RAK-X-M/1 RAK-1-M/2 RAK-2-M/3

Application

RAK-M-type appliance has been developed for cleaning the air from welding fumes arising at mobile or stationary workplaces. The device efficiently captures both dry and viscous dust, arising during the welding the oil-laden steel sheets or while using large amounts of anti-spatter-spray. As the dust particles accumulate on the compact filter surface (main filtration element), the appliance is not equipped with a waste container. There is also an active carbon spunbond filter absorbing the part of gaseous contamination. Filters – after reaching the limit pollution rate, have to be replaced for new – they cannot be submit to regeneration. RAK-type devices are adapted for attachment the extraction arms on the top cover. They are manufactured in mobile and stationary (wall-mounted) versions.

Structure

RAK consists of subsequent elements:

- radial fan,
- pre-filter of a net (mesh 0,8x0,25 mm),
- filtration pad – class G-3,
- compact filter – class F-9,
- active carbon impregnated spunbond filter,
- control unit,
- castors' assembly for the mobile version, or a set of brackets for the wall mounting version.

The devices are manufactured in three sizes, adapted for installing of one, two or three extraction arms of a diameter 160 mm and workrange 2 or 3 metres.

Operational Use

The appliance is operated and controlled by means of a control unit. In case of the mobile version, the control unit is built-in on the housing, whereas for the stationary version, the control unit has to be installed separately, in a place chosen by User.

Maintenance of the filters consists in:

- periodical cleaning the net filter,
- periodical replacement of the filtration pad and the carbon fabric (every several months),
- periodical replacement of the compact filter (according to the indication of the signalling lamp).

* On demand we can deliver the RAK filtering unit equipped with a pressure control, activating the signalling lamp indicating the replacement necessity of the compact filter.

Technical data

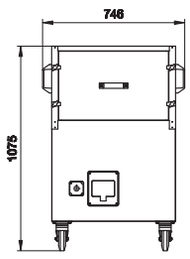
Type	Part No.	Volume flow [m^3/h]	Supply voltage [V]	Motor rate [kW]	Noise level [dB(A)]	Weight [kg]	Quantity of the connections for ERGO arms
RAK-X-M/1	800O37	1500	230	1,1	73	115	1
RAK-1-M/2	800O38	2000	230	1,1	69	165	2
RAK-1-H/2	800O39						
RAK-2-M/3	800O40	3000	3×400	1,5	70	210	3
RAK-2-H/3	800O41						

Caution:

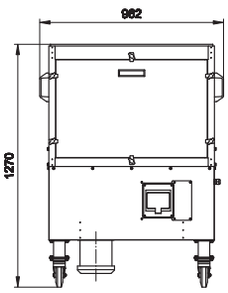
1. Volume flow has been measured at the clean filters.
2. Full presentation of the ERGO extraction arms is on separate catalogue cards.

MOBILE VERSIONS

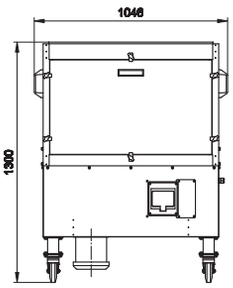
RAK-X-M-1 front view



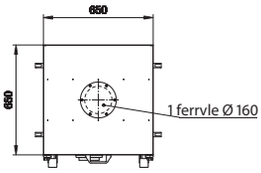
RAK-1-M-2 front view



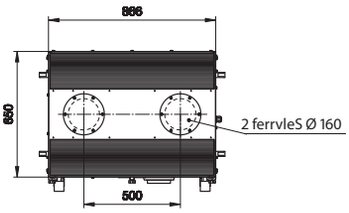
RAK-2-M-3 front view



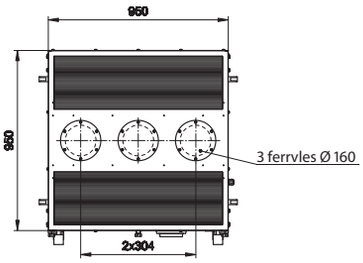
RAK-X-M-1 upper view



RAK-1-M-2 upper view

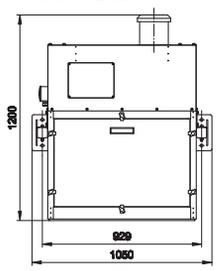


RAK-2-M-3 upper view

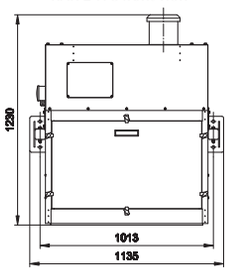


STATIONARY HANGING VERSIONS

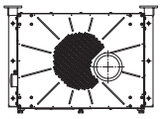
RAK-1-H-2 front view



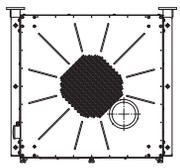
RAK-2-H-3 front view



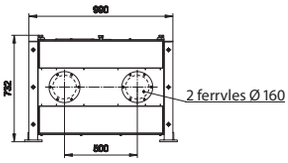
RAK-1-H-2 upper view



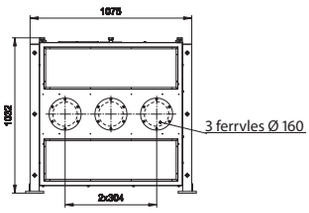
RAK-2-H-3 upper view



RAK-1-H-2 bottom view



RAK-2-H-3 bottom view



Replaceable filters
Compact filter

Type	Part No.	Weight [kg]	Dimensions AxBxC [mm]	Class	Filtration efficiency [%]	Remarks
FKR-X	838K12	17,72	610x590x292	F9	95,6	1 pc in RAK-X
FKR-1	838K09	22,14	762x610x292			1 pc in RAK-1
FKR-2	838K11	18,20	910x420x292			2 pc in RAK-2

Filtration pad

Type	Part No.	Weight [kg]	Dimensions AxBxC [mm]	Class	Filtration efficiency [%]	Remarks
FWR-X	838F72	0,18	610x610x50	G3	88	In each device is placed one filtration pad
FWR-1	838F67	0,20	762x610x50			
FWR-2	838F68	0,25	910x840x50			

Active carbon impregnated spunbond

Type	Part No.	Weight [kg]	Dimensions AxBxC [mm]	Remarks
FCR-X	838F74	0,30	610x610x20	In each device is placed one spunbond format.
FCR-1	838F69	0,32	762x610x20	
FCR-2	838F70	0,50	910x840x50	