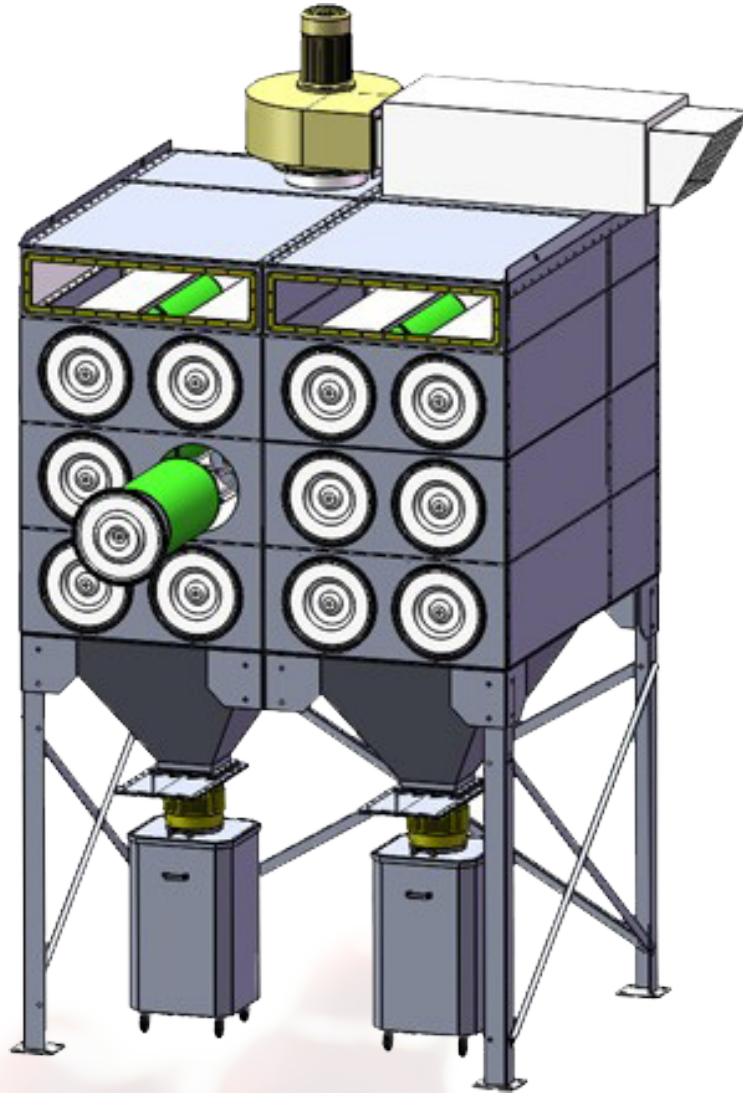




INDUSTRIAL
Minerals (NZ) Ltd

Freephone NZ 0800 646 372
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www.mineralscorp.com

Horizontal Cartridge Dust Collector

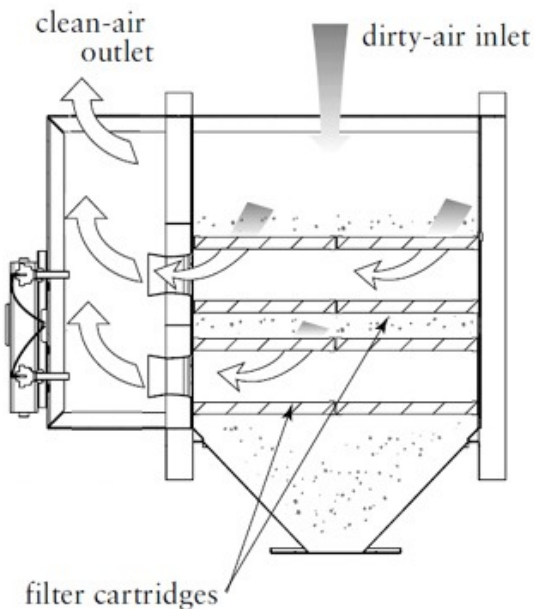


Dust Collector from 4,000cfm to 64,000cfm (8 ~ 128 Cartridges)

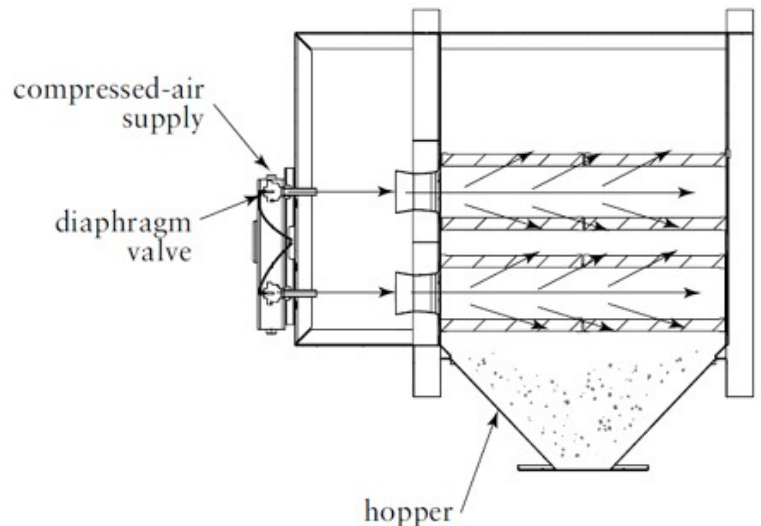
- Modular assembly structure makes for quick manufacturing and installation
- Major components tested before delivery
- Compact structure effectively minimizing site space
- Various filter cartridge media available for various dust collection applications
- Long lasting and highly efficient filter cartridges, including flame retardant
- Specially designed venturi and supersonic nozzle improve the reverse pulse cleaning, increasing the filter life significantly
- External cartridge change-out making maintenance simple
- Spark Arrestor option available
- Custom design options available



Unit Descriptions & Operation Explanation



Normal Operation



Filter Cleaning Operation

Horizontal cartridge dust collectors use gravity and downward airflow to achieve self-cleaning and reduce pressure across the cartridge filters. They collect airborne contaminants from industrial processes varying from abrasive blasting, welding and metal working to chemical and pharmaceutical processing. The units can be used in almost every manufacturing processes and efficiently control dust and pollution levels. They are economical, simple to install with easy maintenance. They are suitable for fine and low dust loading applications.

During normal operation, dust-laden air enters the unit through the dirty-air inlet. Airflow is directed downward through the collector and heavier particulate falls directly into the hopper. The cartridges remove fine particulate and clean filtered air passes through the cartridges to the clean-air plenum and discharges through the clean-air outlet.

Filter cleaning is completed using pulse-jet technology. A solenoid and diaphragm valve aligned to each row of filters provides the pulse cleaning. The cleaning sequence starts at the top filter row and continues down through each row. Filters can be removed, inspected, or changed from outside the unit by removing the filter access cover and sliding the filters out.



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Dust Collector Components

1. Centrifugal fan

2. Dirty air inlet

3. Deflector plate

4. Cartridge filter

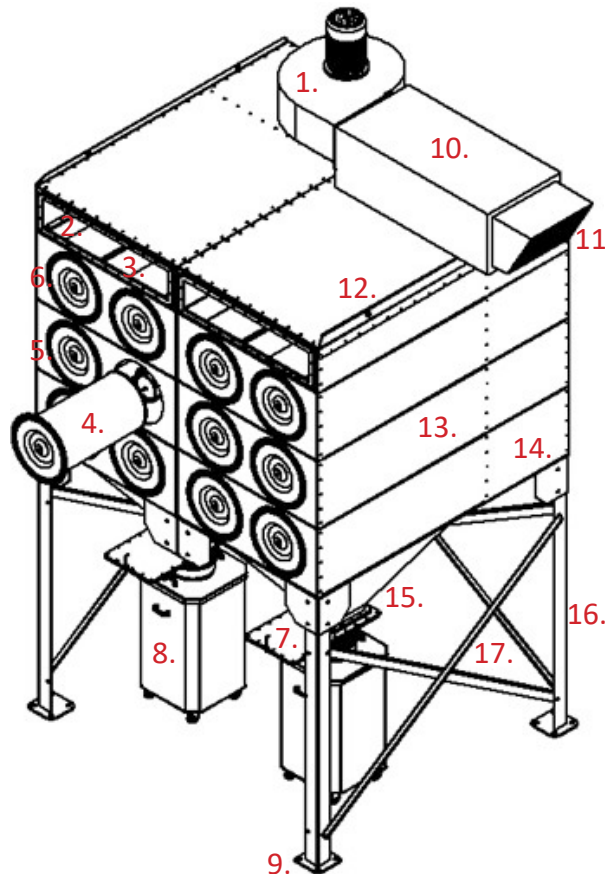
5. Cartridge door

6. Hand knob

7. Slide gate

8. Dust bin

9. Anchor foot



10. Exhaust silencer

11. Clean air outlet

12. Lifting eye

13. Cartridge chamber

14. Clean air chamber

15. Hopper

16. Legs

17. Leg bracings

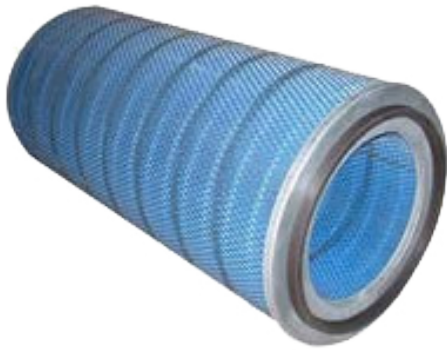
Construction: Material: Carbon steel, Stainless steel or Galvanized steel

Surface Finishes: Enamel, Epoxy or powdercoat finishes available

Standard Operating Conditions

- Seismic Rating (zone): 4
- Wind Load Rating (Km/h): 160
- Housing Rating (Pa): +3800 / -5000
- Valves and controls: 50/60 KHz
- Compressed Air Required: 0.62-0.67MPa (90-100 psig)

Typical Cartridges & Applications



Cellulose Cartridge

Application:

- Metal working
- Plasma / Laser cutting
- Abrasive Blatings / Shot blasting
- Mining industry
- Gas turbine inlet
- Other dust collection applications



Anti-static Filter Cartridge

Application:

- Metal, Wood, Chemical, Cement, Food Paper, Plastic
- Abrasive Blatings / Shot blasting
- Foundry Dust
- Powder, Mineral Processing



Spun Bond Polyester Cartridge

Application:

- Metal, Wood, Chemical, Cement, Food, Paper,
- Pharmaceutical
- Welding Smoke
- Abrasive Blatings / Shot blasting
- Foundry Dust
- Mineral Processing

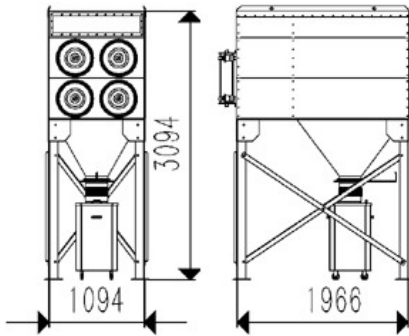


Cartridge with PTFE Membrane

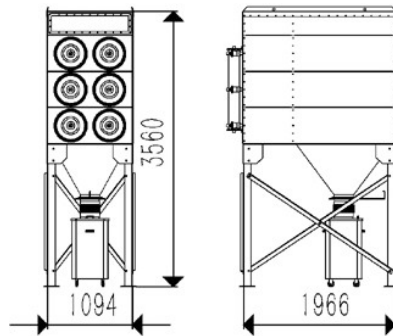
Application:

Filtration of very, very fine dust types in Chemical, Pigment, Al-pulver Welding Fume, Pharmaceutical and other sticky agglomerative dust collections.

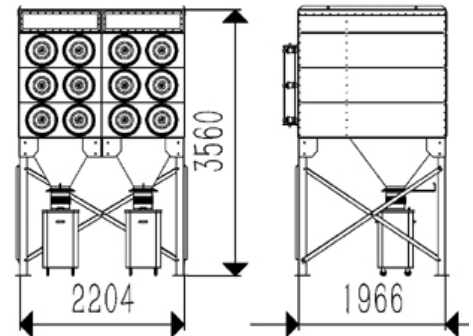
Typical Model Outer Dimensions



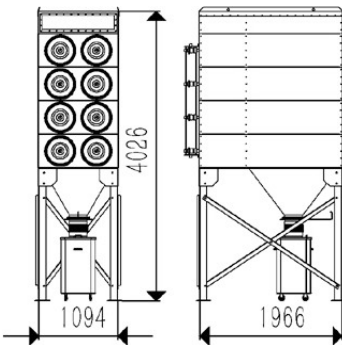
IM2-8



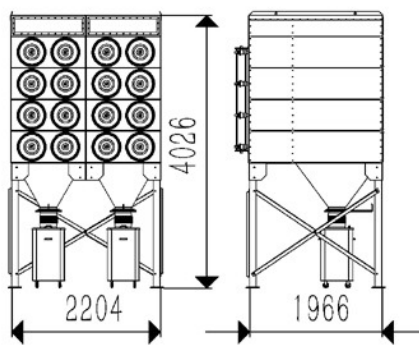
IM3-12



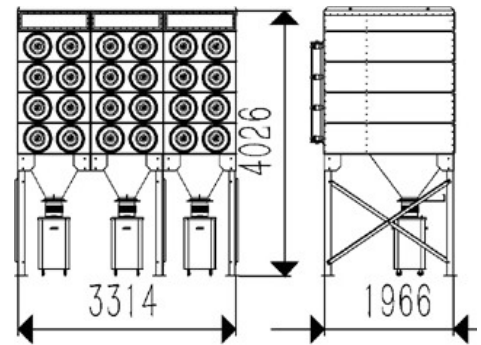
IM3-24



IM4-16

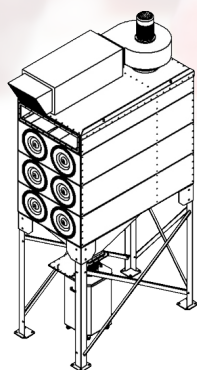


IM4-32

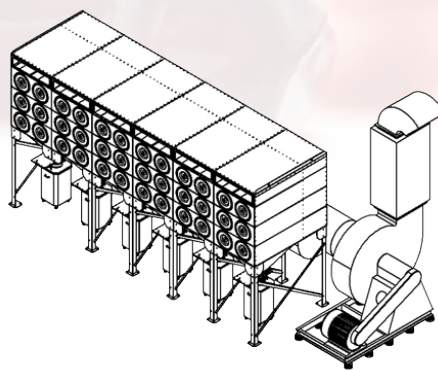


IM4-48

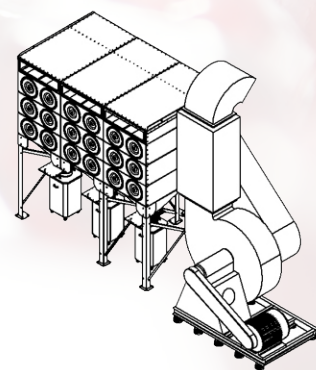
Fan Mounting Style



Top Mounting



Ground Mounting 1



Ground Mounting 2

Specifications

Model	Cartridge Numbers	Filter Area (Sq.M)*	Valve Numbers
IM2-8	8	184	4
IM2-12	12	276	6
IM2-16	16	368	8
IM2-24	24	552	12
IM2-36	36	828	18
IM3-12	12	276	6
IM3-24	24	552	12
IM3-36	36	828	18
IM3-48	48	1104	24
IM3-60	60	1380	30
IM3-72	72	1656	36
IM4-16	16	368	8
IM4-32	32	736	16
IM4-48	48	1104	24
IM4-64	64	1472	32
IM4-80	80	1840	40
IM4-96	96	2208	48
IM4-112	112	2576	56
IM4-128	128	2944	64

* The filter areas are based on the filters with cellulose media. Please contact us for filter area with other filter media

Standard Components

- Cartridge filter chamber
- Clean air chamber
- Cellulose cartridge filters
- Hopper
- Slide gate
- Centrifugal fan
- Fan exhaust silencer
- Dust bin with hose and casters
- Pulse valves
- Compressed air tank
- Pulse valve controller
- Prime and surface painting

Optional Components

- Other media cartridge filter
- Fan exhaust silencer
- Fan control cabinet
- Explosion relief vents
- Differential pressure controller
- Rotary valves
- Access platform
- Epoxy surface coating
- Powder Coating surface coating