

Martindale






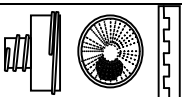
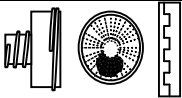


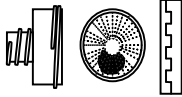
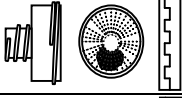
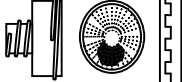
USER INSTRUCTIONS: MAGNUM POWERED REPSIRATOR FILTERS (Particulate):

M23P2/5, M23P2OD/5, M23P2/5A M23P2/60, M23P3/5, M23PF/10, M23PFOD/10, M23PF/10A, M23PF/100, M23P3SL/6, M23PF/20

Before using the system it is essential that you read the instructions and ensure that the correct equipment has been selected. Always be aware of the limitations of use of the equipment and that it is appropriate to the task. In addition to these instructions also refer to the main instructions provided with the powered respirator and headpiece. You must always only use genuine Martindale filters, use of other filters will invalidate any CE product approvals and warrantee and may mean that an inadequate level of protection is given.

Applications and limitations.

Refer to the chart below (reading from left to right), for details of which standard the respirator conforms to, which filters can be used, what it protects against and what the protection factors are.

Power Unit	Filter(s)	Filter(s)	Optional Pre-Filter	Headpiece	European Standard	Protects Against	Nominal Protection Factor (From standard)	Assigned Protection Factor (From BS4275)
Magnum 1000 M23/1000	P2 Cassettes: M23P2/5, M23P2OD/5, M23P2/60, M23P2/60A,	 x 1	M23PF/10 or M23PF/10A, M23PFOD/10	P2 Hoods	EN 146 TH2PSL	Dusts and Particles (including solid and water based aerosols)	20	20
Magnum 2000 M23/2000	P2 Cassettes: M23P2/5, M23P2OD/5, M23P2/60, M23P2/60A,	 x 1	M23PF/10 or M23PF/10A, M23PFOD/10	P2 Hoods	EN 12941 TH2PSL	Dusts and Particles (including solid and water based aerosols)	50	20
Magnum 2000 M23/2000	P3 Cassette: M23P3/5	 x 1	M23PF/10 or M23PF/10A, M23PFOD/10	P3 Hood (M23LHF only)	EN 12941 TH3PSL	Dusts and Particles (including solid and water based aerosols)	500	40
Magnum 4000 M23/4000	P3 Cassette: M23P3/5	 x 1	M23PF/10	P3 Hoods	EN 12941 TH3PSL	Dusts and Particles (including solid and water based aerosols)	500	40
Magnum 4000 M23/4000	P3 Cassette: M23P3/5	 x 1	M23PF/10	P3 Full Face Mask	EN 12942 TM3PSL	Dusts and Particles (including solid and liquid based aerosols)	2000	40
Magnum 4500 M23/4500	P3 Canister: M23P3SL/6	 x 2 or 3	M23PF/20	P3 Hoods	EN 12941 TH3PSL	Dusts and Particles (including solid and water based aerosols)	500	40
Magnum 4500 M23/4500	P3 Canister: M23P3SL/6	 x 2	M23PF/20	P3 Full Face Mask	EN 12942 TM3PSL	Dusts and Particles (including solid and liquid based aerosols)	2000	40
Magnum 8000 M23/8000	P2/P3 Cassettes: M23P3/5, M23P2/5 M23P2OD/5	 x 1	M23PF/10, M23PFOD/10	P2 Hoods	EN 12941 TH2PSL	Dusts and Particles (including solid and water based aerosols)	50	20
Magnum 8000 M23/8000	P3 Cassette: M23P3/5	 x 1	M23PF/10	P3 Full Face Mask	EN 12942 TM3PSL	Dusts and Particles (including solid and liquid based aerosols)	2000	40
Magnum 8500 M23/8500*	P3 Canister: M23P3SL/6	 x 2	M23PF/20	P2 Hoods	EN 12941 TH2PSL	Dusts and Particles (including solid and water based aerosols)	50	20
Magnum 8500 M23/8500*	P3 Canister: M23P3SL/6	 x 2 or 3	M23PF/20	P3 Hoods	EN 12941 TH3PSL	Dusts and Particles (including solid and water based aerosols)	500	40
Magnum 8500 M23/8500*	P3 Canister: M23P3SL/6	 x 2	M23PF/20	P3 Full Face Mask	EN 12942 TM3PSL	Dusts and Particles (including solid and liquid based aerosols)	2000	40

For example: The Magnum 1000 system takes one P2 cassette with optional pre-filter suitable for use with P2 headpieces only and complies with EN146 TH2PSL (Dusts and particles). It offers a Nominal Protection Factor of 20 and an Assigned Protection Factor of 20.

It is recognised that laboratory protection factors can not always be achieved in the workplace. National guidance varies from country to country as to how protection factors are implemented and how RPE is selected. Please refer to your appropriate national guidance. E.g. BS:4275 in the UK which suggests assigned protection factors.

* N.B. M23/8500 can also be used with gas filters (see separate instructions for Fitta and DIN-40 range of filters).

Nuisance Odour Filters / Nuisance Odour Pre-filters

In addition to the standard particulate filters, the Magnum 1000, 2000 and 8000** power units can be fitted with **M23P2OD/5** filters. These offer the same level of protection and conform to the same standards as the M23P2/5 but in addition give **nuisance level** odour protection.

Note: They should NOT be used against toxic levels of gas/vapour or where the gas/vapour level exceeds the occupational exposure limit.

** Suitable only when used with a P2 headpiece.

As an alternative the nuisance odour pre-filter **M23PFOD/10** may be used with the M23P2/5 or M23P3/5 filters in the Magnum 1000,2000 & 8000 units with P2 headpieces to give relief from **nuisance** odours. The nuisance odour pre-filter M23PFOD/10 may also be used in conjunction with the M23P2OD/5 filter in the Magnum 2000 and 8000 units. Fit and use the M23PFOD/10 prefilter as per the M23PF/10 prefilter.

Note: They should NOT be used against toxic levels of gas/vapour or where the gas/vapour level exceeds the occupational exposure limit.

Changing/Fitting Filters and Pre-filters

Care should be taken when handling filters. Do not touch the pleated paper filter medium.

Do not use filters after their expiry date. Filters are marked with an expiry of shelf life date, which is 3 years for M23P2OD/5 and 5 years for all other filters, from date of manufacture. Do not open sealed bag containing filter until you are ready to use it.

The outside surfaces of both the power unit and the main filter should be decontaminated before removing the main filter(s). The power unit should be positioned so that the filters are facing downward, so that any trapped material released by removing the filter(s) does not fall into the filter port.

Pre-Filters

The Pre-filter is available as an optional item which sits in front of the main filter and removes coarse dust before it reaches the main filter. The pre-filter should be changed immediately the clogged filter alarm or pre use flow check indicator indicates or immediately a drop in airflow is noticed. Pre-filters, in themselves, do not offer any respiratory protection and hence must only be used in conjunction with a main filter.

Frequent changing of the prefilter will maximise the life of the main filter.

Part Number: M23PF/10, M23PF/10A

To fit the prefilter open the unit as detailed in 'changing the main filter', remove any existing pre-filter. Lay the prefilter in the inside of the front door, ensuring that it is central then close the door as detailed in 'changing the main filter'. Ensure that you do not damage or dislodge the main filter when you are doing this.

M23PFOD/10

To fit the prefilter open the unit as detailed in 'changing the main filter', remove any existing pre-filter. Lay the prefilter in the inside of the front door, ensuring that it is central and that the vertical ribs in the inside of the door protrude through the slots in the top and bottom edges of the prefilter. Then close the door as detailed in 'changing the main filter'. Ensure that you do not damage or dislodge the main filter when you are doing this.

Part number: M23PF/20

To change the pre-filter, unscrew the pre-filter retaining ring leaving the main filter fitted to the body of the power unit. Replace the pre-filter and re-fit the retaining ring. Check that the main filter is still securely in place after this operation.

Main filters

For the Magnum 1000, 2000, 4000 and 8000 power unit only one filter is required.

For the Magnum 4500 and 8500 Magnum 8500 only 2 particle filters are required when used with a full-face mask or P2 head pieces*. The centre-blanking plug on the Magnum unit should be tightly screwed down onto the gasket (use a coin or similar).

For the Magnum 4500 or 8500 when used with P3 hoods or blouses (M23FH, M23FH/8, M23HS, M23HS/8) although the unit will function with two filters we strongly recommend the use of 3 filters to ensure adequate airflow is maintained under all conditions. The third filter may be fitted in the centre port by unscrewing the blanking plug (anti-clockwise) using a coin or similar, after unscrewing the plug check that the gasket in the DIN-40 socket is still in place and in good condition.

Note: When more than one filter is fitted to the unit all filters must be of the same type.

* Please refer to 'applications and limitations' and the instructions supplied with the power unit to determine suitable headpieces for the power unit.

Part number: M23P2/5, M23P2OD/5, M23P2/60, M23P2/60A and M23P3/5 - Rectangular internal filters

If after changing the pre-filter the clogged filter alarm or pre use flow check indicator indicates within a short period of time, the main filter should be changed as detailed below.

If a Pre-filter is not used the main filter should be changed immediately the clogged filter alarm or pre use flow check indicator indicates.

Care should be taken when handling filters. Do not touch the pleated paper filter medium. Do not use filters after their expiry date.

Filters should be fitted as follows :

Open the front cover by easing open the Right side of the doors. Check that the seal on the back of the filter is not damaged and that there is no other damage to the filter; discard any damaged filters. Fit the filter squarely into the power unit and swing the door closed on the hinge until it clicks in place.

Warning: Ensure that the Door is fully and properly closed and the filter fitted in place before use.

Part number: M23P3SL/6 - External Round Din-40 threaded filter

Filters should be fitted as follows:

Check that the rubber seal in the filter port of the power unit is present and seated flat at the bottom of the threaded section.

Check that there is no visible damage to the filter; discard any damaged filters.

Screw the filter squarely into the power unit port until it is hand tight. Do not over tighten as this may damage the filter seal and impair efficiency.

The outside surfaces of both the power unit and the main filter should be decontaminated before unscrewing the main filter. The power unit should be positioned so that the filters are facing downward, so that any trapped material released by unscrewing the filter does not fall into the filter port.

Disposal

Contaminated filters/pre filters should be disposed of in accordance with local Health & Safety Legislation.

Storage

All equipment should be stored in a clean dry atmosphere (R.H. < 90%) within the temperature range -5°C to +55°C in their original packaging. It should be protected from direct sunlight and any material known to damage plastics, e.g. petrol and solvent vapours. Filters should be transported in their original packaging.

EC Type-examination by : BSI Product Services, Maylands Avenue, Hemel Hempstead, Herts. HP2 4SQ (Notified Body No 0086)