

Mobile electrostatic filters EMK

Highly efficient extraction and filtration unit for temporary work stations where pollution is present



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PlymoVent mobile electrostatic filters EMK-1400 and EMK-1600 very efficiently solve the problems of welding fumes, dust and smaller particles. Use them for those intensely hazardous jobs that can occur anywhere in the workshop. A perfect complement to your PlymoVent fixed extraction system.

ESSENTIAL FACTS

The EMK filters particles down to $0.005\mu\text{m}$ ($0.0000002''/0.000005\text{mm}$) in two stages. Particles which pass through the pre-filter are charged with 12,000 V in the ionizing cell. These are then separated in the collection cell at a voltage of 6,000 V. The cleaned air is discharged upwards from the unit. A third stage in the filtration process can be carried out by an activated carbon filter which can be fitted after the collection cell.

- See page 86 for information about the electrostatic principle.
- Supplied with the KUA extraction arm, either 7 ft/2 m, 10 ft/3 m or 14 ft/4 m in length. (The EMK-1600 is also available with 2 extraction arms).
- For use with 1-ph 115 VAC supply.
- Equipped with a transformer to enable a halogen lamp cartridge to be fitted in the hood.
- Available with alarm. When the filter is full an alarm signal sounds and the fan stops after about 20 seconds. The filter must now be cleaned before it can be used again.
- Low noise level – < 70 dB(A) at a distance of 3 ft/1 m.
- Stability is assured due to robust legs.
- Manoeuvrability provided by large rubber rear wheels, front swivel casters equipped with locks.

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INTELLIGENT PROCESS VENTILATION™

For industrial use

The EMK units are fitted with heavy-duty industrial electrostatic cells which filter the air in 3 stages. The filtration efficiency is extremely high, even with high volumes of air. The filter cells are easily accessible. Just wash them and re-use them!

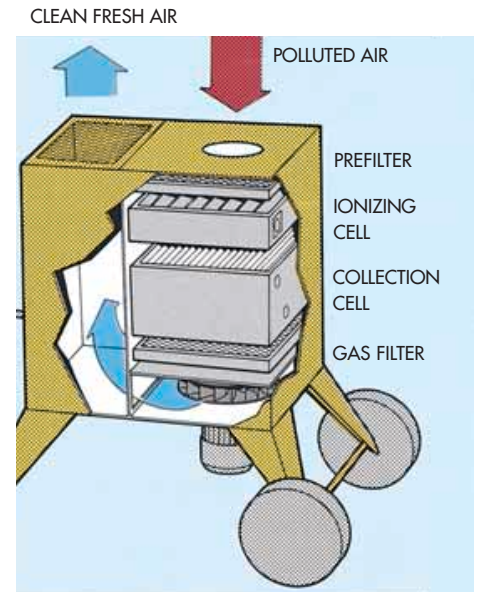
Robust and versatile

The big wheels and handles on the unit allow it to be moved easily to exactly where it is needed. The extraction arm is PlymoVent's super flexible "KUA" which offers maximum versatility in all situations. PlymoVent's mobile electrostatic filters give at-source extraction around the workshop. They are available with a choice of three arms, 7 ft/2 m, 10 ft/3 m or 14 ft/4 m. The 14 ft/4 m arm can reach up to 17 ft/5.2 m from floor level and anywhere within a working area of 26 ft/8 m.

The PlymoVent EMK is the sensible first step for a company to solve its problems with welding fumes, as it can be used

exactly where it is required. All you need is a single phase socket and the extractor is ready to go into action. For companies who have already solved their main welding fume problems with wall mounted fume extractors, the EMK is the perfect complement. It can be used at those temporary workplaces around the factory where welding is only occasionally carried out, but where fume removal is necessary; and of course it is invaluable as a reserve so that if any of the wall mounted extractors are out of order it can take over and prevent a stoppage of work.

The big advantage with electrostatic filters is that they can easily be cleaned and used again. How often you have to clean them depends on how much fume and dust you extract. *PlymoVent mobile electrostatic filters use powerful industrial cells, and are built throughout from robust components for tough, demanding industrial use.*



TECHNICAL DATA

PlymoVent Mobile Electrostatic Filter – EMK

Prod. no.	Fan	Active filter area sq. ft./m ²	Height inches/mm	Width inches/mm	Length inches/mm	Weight lbs/kg	Noise level ca dB(A)	Max airflow through the hood CFM/m ³ /h
EMK-1400	1Hp, 115 VAC, 1-ph freeblowing 1060 CFM/1800 m ³ /h	103/9.6	44.5/1130	35/900	43/1100	200/91	< 70	780/1200
EMK-1600	1Hp, 115 VAC, 1-ph freeblowing 1300 CFM/2160 m ³ /h	176/16.4	49/1240	35/900	53/1340	260/118	< 70	960/1500

Note! Dimensions without wheels and legs are:

EMK-1400: width 20"/515 mm, length 27"/695 mm **EMK-1600:** width 20"/515 mm, length 36"/910 mm.

Filter with alarm

Prod. no.	Description
EMK-1402/AL	As EMK-1400 but with an alarm*
EMK-1602/AL	As EMK-1600 but with an alarm*

*When the filter is full, a yellow warning light comes on and on alarm signal sounds. About 20 seconds later the fan stops and a red light comes on. The collection cell and the ionization cell must be cleaned before starting the filter again.

Complementary products and accessories

Prod. no.	Description
CF-001	Activated carbon filter for EMK-1400
CF-002	Activated carbon filter for EMK-1600

Optional equipment

Prod. no.	Equipment
EMK-1400/2	incl. 7'/2 m extraction arm
EMK-1400/3	incl. 10'/3 m extraction arm
EMK-1400/4	incl. 14'/4 m extraction arm
EMK-1600/3	incl. 10'/3 m extraction arm
EMK-1600/4	incl. 14'/4 m extraction arm
EMK-1600/3+3	incl. 2 x 10'/3 m extraction arm
EMK-1600/4+4	incl. 2 x 14'/4 m extraction arm



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