

www.airflorental.co.uk



nationwide rental service of portable exhaust filtration.

buildings or in enclosed or confined spaces, fitting a portable EHC exhaust filter complies with the requirements of HSE and gives complete peace of mind to the operators.

CONTENTS

- 5-6 HT-series filters
- 7 L20 filters
- 8 P15 filters
- 9 Spares and adaptors
- 10 Hoses and fittings
- 11 Exhaust volume calculator

EHC Teknik filters are approved and certified by



Dedicated to the promotion of best available technology for emission control EHC exhaust filters are the result of thirty years of research and rigorous testing. They are proven to remove 99% of all 0.4μ particulate matter including mutagenic, cancerous and allergy producing substances that are absorbed in their surface.

As soon as the engine starts, the filters are working 100% effectively. However, albeit un-quantified, it has been shown that their effectiveness improves with use beyond their design, as the gases are flowing through an increasing build-up of carbon on the inside of the filter which acts as a catalyst to convert the gases.

Exhaust gases damage your health

Diesel driven vehicles or machinery operating indoors, even for very short periods of time, present a health hazard until the exhaust emissions are effectively controlled.

Among the especially exposed occupational groups are machine operators and personnel in workshops, garages, warehouses etc. While the health risks are naturally more evident for those who drive or work close to the vehicles, persons in adjoining areas are also at risk of exposure.

The very small particles are the big problem

Exhaust emissions are a mixture of gases and carbon particles coated with various organic and non-organic substances. They contain more than 40 substances that are listed as hazardous air pollutants and, of these, 15 can cause cancer.

With the improving technology of modern engines, exhaust emissions are getting harder to see because the particles are becoming increasingly smaller. Particles down to 20 microns (20,000 nm) are visible to the naked eye but 90 percent of exhaust gas particles measure less than 1 micron (1,000 nm).

These smaller, lighter particles remain airborne for longer, which means that they spread further and that they are more easily absorbed and penetrate further into the lungs . The short-term effects of exhaust emission exposure are coughing, difficulties in breathing or asthma attacks. In the long-term, problems arise with chronic bronchitis, reduced lung capacity, and in the worst event, lung cancer.

The traditional solution has used fan assisted ventilation, to provide general extraction to the area or to extract the fumes at source and vent to the outside. In many cases, this is neither economical nor feasible. The Airflo solution employs portable exhaust filters, easily mounted either directly on the exhaust pipe or on the vehicle with a short hose connected to the exhaust pipe.

Airflo uses EHC filters that stop over 99% of hazardous particle emissions.





Plant and machinery

EHC HT-series exhaust filters are designed for both temporary and permanent use on plant and machinery. They are a very durable design in either stainless steel or alu-zinc coated mild steel.

- 100% effective from cold
- Not affected by humidity
- Disposable filter elements
- Protective heat shield
- Filter-blind signal

We offer a nationwide rental service on this range of filters.

They are ideally suited for use in construction and engineering environments on such as cranes, forklift trucks, tele-handlers, access platforms, excavators, dumpers, skid-steer loaders etc.



HT10

TECHNICAL DATA

Filtration: 99% ≥ 0.4µ Max temperature: 250°C HT20 34Kg

ENGINE SIZE

STANDARDS

standards: TUV S 129.99.00; TRGS 554 (D); COSHH (GB) and VERT Filter List (CH) B135.

ENVIRONMENTAL

EHC filter elements are treated as normal waste for disposal.

FILTER LIFE

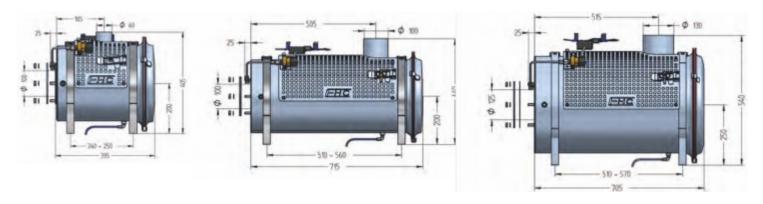
type, condition and how it is used (see page 11).







HT10 HT20 HT35



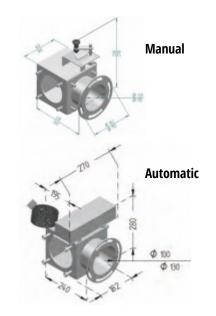
3-way valve

MAXIMISE FILTER LIFE WITH A 3-WAY VALVE

When machines are operating both indoors and outdoors, and site regulations are not specifying outdoor filtration, installing a 3-way valve in front of the filter is a convenient way of fully complying with regulations and maximising filter life.

The 3-way valve allows the exhaust gases to bypass the filter and is operated either mechanically by a lever on the valve, or electrically from the comfort of the cab.

For fully automatic operation, an optional sensor kit is available to operate the valve as the machine enters and leaves the building.







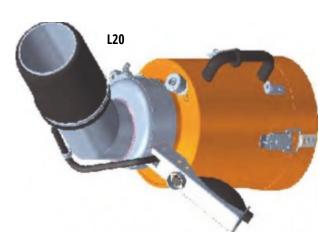


Trucks and buses

EHC L20 exhaust filters are designed for intermittent, short-run use on heavy vehicles up to 10 litres engine capacity. They are ideal for use in workshops, factories, ships, exhibition halls etc, on vehicles such as trucks, buses and tractors.

- 100% effective from cold
- Not affected by humidity
- Disposable filter elements
- Protective heat casing
- Filter-blind signal

We offer a nationwide rental service on this range of filters.



TECHNICAL DATA

Filtration: 99% ≥ 0.4µ Max temperature: 300°C Weight: Single 7Kg Twin 11Kg

ENGINE SIZE

Max capacity 10 litres Max RPM: 1200

STANDARDS

EHC filters meet the following emissions standards: TRGS 554 (D), COSHH (GB), VERT B272 and TüV Nord nr. 0931TP00149.

ENVIRONMENTAL

EHC filter elements are treated as normal waste for disposal.

FILTER LIFE

Filter life is expected to be around 100 engine starts but is dependent on the engine size, type, condition and how it is used.





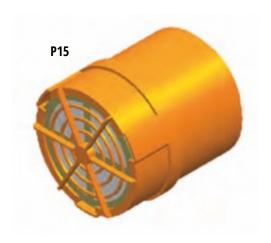


Cars and light vehicles

EHC P15 exhaust filters are designed for intermittent, shortrun use on cars and light vehicles up to 4 litres engine capacity. They are ideal for use in workshops, factories, ships, exhibition halls etc, on vehicles such as cars and vans.

- 100% effective from cold
- Not affected by humidity
- Disposable filter elements
- Protective heat casing
- Filter-blind signal

We offer a nationwide rental service on this range of filters.



TECHNICAL DATA

Filtration: 99% ≥ 0.4µ Max temperature: 300°C Weight: Single 0.4Kg

ENGINE SIZE

Max capacity 4 litres Max RPM: 2500

STANDARDS

EHC filters meet the following emissions standards: TRGS 554 (D), COSHH (GB), VERT B272 and TüV Nord nr. 0931TP00149.

ENVIRONMENTAL

EHC filter elements are treated as normal waste for disposal.

FILTER LIFE

Filter life is expected to be around 150 engine starts but is dependent on the engine size, type, condition and how it is used.







Spares and adaptors

HT35 filter element



HT20 filter element



HT10 filter element



L20 filter element



P15 filter element



HT flanged inlet



L20 single unit connector



L20 twin unit connector



L20 straight bellows connector



L20 angled bellows connector



L20 hose connector



P15 stepped connector

Ø 45 - 25 mm Ø 70 - 35 mm

Ø 100 - 50 mm

P15 angled stepped connector

Ø 50 - 30 mm Ø 70 - 30 mm



P15 twin stepped connector

Ø 45 - 25 mm Ø 65 - 35 mm

P15 stepped connector with plug

Ø 35 - 60 mm



Connector with bellows



Twin connector with bellows







Hoses and fittings

HT flexible hose

Ø 80 mm

Ø 100 mm

Flexible metal hose

Ø 38 mm

Ø 51 mm

Ø 76 mm

Ø 102 mm

Ø 128 mm

Ø 153 mm

Flexible metal light duty

Ø 102 mm



W. 0000000000000000

Elbow 90°

Ø 38 mm

Ø 51 mm

Ø 76 mm

Ø 102 mm



Elbow 180°

Ø 102 mm



HT connector sock

Ø 102 mm



Reducer cone

Ø 102 - 80 mm

Ø 127 - 102 mm

Ø 152 - 102 mm

U bolt clamp M8

Ø 45 mm

Ø 57 mm

Ø 83 mm

Ø 114 mm



Ø 25-27 mm

Ø 27-29 mm

Ø 29-31 mm

Ø 31-34 mm

Ø 37-40 mm

Ø 40-43 mm

Ø 51-55 mm

Ø 68-73 mm

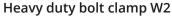
Ø 73-79 mm

Ø 85-91 mm

Ø 91-97 mm

Ø 104-112 mm

Ø 112-121 mm



Ø 23-25 mm

Ø 34-37 mm

Ø 43-47 mm

Ø 47-51 mm

Ø 55-59 mm

Ø 59-63 mm

Ø 63-68 mm

Ø 79-85 mm

Ø 97-104 mm

Ø 121-130 mm

Ø 130-140 mm

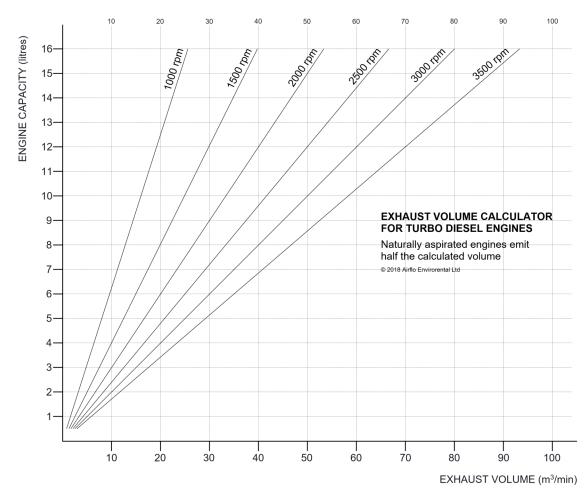
Ø 140-150 mm







Exhaust filter selector









Protecting health and the environment

Supporting the IOSH "No Time To Lose" and the BOHS "Breathe Freely" initiatives



Tresh air. Anywhere.

Airflo Envirorental Ltd Bank Street Doncaster DN1 3RB

www.airflorental.co.uk admin@airflorental.co.uk 01302 730000