DISCOVER THE POWER OF THE NEW GENERATION OF VERTICAL CARTRIDGE DUST COLLECTORS

Airex Industries Platinum™ Series Dust Collectors are different from other dust collectors. Their ability to filter highly-contaminated air volumes in an extremely compact format is what sets them apart from the rest. As part of an efficient compressed air self-cleaning system, the cartridges allow for the continuous filtration of sub-micron dust particles with a constant differential pressure loss.

Our Platinum™ dust collectors have doors and a manual cam system that require no tools and allows for an easy cartridge change out.

MAIN ADVANTAGES AT A GLANCE

High filtration capacity
Models from 2 to 224 cartridges and up to 100,000 CFM capacity.

Custom engineering
Special needs and custom designs available with Platinum™ systems.

Low initial cost
The optimization of our design and assembly technics allows us to offer highly competitive prices.

Vertical cartridge design
Unlike horizontal cartridge designs that reduce filtering surface efficiency by up to 30%, Airex Industries’ Platinum™ series dust collectors maintain a 100% filtration rate at all times.
HOW THE CARTRIDGES DUST COLLECTOR WORKS

The dust-laden gases enter through the side intake of the dust collector’s hopper, under vacuum or pressure (except for bin vents, where the air comes in from the bottom).

The gases are then filtered through the cartridges and exit through the openings into the clean air plenum. The clean air can either be channeled outside or re-circulated depending on the application.

ADVANTAGES

Fast, simple & safe cartridge replacement
Cartridge replacement is performed outside the dust collector and requires no tools. This eliminates the need to work within a confined space and allows the worker to access the cartridge without getting dirty.

The cartridge comes with a rectangular top plate that simplifies manipulation and eliminates potential installation errors.

Continuous operation
Unlike other types of dust collectors such as the shaker, the cartridge dust collector does not have to be stopped in order to remove and clean dust particles from its filters.

Economical
The cartridge dust collector is an economical choice because it requires minimal maintenance: only periodic cartridge replacement is necessary (depending on the application).
**FILTRATION TECHNOLOGY**

<table>
<thead>
<tr>
<th>85% CELLULOSE / 15% POLYESTER</th>
<th>8 OZ SPUN BOND POLYESTER</th>
<th>CELL / POLY WITH NANOFIBER</th>
<th>8 OZ SPUN BOND PTFE</th>
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</thead>
<tbody>
<tr>
<td><strong>Filtration Area</strong></td>
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<tr>
<td>315 ft²</td>
<td>130 ft²</td>
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<td>130 ft²</td>
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<tr>
<td><strong>Efficiency</strong></td>
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<tr>
<td>99.7% @ 0.5 microns</td>
<td>97% @ 0.5 microns</td>
<td>99% @ 0.37 microns</td>
<td>99.4% @ 0.08 microns</td>
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<tr>
<td><strong>MERV</strong></td>
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<tr>
<td>9 @ 840 cfm</td>
<td>10 @ 500 cfm</td>
<td>15 @ 840 cfm</td>
<td>16 @ 500 cfm</td>
</tr>
<tr>
<td><strong>Permeability</strong></td>
<td></td>
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<tr>
<td>17 cfm / ft² @ 0.5&quot; H₂O</td>
<td>20 cfm / ft² @ 0.5&quot; H₂O</td>
<td>25 cfm / ft² @ 0.5&quot; H₂O</td>
<td>5-8 cfm / ft² @ 0.5&quot; H₂O</td>
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<tr>
<td><strong>Pleat count</strong></td>
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<tr>
<td>315</td>
<td>130</td>
<td>315</td>
<td>130</td>
</tr>
<tr>
<td><strong>Pleat depth</strong></td>
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<td></td>
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<tr>
<td>2&quot;</td>
<td>2&quot;</td>
<td>2&quot;</td>
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</tbody>
</table>

**WE HAVE THE RIGHT FILTERING MEDIA FOR YOUR NEEDS**

In terms of performance, one of the most important criteria during the initial design of a dust collection system is the proper selection of the filtering media. They can achieve a level equivalent to HEPA, classified as MERV 16. In fact, a single cartridge has a total filtering surface that can reach up to 315 sq. ft. The compact aspect of such a filtering medium makes it a highly prized solution when the available space is limited.

**COMMON FEATURES**

**End cap and gaskets**
Our standard end caps are made of galvanized metal (16” x 14.25”) while our D-Shape gaskets are fabricated with continuous rubber (0.5" W x 0.625" H).

**Operation temperature**
Cartridges maximum continuous operating temperature is 250 °F (120 °C) while the maximum short term operating temperature can reach up to 295 °F (145 °C).

**Weight & dimensions**
- Weight: 22 lb
- Height: 36"
- Outside diameter: 12.75"
- Inside diameter: 8.3"
ENHANCE YOUR PERFORMANCE AND SECURITY

Some options like the SpeedFX™ can vary motor speed and energy consumption thus improving efficiency.

A number of Airex accessories aim to meet NFPA regulations, preventing against fire and explosions while better protecting workers and facilities.

FIRE PROTECTION ACCESSORIES

Abort damper
Connected with a proper spark or fire detection system, the abort damper redirects exhaust air into the atmosphere as soon as a spark is detected.

Blow back damper
Ensure there is a seal, if a fire or explosion occurs in the dust collector, preventing return of smoke and fire to the shop by the intake ductwork.

Explosion vents
The explosion vents redirect a propagating flame or explosion to atmosphere via pressure rated washers.

Rotary air lock
Designed to control the flow of discharge material from a dust collector or other type of process while maintaining an air seal.

Spark detection & fire extinguishing system
Counts the spread of fire with a temperature probe and sprinkler; spraying the collector and stops the blower (eliminating oxygen intake).

ACCESSORIES

1. Abort Damper
2. Bin / Drum Kit
3. Blow Back Damper
4. Broken Bag Detector
5. Explosion Proof Motor
6. Explosion Vents
7. Fire Extinguishing System
8. Front Flame Deflector
9. High Temperature Probe/Alarm
10. Rotary Air Lock
11. Silencer
12. Spark Detector
13. SpeedFX
14. Ground
15. Passive Isolation Valve ATEX95 Certified
16. Extinguishers
17. High-Speed Isolation Valves
18. Explosion Relief Vent Panels
19. Flameless Vents
BECAUSE WE KNOW THAT YOU ARE DIFFERENT

Our department of engineers and experienced staff are at your disposal to design and custom engineer your equipment for your explicit needs.

We will combine our experience with your criteria to design a solution that works for you.

A complete Autocad department can also supply drawings of the equipment, ductwork and accessories. Electronic and hard copy blueprints are included with our equipment.

FINALIZED CUSTOM PROJECTS

1. Portable unit for various applications
   The portable unit allows for a DCCH cartridge unit to be mounted on a flatbed trailer. Ideal for construction sites and temporary installations where portability and large amounts of CFM and filtration are required.

2. Plasma/torch on stainless cutting table
   Custom hoods with zipper ducts and tough applications are only part of our custom engineered solutions.

3. Torch cutting on water table
   Dual suction nozzle design on a typical water table has been a successfully-engineered solution bringing maximum capture efficiency with minimal air for a large table surface.
WE SUPPORT YOU AT EACH PROJECT MILESTONE

Turnkey installations is our specialty. We don’t just sell dust collectors, we sell complete systems engineered down to the smallest detail.

At the heart of our design is the DCCH dust collector. Our team of experienced application engineers will determine the size and plan turnkey solutions that suit your needs.

We don’t stop working until you’re satisfied. Duct sizing, hood development, air to cloth ratios, media selection, static pressure collection, health and safety requirements, NFPA regulations and production needs are all taken into consideration.

Our mission is to design a properly working system, not to sell you a collector and replacement filters.

DIFFERENT DESIGN OF PICKUP POINTS

1. Capture Arm
Simple design utilizes a lightweight aluminum skeleton to support a heavy duty flex hose and spun aluminum hood.

2. Custom Hoods
Allow you to capture and confine fumes and gradually evacuate them at a low extraction level.

3. Custom Booths
Our booths can be customized to fit your production floor needs. Optional booth curtains dispense safety while providing a barrier from heat, sparks, and welding splatter.
Like other industrial equipment, a dust collector has an assortment of components that you need to keep an eye on to ensure the unit is operating optimally. If these components are not maintained, the company could find itself in a potentially risky situation in terms of health and safety.

Airex offers a preventive maintenance contract that can increase the useful life of your dust collection system and its accessories. This type of program is also an excellent strategy for avoiding the unforeseeable in terms of breakages and unit stoppages.

By investing in the maintenance of your dust collector, you will also save money by avoiding emergency repair costs that are of course much more onerous over the medium and long term.

**USE A PROACTIVE APPROACH TO INCREASE THE LIFESPAN OF YOUR UNIT**

**STAY ALERT FOR EARLY SIGNS OF DETERIORATION**

**Visual inspection**
Be vigilant to the appearance of corrosion, dust accumulation or even wear and tear of your system.

**Variation of noise and vibration**
Listen for a compressed air leak, fan vibration, or even an unusual sound from your system.

**Tracking operation parameters**
Make sure the performance indicators stay within the prescribed limits of your system.

1. Lubricate ball bearings
2. Adjust compressed-air pressure
3. Operate damper valves for proper seating
4. Replace filters
5. Monitor accuracy of indicating equipment
6. Verify compressed-air lines (including line filters & dryers)
7. Verify for dust buildup in hopper
8. Verify door gaskets for proper sealing
9. Clean differential pressure gauge tubes
10. Replace nylon diaphragm valves
### SPECIFICATIONS - PS

#### CARTRIDGES LAYOUT

<table>
<thead>
<tr>
<th>Model / Nbs of cartridges</th>
<th>Valves qty</th>
<th>Valves qty</th>
<th>Dimensions (in mm)</th>
<th>Filtration Area (ft², m²)</th>
<th>Weight (lb, kg)</th>
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# SPECIFICATIONS - DCCH

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