

PAK-M DX

Designed for combustible dust applications with explosion protection.



PAK-M DX

- ✓ Optimized for combustible dust extraction in demanding metalworking, composite and woodworking applications.
- ✓ Energy-saving VFD automatically adjusts blower speed to maintain the selected vacuum level as extraction demand changes.
- ✓ Demand-based reverse-air filter cleaning minimizes unnecessary cleaning cycles and supports up to 6,000 hours of filter life under typical operating conditions.
- ✓ Low operating noise with an acoustic enclosure and optional discharge silencer for installations with additional acoustic requirements.
- ✓ Configurable explosion protection with relief panel or flameless venting options, supported by built-in monitoring and safety functions for secure operation.

PAK-M DX is a compact, centralized high-vacuum system developed for combustible dust applications across metalworking, composite processing, woodworking and other dry-dust industrial environments. Engineered to support NFPA-compliant system design, it combines extraction, filtration, controls and required explosion protection in a complete solution for on-tool extraction and housekeeping across 1–5 simultaneous users or extraction points. Its powerful vacuum capacity also provides the flexibility needed for centralized installations with longer piping runs.

The system is designed to operate with minimal operator intervention. Built-in sensors continuously monitor operating conditions, while automatic controls respond to changing extraction demand, manage filter cleaning and provide system protection. An extended display provides operators with convenient access to system settings and operating information, helping simplify control and day-to-day system management.

PAK-M DX can be configured with an explosion relief panel or with flameless venting for organic or metallic dust. This flexibility allows the explosion protection concept to be selected around the dust characteristics and installation environment, including applications where indoor installation requires flameless venting.

PAK-M DX

Certifications	CE, EX
Protection class	IP54 (Dust separator IP65)
Compressed air consumption	25 CFM (700 NL/min)
Installation	Indoor
Suitable for combustible dust	True
Filter cleaning method	Reverse air pulse
Application	Grit, Dust, Chip, Granulate
Dustbin volume (gal)	18.5
Filter Area (ft²)	32.3 (3 m²)
Power voltage (V)	380-480
Frequency (Hz)	50/60
Filter type	Bag
Number of filter elements	24
Compressed air requirement	87-145 PSI (6-10 bar)
Noise level (dB(A))	< 70 dB(A) @ 60 in.w.g.
Capacity (max airflow CFM)	321 CFM @ 60 in.w.g., 280 CFM @ 80 in.w.g.
Max vacuum (in. wg)	85 in.w.g (21 kPa)
Inlet (inch)	4 in. (100 mm)
Weight (lbs)	833-866 lb
Outlet (in)	4 in. (100 mm)
Power (Hp)	12 HP (9 kW) @ 60 Hz

Models

	Item no	Filter material
	40057002 ^[1]	Polyester, antistatic
	40057003 ^[2]	Polyester with PTFE, antistatic
	40057004 ^[1]	Polyester, antistatic
	40057005 ^[2]	Polyester with PTFE, antistatic
	40057006 ^[1]	Polyester, antistatic
	40057007 ^[2]	Polyester with PTFE, antistatic

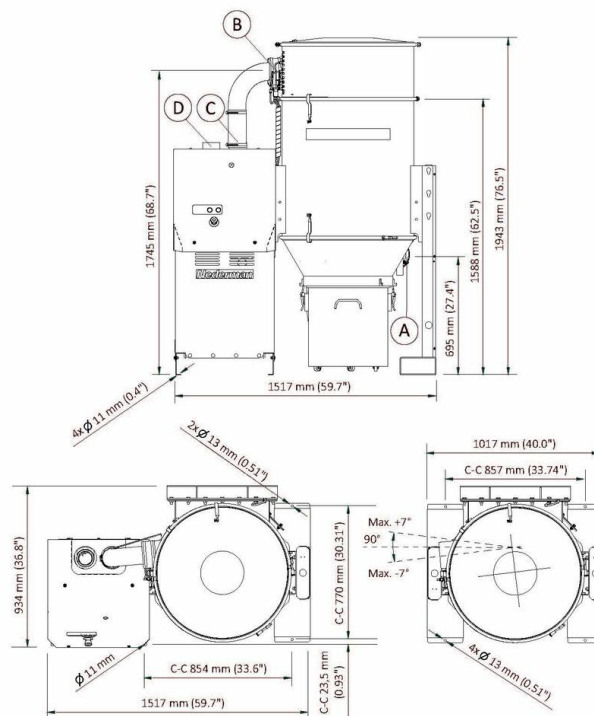
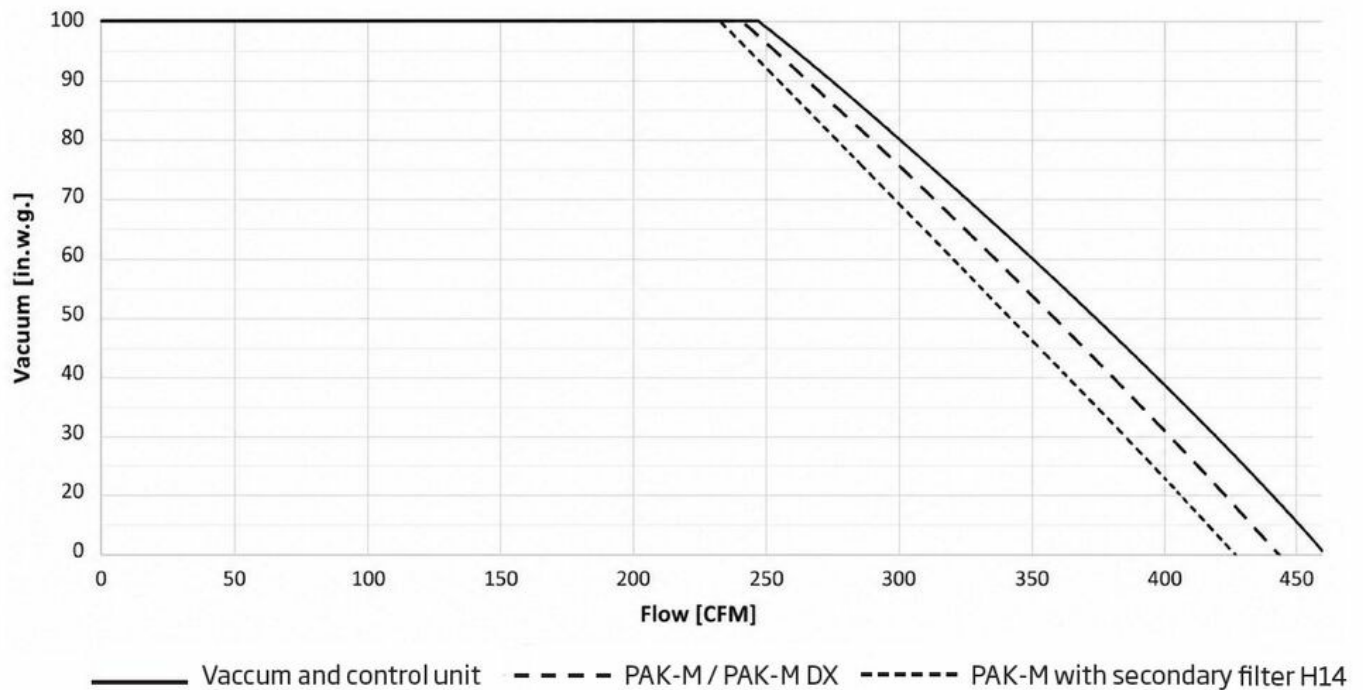
^[1] Secondary filter type - Polyester, Class M, 5.4 m2
^[2] Secondary filter type - Polyester, glass fibre, H14, 5.2 m2

Accessories

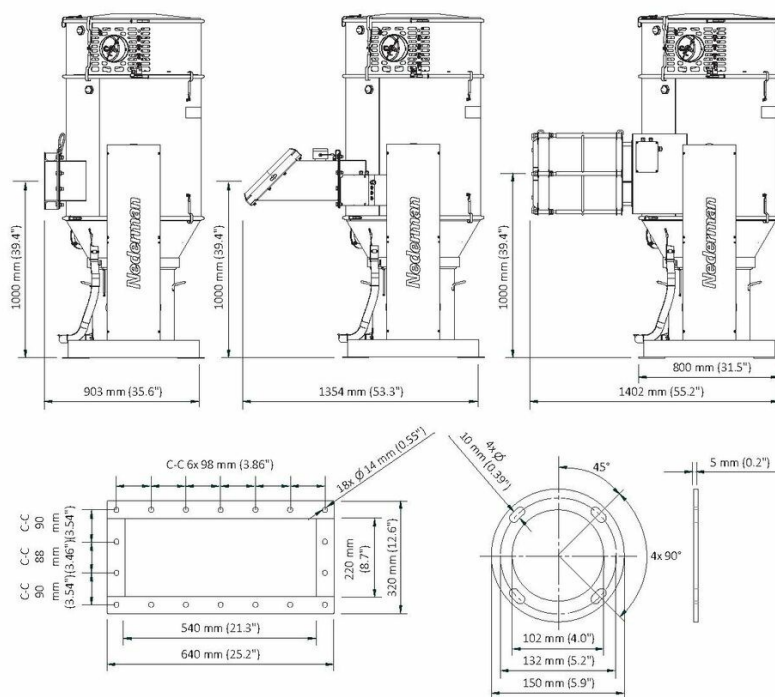
	Accessory	Item no
	CAS Compressed Air (Safety) Switch - 3 bar - Triggers Alarm when loss of compressed air pressure	40620370
	Vibration sensor kit monitors fan and bearing health by tracking vibration levels. Can be programmed to trigger alarms or initiate shutdown if set thresholds are exceeded.	40377221
	Firealarm filters compl.	40116540
	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
	BLI EX - Bin Level Indicator - ATEX	40375269
	Explosion Valve Deflector - 9 in x 21 in	40376771
	Flanged pipe d100, 1m	40376521
	Pressure-resistant flanged pipe, 0.5m (19.69 inches) in length and 100mm (3.94 inches) in diameter to use between the B-flap isolation valve and the unit for safety and compliance.	40376522
	High Vac Galv Flanged 90 Degree Pipe Elbow - D = 4 in (100 mm) for use between B-flap Isolation Valve and unit	40376523
	Adapter flange designed to ensure compatibility between standard piping and B-flap systems, with a DN100 (3.94 inches) size for seamless connection.	40377308
	Transition pipe with flanged ends, 0.2m (7.87 inches) in length and 100mm (3.94 inches) diameter, used to connect flanged pipes to standard piping systems.	40377307
	Replacement Plastic Bags for FlexFilter and FlexPAK - 29 in x 35 in (730 mm x 900 mm) - 20pcs	40118800
	Electrical mounting kit providing a pilot signal junction box, enabling connection and branching of multiple microswitches from the main power line.	40903520

Accessories

	Accessory	Item no
	Main filter PAK-M DX Antistatic	40370070
	Additional filtration unit support leg for use when separating the control/vacuum unit from the filtration system for improved versatility and accessibility.	40370030
	PAK-M VFD Display Extension with cable	40370060
	H14 grade secondary filter with a 3-layer polyester/glass fibre/polyester design, offering 5.18m ² (55.7ft ²) of filtration area for high-efficiency particle capture.	40370100
	Main filter PAK-M DX Antistatic PTFE	40370080
	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
	Replacement filter cartridge for secondary filter, offering 5.4m ² (58.1ft ²) of filtration area. Designed as a safety filter to reduce Zone 22 classification to a no-zone level before the suction unit.	43130200



PAK-M DX dimensions



PAK-M DX explosion relief dimensions