

MULTIDUST® COLLECTION

THE SMART"ONE" — Self Cleaning Cartridge Filter for small and stand alone applications



Extended Surface Cartridge

Multiple mounting options

Pressure controlled automatic cleaning

Integrated soft touch operating system



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PLYMOVENT®

— an ISO 9001 certified manufacturer

"One smart choice" Brings longer life to your workers

The Smart "One" is the most state-of-the-art dry dust and smoke collector on the world market today. PlymoVent's **Ram-Air™** High Energy Cleaning System, developed and field tested for over four years, makes the Smart "One" the right one for your application.

- Higher filter cleaning energy.
- Better filter surface cleaning.
- 50% less compressed air required to clean the cartridge.

The Smart"One" is the right one

Over the years many manufacturers have made unsubstantiated claims of technical advances in dust collector design. PlymoVent again redefines dust collector standards by the introduction of the Smart"One".

One new filter

The new filter design of the Smart"One" gives an exceptional degree of filtration provided by one extended surface cartridge filter with up to 99,9% efficiency. Due to PlymoVent's advancements in synthetic cartridge filter technology, we have been able to succeed in the development of a filter with higher airflow and better cleaning ability through pleat stabilizing design.

This superior filter combined with our continuous advancements in our Clean Card technology automatically

monitors the status of the filter and prescribes cleaning only when needed. This results in lowered compressed air usage and extended filter life. When you purchase a PlymoVent product, you are assured that our product will outlast your investment.

Cleaning Control System

The equipment comes with a newly developed and highly advanced visual filter monitoring system.

The filter can be manually cleaned at any time. Clear and simple instructions on the filter housing lid plus a simple handle make filter change simple and convenient.

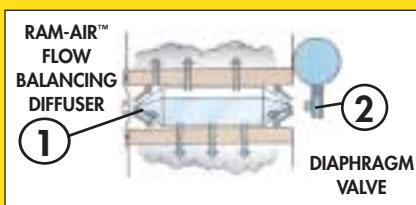
Ram-Air™: A higher level of cleaning

The PlymoVent dust collectors use Ram-Air™ technology for filter cleaning, see description below.



THE BIG "ONE" EXTENDED SURFACE FILTER

Ram-Air™ High Energy Cleaning System was designed by PlymoVent in 1994 to overcome the historical problem of cartridge filters plugging due to ineffective cleaning systems.



Ram-Air™ works like this:

Inside each cartridge filter is a Ram-Air™ Flow Balancing Diffuser (1), which reduces the open inside area of the filter. Its triangulated design and air-foil tips at the front and back direct the cleaning energy provided by compressed air. The air rapidly fills

the inside of the filter and equally cleans the entire outside filter surface 100%.

Other manufacturers try to clean two filters at the same time or pack twice the filter media in the cartridge and Just Cannot Clean It.

With a PlymoVent Smart"One":

- We reduce consumption of expensive compressed air by 50%.
- We reduce your replacement filter cost.
- We reduce the running pressure, which reduces electric consumption.
- We increase airflow provided to your process.
- We reduce your need for off-line cleaning, which increases production time.

When your application calls for a compact, self-cleaning, dry dust collector, the Smart "One" is the right one for nearly any intermittent or continuous industrial process.



e for your application



Quality from top to bottom!



Flexible mounting options allow the Smart"One" to be mounted from the ceiling, wall or floor.



Ram-Air™ Balancing Diffuser forces and distributes the compressed air, maximizing cleaning and reducing compressed air consumption.



One Point Hook-up of electric and compressed air makes start-up easy. Built in compressed air water drain allows for quick service.



Smart"One" includes a 60° incline dust transport hopper and dust drum.



The Clean Card™ combines soft touch controls with trouble-free integrated design:

- Full pressure controlled automatic cleaning.
- Manually operated off-line cleaning.
- On/off fan control.
- Fully adjustable timer settings.
- Filter status indicator light.

FEATURES AND BENEFITS

Hopper & dust bin

- Hopper designed for ease of dust removal.
- 10 gal/40 lit dust bin as standard.
- 10 inch/250 mm diameter connection between dust bin and hopper.
- Air tight seal on dust bin.

Single filter cartridge

- Large capacity.
- Easily removed – horizontal design.
- Spun bond polyester standard, other type of filters available.
- Positioning guide in cartridge door.

Self cleaning

- Pressure controlled automatic cleaning.
- Manual off-line cleaning – standard.
- Internal air tank.
- Manual air bleed valve.

Ram-Air™ Flow balancing diffuser

- Extends filter life.
- Uses 50% less compressed air.
- Non-wire frame.
- Enhanced cleaning efficiency.
- Better air distribution during pulse cycle.

Control box/panel

- Soft touch controls.
- Cartridge cleaning indicator light.
- Push button cleaning.
- No switches to break or wear.
- Cleaning control pressure sensor.
- Manual off-line cleaning included.
- Dust and water resistant.

Its flexible design allows for any installation possibility

If your application calls for one unit, a direct-mounted fan can be provided. But if you require multi-units, a system fan can be supplied. This will allow you to connect two or more Smart"One's" together and reduce your cost of electric installation

and operation. This feature is also good when the sound of fans in an area may be objectionable to employees. In this case, the Smart"One" allows you to remote-mount the fan unit.



TECHNICAL DATA

Imperial/USCS

Metric

Product number:	S-1	S-1
Max airvolume*:	824 CFM	1400 m ³ /h
Typical airvolume:	588 - 705 CFM	1000 - 1200 m ³ /h
Filter area:	215 sq.ft.	20 m ²
Weight:	227 lbs	103 Kg
Dimensions:	36.8" x 26" x 62.2"	935 x 660 x 1580 mm
Electrical supply:	AC-1 or 3 phase	AC-1 or 3 phase
Compressed air:	Max 65 psi dry, clean air	Max 5 Bar dry, clean air
Inlet Top:	Ø10"	Ø250 mm
Outlet left, right or top:	Ø6"	Ø160 mm
Mounting:	Wall and ceiling brackets as standard or optional floor rack mounting.	

Accessories

CAR, - compressed air filter regulator

RS-1, - floor rack

FUA-3000 Fan, 1.1 KW/1.5 hp

* depending on application