



Key Features

- Easily integrated into 25mm pipe network ✔

- Replaceable filter element ✔

- Reduces maintenance intervals and total cost of ownership ✔

- Does not require additional pipe fittings ✔

- Improved detector longevity in applications with high levels of airborne contamination ✔

Overview

The harsh environment filter is used as a pre-filter where 25mm aspirating systems are installed to monitor excessively dusty or damp environments.

Aspirating systems are ideally suited to harsh environments where conventional smoke detectors would fail to operate when subjected to water spray or excessive dust. The tubing network can be kept clean with periodic manual or automatic compressed air purges and the air sampling detector can be protected with the harsh environment filter. The filter element has a large surface area to minimise the service replacement intervals. The particle sizes trapped by the element are 30µm and above as standard with other pore sizes available.

The filter housing is made from impact resistant polypropylene and is supplied to fit 25mm pipework. To ensure a stable and secure installation, the unit is supplied with a dedicated mounting bracket. This bracket provides a rigid anchor for the filter housing, preventing mechanical stress on the pipework joints and allowing for easy mounting on walls or structural frames in high-vibration industrial settings.

The harsh environment filter has been successfully operated for many years in switch gear rooms on open-cast mines in the southern hemisphere where dust storms are daily events. Fire protection in this type of harsh environment could only be achieved by the combination of air-sampling and the harsh environment filter.

Tech Specs

Housing

Head: Filled Polypropylene
 Bowl: Transparent SAN
 O-ring Material: Nitrile
 Working Temperature: 50°C (122°F)
 Weight (with element): 1.1kg

Filter Element

Micron Rating: 30µm
Material: Pleated Polyester
Working Temperature: 50°C (122°F)
Pipe Connections: 25mm
Fitting Material: PVC

Ordering Information

Part Number	Description
22-365	25mm Harsh Environment In-line Filter
22-355	Harsh Environment In-line Filter Bracket
22-344	25mm Harsh Environment In-line Filter Housing
22-345	Harsh Environment In-line Filter Element