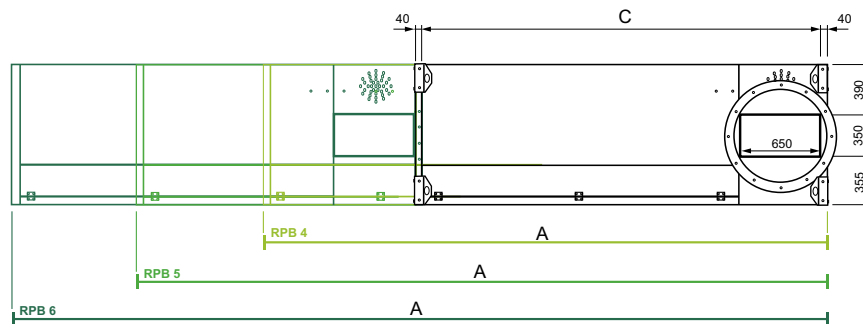
Dimensions (mm)



RPB 4 (RPB 2+RPB 2)

RPB 5 (RPB 2,5+RPB 2,5)

RPB 6 (RPB 3+ RPB 3)



TECHNICAL FEATURES

	Fan kW	Electrical feeding	R.P.M.	Airflow m³/h	Sound level dB (A)	Dust storage capacity litres	No. of drawers	Filtering area m²
RPB 1,5	3	3Ph 400V 50Hz	2851	6000	72	120	3	60
RPB 2	4	3Ph 400V 50Hz	2910	8000	72	152	4	120
RPB 2,5	5,5	3Ph 400V 50Hz	2900	10000	73	187	5	150
RPB 3	7,5	3Ph 400V 50Hz	2910	12000	73,4	240	6	180
RPB 4	4+4	3Ph 400V 50Hz	2910	16000	75	304	8	240 (120+120)
RPB 5	5,5+5,5	3Ph 400V 50Hz	2900	20000	76	374	10	300 (150+150)
RPB 6	7,5+7,5	3Ph 400V 50Hz	2910	24000	76,4	480	12	360 (180+180)

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