

MAXIPLY™

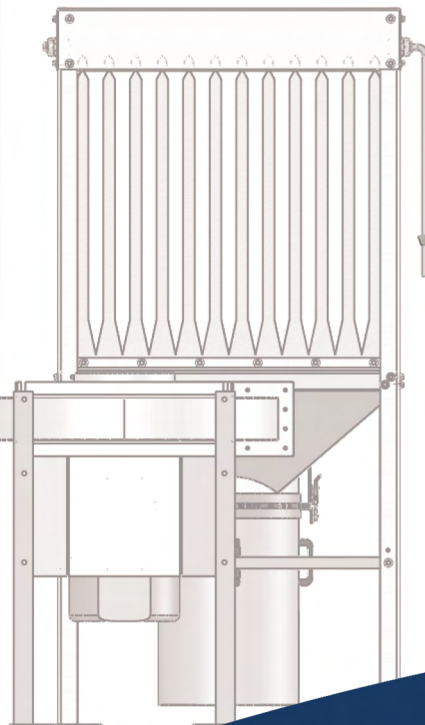
AQC DUST COLLECTING SYSTEMS

## SHAKER TYPE DUST COLLECTOR WITH ENVELOPE FILTER

- Efficient pocket type filter (95 to 99% @ 5-10 microns)
- Economical and easy to install
- Up to 5000 CFM capacity



- Various dust applications (wood, plastics, composites)
- Virtually maintenance free
- Ideal for small shops and training centers



*Superior technology generating  
substantial operating savings*



DUST COLLECTION  
& SOURCE CAPTURE

## Economical pocket type dust collector with manual shaker cleaning

Based on the MAXIVIBE design, the MAXIPLY is more economical since it does not need an enclosed cabinet and the cleaning system is performed by manually shaking the filter envelope (95 to 99% @ 5-10 microns). Primarily developed for interior installation in small shops and vocational schools, its use is perfect for medium to large size pollutants such as sawdust, grinding, buffing or sanding of different metals, powders and composites.

Air volume capacity can vary from 500 CFM to 5000 CFM. The support structure can be easily dismantled for relocation into another part of the facility using the unit or for a new installation in a room with limited size doorways.



## A Leading-Edge, High-Performance Company

The AQC Dust manufacturer fabricates a full range of safe, industrial dust collectors, as well as dust and smoke capture equipment and high pressure industrial dampers at the leading edge of air control technologies based on more than 30 years of experience in the field.

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

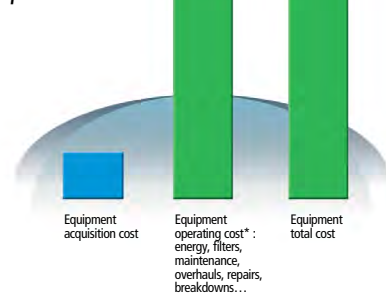
AQC is renowned for its technological innovation, safe and sophisticated equipment design, as well as its robust and precise product manufacturing. AQC stands out with its unique design of the baffles inside dust collectors making filter cleaning easy and a cartridge holder design that provides maximum filter surface, which enhances filter performance. The ultra-smooth concept inside AQC fume arms makes them maintenance-free and the durability of the heavy duty industrial dampers exceed expectations.

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 operating 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.

## MAXIPLY EFFICIENT AND ECONOMICAL DUST FILTRATION

- A unique inexpensive solution for solid particle filtration
- Efficiency combined with ease of use
- Minimum dust caking on filter
- Ideal for schools and small shops
- Efficient filter pocket envelope (95 to 99% @ 5-10 microns)
- Direct drive blower, no pulley adjustment
- Up to 5000 CFM with low to medium static pressure
- Filter cleaning by manual shaker mechanism

## TYPICAL APPLICATIONS FOR THE MAXIPLY

- Small to medium size wood shops
- Training centers and vocational schools
- Plastic and composite shops
- NFPA 664 for wood applications advises: Indoors for enclosureless dust collectors meeting all of the following criteria:
  - a) The collector is used only for dust pickup from wood processing machinery (i.e., no metal grinders and so forth).
  - b) The collector is not used on sanders, molders, or abrasive planers having mechanical material feeds through the machine.
- c) Each collector has a maximum air-handling capacity of 2.36 m<sup>3</sup> / sec (5000 cfm).
- d) The fan motor is of a totally enclosed, fan-cooled design.
- e) The collected dust is removed daily or more frequently if necessary to ensure efficient operation.
- f) The collector is located at least 6.1 m (20 ft) from any means of egress or area routinely occupied by personnel.
- g) Multiple collectors in the same room are separated from each other by at least 6.1 m (20 ft).



**Note:** Ideal for capture and filtration of wood dusts, plastic shavings.



## OUTSTANDING MAXIPLY FEATURES



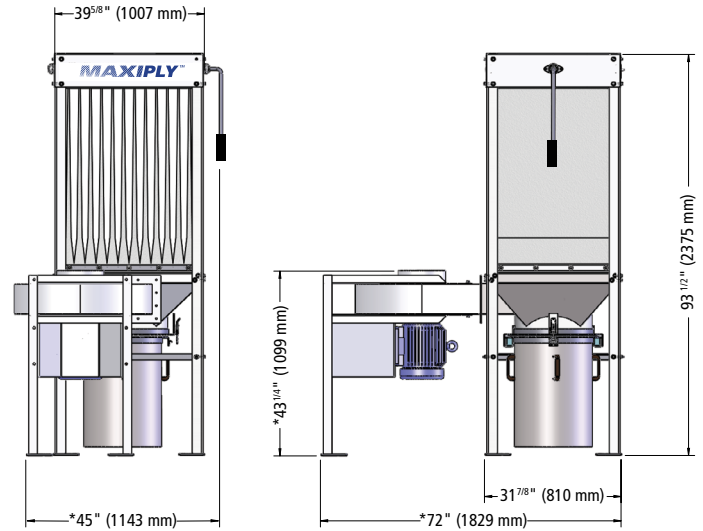
## DESCRIPTION

The MAXIPLY dust collector single inlet design allows the main manifold to be connected to multiple drops toward pickup points. Since no return air ductwork or diffusers are required, filtered air is recycled into the facility by means of the four (4) opened sides of the pocket filter envelope. The direct drive fan and motor assembly carries the particles into the angled hopper. Heavy dusts and solids fall into the drum by gravity and finer dusts are pushed into the high efficiency pocket filters. Integrity of the installation is ensured by bolting the support structure on the floor surface. When cleaning the filter is required, the handle is moved rapidly back and forth making a rocking motion on the camshaft dislodging the particles inside the filter. After a few minutes, the decanter effect allows the particles to fall into the dust storage drum.

## MAXIPLY GENERAL DIMENSIONS

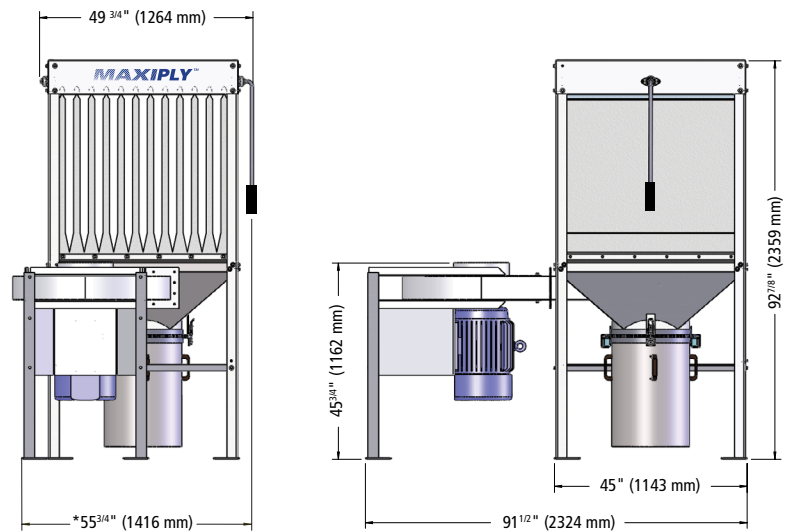
### DMP-170S

Maximum air capacity	Filtration area
1700 CFM / 802 l/s	170 ft <sup>2</sup> / 15.8 m <sup>2</sup>



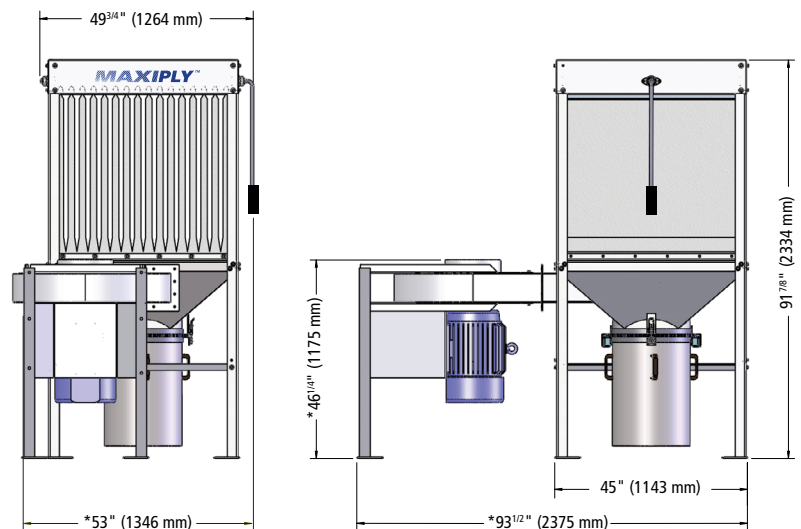
### DMP-270S

Maximum air capacity	Filtration area
2700 CFM / 1274 l/s	270 ft <sup>2</sup> / 25 m <sup>2</sup>



### DMP-350S

Maximum air capacity	Filtration area
3500 CFM / 1652 l/s	350 ft <sup>2</sup> / 32 m <sup>2</sup>



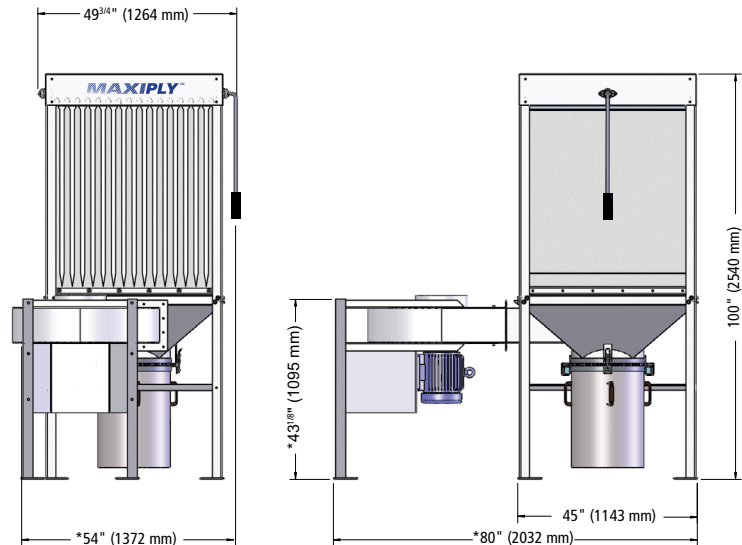
**Note:** Width and depth footprint dimensions indicated above are with largest fans available. Actual dimensions with smaller fans will be submitted.

\* Dimensions to be determined according to fan specifications

## MAXIPLY GENERAL DIMENSIONS

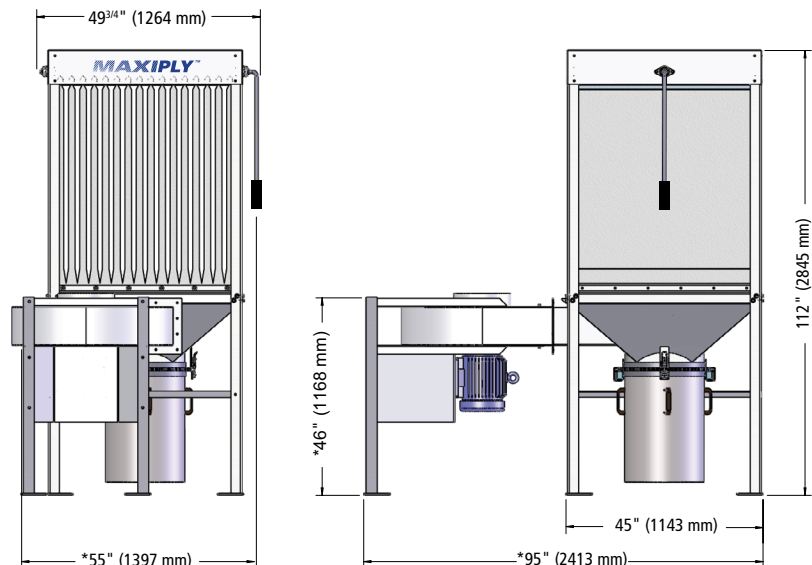
### DMP-450S

Maximum air capacity	Filtration area
3870 CFM / 1826 l/s	450 ft <sup>2</sup> / 41.8 m <sup>2</sup>



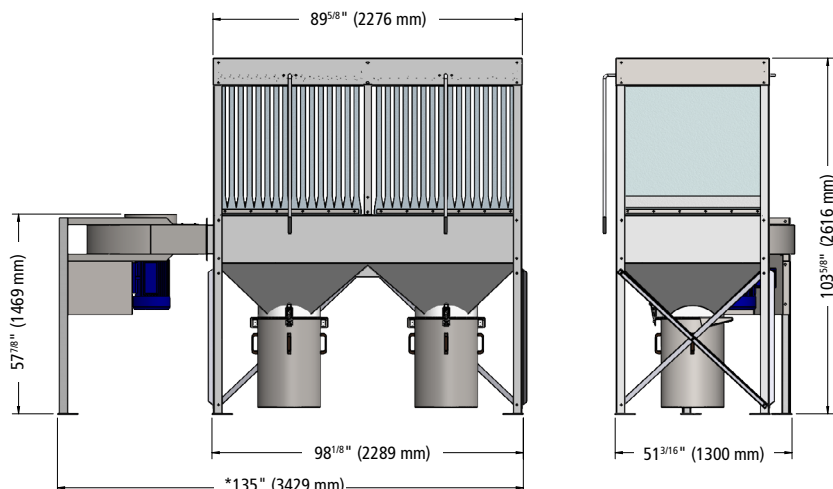
### DMP-570S

Maximum air capacity	Filtration area
4900 CFM / 1652 l/s	570 ft <sup>2</sup> / 53 m <sup>2</sup>



### DMP-700S

Maximum air capacity	Filtration area
4900 CFM / 2313 l/s	700 ft <sup>2</sup> / 65 m <sup>2</sup>



**Note 1:** NFPA 664 does not permit more than 5000 CFM of air for open type collectors.

The DMP-900S model, which is not shown here is similar to DMP-700S.

**Note 2:** Width and depth footprint dimensions indicated above are with largest fans available. Actual dimensions with smaller fans will be submitted.

\* Dimensions to be determined according to fan specifications

## TECHNICAL DATA

### Unit weight (without fan)

CHART 1

Model numbers	Weight lbs/kg
DMP 170S	350 / 159
DMP 270S	385 / 175
DMP 350S	425 / 193
DMP 450S	430 / 195
DMP 570S	430 / 195
DMP 700S	882 / 400

**Note:** All weights indicated above are for reference only. Slight variations may occur.

### Recommended duct velocities for particles

CHART 3

Type of dust	F.P.M. / meter per second
Sawdust (dry)	3800 / 19
Cement dust	7000 / 36
Wood dust	4000 / 20

**Note:** Other particle velocities may be required. Refer to Industrial Ventilation Handbook for more details.

### Fan/motor weight

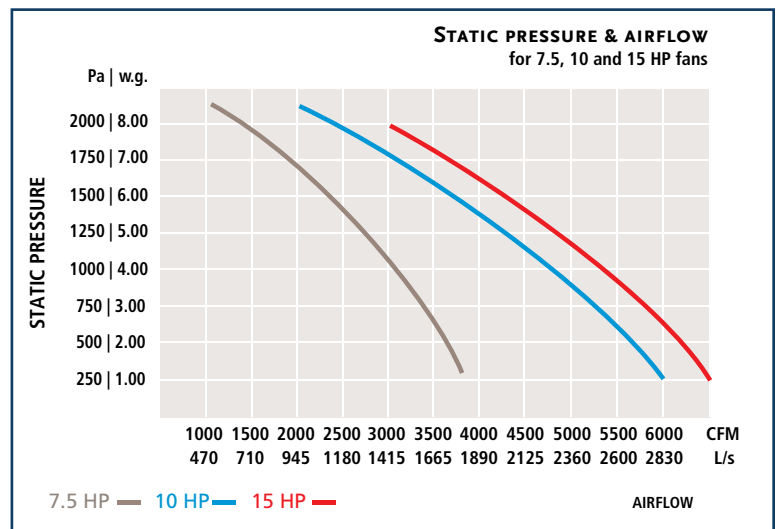
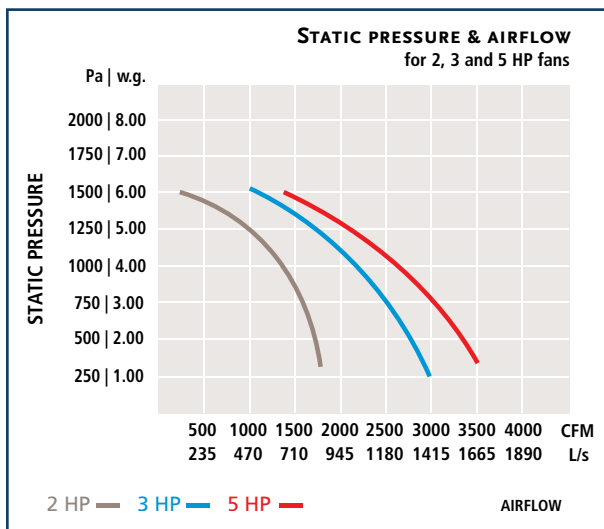
CHART 2

Fan HP	Weight lbs/kg
2	235 / 107
3	270 / 122
5	365 / 165
7.5	450 / 204
10	650 / 295
15	725 / 329

### Amperage draw

CHART 4

HP	220/1/60	208/3/60	460/3/60	575/3/60
2	12	6.8	3.4	2.7
3	17	9.6	4.8	3.9
5	28	15.2	7.6	6.1
7.5	40	22	11	9
10	50	28	14	11
15	68	42	21	17



**Note:** Static pressure and airflow indicated above are for references only. Higher static pressure for transport velocities may be required in different applications. Contact factory for proper fan selection and fan curves.

## SAFETY NOTES

The MaxiPLY dust collector meets NFPA 664 requirements as per the following criterias :

- is not used with mixed applications of wood dusts and non reactive metal grinding ;
- is not connected to sanders or abrasive planers with mechanical material feeds ;
- regular daily cleaning ;
- collector is located at least 20 feet (6.1 meter) from any mean of egress or area routinely occupied by personnel. A physical barrier can be used but dust collector may not be completely "boxed" into a room ;
- MaxiPLY dust collectors are not designed to collect any potentially reactive dusts such as aluminium, magnesium, tantalum, titanium and zirconium. MaxiPLY does not meet NFPA 484 standard.

## YOUR MAXIPLY SPECIFICATION

### 1. Dust collector:

A bolted and welded steel support structure with cross braces for reinforcement with primer and polyurethane finish coat; hopper for proper dust discharge into collector bin; 25 gallon gasketed dust collector bin with grab handles and quick release drum latch; filter envelope interior with satin coat to minimize dust caking; cleaning system should have a manual handle connected to the camshaft for shaking the filter envelope; fan supports with pre-drilled fittings for floor anchors; ease to dismantel for relocation with components to fit through a regular size door frame; fan assembly is direct drive; aluminum spark proof radial blade; without belts or pulleys and including TEFC motor; four (4) opened sides and opened top for air recirculation into the premises; dust deflector at hopper inlet.

### 2. Dust collector model:

- a) 170S with 170 ft<sup>2</sup> (15.8 m<sup>2</sup>) of filter envelope ☐
- b) 270S with 270 ft<sup>2</sup> (25 m<sup>2</sup>) of filter envelope ☐
- c) 350S with 350 ft<sup>2</sup> (32.5 m<sup>2</sup>) of filter envelope ☐
- d) 450S with 450 ft<sup>2</sup> (41.8 m<sup>2</sup>) of filter envelope ☐
- e) 570S with 570 ft<sup>2</sup> (53 m<sup>2</sup>) of filter envelope ☐
- f) 700S with 700 ft<sup>2</sup> (65 m<sup>2</sup>) of filter envelope ☐

### 3. Dust collector includes RBE 1750 R.P.M. fan with:

- a) 2 H.P. motor ☐
- b) 3 H.P. motor ☐
- c) 5 H.P. motor ☐
- d) 7.5 H.P. motor ☐
- e) 10 H.P. motor ☐
- f) 15 H.P. motor ☐

### 4. Motor voltage:

- a) 230-1-60 ☐
- b) 208-3-60 ☐
- c) 460-3-60 ☐
- d) 575-3-60 ☐

### 5. Unit should include:

- a) Explosion proof motor in lieu of regular TEFC motor. ☐

### 6. Unit should include a spare:

- a) Replacement filter. ☐

### 8. Unit should include:

- a) Manual starter with overload protection. ☐
- b) Magnetic starter with overload protection. ☐
- c) Explosion proof magnetic starter with overload protection. ☐

**Note:** Specifications listed above may be modified to suit application. Contact AQC or representative for information.

Your AQC  
representative is:



**DUST COLLECTION  
& SOURCE CAPTURE**

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