

# MULTIDUST® COLLECTION

THE MOBILE"ONE" Self Cleaning Cartridge Filter  
Mobility without limits



Pressure controlled  
automatic cleaning

Integrated soft touch  
operating system

Extended Surface  
Cartridge



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## "One" great advantage

THE MOBILE"ONE" WILL TAKE YOU TO PLACES YOU HAVE NEVER BEEN BEFORE.

The Mobile"One" allows you to take it with you, into plant locations not accessible by other forms of source capture ventilation. The Mobile"One's" versatile design is always close at hand and eliminates most dry dust and smoke. PlymoVent's Ram-Air™ High Energy Cleaning System, developed and field tested for over four years, makes the Mobile"One" the right one for your application.

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

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**PLYMOVENT**  
INTELLIGENT PROCESS VENTILATION™

# Our best seller – suitable everywhere!

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 Mobile“One”.

## One new filter

The new filter design of the Mobile “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 auto-matically 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.

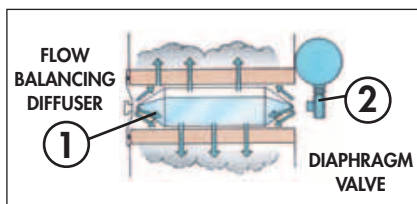


### The Clean Card™ combines soft touch controls with troublefree integrated design:

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

## ESSENTIAL FACTS

**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

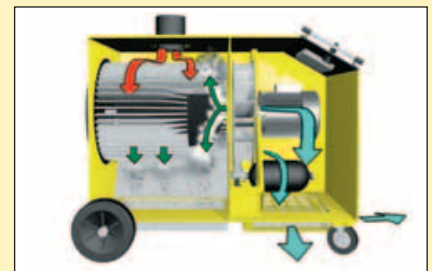
and air-foil tips at the front and back direct the cleaning energy provided by compressed air. The air rapidly fills the inside of the filter and equally cleans the entire

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 Mobile“One”:

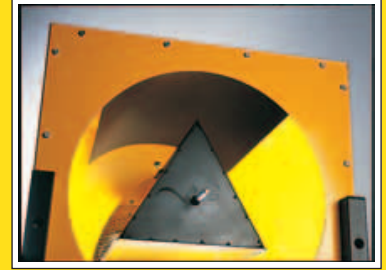
- We reduce consumption of expensive compressed air by 50%.
- We reduce your replacement filter cost.
- We reduce the running pressure, which reduces electric consumption.
- We increase airflow provided to your process.
- We reduce your need for off-line cleaning, which increases production time.

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





## Quality from top to bottom!



Spark and abrasive dust arrestor protects the filter from spark damages etc.



An onboard, pressurized air-tank cleans the Mobile "One" filter twice without a compressed air connection. It is no longer a problem to temporarily work away from the usual work place. The Ram-Air™ balancing diffuser reinforces and distributes the compressed air to achieve maximum effect, drastically reducing compressed air consumption.



Dust baffle eliminates back suction.



Integrated seal-tite dust tray prevents dust from re-entering or escaping the filter.

# FEATURES AND BENEFITS

## Single filter cartridge

- Large capacity.
- Easily removed – horizontal design.
- Spun bond polyester standard, other type of filters are 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.

## Portable

- Light weight.
- Easy to move.
- Large solid rubber wheels.
- Locking swivel castors.
- Compact design

## Control panel

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

## Extraction arm

- Two models available. Standard and Economy, 7 - 14 feet/2 - 4 m reach.
- 360 degree rotation.



Standard

**Two models!**  
Patent Pending design



Economy

# TECHNICAL DATA

## Standard arm

Product number: M-1/K2	M-1/K3	M-1/K4
Extraction arm: KUA-2-S	KUA-3-S	KUA-4-S
(L=7 ft/2 m)	(L=10 ft/3 m)	(L=14 ft/4 m)

## Economy Arm

M-1/E2	M-1/E3	M-1/E4
EA-2-S	EA-3-S	EA-4-S
(L=7 ft/2 m)	(L=10 ft/3 m)	(L=14 ft/4 m)

## For all models

Max airvolume: 824 CFM/1400 m <sup>3</sup> /h
Typical airvolume: 588-705 CFM/1000-1200 m <sup>3</sup> /h
Dimensions exkl. arm: 46"x31"x38.2"/117x79x97 cm
Compressed air: Max 65 psi/5 Bar dry, clean air

Filter area: 215 sq. ft./20 m <sup>2</sup>
Weight excl. arm: 373 lbs/169 kg
Electrical supply: 115 V, 1-phase, AC
Noise level: < 70 dBA

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