62614 - TF1 Sigma HP Filter 22mm

Specifically designed to protect Air and Ground Source Heat Pumps, the TF1 Sigma HP Filter efficiently removes all types of debris from renewable heating systems using patent pending technology. The innovative TF1 Sigma HP Filter does not restrict flow, even at high flow rates, and will not block, ensuring the COP (co-efficient of performance) of the system is maintained thereby reducing energy consumption and fuel wastage. Simple and fast to install, the TF1 Sigma HP Filter is supplied with full bore valves as standard, which results in improved system performance, and greater energy efficiency.

- Efficient, high-performance filter, specifically designed for Air and Ground Source Heat Pump systems.
- The TF1 Sigma HP Filter utilises a unique filtration technology which is extremely effective at high flow rates and across a range of debris types to ensure the system remains free of contaminants.
- A durable and robust construction, the TF1 Sigma HP Filter is made from a high-quality glass reinforced engineering polymer with brass full bore valves as standard.
- Convenient to clean and quick to service via the drain valve, the TF1 Sigma HP Filter does not require system shutdown or for the filter to be disassembled, resulting in less time spent on site as part of the annual maintenance.
- Easy to install, this sealed filter allows for horizontal and vertical installation orientations.
- Market- leading pressure differential values, ensuring the Heat Pump works at maximum COP.

Additional Info

The TF1 Sigma HP Filter is constructed from a high strength engineering polymer, suitable for Air and Ground Source Heat Pump applications. The glass reinforced polymer has excellent hydrolysis resistance, as well as high resistance to strain and abrasion. The polymer is compatible with glycols and additives used in heating systems.

The TF1 Sigma HP Filter has been designed to ensure there is minimal pressure loss while maintaining a high collection efficiency. The TF1 Sigma HP Filter utilises a unique filtration technology, combined with an engineered area of low flow, to allow the filter to capture a range of system contaminants.

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Application

The TF1 Sigma HP Filter has been specifically designed for use with Air and Ground Source Heat Pump heating systems. The filter can be easily fitted onto either horizontal or vertical pipework, in accordance with the flow direction indicated by the arrow on the manifold. Ideally the TF1 Sigma HP Filter should be fitted on the return to the Heat Pump and can be installed at up to 45º from the vertical position if space or head height is restricted.

The TF1 Sigma HP Filter is designed to protect the Heat Pump from the harmful effects of circulating debris, which can damage or block components within the system. Treating the system with a quality inhibitor product from the Fernox Protector range will prevent the formation of corrosion and scale long term in accordance with regulations and best practice, and will reduce the risk of premature failure or shortened system longevity.

Specification

Filter Body – Glass filled, engineering polymer
Manifold – Glass filled, engineering polymer
Drain Valve – Nickel plated brass
Circlip – Stainless Steel
Seals & Washers – EPDM

Performance

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

Maximum Working Pressure – 5 bar (72psi)
Maximum flow rate - 80 L/min
Maximum Working Temperature - 100ºC
Capture Rate - Up to 100% of system contaminates

Contaminated system water enters the TF1 Sigma HP via the manifold, then moves into the main body of the filter, carrying debris and particulate held in suspension by the water. As dirty water enters the filter body, it flows towards the unique filtration technology ‘Flow Disruptor’, which removes any particles held in suspension by the water.

The design of the filter manifold, combined with the unique filtration technology 'Flow Disruptor’, create a highly effective engineered area of low flow within the filter body, causing particles to settle towards the base of the filter, even at high flow rates.
The porous design of the ‘Flow Disruptor’ permits dynamic flow within the filter and encourages particles to settle and become trapped. The position of the ‘Flow Disruptor’ and engineered flow paths prevents dirt escaping back into the system.
All dirt captured can be easily and quickly discharged via the drain valve. This procedure is shown in the cleaning guide and does not require system shutdown or for the filter to be disassembled.

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Volumetrics & Barcodes

Barcode EAN	5014551626140	OCU Barcode	05014551002647
Single Unit Weight (kg)	1.57	Outer Carton Weight (kg)	6.56
Single Unit Height (mm)	112	Outer Carton Height (mm)	241
Single Unit Width (mm)	346	Outer Carton Width (mm)	178
Single Unit Depth (mm)	179	Outer Carton Depth (mm)	352

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