Vertical felt or Pleated bag for maximum efficiency

Micronic dust size filtration

Filtered air recycled back in premises for energy savings

Large amounts of dust storage capacity

Superior technology generating substantial operating savings
**A Leading-Edge, High-Performance Company**

The AQC Dust Collecting Systems division manufactures a full range of safe, industrial dust collectors, as well as dust and smoke capture equipment at the leading edge of air pollution control technologies based on more than 30 years’ experience in the field.

**AQC’s strength lies in its innovative products designed and developed to generate substantial savings throughout their entire operating life.**

AQC is renowned for its technological innovation, safe and sophisticated equipment design, as well as its robust and precise product manufacturing. For example, the unique design of the baffles inside AQC dust collectors makes filter cleaning easy. The AQC cartridge holder design provides maximum filter surface and enhanced filter performance. The ultra-smooth concept inside AQC fume arms makes them maintenance-free.

In short, AQC equipment is designed and built to generate substantial operating savings in terms of time, money and energy. This translates to major reductions in operating costs – from 10 to 20% – throughout the equipment’s service life. This scale of savings can represent a significant portion of the equipment’s total purchase price. Companies looking to maximize their profitability should factor in these savings when purchasing equipment.

**The unique design and manufacturing of AQC equipment generates significant savings for various reasons:**

- Substantial increase in the duration of filters.
- Lower energy consumption during years of use.
- Significantly less maintenance (easy to clean, robust manufacturing, a minimum number of more reliable and durable parts).
- Reduced operating costs (less frequent overhauls, lack of or minimum down time, etc.).
- Lower administrative costs (coordination, follow-ups, supervision) due to much less frequent breakdowns.
- Safe design can prevent serious or even fatal accidents.
- Increased comfort and productivity of personnel.

---

**Typical acquisition and operating dust collection equipment costs**

The acquisition cost is just one part of the equation. It’s the total cost including the operating cost *throughout the life cycle of the equipment* that must be kept low. This is what AQC delivers. The advanced technology, design, robustness, durability and safety of AQC products generate major savings during the equipment’s entire life cycle.
MAXITUBE VERTICAL BAGHOUSE COLLECTOR

Most of our competitors do not include these standard features:

- Quality support cages
- Tube cleaning Venturi nozzles
- Wide choice of filter types
- Extended surface pleated filter
- Air Inertia reduction chamber
- Inside or top bag removal

TYPICAL APPLICATIONS FOR THE MAXITUBE

- Sand blast rooms
- Wood transformation shops
- Chemical industries
- Mines
- Metal industry
- Food / pharmaceutical
General description

The MAXITUBE dust collector is a bag house type dust collector featuring a large selection of alternative filter bags or pleated bags capable of solving any special dust application. Dust particles are drawn into a velocity reduction chamber adjacent to the filter section where large particles separate from the airstream to fall directly into the hopper; smaller particles are then drawn into the filter section and are filtered. Maintenance is greatly reduced since the electronic pulse control sends a cascading signal to air valves pulsing compressed air from the inside of the bags to the outside forcing the accumulated dust cake to be blown away and fall into the hopper, all this while the collector is in operation.
**Outstanding Maxitube features**

During operation, dusty air enters the collector from the side, air velocity is immediately reduced, large particles fall in the hopper and takes a down flow air pattern. Small dust particles are filtered as they penetrate into the bags; clean filtered air is drawn into the clean air plenum.

An electronic sequencer panel sends a signal at different intervals to the solenoid valve kit and then the diaphragm valves which release a regulated amount of compressed air from the compressed air reservoir into the venturi cones. The shockwave created by the acceleration of the compressed air pushes the dust away from the cartridges. Gravitational effect takes over and the contaminants fall downward to the hopper and dust storage system.

**Compressed air cleaning information**

MAXIFLO dust collectors use approximately 8 to 12 SCFM per pulse. Recommended compressed air pressure for proper cartridge cleaning: 90 p.s.i.

Air line feeding the MAXIFLO collector should be equipped with a filter, regulator and dryer for longer life expectancy of valves.

MAXIFLO collectors installed outside in cold climates should be equipped with a solenoid heating element.

Standard panel includes programmable timer to pulse at intervals of 1 to 180 seconds. Optimal panel includes differential pressure controller (DPC) regulating air pulses by pressure sensors or manually programmed from 1 to 255 seconds.

**Recommended duct velocities for particulates**

<table>
<thead>
<tr>
<th>Type of dust</th>
<th>F.P.M. / meter per second</th>
</tr>
</thead>
<tbody>
<tr>
<td>Welding smoke</td>
<td>2500 / 12</td>
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<tr>
<td>Flour type dust</td>
<td>3800 / 19</td>
</tr>
<tr>
<td>Metal dust</td>
<td>4200 / 21</td>
</tr>
<tr>
<td>Heavy metal dust</td>
<td>5000 / 25</td>
</tr>
</tbody>
</table>

*Note: other particle velocities may be required. Refer to industrial ventilation handbook for more details or contact AQC.*

*Note: installation must be made according to local building codes and regulations.*
Selection of a Dust Collector

There are many applications where baghouse dust collectors can be used. Choosing the appropriate filter bag media is important to the overall effectiveness and efficiency of the dust collection system. With so many different applications, the process of selection mostly becomes a matter of common sense and experience rather than an exact science.

A reliable selection may be made knowing the application and the different properties of each filter media. The purpose of this folder is to guide the reader to consider the factors which contribute to the selection of the filter bag media. These are:

1. Type of dust
2. Size and shape of dust
3. Temperature of dust/gas stream
4. Abrasive characteristics of dust
5. Chemical composition of dust/gas stream
6. Moisture content of dust/gas stream
7. In addition, it is advisable to answer questions that consider other dust characteristics such as:
   8. How easily does the dust cake release?
   9. How much restriction to airflow does the dust cake provide?
10. Does the dust have agglomerative tendencies?
11. Is the dust explosive?
12. Will the dust have a chemical reaction to certain conditions?

To select a filter media using these factors as guide, compare characteristics of the application with the media choices. Depending on the requirements of the applications, prioritize the most desired characteristics. Then, select the appropriate filter bag type based on its performance characteristics. Keep in mind that most medias are applicable for many conditions and that one may work just as well as another.

Often it is not necessary to over qualify an application selection. For normal, dry process, it would be advisable to use a standard media such as polyester felt with or without finishing. It can be used in many applications, is reliable in many different conditions, and is quite cost effective.

AQC baghouse collectors can be built to cover any dust application in the industry, from high concentration loadings to dry, stringy and sticky dust types.

AQC build two types of cartridge collectors

A- Conventional flat filter tubes held in cages
B- Pleated filters with extended surface area
Conventional flat filter dust collectors can be used in any dust application, and specially with high concentrations of large particles of dust. The flat filter permits the easy release of dust during pulsing and offer a variety of materials depending on the kind of dust.

Long pleated filters offer extended surface area and an immediate high filtering effect. These filters are ideally suited to lower concentrations of small and medium dust particles. Contrary to cartridge collectors, the pleats are much wider providing this easy release of caked dust when pulsing. Pleated filters are particularly easy to services whether it be top or side removal, this not having support cages.

**Maxitube Dust Collector types**

<table>
<thead>
<tr>
<th>Type</th>
<th>Square or rectangular</th>
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</thead>
<tbody>
<tr>
<td>SBR-S</td>
<td>Side Bag Removal</td>
</tr>
<tr>
<td>TBR-T</td>
<td>Top Bag Removal</td>
</tr>
<tr>
<td>TBR-TP</td>
<td>Top Bag Removal - Plenum</td>
</tr>
</tbody>
</table>

Maximum operating: Temperature 500 deg F. (260 deg. C.)

Note: MAXITUBE maximum air volume capacity is rated as per the filtration area. For best results and longer cartridge life expectancy, air to cloth (filtration surface) should be as low as possible.

Note: air volume capacities indicated par MAXITUBE selection is with a + or -3 to 1 air to cloth ratio. The purpose of this ratio is to extend filter life and lower static pressure. AQC may agree to a 4 and 4.5 to 1 air to cloth ratio in certain applications. Contact factory for details.

**Maxitube bag selection 6” diameter**

<table>
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<tr>
<th>Type</th>
<th>Qty</th>
<th>Area (sp. feet)</th>
<th>AC ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLAT + CAGE</td>
<td>16 to 400</td>
<td>240 to 6,120</td>
<td>6 to 12 FPM</td>
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<td>PLEATED</td>
<td>16 to 400</td>
<td>1280 to 32,000</td>
<td>3 to 5 FPM</td>
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**Quick reference chart**

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<th>Nomex®</th>
<th>PTFE (Teflon®)</th>
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<td>E</td>
<td>G</td>
<td>G</td>
<td>E</td>
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Code: P = Poor; F = Fair; G = Good; E = Excellent
### Typical dimensions and specifications (SQUARE)

#### Side Removal Models 25 Thru 196

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<th>Model No. SXXXXW</th>
<th>Filter Area SQ. FT.</th>
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<th>7 FT. filters</th>
<th>8 FT. filters</th>
<th>10 FT. filters</th>
<th>&quot;B&quot; SX Series 6 FT. filters</th>
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<th>8 FT. filters</th>
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#### TBR series S
Top Bag Removal Models 25 Thru 196

#### TBR-P series S
Top Bag Removal with Plenum Models 49 Thru 196
**Typical dimensions and specifications (Rectangular)**

**SBR series S**
Side Removal
Models 25 Thru 196

**TBR series S**
Top Bag Removal
Models 25 Thru 196

**TBR-P series S**
Top Bag Removal with Plenum
Models 49 Thru 196

### Side Removal

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<th>Cloth SXKXWX</th>
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**CHART 6**

**CHART 7**
Specifications

**Bag house dust collector with pulse compressed air cleaning**

**Construction**
The dust collector housing and the hopper are built from 10 and 12 ga sheet steel with reinforcements capable of withstanding 20 in. H2O pressure differential. The 1/4” tube sheet is reinforced and continuously welded in place to protect the bags from the high velocity dust. A removable walkway is installed on all models to 64A. The walkway is fixed on larger models. The hopper is designed with a 60° angle to facilitate the flow of dust and is finished with a flange. A solid square tube structure with bracings form a solid support structure.

**Sequencer**
Pulse cleaning is achieved by an electronic sequencer, with timer adjustment capabilities of the pulse frequency and duration. This control can be used with a photohelic® type control, the pulse sequence will begin only when the high pressure limit setting is reached, and will stop when the low pressure limit is attained.

**Cleaning**
The air to cloth ratio is the most critical variable that can influence the cost of a dust collector, and its efficiency. The higher the A/C ratio, the less expensive the dust collector will be. MAXITUBE dust collectors equipped with MPH3 high volume nozzles insure that a strong air bubble will travel evenly within each bag from top to bottom throughout the pulsed row. This great benefit makes MAXITUBE a better collector.

**Filtration fabrics**
High filtration efficiencies are reached by the meticulous choice of the filter fabrics, and the air to cloth ratio (see filter fabric table). MAXITUBE offers a selection of the filtration fabrics the most apt at filtering specific dusts. The following table describes these products.

Applications

The MAXITUBE is an enclosure type dust collector. MAXITUBE dust collectors can be used with different dusts such as welding smoke, metal sanding, grinding or buffing, plasma / laser downdraft cutting tables, sandblast rooms operation, light to medium sized dry powders, food and pharmaceutical plants or plastic and composites fabricating shops.

Safety rules and requirements

**Reactive metals application**
The National Fire Protection Agency (NFPA) standard 484 defines aluminum, magnesium, tantalum, titanium and zirconium as reactive metals so it is imperative that NFPA 484 standard be observed at all times and that the collector be installed outside of the facility or premises with all required safety devices. Reactive metals listed above shall not be mixed in the same MAXITUBE collector. Individual dust collectors shall be use for each reactive dust.

The MAXITUBE dust collector should include a sign indicating CAUTION when used with explosive dusts.

The MAXITUBE dust collector should include a sign indicating WARNING when used with aluminum dusts advising danger of mixing with other dusts.
Optional accessories and description

**Explosion venting doors**

Requirement by NFPA for reactive material collection and storage of particles such as wood, aluminum and/or magnesium dusts and chips.

**Fan outlet silencers**

Sound attenuators for high velocity discharge at fan outlets.

**Micro switches**

Current sensors connected to shop equipment for automatic fan start/stop.

**Rotary airlock**

Rotary airlock for constant dust discharge.

**Slide / blast gates**

Used for shutting off air vacuum on specific shop equipment.

**Blowback dampers**

Safety device preventing flames or explosion in dust collector from coming back into the building.

**Spark detection/ extinguishing systems**

Recommended safety device for highly abrasive metal or wood transforming applications.

**Sprinklers**

Safety device used to extinguish possible fires in dust collectors.

**Abort dampers**

Safety device preventing a possible explosion in a dust collector from coming back into the building and exhausting pressure into the atmosphere.

Safety device and equipment notes: design built and/or engineered dust collecting equipment may require different safety devices as described above. Refer to NFPA rules and regulations for appropriate devices. AQC or its representative may also guide you in proper selection of equipment as per the application.

It is highly recommended to refer to local building laws and safety requirements prior to selecting or installing any type of dust collecting equipment. Installation note: it is recommended to allow 36" (0.9 meter) work and access space around the collector for installation and possible maintenance.
Create your MAXITUBE filtration unit specification

1. **Unit should include:**
   - 10 and 14 gauge polyurethane painted with epoxy, aluminum primer steel cabinet, high efficiency pleated cartridge(s) with gasketed access doors and turn knobs, air venturis for proper pulse cleaning action on cartridges, heavy duty support yokes for cartridges, dust deflectors above first row of cartridges, Magnehelic pressure gauge, dust hopper and dust storage drums with grab handle, flexible hose connection from hopper to dust bin, electronic control panel with adjustable timer for pulse cleaning in NEMA 4 enclosure, 1” NPT compressed air connection to air tank, diaphragm valves with solanoids, cabinet lift lugs, painted steel support structure with cross braces and pre-drilled holes for floor anchoring, seismic rating zone 4.

2. **Model to be:**
   - ____MCH___-___  (Ex: 2MCH3-12)

3. **Cartridges to be:**
   - a) cellulose (260 sq. ft. each)
   - b) fire retardant cellulose (260 sq. ft. each)
   - c) nanofiber (260 sq. ft. each)
   - d) polyester (130 sq. ft. each)
   - e) anti-static polyester (130 sq. ft. each)
   - f) tandem polyester with evenly spaced V pleats (130 sq. ft. each)

4. **Fan performance to be:**
   - a) ____CFM@____" S.P.  (Ex: 5000 CFM@ 6" S.P.)
   - b) ____L/s@____pa S.P.  (Ex: 2360 L/s @ 1500 pa S.P.)

5. **Drum dust storage unit should be substituted for:**
   - a) 10” high dust drawers
   - b) 20” high dust drawers
   - c) quick dumping bin system

6. **Dirty air inlet should be located at:**
   - a) top of dust collector
   - b) front of dust collector

7. **Clean air outlet should be located at:**
   - a) top rear of dust collector
   - b) bottom rear of dust collector
   - c) left rear of dust collector
   - d) right rear of dust collector

8. **Unit to be equipped with:**
   - a) NFPA explosion relief vent
   - b) sprinkler head
   - c) abort damper
   - d) blowback damper
   - e) spark detection/extinguishing system
   - f) cartridge access doors tamper proof bars
   - g) rotary airlock
   - h) slide gate at drum/hopper connection
   - i) differential pressure controller for automatic pulse cleaning
   - j) fan outlet silencer
   - k) safety after-filter cabinet with primary 30% pleated filters and secondary 85% polyester bag filters
   - l) support structure and hopper enclosure with access door
   - m) access ladder and service platform for high profile dust collectors
   - n) bag in / bag out cartridge replacement
   - o) drum dollies with casters
   - p) drum covers

9. **Unit designed for:**
   - a) interior installation
   - b) exterior installation
   - c) exterior installation in cold climate

**Note:** specifications listed above may be modified to suit application. Contact A.Q.C. or representative for information.

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