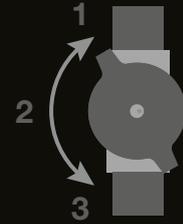


DIRT FILTER THAT EFFECTIVELY PROTECTS HEAT PUMPS



SPIROTRAP[®] HPF
HEAT PUMP FILTER



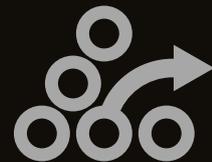
INTUITIVE
MULTIMODE SWIVEL



MAINTENANCE INTERVAL
ALIGNED WITH HEAT PUMP



BYPASS-FREE
DESIGN



HIGHLY EFFICIENT
DIRT FILTRATION



MAXIMUM PROTECTION FOR HEAT PUMPS



To continue functioning properly for a long time, the system as a whole must be balanced. An important point of attention is the quality of the system water. In almost every heating or cooling system, contamination occurs over time, such as rust, dirt, sand, and magnetite particles caused by corrosion. Where this can already lead to malfunctions or performance loss in traditional heating systems, heat pumps are even more vulnerable.

Due to finer components, lower flow rates, and precise control, they respond faster to disturbances. Dirt in the water can therefore cause problems more quickly regarding the functioning of the installation. This can be:

- The system shutting down
- Malfunction of the heat pump
- Damage, jamming, or breaking of sensitive components, such as the heat exchanger, valves, pump, etc

A FILTER TAILORED TO THE PRACTICE OF HEAT PUMP SYSTEMS

The SpiroTrap HPF heat pump filter has been specially developed for heat pumps, not an adapted version of an existing product but a completely new design. It was created based on practical experience and years of expertise in system contamination. This knowledge comes in part from Spirotech's own innovation center, where continuous research is carried out to improve water quality in heating systems.

To ensure the design fits real-world installation conditions, research was conducted on residential heat pump systems across several European countries. This looked at:

- The types and quantities of dirt particles typically found in practice
- The components most sensitive to dirt accumulation

Based on these findings, Spirotech developed a robust, low-maintenance heat pump filter, specifically designed to target the types of contamination that pose the greatest risk in residential heat pump systems. The SpiroTrap HPF prevents dirt buildup and protects the system against both magnetic and non-magnetic particles.

The result: reliably operating installations, clean system water, and a longer lifespan of heat pump components, without unnecessary complexity or extra maintenance. In other words: no hassle for the installer.

FILTER, MAGNET, AND SPIROTUBE: TRINITY FOR DIRT CAPTURE



To protect heat pumps against contamination, the SpiroTrap HPF is designed around three complementary components.

The filter forms the heart of the design, chosen based on extensive research into particle size and risks in heating systems. Particles larger than 160 μm most often cause blockages and wear and are directly blocked by the filter.

Water flows into the separator and comes into contact with the SpiroTube, which ensures a calm, laminar flow. This allows dirt particles to settle. Magnetic particles, such as magnetite, are captured by the powerful magnet. The remaining water then flows through a fine mesh filter. This filter is optimized for capturing smaller magnetic and non-magnetic dirt particles that have not been removed by settling or magnetic capture.

The interplay of magnet, filter, and SpiroTube makes this separator the solution to prevent contamination problems in heat pump systems. Moreover, the design of the SpiroTrap HPF is completely bypass-free: all system water flows through the separator and filter, so dirt particles cannot bypass the filter.

The result of this construction: effective dirt removal without clogging, minimal pressure drop, and reliable protection of the entire system.

INTUITIVE OPERATION WITH MULTIMODE SWIVEL

The SpiroTrap HPF is equipped with a **MultiMode Swivel**, a smart rotary knob that allows you to easily set the heat pump filter in the desired position. This knob controls the flow through the unit and has three clear positions:



Normal operation

System water continuously flows through the filter, capturing dirt particles to protect the heat pump.



Backflush mode

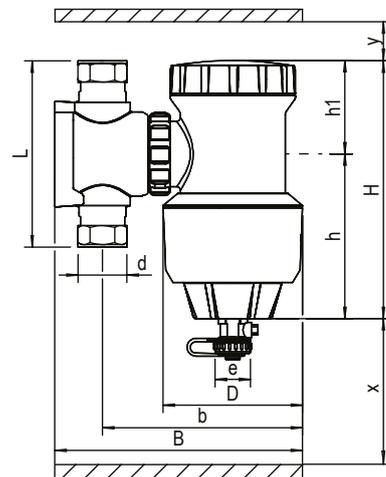
Water flows in reverse through the filter and carries the trapped dirt along, which is then discharged via the drain valve.



Closed mode

Water no longer flows through the filter, so it can be cleaned.

AVAILABLE IN MULTIPLE CONNECTION SIZES



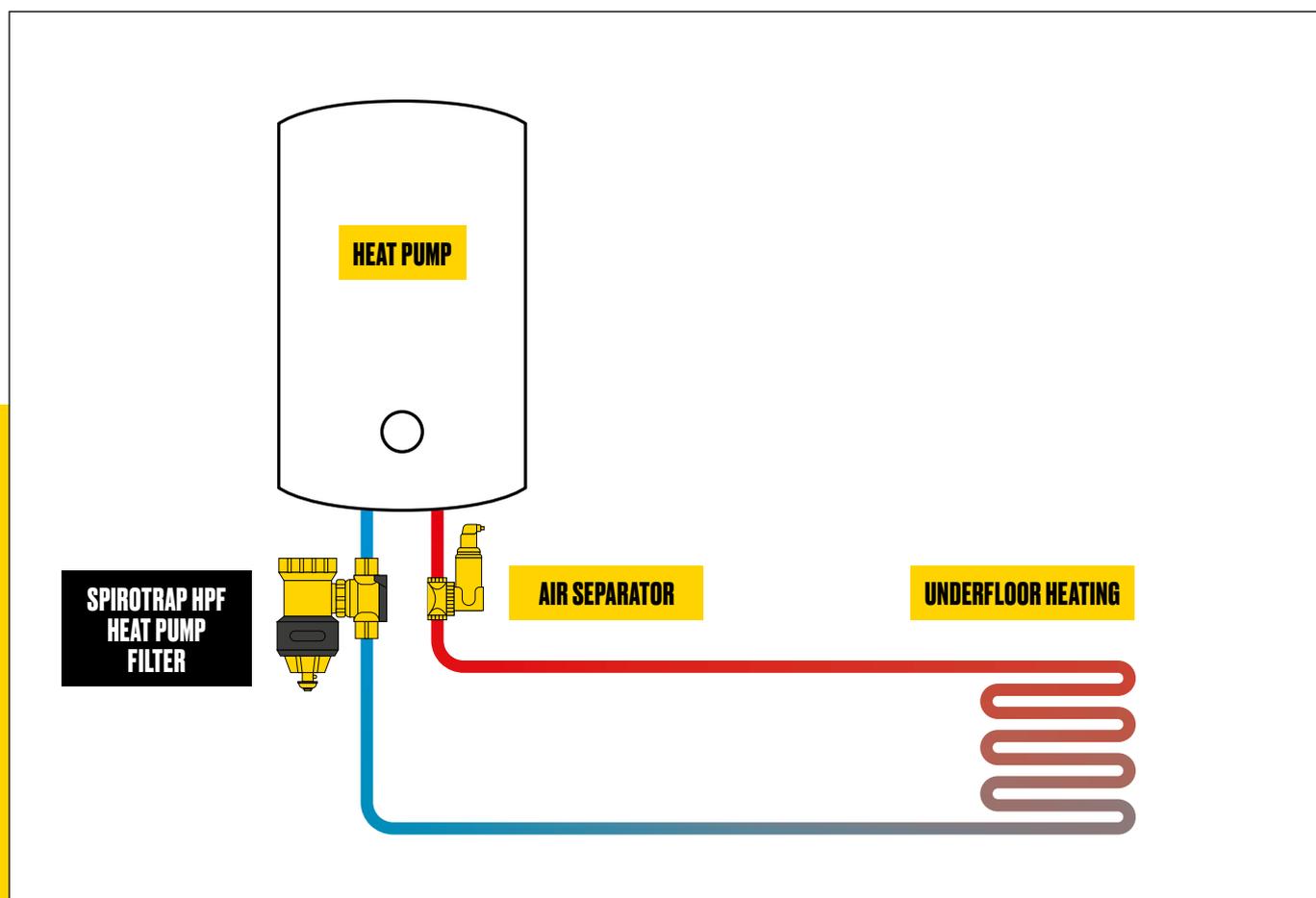
SPIROTRAP[®] HPF

Art. No.	Conn. d	Conn. d [M/F]	H [mm]	h [mm]	h1 [mm]	B	b	L [mm]	x	y	e	e [M/F]	Nom. flow rate [m ³ /h]	Nom. flow rate [l/s]	Δp at Nom. flow [kPa]	Vol. [l]	Wgt. [kg]
UE022XJF	22 mm	M	206	131	75	196	158	148	>200	>200	G¾	F	1.25	0.27	1.29	0.82	4.4
UE028XJF	28 mm	M	206	131	75	196	158	148	>200	>200	G¾	F	2.0	0.55	2.78	0.82	4.4
UE075XJF	Rp¾	F	206	131	75	196	158	128	>200	>200	G¾	F	1.25	0.27	1.29	0.82	4.4
UE100XJF	Rp1	F	206	131	75	196	158	128	>200	>200	G¾	F	2.0	0.55	2.78	0.82	4.4
UE125XJF	Rp1¼	F	206	131	75	196	158	128	>200	>200	G¾	F	2.0	0.55	2.78	0.82	4.4

Max. working pressure 6 bar

Max. fluid temperature 75 °C

EASY TO INSTALL



INSULATION OPTIONS

INSULATION

Art. No.	H [mm]	D [mm]	Wgt. [kg]	Material	SpiroTrap HPF
TUF075	287	147	0,2	PPE	22 mm, Rp¾"
TUF125	287	147	0,2	PPE	28 mm, Rp1", Rp1¼"



The SpiroTrap HPF can be fully enclosed with prefab insulation shells made of expanded polypropylene. They enclose the relevant components, including the pipe connection, and ensure optimal insulation.



WHY CHOOSE THE **SPIROTRAP HPF** HEAT PUMP FILTER?

The SpiroTrap HPF has been developed with and for practical use. The features below make the filter a smart and reliable choice for any heat pump system:

- **Specially developed for heat pumps:** optimally tailored to protect sensitive components
- **Combination of three components:** 160 µm filter, SpiroTube, and powerful magnet
- **Targeted dirt removal:** captures both magnetic and non-magnetic dirt that can cause damage
- **Bypass-free design:** all system water flows through the filter, dirt cannot bypass it
- **Maintenance via backflush mode:** quick, clean, and without disassembly or tools
- **Fits within the standard maintenance interval of the heat pump:** on average once every two years
- **Intuitive MultiMode Swivel:** with clear positions for operation, shut-off, and flushing
- **Easy to install:** available in various connection sizes
- **Robust brass housing:** resistant to pressure and temperature fluctuations
- **10-year warranty:** long-term assurance for installer and end user



SPIROTRAP HPF: A PRACTICAL INVESTMENT IN SUSTAINABLE SYSTEM PERFORMANCE

The SpiroTrap HPF protects where heat pumps are most vulnerable. With its thoughtful design, smart features, and easy maintenance, this filter is more than just a safety measure — it's a practical investment in sustainable system performance and long-term reliability.

For installers, that means hassle-free installation, fewer malfunctions, and more satisfied customers.

MAXIMISING PERFORMANCE FOR YOU

Spirotech is a leading expert in improving the efficiency of heating and cooling systems. Our family business has over 60 years of experience in developing solutions for removing and preventing the accumulation of air and sludge deposits in energy systems. Our products save energy, increase comfort, avoid wear and tear and maximise operating periods. Reliable and customer-oriented products that help you get top performance and protect investment in capital assets. We develop high-value solutions with our partners and suppliers that improve the operation of residential and commercial properties. Our comprehensive network of selected importers in over 70 countries means there is always a Spirotech expert near to you.

Heating and cooling systems are highly complex, particularly when they are run in conjunction with other systems and installations. So locating and analysing faults when they occur is never easy, especially with the clock ticking in the event of a system failure. Spirotech is here to support you with practical advice and solutions, helping you to pinpoint causes and rectify them. Please feel free to contact us.

**IF YOU WOULD LIKE TO KNOW
MORE ABOUT OUR SOLUTIONS,
PLEASE VISIT OUR WEBSITE
WWW.SPIROTECH.COM OR
WWW.SPIROTECH.CO.UK**

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