62765 - TF1 Total Filter with Protector+ Filter Fluid F9 1" with valves

The award-winning, TF1 Total Filter combines hydrocyclonic action with powerful Neodymium magnetic assemblies, to remove magnetic and non-magnetic contaminants from system water and contain them safely within the filter. Made from precision-engineered composite plastic, this filter fits onto vertical and horizontal pipework. For ease of installation, it can operate up to a 45º angle. It can be cleaned in minutes and does not restrict flow.

Supplied with an enhanced inhibitor product, Protector+ Filter Fluid F9 265ml, which includes a dispersant to maximise the effectiveness of a filter in collecting debris. The complementary role of the chemical and filter provides the ultimate in boiler and system protection.

- Hydrocyclonic and magnetic in-line filter - unique action removes magnetic and non-magnetic debris from the system.
- Includes one bottle of Fernox Protector+ Filter Fluid F9 265ml to aid collection of circulating debris to the filter. Unique drain valve acts as a dosing point
- Cleaned in minutes without removal or disassembly
- Will not block or restrict flow
- All valves and fittings included
- 5 year warranty

Additional Info

The TF1 Total Filter is constructed from a high strength, glass reinforced polymer, which has good hydrolysis resistance as well as high resistance to strain and abrasion. The polymer is compatible with glycols and additives and is suitable for use in central heating systems.

The TF1 Total Filter has been designed to ensure there is minimal pressure loss whilst continuing to maintain a high collection efficiency. The unique hydrocyclonic action, magnet assembly, and area of low flow have all been engineered to allow the filter to capture a range of system contaminates, whilst not impacting the rest of the heating system.

The TF1 Total Filter utilises a range of high-quality component parts that ensure the filter offers optimum performance. All isolation valves are designed to allow users to operate them easily by hand, whilst also providing a secure connection to the system and a robust service point. The magnet is manufactured using a premium grade of neodymium, enabling a high-efficiency capture rate, as well as a robust filtration medium that will ensure a continued and consistent level of collection.

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Application

The TF1 Total Filter can be connected directly on to the pipework using the valve fittings provided. The TF1 Total Filter can be installed in any one of 24 separate orientations enabled by its unique inlet/outlet mechanism. The TF1 Total Filter (UK patent granted No. 2448232) is a revolutionary in-line filter, which combines Hydrocyclonic action with specially designed magnet assemblies, to remove both magnetic and non-magnetic contaminants from system water and contain safely within the filter before removal.

The TF1 Total Filter can be installed on vertical or horizontal pipework, in accordance with the flow direction indicated by the arrow on the manifold. Ideally the filter should be fitted on the return to the boiler and can be installed at up to 45º from the vertical position if space or head height is restricted.

The recommended 'in use' concentration of Protector+ Filter Fluid F9 is 0.385%. A single dose of this product treats and protects a larger sized property with a heating system of 100 litres, up to 12 radiators or 190 sqm of underfloor heating. For open vented systems add via the feed and expansion tank. For sealed systems add via a suitable dosing point (e.g. a towel rail, or an in-line system filter). Alternatively, use a suitable dosing vessel to inject the product into the system. In single feed indirect cylinders, e.g. 'Primatic' or similar, potable water chemicals must be used. We recommend that untreated, or sludged systems are thoroughly cleaned and flushed in accordance with BS 7593:2019 and Benchmark using Fernox Cleaner F3/F8, before treating with Fernox Protector+ Filter Fluid F9, as existing debris can damage the installation. Fernox Protector+ Filter Fluid F9 must be used with the Fernox TF1 Filter range, or other in-line system filters. Use in microbore systems is not recommended.

Fernox Protector+ Filter Fluid F9 is an enhanced corrosion inhibitor, combining corrosion inhibition with dispersant properties. It is specifically formulated to prevent setting and aggregation of corrosion deposits and contaminants within central heating systems, to deliver the debris directly to an in-line filter (such as one from the Fernox TF1 Filter range) for fast removal and containment. This function allows systems to run more efficiently by minimising the settling of debris in low flow areas such as radiators, which causes cold spots and facilitates further corrosion underneath the debris.
Protector+ Filter Fluid F9 gives long-term protection of domestic central heating systems against internal corrosion and limescale formation. It is suitable for all types of boiler, radiators and pipe work systems. Protector+ Filter Fluid F9 is compatible with all metals and materials commonly used in central heating systems. It is suitable for use with all types of water, including softened water and deionised water. Protector+ Filter Fluid F9 has been formulated to have best-in-class pH buffering ability, which keeps system water pH between 6.5-8.5, giving optimum protection for mixed-metal systems. To comply with BS 7593:2019, Protector+ Filter Fluid F9 levels should be checked annually. The concentration of the product can be easily measured on site using a Fernox Protector Test Kit, or by using the Fernox Water Quality Test postal service. BS 7593:2019 also states that after 5 years, systems should either be re-dosed, or a laboratory test performed, such as the Fernox Water Quality Test.

Packaging, Handling & Safety

As with all magnetic products, if you have an implanted cardiac device extra caution should always be taken when handling any magnetic filter.

Fernox Protector+ Filter Fluid F9 is supplied in 265 ml bottles.
Fernox Protector+ Filter Fluid F9 is classified as non-hazardous for human health, but as with all chemicals, keep out of reach of children. In case of contact with eyes or skin, rinse immediately with plenty of water.

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Specification

Filter Body – Glass filled, engineering polymer
Manifold – Glass filled, engineering polymer
Drain Valve – Nickel plated brass
Isolation Valves – Nickel plated brass
Circlip – Stainless Steel
Seals & Washers – EPDM
Fernox Protector+ Filter Fluid F9 is a blend of corrosion and scale inhibitors and dispersants.
Form: Liquid
Odour: Aromatic
Colour: Light Yellow
pH (conc): 8.3
pH (in use): 7.8-8.5
SG: 1.135 at 20°C

Performance

Suitable Fluids:
Water
Inhibited Glycol Solutions
Fernox Chemical Range / System Additives
Maximum Percentage of Glycol - 50%

Maximum working pressure - 3 bar
Maximum flow - 50 l/min
Maximum Working Temperature - 100ºC
Capture Rate - Up to 100% of system contaminates

Operating Principle - Contaminated water enters the filter via the manifold, carrying a variety of system debris and particulate matter held in suspension. This debris, including ferrous impurities such as Magnetite, move through the manifold and into the main body of the filter.
The TF1 Total Filter utilises Hydrocyclonic filtration. A Hydrocyclone is a static device that applies centrifugal force to a liquid mixture to promote the separation of particles.
The Hydrocyclonic action has been designed to convert incoming liquid velocity into rotary motion. As water enters the filter, it spins around and down the outside of the filter, carrying particles with it. The shape of the filter has been designed to create a dead zone at the bottom where heavier particles are deposited.
The Hydrocyclone in the TF1 Total Filter has been optimised in order to allow for the maximum filtration ability of both magnetic and non-magnetic material.
Once the flow of water has reached the bottom of the filter, water moves back up through the centre of the TF1 Total Filter, carrying particles over the magnet sheath, promoting further magnetic filtration and enhancing the collection capabilities of the filter.
Any dirt collected within the filter can then be discharged by removing the magnet from the sheath and opening the drain valve. This procedure is described in the cleaning guide and does not require disassembling the filter

Volumetrics & Barcodes

Barcode EAN	5014551627659	OCU Barcode	05014551004306

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Single Unit Weight (kg)	2.35	Outer Carton Weight (kg)	9.7
Single Unit Height (mm)	107	Outer Carton Height (mm)	228
Single Unit Width (mm)	325	Outer Carton Width (mm)	362
Single Unit Depth (mm)	170	Outer Carton Depth (mm)	348

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