

PAK-M

Multi-user centralized high vacuum unit ideal for weld fume and housekeeping applications

PAK-M



PAK-M front view

The Nederman PAK-M is a high-efficiency, centralized vacuum solution designed for multiple extraction points, ensuring consistent airflow and reliable performance for 1-5 users. Ideal for welding fume, dust, and particulate matter, it adapts to various non-combustible dust types, improving safety and operational efficiency.

With Constant Pressure Control, the PAK-M adjusts blower speed in real time to maintain steady airflow, preventing pressure spikes that could disrupt welding quality. Its energy-saving VFD reduces power consumption by adjusting to varying extraction demands, while an auto start/stop function shuts off the unit when inactive, further lowering energy use.

Built for continuous duty, the PAK-M provides up to 30,000 hours of reliable performance under specified conditions. Safety is prioritized with features like overheat protection, spark deterrence, and smart alerts to ensure secure operation. The multi-level cooling system maintains safe temperatures, even in challenging conditions such as low extraction demand, long ducting, or blocked exhaust.

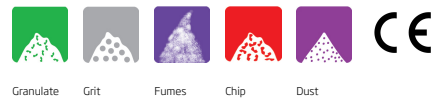
This versatile unit supports both weld fume extraction and industrial housekeeping, with automated extraction controlled by sensors and pilot signals for improved production efficiency. It also offers centralized extraction with flexible tool connections for dust control throughout the facility.

- Extended filter life is achieved through dP-controlled reverse air filter cleaning, which ensures a minimum number of cleaning cycles, increasing filter life to 6,000 hours in most typical applications,
- Reduced operating costs are made possible by the Variable Frequency Drive (VFD), which adjusts to real-time demands and minimizes power consumption,
- Low noise levels during operation are enabled by the fan being mounted in an acoustic enclosure, and the VFD operating the unit at the minimum RPM required to maintain the desired vacuum level.
- Enhanced filtration is provided by the optional secondary HEPA H14 filter, particularly in indoor welding applications that generate hexavalent chromium.
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Product name	PAK-M
Noise level (dB(A))	70
Protection class	IP54
Compressed air consumption	25 cfm
Installation	Indoor
Suitable for combustible dust	False
Filter cleaning method	Reverse air pulse
Material recycling (%)	98 weight-%

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Application	Grit, Dust, Fumes, Chip, Granulate
Dustbin volume (gal)	18.5
Filter Area (ft ²)	36.6
Frequency (Hz)	50/60
Filter type	Bag
Number of filter elements	14
Filter material	Polyester with PTFE
Max vacuum (in. wg)	100
Note	Secondary filter type - Polyester, glass fibre, H14, 6.2 m ²














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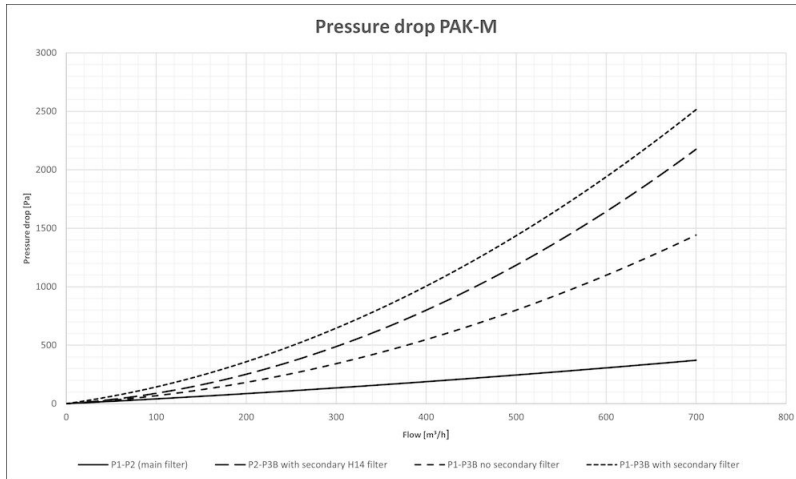
Image	Description	Power Voltage (V)	Compressed air requirement	Capacity (max airflow m ³ /h)	Inlet (inch)	Weight (lbs)	Outlet	Power (Hp)	Model
	PAK-M	380-480 (575 for Canada)	87 - 145 PSI (6 - 10 bar)	320 cfm @ 60 in.w.g. 280 cfm @ 80 in.w.g. 238 cfm @ 100 in.w.g.	3.94 in. (100 mm)	558	3.94 in. (100 mm)	10 (7.5 kW)	40057000
	PAK-M H14	380-480	6 - 10 bar (87 - 145 PSI)	545 m ³ /h at 15kPa 475 m ³ /h at 20kPa 405 m ³ /h at 25kPa	100 mm	253	100 mm	7,5 kW @50 Hz 9 kW @60 Hz	40057001*

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

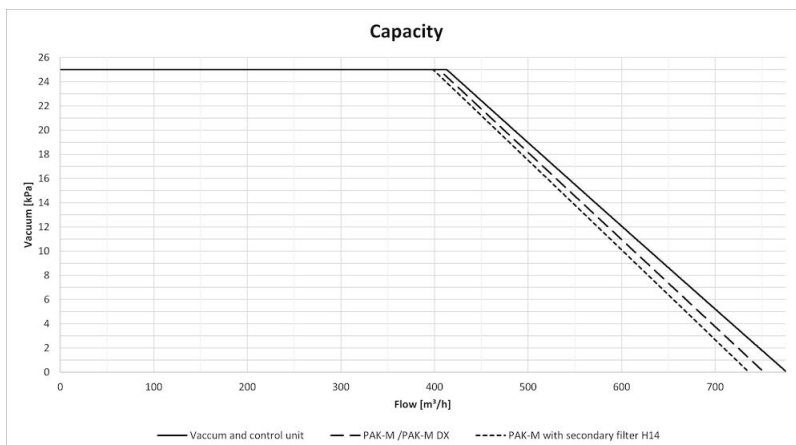
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Accessory		Part No
	Compressed air switch, 3 bar	40620370
	Vibration Sens Kit FlexPAK (IOT)	40377221
	Switch disconnecter MS6-KG64	40122310
	Compressed air filter	40620360
	Level Indic. BLI 10-40VDC Compl.	40780710
	Bend spiro BU 100mm 90dgr	40130820
	Grating spiro 100mm	40130220
	Silencer LT100 discharge	40139081
	Mounting kit elec.box (PS)	40903520
	Filter pack F-3.4B complete	40111710
	Secondary filter housing PAK-M	40370050
	VFD display extension	40370060
	Microfilter D325x360 H14 A=6,16m2	40370110
	Advanced control box	40370040

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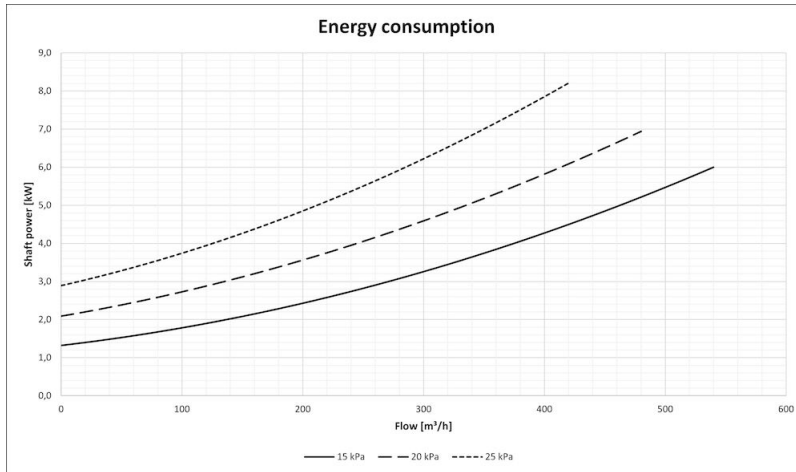


With clean filters.

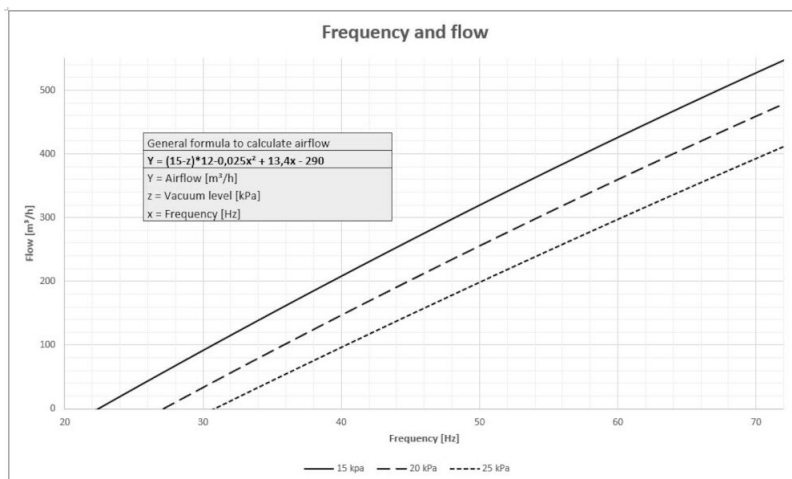


With clean filters. With secondary filter you should normally not use more than 21 kPa since DP over secondary filter is preset to 4kPa (DX has built in secondary filter).

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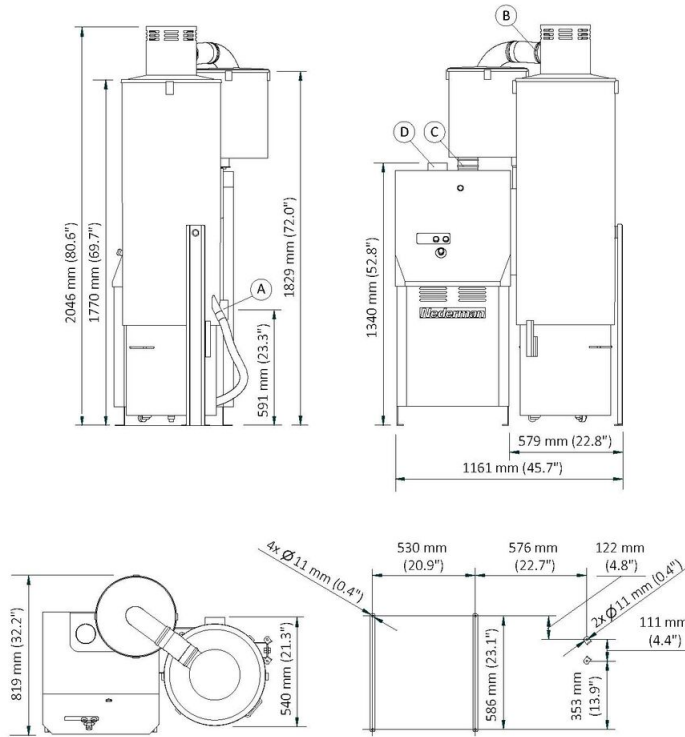


PAK-M/PAK-M DX with clean filters.



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.

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PAK-M dimensions