

Our Vacuums Feature:

Explosion proof / dust ignition proof



Pneumatic or electric operation:

Single or three phase electric motor available. Single and twin venturi suction systems available for pneumatic models.

All stainless steel AISI 304 construction

Detachable recovery container for easy disposal

Conductive polyliner and retainer clip available for certain models

**HEPA filters (H14)
99.995% @ 0.3microns**

Available with Cartridge or Cloth filters for hygroscopic powder

Cleanroom compatible

Call our sales department to get more information on which system is right for your application.



	CD-3/4/5/7 EX	CD-10 EX	CD-2600 EX	EUR-25/50L EX	EXP1-35L EX	SS-35L EX	SS-63L EX
Operation	Three Phase Electric Motor	Three Phase Electric Motor	Single or Three Phase Electric Motor	Single or Three Phase Electric Motor	Single Phase Electric Motor	Single Venturi Pneumatically(Air) Operated	Single or Twin Venturi Pneumatically(Air) Operated
Filter cleaning system	MRP, ARP, APS, AFS & RPS	APS, AFS, RPS	ARP, MRP	MRP	MRP	MRP	MRP
Recovery tank capacity	16.7 gal / 63 liters (4-7) 0.25 gal / 35 liters (3)	22.7 gal / 100 liters or 34 gal / 150 liters	0.25 gal / 35 liters	6.6 gal / 25 liters 13.2 gal / 50 liters	0.25 gal / 35 liters	0.25 gal / 35 liters	16.7 gal / 63 liters
Tools & Accessories	Optional	Optional	Optional	Optional	Included	Included	Included
HEPA Filter H14	Optional	Optional	Optional	Optional	Included	Included	Included
Number of Cartridges or Filters	1-3	1-4	1	1	1	1	1
Continuous Operation	Yes	Yes	Yes	Yes	No	Yes	Yes
Polyliner & Clip	Optional	Optional	Optional	Optional	Included	Included	Included

Pictures for illustration purposes only

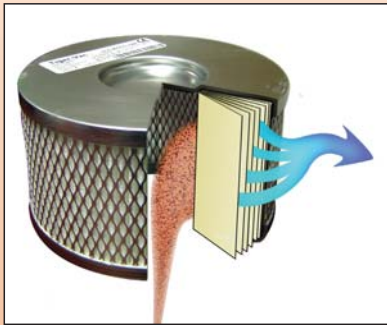
HEPA Filtration...

A high efficiency particulate air or HEPA filter (H14) can capture small particles and keep them from getting exhausted back into the ambient air. Tiger-Vac HEPA filters are rated to capture 99.995% of particles 0.3 microns in size, and are rated for biomedical, pharmaceutical, nuclear and industrial applications.

Originally designed for the Manhattan Project to prevent the airborne spread of radioactive particles, the HEPA filter became the industry standard where nothing but the best in filtration is required

So what does 99.995% filtration of 0.3 microns really mean? A micron is one millionth of a meter; your average human hair is 70 microns in diameter, ragweed pollen is approximately 20 microns in diameter and the period (.) at the end of this sentence is about 600 microns across. Tiger-Vac HEPA filters keep you and your employees safe by keeping hazardous and unhealthy particles from getting into the air you breathe. Potential dangers are avoided and employees feel safer at the workplace and are more productive.

Trust us, safety has no compromise.



The right system for your application...

Filter Cleaning by Reverse Purge:

Reverse Purge allows for the cleaning of caked-on powder off of the filter cartridge, thus maximizing performance. The filter cleaning is achieved by having the air intake reversed through the filter thus purging the clogged filter. Tiger-Vac offers both manual and automatic reverse purge systems to fit your needs.

Our manual system (**MRP**) operates by closing the slider on the opening to block the suction intake orifice for approximately 5 seconds while the vacuum is running and quickly opening the Purge Valve, air will flow backwards through the filter via the valve removing any caked on dust particles.

Our automatic system (**ARP**) is ideal when the vacuum cleaner will be attached to a processing system and the operator does not have the time to continually perform a manual purge.

The cleaning effect occurs from within the filter cartridge, like a cannon blast, for half a second. During that split second, all of the airflow that is located inside of the cartridge is pushed back towards the exterior of the filter cartridge, de-caking the fine dust from off of the cartridge. This effect is called "Cannon Blast Cleaning".

Filter Cleaning by Automatic Purge:

A full immersion system for hazardous locations, Automatic Purge (**APS**) consists of a round header tank with fully integrated diaphragm valves, is built inside of the filter chamber. The system operates with filtered, oil-free compressed air. The diaphragm valves are opened in sequence by a solenoid valve controlled by pneumatic (air) operated timers located outside of the filter chamber.

A short pulse of compressed air is injected into the top of the static dissipating and conductive PTFE laminated filter cartridges creating a stronger airflow downward moving pressure wave. This wave breaks up the accumulated dust that is caked onto the cartridges.

The pneumatically (air) operated controls, located outside of the filter chamber, allow only one cartridge to be cleaned at any given time, thus ensuring that the vacuum cleaner operates continuously.



Filter Cleaning by Filter Shaker:

Automatic Filter Shaker system (**AFS**) for hazardous locations consisting of a double acting air cylinder operating directly onto the stainless steel filter cage located inside of the filter chamber. The system is operated by filtered, oil-free compressed air. The frequency of the shaking cycle is controlled by pneumatic (air) operated timers located outside of the filter chamber.

Short strokes are applied to the filter cage freeing the accumulated caked on dust from the static dissipating and conductive polyester flourocarbon treated filter and allowing them to flow out, thus ensuring continuous duty and minimizing friction loss filter performance.

Included a static dissipating pre-filter for fine dusts. The pre-filter is installed first. It sits on the lip of the tank and is held in place by an elastic. Made of polyester, it is static dissipating and conductive. The Pre-Filter is washable and reusable.

The static dissipating and conductive polyester flourocarbon treated filter, along with the stainless steel filter cage, can be easily removed from the filter chamber and washed with lukewarm water and mild detergents.



Filter Cleaning by Reverse Pulse:

A reverse pulse filter cleaning system (**RPS**) for hazardous locations using compressed air and jets operating directly inside the filter cartridge. Located inside of the stainless steel filter chamber, the system is operated by filtered, oil-free compressed air. The frequency of the pulsing air is controlled by pneumatic (air) operated timers located outside of the filter chamber.

Short bursts of air are streamed on to the filter freeing the accumulated caked on dust from the static dissipating and conductive PTFE laminated spun bond polyester filter cartridge and allowing them to flow out, thus ensuring continuous duty and minimizing friction loss filter performance.

The static dissipating and conductive PTFE laminated spun bond polyester filter cartridge can be easily removed from the filter chamber and safely disposed.



For more information on Tiger-Vac' products and services, please visit our Web sites:

www.tiger-vac.com
Europe: www.tiger-vac.eu

Vacuum Cleaner Systems for Contamination Controlled Environments & Hazardous Locations:

- Explosion Proof Vacuum Cleaners
- Cleanroom Vacuum Cleaners
- Industrial Vacuum Cleaners
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- Dustless Vacuum Sanding Solutions
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- HEPA & ULPA Filtration



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mnp-spread_AM_En/Ver. 1/Nov. 2008

Printed in Canada.

THE ULTIMATE IN FILTER CARTRIDGE CLEANING SOLUTIONS
Explosion Proof/Dust Ignition Proof Vacuum Cleaner Systems

PTFE Flourocarbon Media & Special Filters for Hygroscopic Powders



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