

Overview 3M (Powered) Respiratory systems

Explaining the various systems

General

This document shows what type of 3M filter systems can be used, for different circumstances. It shows pictures of the articles that are available in our webshop. If multiple images are shown, this means that a choice can be made between several variants. In this way a system can be adapted to your own wishes and needs.
A diagram is also shown with information about the various protection levels.

Schema Powered filter units

The scheme of Powered Filter Units shows how to put together a complete system, which can be used in the, for example, manure pit.
This system requires the use of a compressor, which is not offered by MS Schippers. There are also a number of different variants available to compose the system as desired.

Schema Powered air units

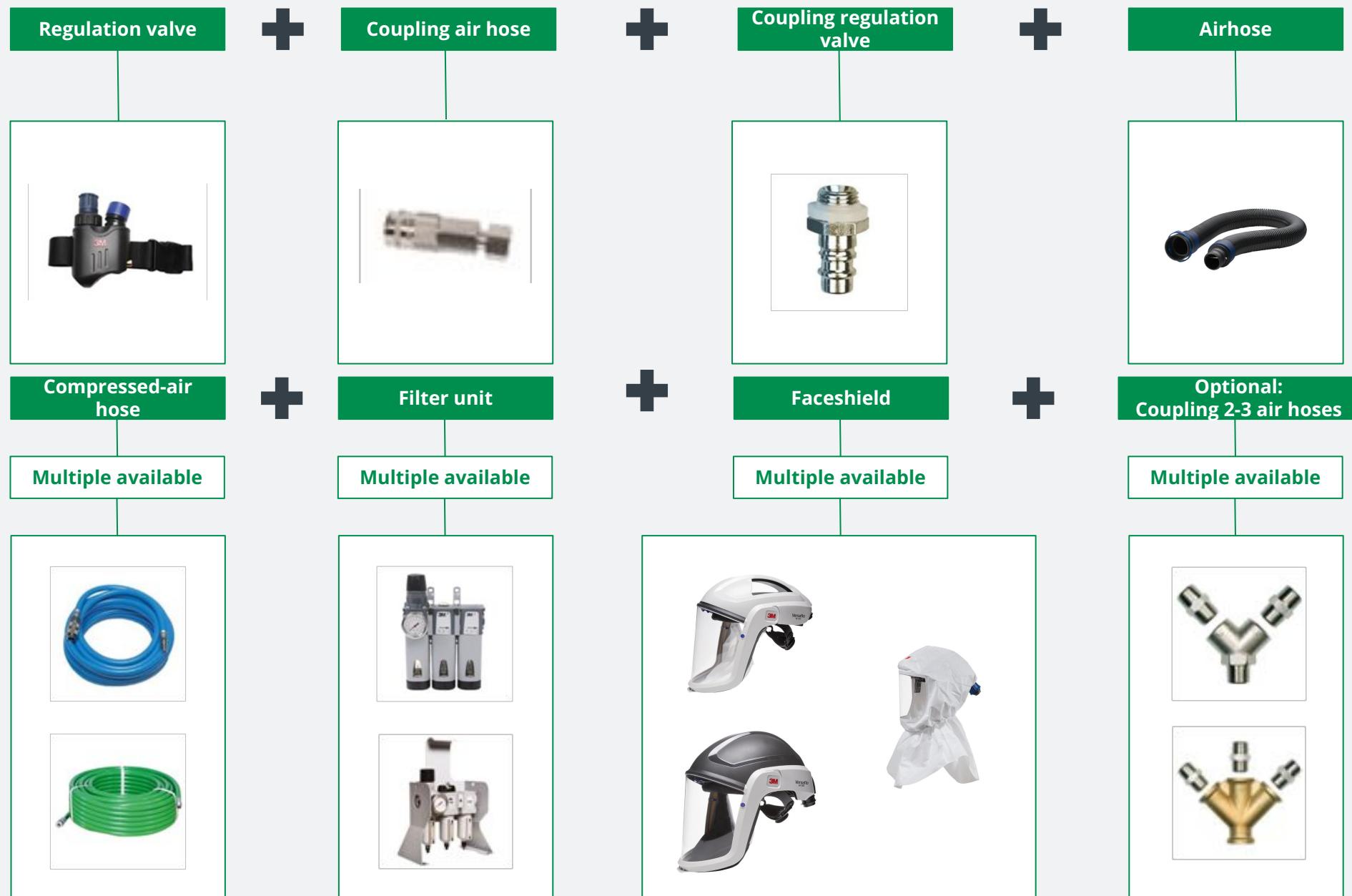
The scheme of Powered Air Units shows how to put together a motor-driven breathing system to be used as an air purifier.
Depending on the type of filter chosen, the system provides protection against dust particles, gases, vapours or a combination of these.

Schema Face masks

The scheme of Face Masks shows the different 3M face masks that MS Schippers has in its assortment. This includes half-face masks as well as full-face masks.
Depending on the type of filter chosen, the system provides protection against dust particles, gases, vapours or a combination of these.

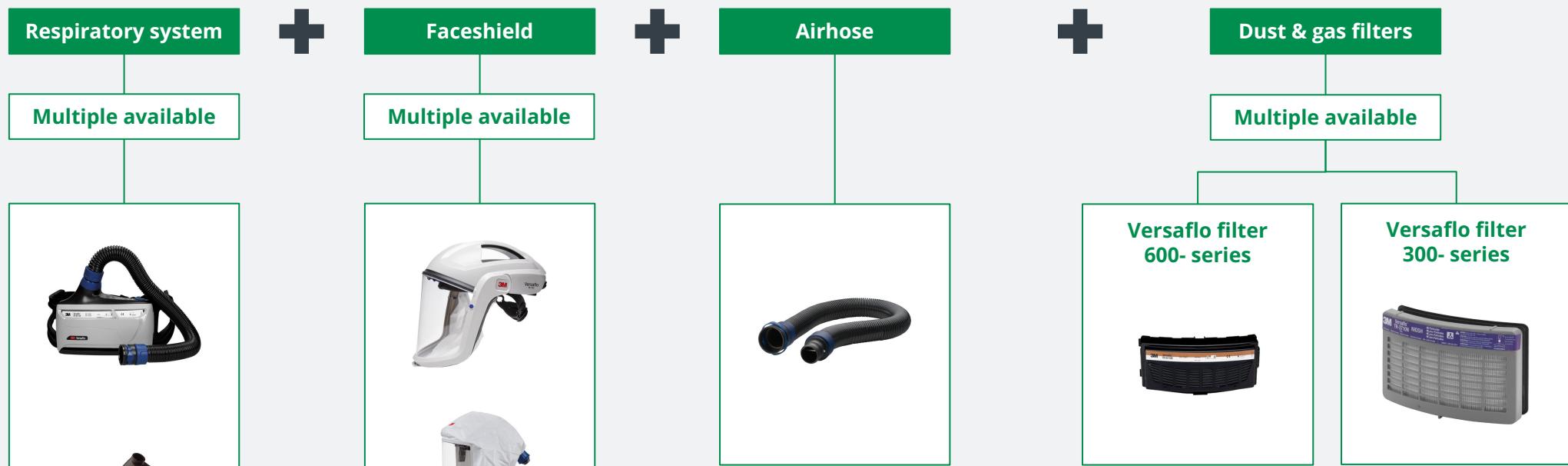
Schema Powered filter units

Overview 3M (Powered) air units



Schema Powered air units

Overview 3M (Powered) air units



| Dust filter classification | |
|----------------------------|--|
| P1 | Inert dust, smoke and mist that do not change the structure of the respiratory system. Limit value: up to $4 \times \text{MAC}$? 10 mg/m^3 |
| P2 | Harmful substance, smoke and mist that can damage the respiratory system. Limit value: up to $10 \times \text{MAC}$ between 10 mg/m^3 and 0.1 mg/m^3 |
| P3 | Higher concentration of harmful substances, smoke and mist that can damage the respiratory system. Plus: against ceramic fibres, chromates, bacteria, viruses, micro-organisms, radioactive or biochemical substances Limit: up to $50 \times \text{MAC}$ between 10 mg/m^3 and 0.1 mg/m^3 |
| P3 + full face mask | High toxic substance, smoke and mist that can be absorbed in the blood: particles of carcinogens, particles of radioactive substances, bacteria, viruses, enzymes and spores. Limit value: $= 0.1 \text{ mg/m}^3$ |

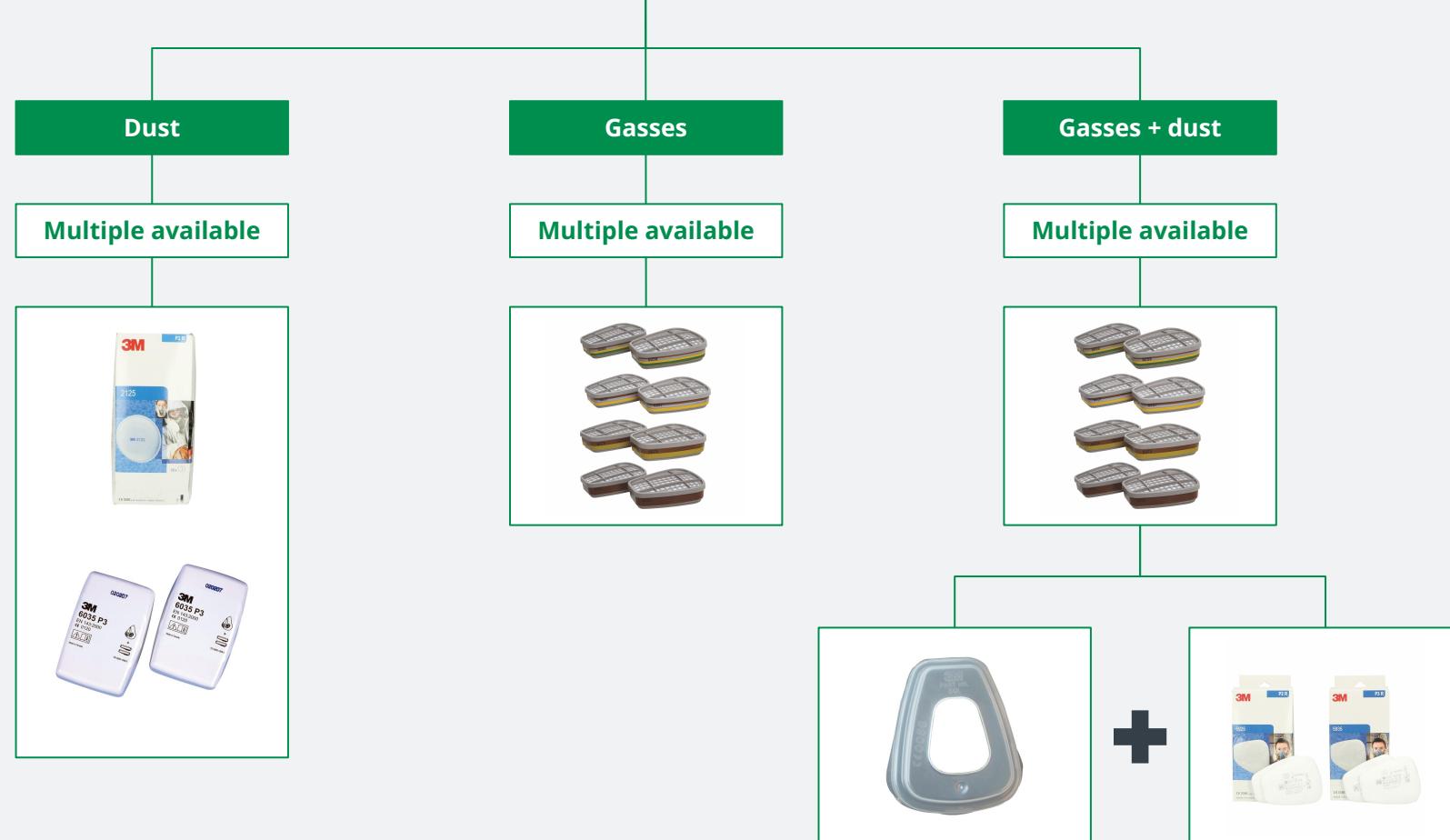
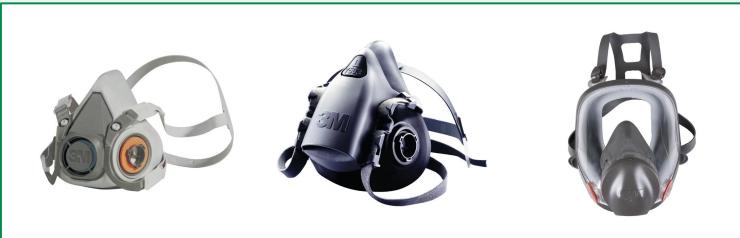
| Gas filter classification | |
|---------------------------|---|
| A (brown) | Organic gases and vapours, solvents with boiling point higher than 65°C |
| B (grey) | Inorganic gases and vapours |
| E (yellow) | Sulphur dioxide and hydrogen chloride |
| K (green) | Ammonia and organic ammonia derivatives |

| Gas filter classes | |
|--------------------|----------------------|
| Class 1 | 0.1 vol % (1000 ppm) |
| Class 2 | 0.5 vol % (5000 ppm) |

Schema Face masks

Overview 3M (Powered) air units

Half / Full face mask



Schema Protection level

Overview 3M (Powered) air units

| Dust filter classification | |
|----------------------------|--|
| P1 | Inert dust, smoke and mist that do not change the structure of the respiratory system. Limit value: up to 4 x MAC ? 10 mg/m ³ |
| P2 | Harmful substance, smoke and mist that can damage the respiratory system. Limit value: up to 10 x MAC between 10 mg/m ³ and 0.1 mg/m ³ |
| P3 | Higher concentration of harmful substances, smoke and mist that can damage the respiratory system. Plus: against ceramic fibres, chromates, bacteria, viruses, micro-organisms, radioactive or biochemical substances Limit: up to 50 x MAC between 10 mg/m ³ and 0.1 mg/m ³ |
| P3 + full face mask | High toxic substance, smoke and mist that can be absorbed in the blood: particles of carcinogens, particles of radioactive substances, bacteria, viruses, enzymes and spores. Limit value: = 0.1 mg/m ³ |

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België <https://www.schippers.be/nl/overig-assortiment/kleding-bescherming/adem-gelaatsbescherming-8720/#/>

Danmark <https://www.schippers.dk/vrigt-sortiment/bekldning-og-beskyttelse/andedrts-og-ansigtsbeskyttelse-8720/#/>

Deutschland <https://www.schippers-ms.de/sonstiges-sortiment/kleidung-schutz/atem-und-gesichtsschutz-8720/#/>

España <https://www.schippersweb.com/otros-articulos/prendas-proteccion/proteccion-respiratoria-facial-8720/#/>

France <https://www.schippers.fr/autres/vetement-protection/protection-faciale-respiratoire-8720/#/>

Italia <https://www.schippersitalia.it/altro-assortimento/indumenti-protezione/protezione-facciale-respiratoria-8720/#/>

Nederland <https://www.schippers.nl/overig-assortiment/kleding-bescherming/adem-gelaatsbescherming-8720/#/>

United Kingdom <https://www.msschippers.co.uk/other-assortment/clothing-protection/respiratory-face-protection-8720/#/>

International <https://www.msschippers.com/other-assortment/clothing-protection/respiratory-face-protection-8720/#/>