



FOUNDRY
MACHINERY AND
SPARES LIMITED

FMS Dust 'X' Extraction Systems



FMS range of filter units (1 of 2)

Mechanically shaken filter units employed where intermittent extraction is required:

- MC – Small range of manually shaken units ideal for small dust generating applications
- M – Compact range of envelope filter units from 8m² to 256m² in a single fabrication complete with integrated high efficiency fan(s), integral shaker motor(s) and offering a wide variety of waste disposal methods

FMS range of filter units (2 of 2)

Pulse jet filter units designed for continuous or extended periods of usage:

- DFP – Compact range of flat pad design of filter units providing either vertically or horizontally mounted filter cassettes complete with integral high efficiency fans ideal for low/medium dust loadings
- CV – Tubular bag filter units with large pre-separation chamber designed for large air volumes with medium/high dust loadings, the units can be supplied with either top or floor mounted fan sets. Although not compact these units are very tolerant with sticky, oily, damp or fibrous materials
- DCH – Horizontally mounted high efficiency filtration offering a compact design with either integral or floor mounted fan sets recommended for fine dust applications

Complete after sales care (1 of 3)

- **Following installation of your FMS Dust Extraction, we offer a Service Contract with a visit planned for every 12 months. This complies with COSHH Legislation and combines a service visit with Local Exhaust Ventilation (LEV) test certification.**
- Therefore, not only are we able to visit site and fully test your system, we are also able to forward our recommendations for putting right anything that has a fault and provide a quotation for carrying out the necessary remedial work.
- There are many companies who offer to test dust extraction systems to LEV certification standards; we go a step further by offering the back up of providing for their servicing needs as well to ensure complete peace of mind.
- Dust extraction systems are usually classified as Local Exhaust Ventilation (LEV) and as such they should be tested once every 14 months. As stated previously, we usually offer our service visit on a 12-month basis to ensure that testing is carried out within this time span. In certain cases systems require testing on a more regular basis and of course we can accommodate such instances. On acceptance of our service contract, an LEV register is provided by Fms Ltd and each visit is logged and signed for by our service engineer for HM Inspectors approval.

Complete after sales care (2 of 3)

- Without periodic inspection, adjustment and replacement of various components by experienced personnel, dust extraction plant and equipment will soon deteriorate and become inefficient causing potential health problems for your workforce and greater cost in the long run with regards to repairs. A simple repair carried out early can prevent the need for expensive repair costs later on.
- We obviously recommend that all dust extraction equipment is maintained in line with the service manual that is provided with each of our filter units. Your own staff can carry out most of the weekly and monthly checks but many companies prefer the reassurance of our Service Department to carry out inspection work on a contract service scheme basis. By doing so, this can often mean that potential problems are intercepted before they affect costs.

Complete after sales care (3 of 3)

- **Total Site Agreements**

- For sites that have a number of dust extraction systems present within them that have been installed by different manufacturers, we offer a Total Site Service Agreement in which we look after the LEV testing and servicing needs of each of the individual systems. This takes away the problem of having to deal with several different companies to get your equipment tested and then, if necessary, serviced and repaired.
- With a FMS Total Site Agreement, we look after the LEV testing and servicing of all your dust extraction plant which gives you more time to get back to the job of running your business. This not only means that your business will run more effectively, it also gives you the peace of mind to know that your dust extraction systems are in the care of experts.

MC type units

THE MC UNIT



This is a small range of hand shaken filter units designed to give an easy answer to the small dust extraction problem. They are ideal for connecting to small dust generating machines such as small grinding wheels and profile sanders.

The unit is available in two sizes, a 1.0m² filter size fitted with a 0.55kw fan set and a 2.5m² filter size fitted with a 1.1kw fan set. Both units are available for an electrical supply of 415v 3 phase 50 hz supply but a single phase option on both units is also available.

M type units

THE M UNIT



The unit design utilises a small motor coupled to a reduction gearbox to mechanically shake the filter bags clean once the integral top mounted fan set has been switched off.

The shaker motor and gearbox are located inside the filter unit and are unseen from outside. The M unit is a compact design and employs an envelope type filter bag within it with the dust collecting on the inside of the filter bag, therefore making access to the filter media available from the "clean air" side of the unit.



To give a wide variety of filter unit sizes, the M unit range is built around a modular design with the "single bodied" unit available in a range of filter areas from 8 to 40 square metres of filter area . The range is then built up around the duplication of bodies with the largest standard unit built as one construction being the 8 bodied 256M which employs 256 square metres of filtration media.

DFP type units



THE DFP UNIT

The DFP unit utilises compressed air for filter cleaning on an intermittent yet continuous basis whilst the fan set is still running. This allows the filter unit to run continuously for extended periods of time

In the DFP filter unit, the filter elements take the form of flat pads with the filter media being mounted over wire mesh support frames. By utilising this method of construction, the units are very compact and allow the filter media to be mounted in either a horizontal or vertical manner.

The flat Pad configuration of the filter media allows for a wide number of variations and is the most versatile of our pulse jet filter units.

Access for filter bag removal is gained from the clean air side of the filter unit only.

CV type units

THE CV UNIT



The CV unit utilises compressed air for filter cleaning on an intermittent yet continuous basis whilst the fan set is still running. This allows the filter unit to run continuously for extended periods of time.

In the case of the CV filter unit, the filter elements take the form of tubular filter bags held in place vertically from a horizontal filter bag mounting plate. Though the unit is not as compact as the DFP or DCH unit designs, it offers an answer to a wider range of dust problems than its sister units. This is because the CV filter unit can tolerate to a far higher degree dusts that, for example, are sticky, oily, and fibrous, statically charged or have an affinity to moisture. This is due to the tubular nature of the filter element design as well as the pre-separation section that is built around the inlet arrangement of each CV filter unit.



Of course, the unit design must reflect the environment that it is to be applied to for it to work correctly and it is therefore important to let our Sales Department know as many details as possible with regards to the intended application.

As a standard, the filter media is removed from the "clean air side" of the filter unit, but where height is an issue, the filter bags can be made with "dirty side" removal.

DCH type units



THE DCH UNIT

The DCH filter uses horizontally mounted filter cartridges to filter dust laden air to a highly efficient level; in many applications the clean air dust level achieved is below 1 mg/cu.m. As well as being highly efficient, the unit is compact and is maintenance friendly with the cartridges being easy to withdraw on an individual basis with the minimum effort.

Units with vertically mounted cartridges can also be provided when required.

The DCH unit is ideal for handling dusts such as electrostatic paint spray, welding fume, plasma and laser cutting operations and shot blast applications.



Additional services

- Dust sampling/monitoring
- LEV survey work in accordance with COSHH legislation
- Noise monitoring
- Preventive maintenance
- Filter bag and cartridge supply and installation service
- Comprehensive range of stocked parts for all types of units
- Ductwork modifications/additions
- Plant relocation
- Upgrading existing plant to meet current regulations (ATEX etc)
- Up to date range of test equipment

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