PAK-M

Compact and energy saving high vacuum unit, ideal for removing dust and welding fumes. For 1-5 users and with optional H14 filter.

PAK-M

PAK-M front view

The PAK-M is a frequency controlled high vacuum dust collector unit. It is designed for extraction of welding fume (incl. on-torch), grinding-, sanding-, or other non-combustible dust (incl. on-tool extraction) as well as. PAK-M is also suitable for cleaning the workplace, shop floor or extraction directly from a production line. It is compact enough to fit on a pallet and typical areas of application can be found in welding shops, car body shops, construction industries, industrial laundries etc., generally serving between 1 and 5 simultaneous extraction points.

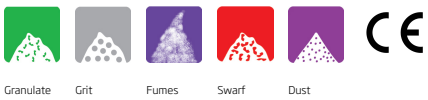
PAK-M controls the speed of the motor automatically using a VFD (Variable Frequency Drive) and dP-sensor to maintain a constant vacuum, selected by the user on the control panel - Ideal for on-torch or on-tool extraction but also ensuring minimum power consumption - saving typically 50% energy or more in comparison to units without VFD. The PAK-M can also be set to generate as much vacuum as possible for applications with long piping, material transportation or cleaning. Automatic vacuum valves offer further energy savings by controlling the PAK-M to only provide suction when an operation is ongoing, but can also be used to increase the number of working points if not all are used simultaneously.
The PAK-M is controlled by the VFD as standard but can be upgraded with a separate PLC for enhanced control- and sensor capabilities.
The PAK-M is developed to fit into normally noise sensitive premises thanks to efficient silencers, acoustic enclosure and using the VFD to run at the lowest possible speed needed to maintain the desired suction.

To ensure high efficiency filtration and effective filter cleaning, the PAK-M is delivered with a ePTFE filter and with an optional secondary H14 filter. Running the cleaning cycle opens the filter cleaning valve and a powerful blast of reversed airflow is created, efficiently dislodging dust from the filter bags. Filter cleaning is initiated based on how much dust is loaded into the filter (on-demand, dP-controlled) or alternatively, timer based, ensuring minimum total number of cleaning cycles and thereby increasing filter life.
The vacuum and control unit, VAC-M, is also sold separately for combination with another, separate dust separator.

- Low operating costs with energy saving VFD to maintain the desired vacuum level and 6 000 hours of filter life in most typical applications.
- Low installation costs - unit complete with VFD as starter, control unit and for adjusting the desired vacuum level - no set-up is needed.
- Efficient, dP-controlled or timer-based filter cleaning minimises number of cleaning cycles and gives longer filter life.
- Low noise level with fan mounted in acoustic enclosure.
- ISO 219 04 (W3) compliance, high filter efficiency and possibility to set vacuum level.

PAK-M

Product name	PAK-M
Noise level (dB(A))	70
Protection class	IP54
Compressed air consumption	700 N-Litres/min (25 cfm)
Installation	Indoor
Suitable for combustible dust	False
Filter cleaning method	Reverse air pulse
Material recycling (% weight)	98 weight-%
Application	Grit, Dust, Fumes, Swarf, Granulate
Dustbin volume (l)	70
Filter Area (m²)	3,4
Power Voltage (V)	380-480
Frequency (Hz)	50/60
Filter type	Bag
Number of filter elements	14
Filter material	Polyester with PTFE
Compressed air requirement	6 - 10 bar (87 - 145 PSI)
Max vaccum (kPa)	25
Inlet	100 mm
Weight (kg)	253
Outlet	100 mm
Power (kW)	7,5 kW @50 Hz 9 kW @60 Hz
Note	Secondary filter type - Polyester, glass fibre, H14, 6.2 m2



PAK-M

Image	Capacity (max airflow m3/h)	Model
	545 m3/h at 15kPa 475 m3/h at 20kPa 405 m3/h at 25kPa	40057001*
	545 m3/h @ 15kPa 475 m3/h @20kPa 405 m3/h @25kPa	40057000

**Secondary filter type - Polyester, glass fibre, H14, 6.2 m2*

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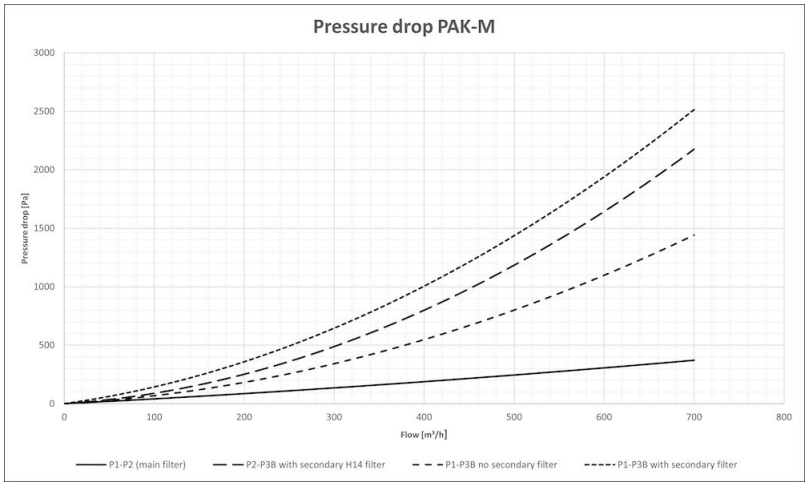
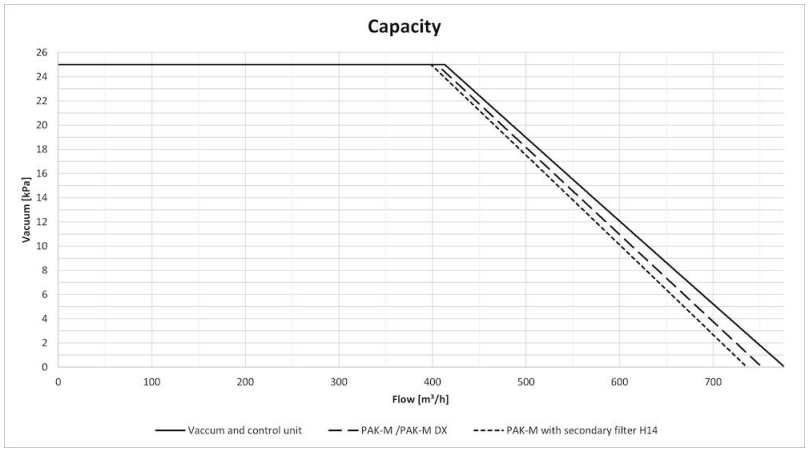
	Accessory	Part No
	Compressed air switch, 3 bar	40620370
	Vibration Sens Kit FlexPAK (IOT)	40377221
	Switch disconnector MS6-KG64	40122310
	Compressed air filter	40620360
	Level Indic. BLI 10-40VDC Compl.	40780710
	Bend spiro BU 100mm 90dgr	40130820
	Grating spiro 100mm	40130220
	Silencer LT100 discharge	40139081
	Mounting kit elec.box (PS)	40903520
	Filter pack F-3.4B complete	40111710

PAK-M

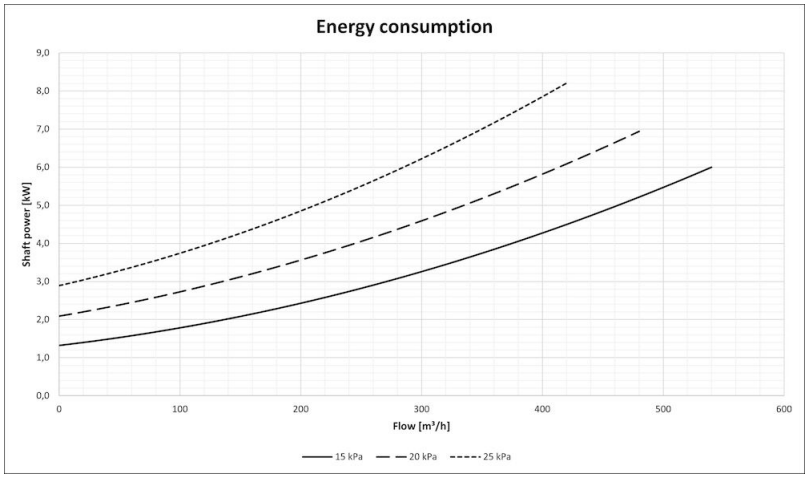


With clean filters.

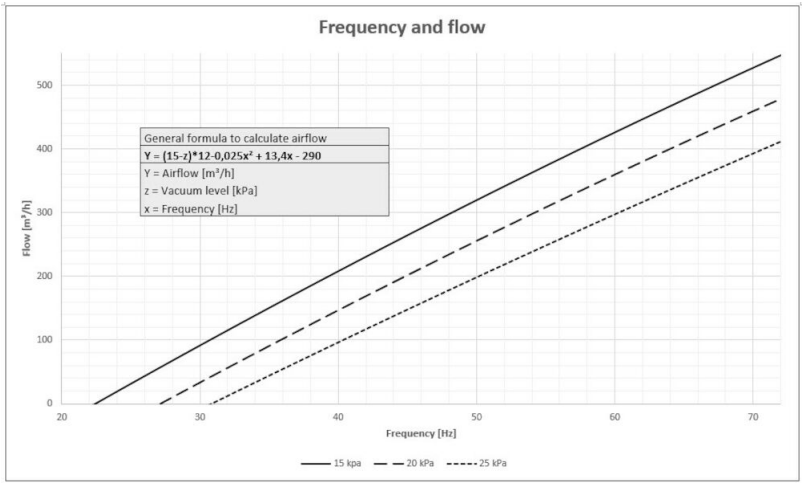


With clean filters. With secondary filter you should normally not use more than 21 kPa since DP over secondary filter is preset to 4kPa (DX has built in secondary filter).

PAK-M



PAK-M/PAK-M DX with clean filters.



PAK-M/PAK-M DX with clean filters and no pressure drop on exhaust ducting. Every kPa in pressure drop over filters and exhaust ducting reduce flow with around 12 m³/h (or frequency by 1.2 Hz). Temperature of unit will affect the calculation slightly.