62376 - TF1 Omega+ Filter 1 ½” BSP

The TF1 Omega+ Filter is a high-performance central heating system filter designed for larger, light commercial heating and cooling systems. It utilises unique Hydronic Particle Separation (HPS) technology and magnetic filtration to remove magnetic and non-magnetic system debris reducing the risk of boiler breakdown and improving the efficiency and longevity of the heating system. Pressure tested, this sealed filter is manufactured with reliability and performance in mind as it is offers high-efficiency capture capability across a range of flow rates and system sizes.

- Pressure tested, sealed unit designed for light-commercial heating systems.
- High-efficiency capture across a range of flow rates and system sizes. Available in 1 ¼” and 1 ½” female pipework connections.
- Easy to install – fits on horizontal and vertical pipework orientation. The filter can operate at an angle of 45°
- Unique action, specifically designed for larger system sizes, enabling the capture of a range of magnetic and non-magnetic types of debris.
- Will not block or restrict flow.
- 10 year warranty

Additional Info

The TF1 Omega+ Filter is manufactured from a high strength engineering grade brass, suitable for heating and cooling system applications. The brass components are nickel plated to increase durability and resistance, meaning the filter is compatible with a range of glycols and additives used in central heating systems.

The TF1 Omega+ Filter has been designed to ensure there is a minimal pressure loss, whilst also maintaining a high collection efficiency. The internal Hydronic Particle Separator (HPS), magnet assembly and area of low flow have all been engineered to allow the filter to capture a range of system contaminates, whilst ensuring this does not impact the rest of the heating system.

The TF1 Omega+ Filter utilises a range of high-quality component parts that ensure the filter offers the best possible performance. The magnet is manufactured using a premium grade neodymium, enabling a high efficiency capture rate, combined with the stainless-steel HPS, which enables the continued and consistent filtration of a range of system contaminates.

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Application

Designed to be installed on light-commercial systems. The TF1 Omega+ Filter can be easily fitted onto either horizontal, or vertical pipework, in both flow directions in accordance with the flow direction indicated by the arrow on the manifold. The TF1 Omega+ Filter is designed to protect the boiler from the damaging effects of circulating corrosion debris, which has collected in the system as a result of a chemical reaction when water comes into contact with mixed metals used within a heating and cooling system. Installation Instructions are provided. Ideally the TF1 Omega+ 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.

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.
Individually packaged, with instructions included. No special storage requirements.

Specification

Filter Body – Forged brass (EN 12165-CW617N-DW), Nickel plated
Manifold – Forged brass (EN 12165-CW617N-DW), Nickel plated
Magnet – Neodymium
Hydronic Particle Separator – Stainless Steel
Circlip – Stainless Steel
Drain Valve – Nickel plated brass
Seals & Washers – EPDM

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Performance

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

Maximum Operating Pressure: 10 bar
Maximum Flow Rate: 100 L/min / 26.41 GPM
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, moves through the manifold and into the main body of the filter.
Water is forced down towards the bottom of the filter due to the engineered flow characteristics created within the filter by the Hydronic Particle Separator (HPS). The HPS action helps to disrupt any dirt particles held in suspension by the water, as well as direct these particles towards an engineered area of low flow at the base of the filter.
The dynamic flow of the water within the filter also allows ferrous impurities to be captured by the high-powered magnet assembly.
To exit the filter, water must pass over the magnet sheath and around the HPS, then out of the manifold. In this way, system debris has difficulty escaping the unit, and is either trapped in the area of low flow, or captured by the powerful magnet, meaning clean water exits 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	5014551623767	OCU Barcode	
Single Unit Weight (kg)	4.57	Outer Carton Weight (kg)	4.57
Single Unit Height (mm)	110	Outer Carton Height (mm)	110
Single Unit Width (mm)	270	Outer Carton Width (mm)	270
Single Unit Depth (mm)	200	Outer Carton Depth (mm)	200

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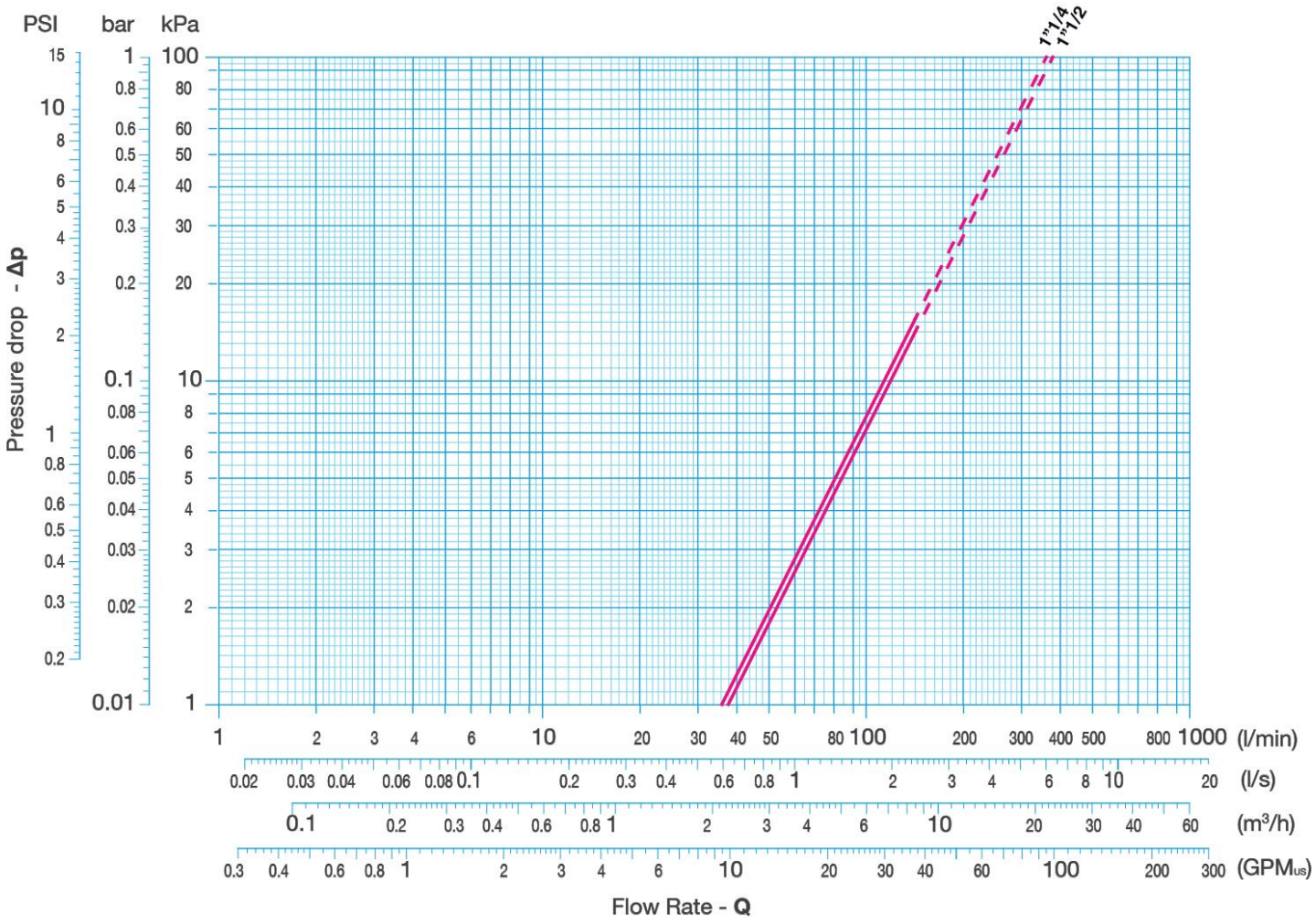
Graph



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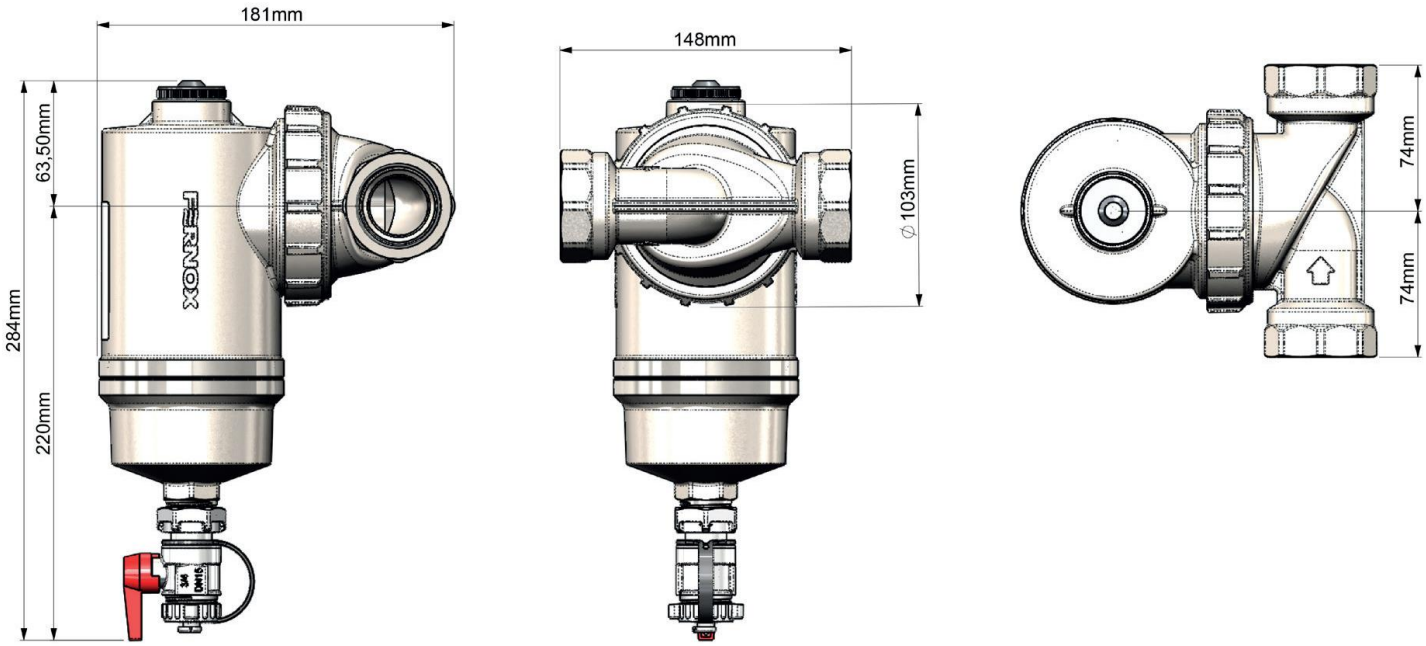
Dimensions Diagram



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