

# Protective filter for heating water



## Applications

Heating water  
Heating water filtration  
Process water  
Industrial filtration

Highly recommended by boiler manufacturers:  
Protect your heating system against damage caused by  
sludge deposits. It is certainly worth it.



# MSM protective filter for heating water

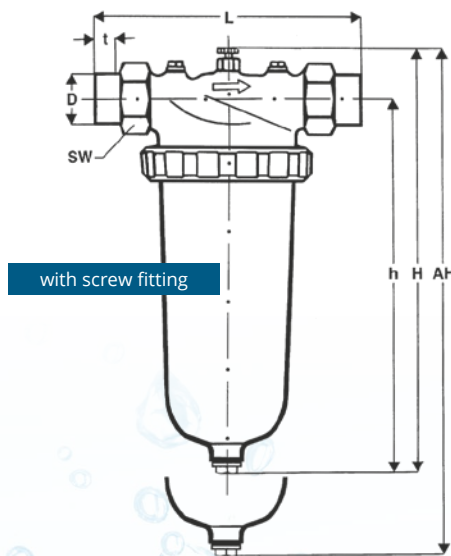
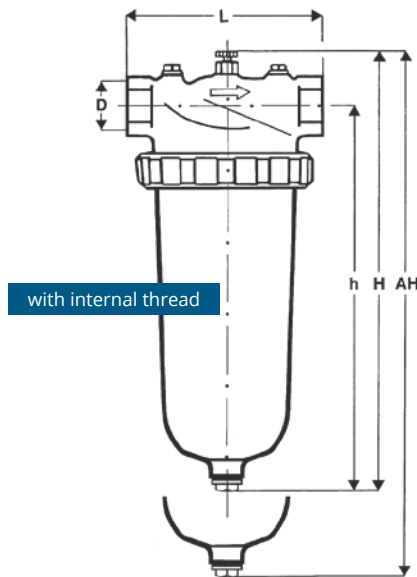
## Our contribution to the fault-free operation of modern heating systems.

Functional faults are often caused by rust sludge in the heating system. The heat flowmeters, thermostat valves, circulation pumps and boilers are often affected, although it can even block the circulation of entire heating circuits. The dreaded perforation corrosion can occur in boilers that are designed with minimal water-wetted surfaces. If the temperature is just increased by 10°, the corrosion speed of such boilers is doubled.

Deposits on otherwise corrosion-resistant materials can also result in fast destruction (pitting corrosion) if the deposits displace the oxygen resulting in a circulation of air. Sludge deposits in the boiler also reduce the transfer of heat. They cause considerable thermomechanical stresses which can ultimately generate cracks. Local overheating in the boiler causes boiling and stress noises which consequently consume more power. At a time when energy costs are rising this is not something desirable.

Boiler manufacturers therefore recommend installing a protective filter for the heating water. Fitting a protective filter on old heating systems is particularly important because the pipework is often badly obstructed by limescale and other deposits. A decision on whether the system is flushed out before installing the filter must be made on site.

The KÖPP protective filter for heating water has a much larger filtration surface than conventional small filter units, which means that it offers better filtration rates and a longer service life.



Pressure gauge connection 1/8"



### Application range

Max. temperature 90°C (for short periods: max. 110°C), operating pressure PN10

### Version

Filter head and bowl made of brass; filter bowl with 1/2" sealing plug; filter cartridge made of stainless steel, filtration rating of 500 µm. A filtration rating of 50 µm, 100 µm or 200 µm can be installed upon request; all seals are made of EPDM.

### Assembly

Horizontal mounting between two shut-off devices in the heating return circuit. Fit so that the direction of flow indicated on the filter head is observed.

### Maintenance

Clean with a water or compressed air jet and a brush.

Nominal diameter	DN	with internal thread				with screw fitting		
		25	32	40	50	External screw thread		
Screw fitting as per DIN 2999	D	Rp1"	Rp1 1/4"	Rp1 1/2"	Rp2"	Rp 3/4"	Rp1"	Rp1 1/4"
Dimensions in mm	L	124	135	150	160	192	223	253
	h	283	283	293	299	283	283	283
	H	324	324	338	351	324	324	324
	AH	535	535	555	575	535	535	535
	t					11	19	21.5
	SW					37	46	52
Weight	ca. kg	5	5	5.5	6.1	5.2	5.5	5.7
Flow rate at Δp	m³/h bar	5.5 0.08	7 0.09	9 0.1	11 0.09	4 0.08	5.5 0.08	7 0.09
Flow rate in at Δp 1 bar	m³/h kv	17.5	20	25	33	12	17.5	21

## Your personal contacts in the filter technology team:



**Victor Asselberghs**  
Key-Account-Manager  
Filter technology  
Mobile: +49 (0) 173 6521568



**Julian Scherrers**  
Sales  
Filter technology  
Phone: +49 (0) 241 16605-31



**Laure Walter**  
Sales  
Filter technology  
Phone: +49 (0) 241 16605-12