

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

- ✓ 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.

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.

PAK-M

Certifications	CE
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
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)
Inlet	100 mm
Weight (kg)	253
Outlet	100 mm
Power (kW)	7,5 kW @50 Hz 9 kW @60 Hz

Models

	Item no	Power voltage (V)	Capacity (max airflow m3/h)	Max vacuum (kPa)
	40057000	380-480 (575 for Canada)	545 m3/h @ 15kPa 475 m3/h @ 20kPa 405 m3/h @ 25kPa	25
	40057001 ^[1]	380-480	545 m3/h @ 15kPa 475 m3/h @ 20kPa 405 m3/h @ 25kPa	

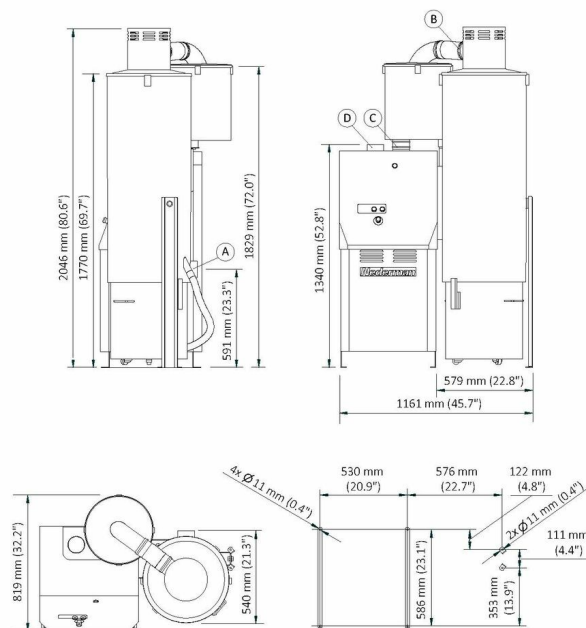
^[1] Secondary filter type - Polyester, glass fibre, H14, 6.2 m2

Accessories

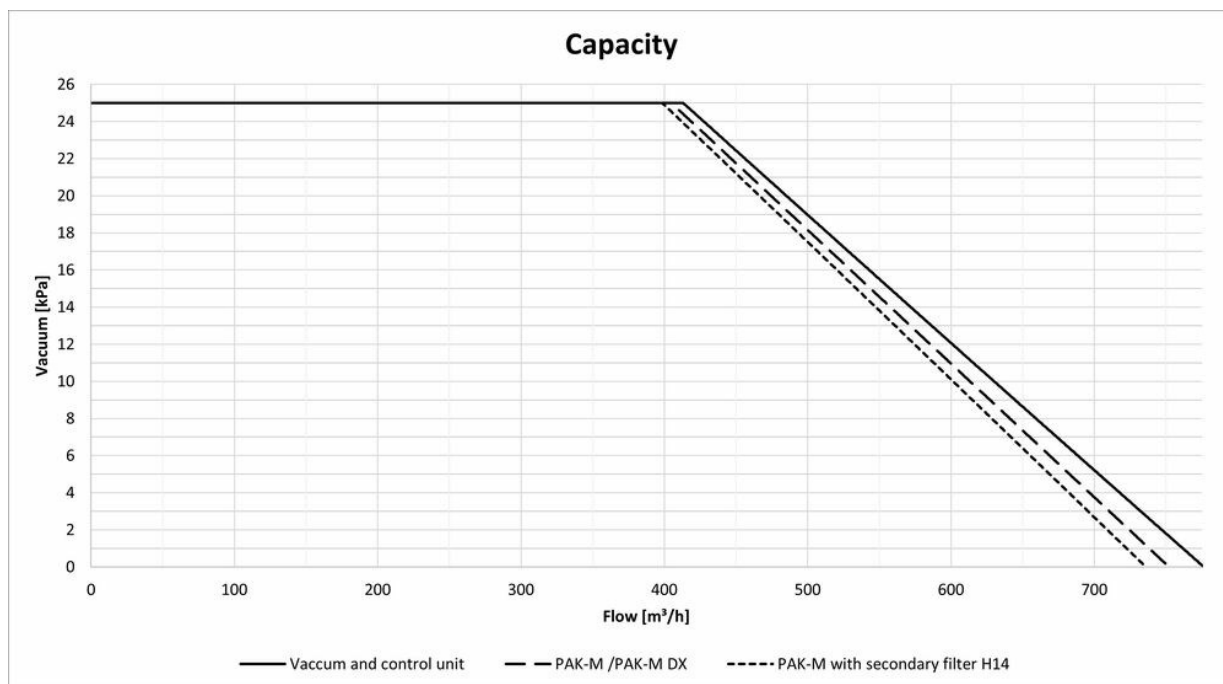
	Accessory	Item no
	Safety switch set to trigger an alarm if there is loss of compressed air pressure.	40620370
	Vibration sensor kit monitors fan and bearing health by tracking vibration levels. Can be programmed to trigger alarms or initiate shutdown if set thresholds are exceeded.	40377221
	Main power disconnection switch. Model MS6-KG64 with a 64-amp capacity, designed to safely cut off power during maintenance operations.	40122310
	Inline compressed air filter captures oil, water, and solid particles within incoming air protecting valves and other sensitive components from clogging or damage, particularly in settings where compressed air quality standards may vary.	40620360
	Bin level indicator monitors and displays the bin fill level ensuring timely emptying and maintenance.	40780710
	90-degree air outlet bend, sized at 100mm (3.94 inches), recommended for exhaust systems to redirect airflow and prevent objects from accidentally entering the intake.	40130820
	Protective exhaust outlet cover, sized at 100mm (3.94 inches), to prevent birds and other small animals from entering the exhaust system.	40130220
	Model LT100 100mm (3.94in) discharge silencer for reducing exhaust noise while maintaining efficient airflow.	40139081
	Electrical mounting kit providing a pilot signal junction box, enabling connection and branching of multiple microswitches from the main power line.	40903520
	Primary filter replacement ensuring effective capture of dust and particles. Consists of a 14 element PTFE coated polyester bag filter providing 3.4m ² (36.6ft ²) of filter area.	40111710
	Secondary filter (sold separately) housing unit providing an additional level of filtration when required.	40370050
	VFD controller display extension housing mounted on outside of cabinet allowing clear readout of warnings and controlling of VFD.	40370060
	H14 grade secondary filter with a 3-layer polyester/glass fibre/polyester design, offering 6.16m ² (66.3ft ²) of filtration area for high-efficiency particle capture.	40370110

Accessories

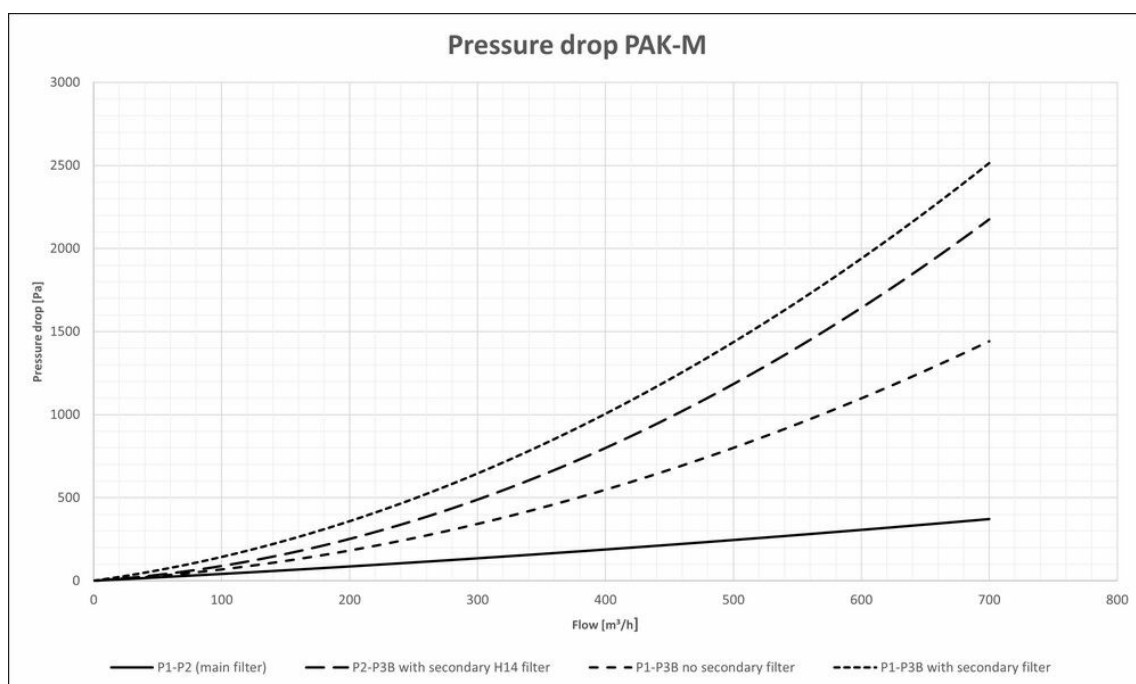
	Accessory	Item no
	Multifunctional control box with enhanced inputs/outputs capable of managing up to four accessory connections. Allows the integration of additional switches and warning signals, enabling comprehensive system control.	40370040



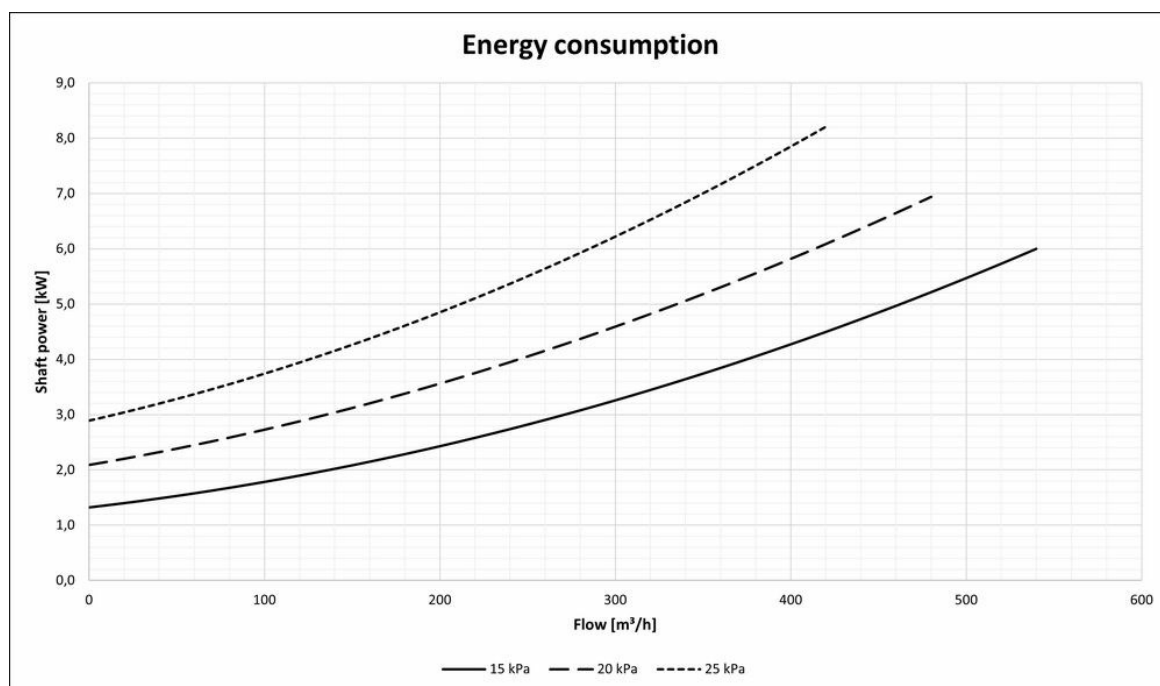
PAK-M dimensions



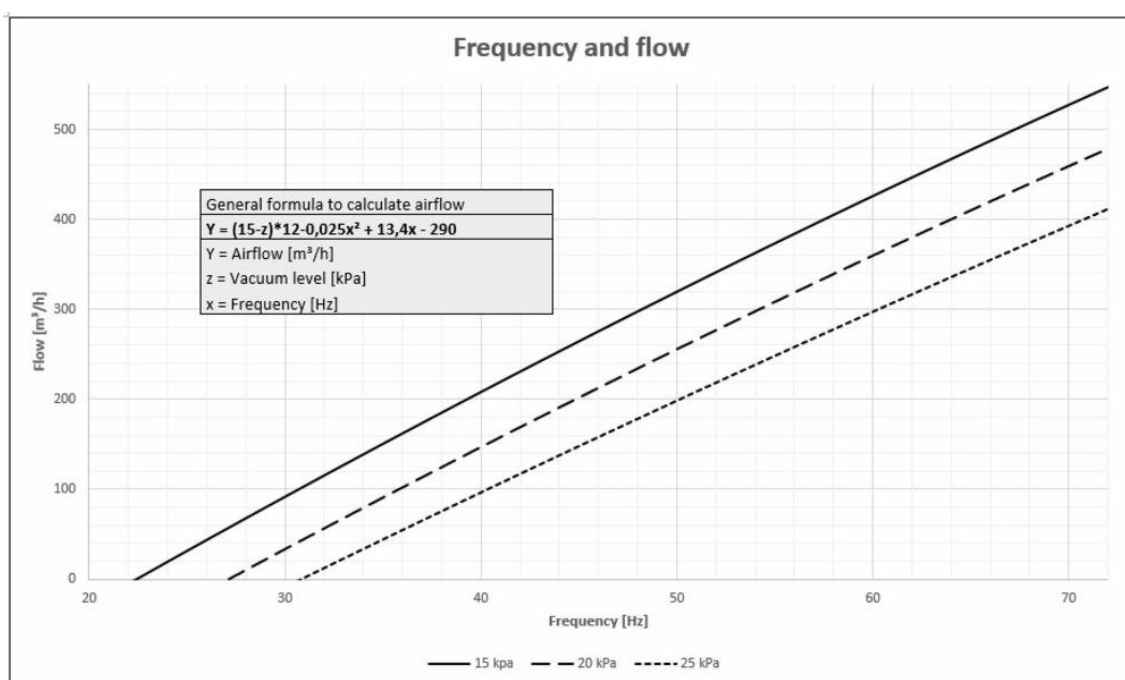
With clean filters. With secondary filter you should normally not use more than 21 kPa since DP over secondary filter is preset to 4kPa (DX has built in secondary filter).



With clean filters.



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



PAK-M/PAK-MDX 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.