

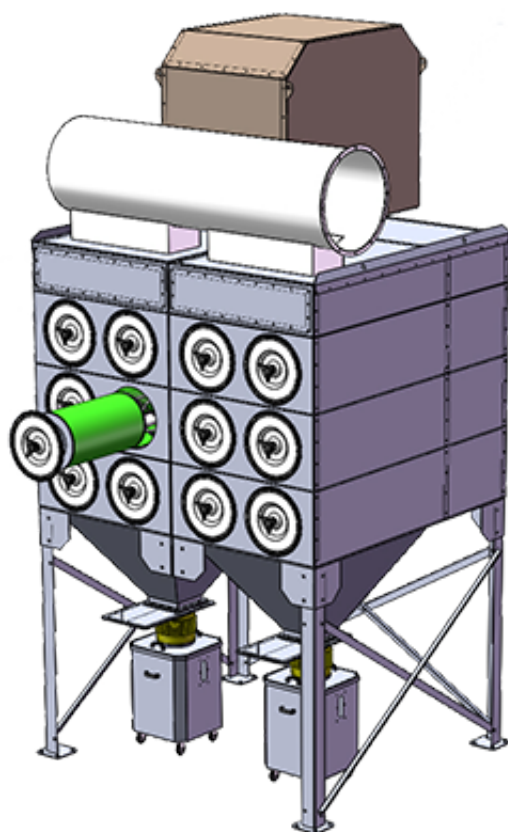


Suzhou Glorair Purifying Equipment Co., Ltd.

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www.IndustrialCleanAir.com www.Glorair.com

Horizontal Cartridge Dust Collector

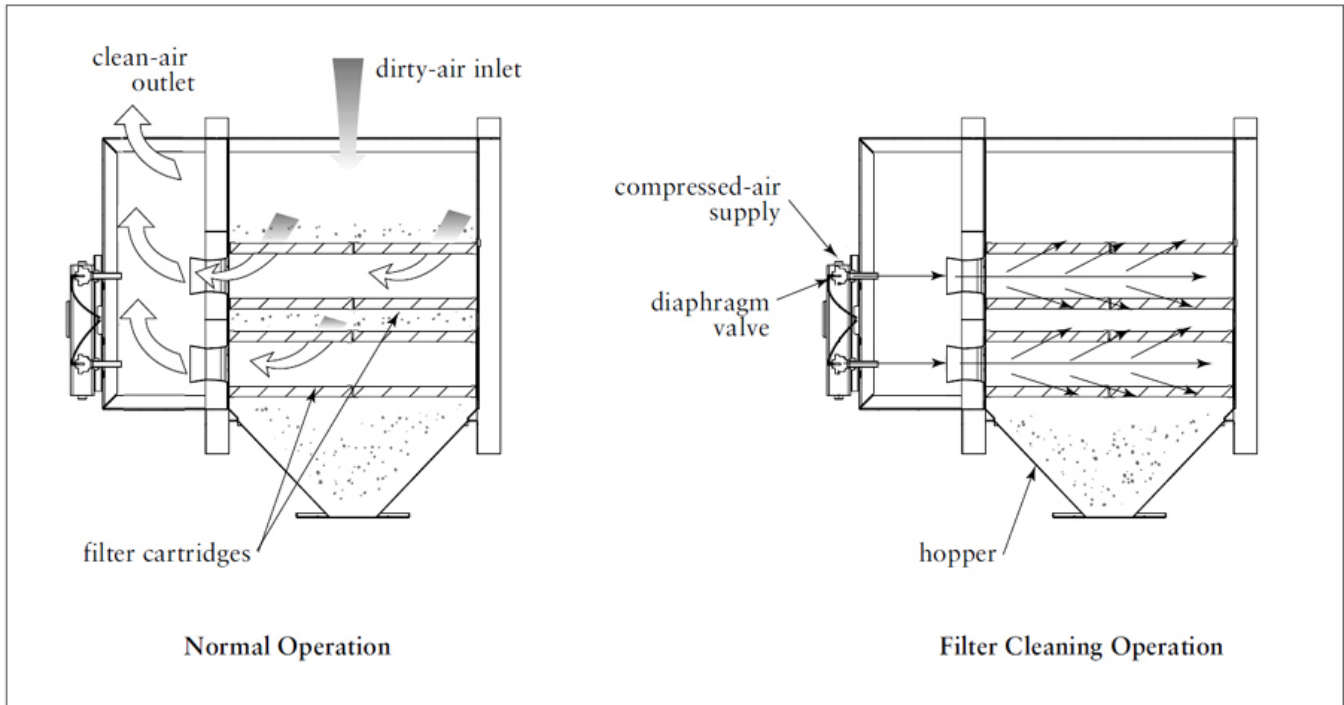


Dust Collector from 12~80 Cartridges

- Modular and bolt-on structure makes quick manufacturing and fast delivery
- Most of the components pre-installed and tested in factory before delivery. Minimum site installation required
- Various cartridge filter media available for various dust collection applications
- Special designed deflector plates greatly reduce the dusts falling from top cartridges to down cartridges. This ensures longest cartridge filter life.
- Special venturi and supersonic injection nozzles achieve the premium pulse cleaning effects on filters. The cartridge extraction system working with highest performance
- Flexible configurations to fit site conditions. The inlet and control placement can be set up to fit specific facility needs.

Horizontal Cartridge Dust Collector

Unit Descriptions & Operation Explanation



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

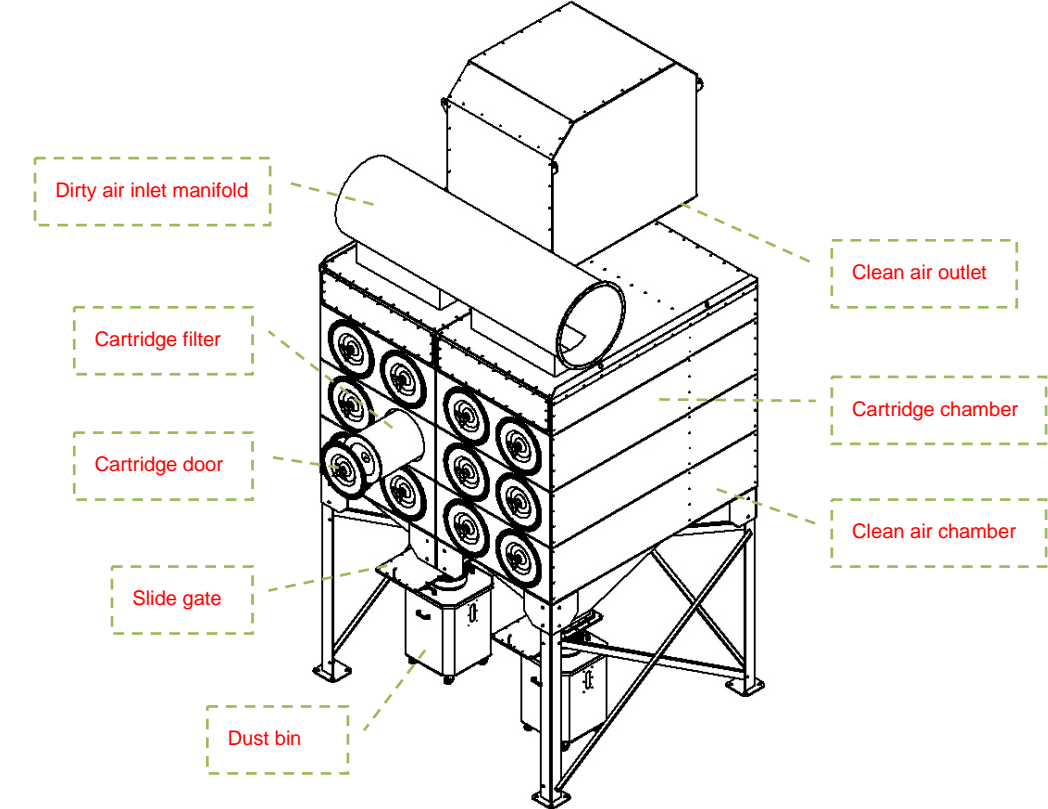
Filter cleaning is completed using pulse-jet technology. A solenoid and diaphragm valve aligned to each row of filters provides the pulse cleaning. The cleaning sequence starts at the top filter row and continues down through each row. Remove, inspect, or change the cartridges from outside the unit by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

Standard Operating Conditions

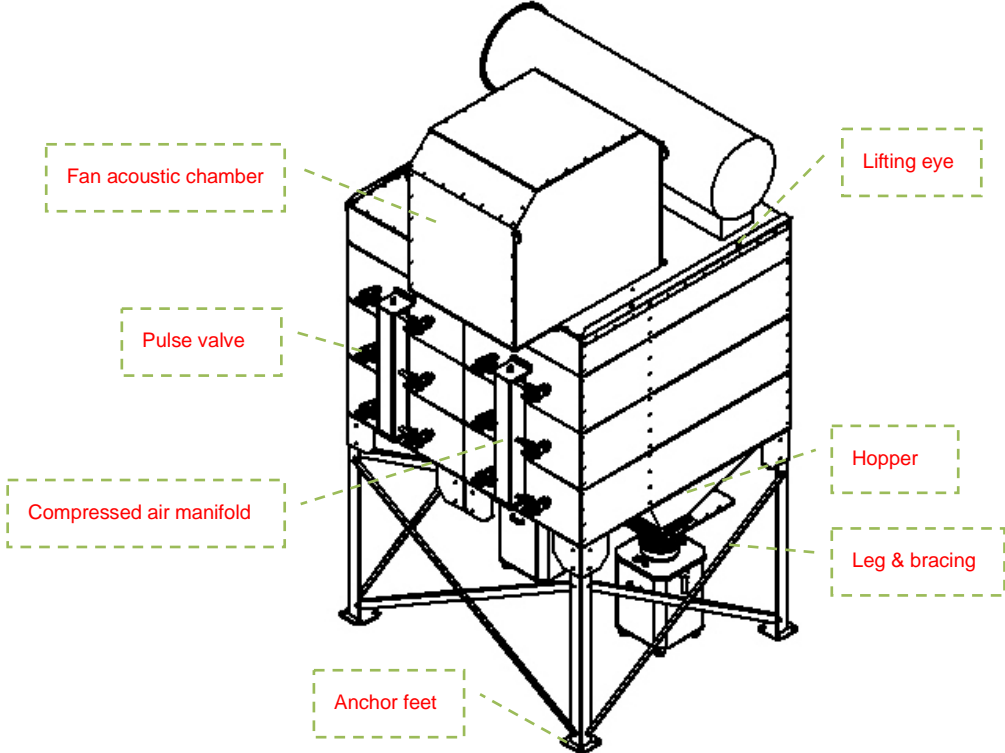
- Seismic Rating (zone): 4
- Wind Load Rating (Km/h): 160
- Housing Rating (Pa): +3800 / -5000
- Valves and controls: 50/60 Khz
- Compressed Air Required (MPa): 0.4-0.6 or (90-100 psig)

Horizontal Cartridge Dust Collector

Dust Collector Components



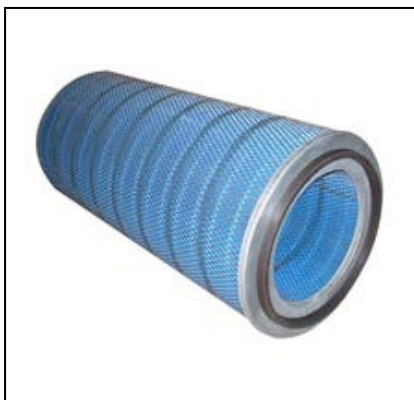
Front View



Back View

Horizontal Cartridge Dust Collector

Typical Cartridges & Applications



Cellulose Cartridge

Application:

- Metal working
- Plasma / Laser cutting
- Shot blasting
- Mining industry
- Gas turbine inlet
- Many other dust collections



Spun Bond Polyester Cartridge

Application:

- Metal, Wood, Chemical,
- Cement, Food, Paper,
- Pharmaceutical
- Welding Smoke
- Shot Blasting
- Foundry Dust
- Mineral Processing



Antistatic Filter Cartridge

Application:

- Metal, Wood, Chemical,
- Cement, Food Paper, Plastic
- Shot Blasting
- Foundry Dust
- Powder, Mineral Processing



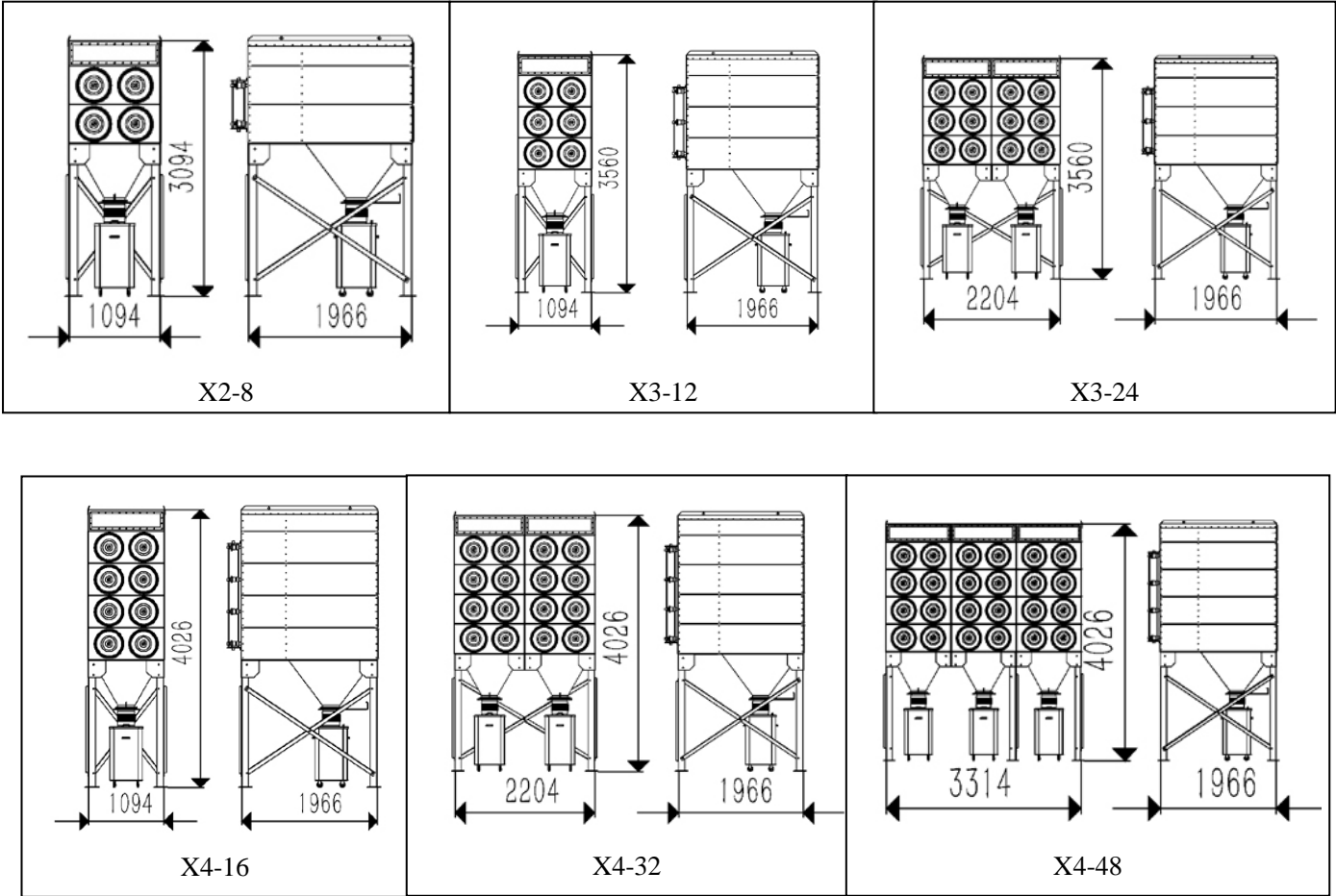
Cartridge with PTFE Membrane

Application:

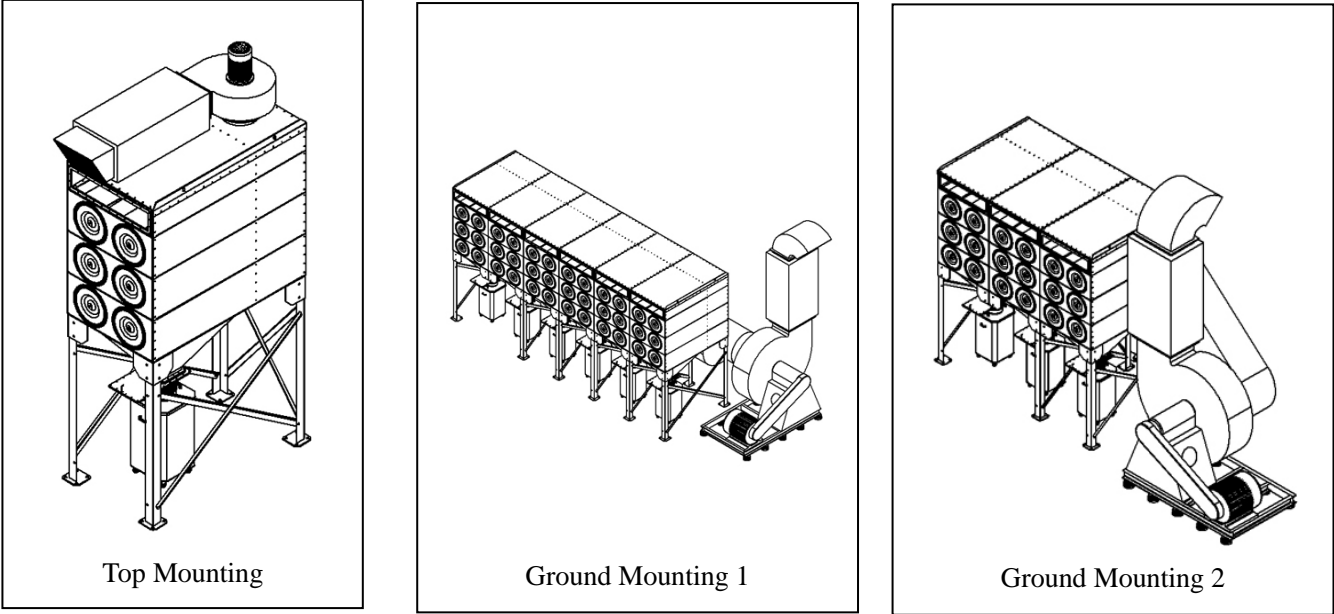
- Filtration of very, very fine dust types in Chemical, Pigment, Al-pulver Welding Fume, Pharmaceutical and other sticky agglomerative dust collections.

Horizontal Cartridge Dust Collector

Typical Model Outer Dimensions



Fan Mounting Style



Horizontal Cartridge Dust Collector

Specifications & Container Loading Numbers

Model	Cartridge Numbers	Polyester Filter Area	Cellulose Filter Area	Airflow
X 3-12	12	112.8 M2	192 M2	7200~9600 CMH
X 3-24	24	225.6 M2	384 M2	14400~19200 CMH
X 3-36	36	338.4 M2	576 M2	21600~28800 CMH
X 3-48	48	451.2 M2	768 M2	28800~38400 CMH
X 3-60	60	564 M2	960 M2	36000~48000 CMH
X 3-72	72	676.8 M2	1152 M2	43200~57600 CMH
X 4-16	16	150.4 M2	256 M2	9600~12800 CMH
X 4-32	32	300.8 M2	512 M2	19200~25600 CMH
X 4-48	48	451.2 M2	768 M2	28800~38400 CMH
X 4-64	64	601.6 M2	1024 M2	38400~51200 CMH
X 4-80	80	752 M2	1280 M2	57600~76800 CMH

Standard Components

- Cartridge filter chamber
- Clean air chamber
- Cellulose cartridge filters
- Hopper
- Slide gate
- Dust bin with hose and casters
- Pulse valves
- Compressed air manifold
- Pulse valve controller
- Prime and surface painting

Optional Components

- Other media cartridge filter
- Centrifugal fan
- Fan exhaust silencer
- Fan acoustic chamber
- Fan control cabinet
- Differential pressure controller
- Explosion relief vents
- Rotary valves
- Access platform
- Epoxy surface coating