

**EXPLOSION PROOF AND DUST IGNITION PROOF VACUUM CLEANER SYSTEMS
 ELECTRICALLY OPERATED
 MODELS CD-3 EX (MFS), CD-3 EX (MRP) AND CD-3 EX (ARP)**



- For use in Class I Group D T3C and Class II Groups F, & G. Hazardous locations as defined in NFPA (NEC) 70-500. Class II Group E - metal dust motor available - optional
- Ideal for pharmaceutical plants, cleanrooms, food processing industries, packaging facilities.
- Industries using aluminum, magnesium and other commercial alloys in the fabrication of metal products such as powder, ingot, plate, sheet, strip, ribbon, foil, rod and tubing.
- Can be used for either spot cleaning or as a mobile unit.
- All Stainless Steel AISI 304 construction (AISI 316L electropolished available).
- Continuous duty 3 phase TEFC (Totally Enclosed, Fan Cooled) motor: 4 kW (5.4 HP).
- For dry recovery only.
- Models CD-3 EX (MFS/MRP) are equipped with a manual mechanism for self-cleaning filter systems (see reverse).
- Model CD-3 EX (ARP) is equipped with an automatic reverse purge system for the self-cleaning filter systems (see reverse).
- HEPA Filter 99.995% @ 0.3 micron. Tested: IEST RP-CC001.3 (H14 by MPPS method as per EN1822.) Rated 285 CFM (120 l/s). Or ULPA filter 99.999% @ 0.12 micron. Filtration Efficiency of 99.9995% @ 0.18 micron. Tested: IEST RP-CC001.3 (U15 by MPPS method as per EN1822). Compatible with ISO class 4 (former class 10) cleanroom conditions.

CD-3 EX (MFS/MRP/ARP) VACUUM CLEANER SYSTEMS FOR HAZARDOUS LOCATIONS

Toll free telephone: 1 800 668-4437
Toll free fax: 1 800 668-4439

Tiger-Vac Inc. (USA)
73 S.W. 12 Ave. Bldg.1, Unit 7
Dania, FL 33004
USA
Tel.: (954) 925-3625
Fax.: (954) 925-3626
E-mail: sales@tiger-vac.com

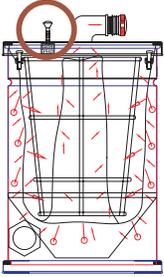
Web Site: <http://www.tiger-vac.com>

Tiger-Vac International Inc.
2020 Dagenais Blvd. West
Laval, Quebec
Canada H7L 5W2
Tel.: (450) 622-0100
Fax.: (450) 625-3388
E-mail: support@tiger-vac.com

Model	Phase/Volts 50 Hz	AMPS	IP	kW	Air flow m ³ /h	Vacuum at sealed orifice (mm H ₂ O)
CD-3 EX (MFS/MRP/ARP) Series	3/400	8.7	65	4	300	3370
Dimensions: L 43.5" (110cm) x H 51.5" (130cm), 353 lbs.(160 kg)					Noise level: 82 dB(A) at 6.5' (2m)	

*Dimensions and weight may vary slightly from models and optional features

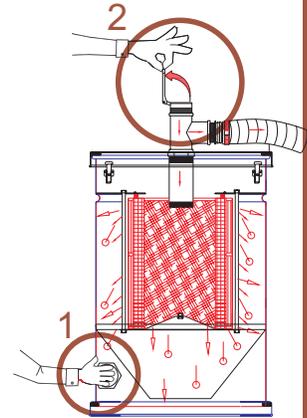
Manual filter shaker system (MFS)



- The filter shaker system consists of a spring action mechanism operating directly onto the filter cage located inside of the filter chamber. The system is operated by pressing on the ergonomic handle located at the top of the filter chamber.
- The Manual Filter Shaker dislodges the accumulated caked-on dust from the filter thus improving the filter's performance.
- A dralon pre-filter for very fine dust is included with the MFS filtration system.
- The filter, along with the filter cage, can be easily removed from the filter chamber and washed with lukewarm water and mild detergents.
- The reusable (washable) and conductive polyester filter with a fluorocarbon treatment has a surface area of 10 ft² (9290 cm²)

Manual reverse purge system (MRP)

- The Manual Reverse Purge (MRP) allows for the cleaning of caked-on powder off of the filter thus maximizing performance. The filter cleaning is achieved by having the air intake reversed through the filter thus purging the clogged filter.
- The Manual Reverse Purge (MRP) works by :
 - ① Placing a hand over the opening to block the suction intake orifice for approximately 5 seconds while the vacuum is running. (No.1)
 - ② Then quickly open Purge Valve (No.2). Air is now flowing via the valve through to the filter.
 - ③ Keep Purge Valve open for 1-2 seconds then close (repeat above steps 2 or 3 times).
- Reverse Purge System will cause dust to fall off of the filter.
- The filter cartridge is made of conductive spun bond polyester with PTFE membrane and has a surface area of 40 ft² (37 161 cm²)



Automatic Reverse Purge System (ARP)

The Automatic Reverse Purge System requires a small 2 HP compressor on a 1/4" air line hose @ 5 bar (80 psi), 3.78 l/s (8 cfm) to feed the system. This system 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. A flap has been installed inside of the suction port and will close automatically when the vacuum cleaner is turned off, thus eliminating the risk that any powders or debris will escape from the unit when operating the ARP without any suction power.

Using the Automatic Reverse Purge System:

- A - Connect the quick disconnect from the airline hose to the 1/4" air intake
- B - Adjust the pressure relief valve to 5 bar (80 psi) by turning the grey knob (Note: must be set below minimum air pressure.)
- C - The Flow control (brass knob) regulates the air flow and purge time intervals - this is dependent upon the type of dust being recovered – we recommend one minute or less.
- D - The Air Reservoir will fill automatically while the system is operating
- E - The Bleed Orifice's only function is to release pilot pressure between purges.
- F - This Directional Control Valve automatically controls the airflow and activates the purge
- G - This Directional Control Valve is activated by # F. When pressure is reached the flap will open and create the purge.

We suggest that the cleaning sequence for the Cartridge Filter be set at 60 seconds. The length of the sequence may change depending on the consistency of the fine dusts to be recovered.

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 the exterior of the Filter Cartridge, de-caking the fine dust from off of the Cartridge. This effect is called "Cannon Blast Cleaning".

For complete details please visit our website: WWW.TIGER-VAC.COM or contact one of our technical representatives.

Specifications are subject to change without notice. Tiger-Vac is a registered trademark.