

DIVERSIFIED AIR SYSTEMS, INC.

# MAXPLY™

*Economical pocket type  
dust collector with  
manual shaker cleaning*



- *99% efficiency on particles*
- *Economical and easy to install*
- *Up to 5000 CFM capacity*

- *Various applications (wood dusts, metal, plastics, composites)*

- *Virtually maintenance free*
- *Ideal for small shops and training centers*

*Superior technology generating substantial operating savings*

# MAXPLY™

*Dust collecting systems*

## **MAXPLY** *Economical pocket type dust collector with manual shaker cleaning*

Based on the MAXVIBE design, the MAXPLY is more economical since it does not need an enclosed cabinet and the cleaning system is performed by manually shaking the filter envelope. 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 satin interior coated filter helps to minimize dust caking on filter surface. The angled hopper ensures constant sliding of pollutants into the dust storage drum. 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.

## *Industrial Air Specialists*

With our headquarters in Louisville, Kentucky, Diversified Air Systems, Inc. has been providing quality air solutions to industrial and commercial facilities since 1981. During our more than thirty years of operation, Diversified Air Systems, Inc. has established two important company traditions: offering state-of-the-art equipment at competitive prices and achieving long-term customer satisfaction.

The staff of Diversified Air Systems, Inc. includes five application engineers, with a combined experience of more than 75 years in the air filtration and HVAC industry. Whether your facility requires an air filtration system for dust, mist, or fumes, or an HVAC solution to meet ventilation needs, Diversified Air Systems, Inc. has the equipment and expertise to meet the need.

Services include air quality analysis, system design, equipment sales, turnkey installation, onsite servicing, and supply of replacement filters and accessories.

### **Other Filtration Systems available:**

Air Cleaners

Containment Booths

Decontamination Booths

Downdraft Tables

Dust Collectors

Fans and Blowers

Gas & Odor Control

High Vacuum Systems

Mist Collectors

Paint Booths

Stainless Steel Collectors

Vehicle Exhaust Systems

Wet Dust Collectors

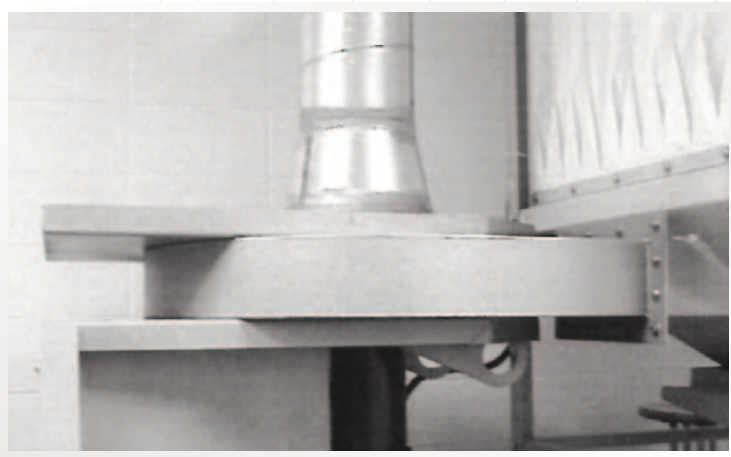


## MAXPLY EFFICIENT DUST FILTRATION WITH ECONOMY IN MIND

- 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
- Many components pre-assembled for easy jobsite fitting
- 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 MAXPLY

- Small to medium size wood shops, cabinetry making
- Training centers and vocational schools
- Plastic and composites shops
- None reactive metal transforming facilities



*Note:* Ideal for capture and filtration of wood dusts, plastic shavings, non reactive metal sanding and buffing, composites shops\*.

\*Refer to NFPA requirements in page 7 of this leaflet



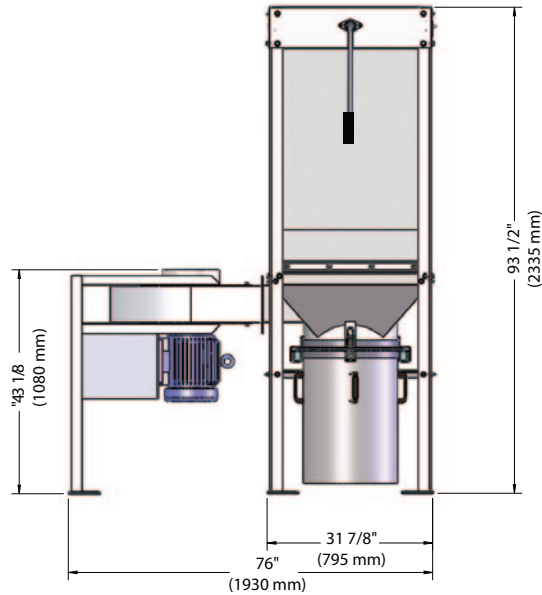
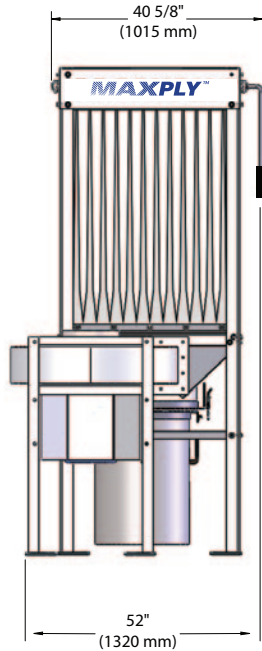
**OUTSTANDING MAXPLY FEATURES****GENERAL DESCRIPTION**

The MAXPLY 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 particulates into the angled hopper. Heavy dusts and solids fall into the drum by gravity and finer dusts are pushed into the high efficiency multiple pocket filter envelope. 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 thus dislodging the particulates inside the filter. After a few minutes, the decanter effect allows the particulates to fall into the dust storage drum.

## MAXPLY GENERAL DIMENSIONS

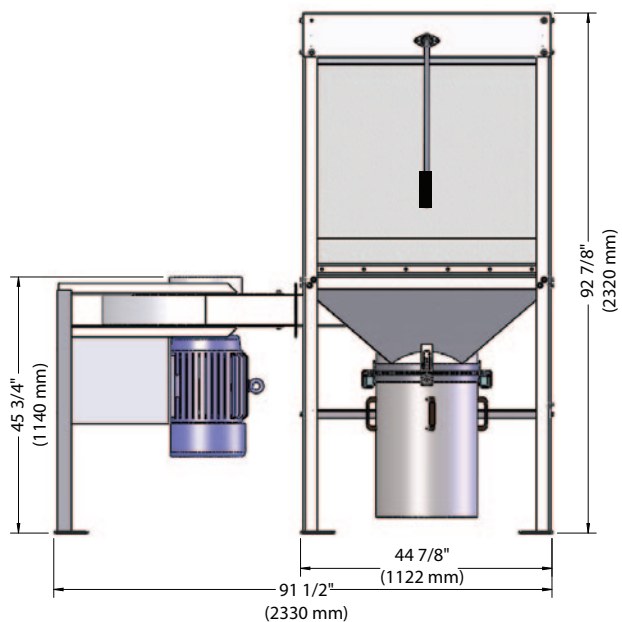
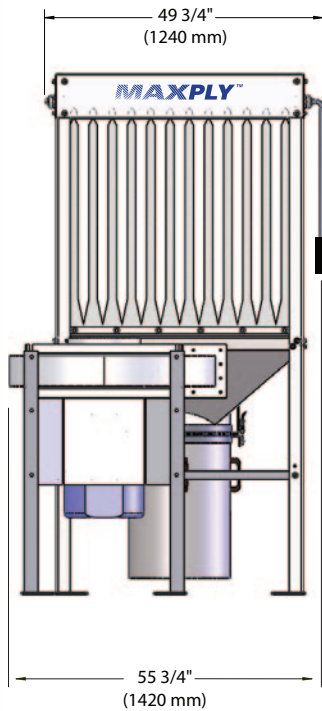
### DDMP-170S

Maximum air capacity	Surface of filtration
1700 CFM/805 L/s	170 sq. ft/18 sq. m



### DDMP-270S

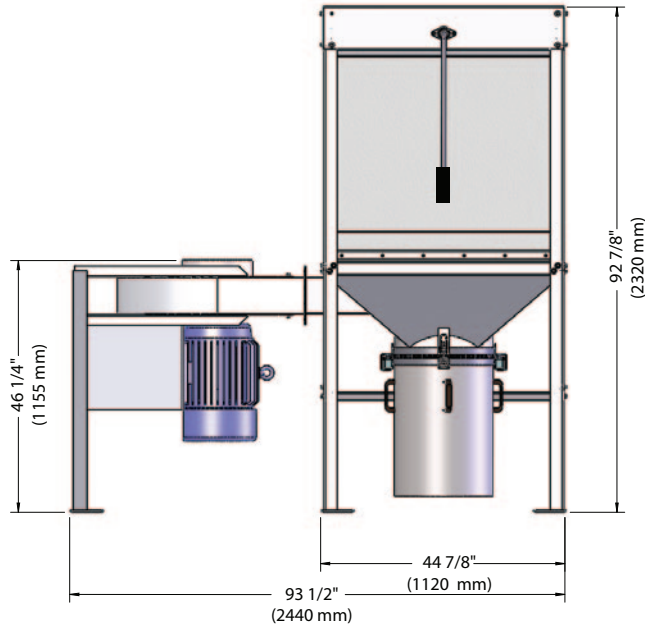
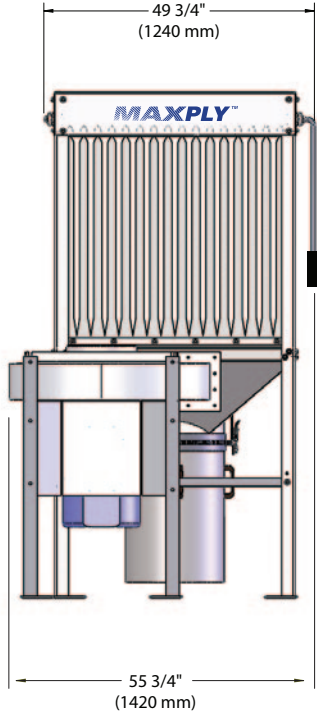
Maximum air capacity	Surface of filtration
2700 CFM/1280 L/s	270 sq. ft/25 sq. m



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

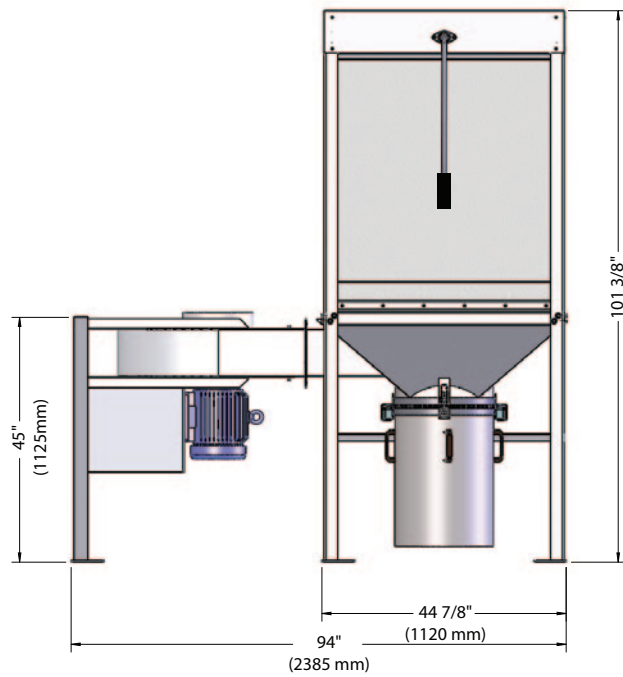
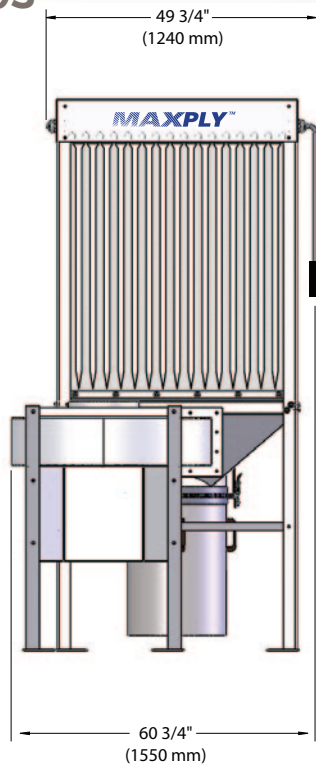
**MAXPLY GENERAL DIMENSIONS**

**DDMP-350S**



Maximum air capacity	Surface of filtration
3500 CFM/1665 L/s	350 sq. ft/32 sq. m

**DDMP-450S**



Maximum air capacity	Surface of filtration:
5000 CFM/2360 L/s	450 sq. ft/42 sq. m

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

## TECHNICAL DATA

### UNIT WEIGHT (WITHOUT FAN) CHART 1

Model numbers	Weight [lbs] / [kg]
DDMP 170S	350 / 160
DDMP 270S	425 / 193
DDMP 350S	450 / 205
DDMP 450S	475 / 215

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

### RECOMMENDED DUCT VELOCITIES FOR PARTICULATES CHART 3

Type of dust	F.P.M. / meter per second
Metal dust	4200 / 21
Sawdust (dry)	3800 / 19
Cement dust	7000 / 35
Wood dust	4000 / 20

Note : other particulate velocities may be required. Refer to Industrial Ventilation Handbook for more details

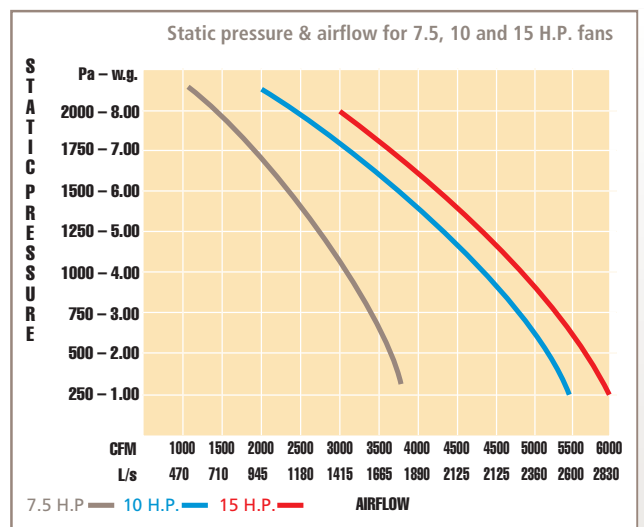
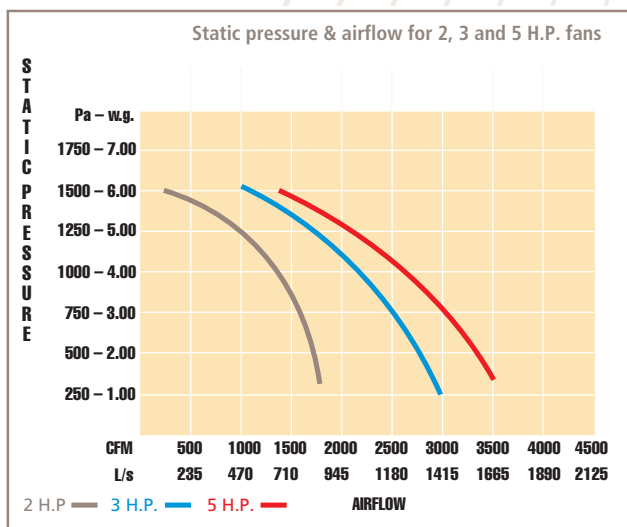
### FAN/MOTOR WEIGHT CHART 2

Fan	Weight [lbs] / [kg]
2 H.P.	235 / 106
3 H.P.	270 / 122
5 H.P.	365 / 165
7,5 H.P.	450 / 205
10 H.P.	650 / 295
15 H.P.	725 / 330

### AMPERAGE DRAW CHART 4

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

Note : Static pressure and airflow indicated below 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 MAXPLY 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
- MAXPLY dust collectors are not designed to collect any potentially reactive dusts such as aluminium, magnesium, tantalum, titanium and zirconium. MAXPLY does not meet NFPA 484 standard.

## CREATE YOUR MAXPLY SPECIFICATION

### 1. DUST COLLECTOR SHOULD INCLUDE

A bolted and welded steel support structure with cross braces for reinforcement with primer coat 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 for minimal dust caking and 99% efficiency on particles five (5) microns and more, cleaning system should include manual handle connected to camshaft for shaking the filter envelope, fan supports should include pre-drilled fittings for floor anchors, capability of being dismantled for relocation with components to fit through a regular size door frame, fan assembly should be direct drive, radial blade, without belts or pulleys with TEFC motor, four (4) opened sides and opened top for air recirculation into the premises, dust deflector at hopper inlet.

### 2. DUST COLLECTOR SHOULD BE MODEL:

- 170S with 170 square feet of filter envelope
- 270S with 270 square feet of filter envelope
- 350S with 350 square feet of filter envelope
- 450S with 450 square feet of filter envelope

### 3. DUST COLLECTOR SHOULD INCLUDE RBE 1750 R.P.M. FAN WITH:

- A) 2 H.P. motor
- B) 3 H.P. motor
- D) 5 H.P. motor
- E) 7.5 H.P. motor

F) 10 H.P. motor

G) 15 H.P. motor

### 4. MOTOR VOLTAGE SHOULD BE:

A) 230-1-60

B) 208-3-60

C) 460-3-60

D) 575-3-60

5. Unit should include an explosion proof motor in lieu of regular TEFC motor

6. Unit should include a spare replacement filter

7. Unit should include a spare 25 gallon dust bin with cover

8. Drum dolly for dust bin

9. Manual starter with overload protection

10. Magnetic starter with overload protection

11. Explosion proof magnetic starter with overload protection

Note : specifications listed above may be modified to suit application. Contact D.A.S. or representative for information.

### Diversified Air Systems, Inc.

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Continuous product improvement is a policy of D.A.S. Inc. Product features and specifications may be modified without prior notice.