FILTER COMPONENTS

Shell Cartridge Filter

A refillable clear mineral cartridge that fits inside standard filter housings. Siliphos and Microphos prevent limescale, activated carbon removes chlorine, taste and odour, and resin softens water; the empty cartridge is for your own filling. Used on residential inlets, combi boilers and hot water lines.



FILLING TYPES	LENGTH OPTIONS	TOTAL MODELS	HARDNESS WITH RESIN
5 types	**5″ · 10″ · 20″**	**15 models**	**0–1 °fH**
Empty cartridge included	Standard housing sizes	5 fillings × 3 lengths	Siliphos/Microphos: unchanged

Technical specifications

Product type	Refillable clear mineral cartridge (shell cartridge)
Filling types	Empty · Siliphos · Microphos (dolomite) · Activated carbon · Cation resin
Length	5″ · 10″ · 20″ (20″: two 10″ joined with a plastic sleeve)
Number of models	15 (5 filling types × 3 lengths)
Compatible housing	5″, 10″ and 20″ standard filter housings
Installation	Sits inside the existing housing · No extra connections or pipework changes
Body	Clear · Mineral level visible without opening
Siliphos	Polyphosphate crystals · Scale inhibitor, corrosion protection
Microphos	Dolomite-based fine granules · Scale inhibitor, hot water lines
Activated carbon	Granular activated carbon · Chlorine, taste and odour removal
Resin	Cation exchange resin · Removes hardness, softens water
Measured hardness	Siliphos, Microphos: unchanged · Carbon: no effect · Resin: 0–1 °fH
Renewal	Only the filling is renewed · Resin can be regenerated with brine
Pre-filtration	Does not filter · Pre-filter in a separate housing on lines with sediment
Application	Residential inlets · Combi boilers, water heaters · Appliance supply · Commercial lines
Order information	Filling type · Length · Water hardness · Point of use

Filling types and models

FILLING TYPE	FILLING	FUNCTION	5″	10″	20″
Empty	No filling	Empty body for your own filling	•	•	•
Siliphos	Polyphosphate crystals	Limescale prevention, corrosion	•	•	•
Microphos	Dolomite (Microphos)	Limescale prevention, corrosion	•	•	•
Activated carbon	Granular activated carbon	Chlorine, taste and odour removal	•	•	•
Resin	Cation exchange resin	Hardness removal (softening)	•	•	•

15 models; each length fits a standard housing of the same size: 5″ tight spaces, 10″ residential inlets, 20″ building inlets and commercial lines. 20″ body: two 10″ cartridges joined with a plastic sleeve.

How the fillings work

CRITERION	SILIPHOS	MICROPHOS (DOLOMITE)	ACTIVATED CARBON	RESIN
How it works	Binds calcium and magnesium	Regulates mineral balance	Reduces chlorine, adsorbs organics	Exchanges Ca and Mg for sodium
Problem solved	Limescale, corrosion	Limescale, corrosion (hot water)	Chlorine, taste, odour	High hardness
Measured hardness	Unchanged	Unchanged	No effect	Falls to 0–1 °fH
Maintenance	Topped up as used	Topped up as used	Renewed at saturation	Regenerated or renewed
Point of use	Pipework, boilers, appliances	Boilers, water heaters	Mains water	Equipment, process lines

With Siliphos and Microphos a hardness meter keeps reading the same value; this is not a fault. For a measurable reduction in hardness, choose resin.

Use and maintenance

- Shut off the inlet and release the pressure; remove any element and seat the shell cartridge in the housing.
- Check the gasket and tighten; with activated carbon, flush until no more black water comes out.
- Do not mix fillings; for several problems use separate cartridges with housings in series.
- Pre-filter lines with sediment; on chlorinated water put activated carbon before resin.
- Check the level through the clear body; there is no fixed change interval.

Values in this data sheet are typical and for information only. Product selection should be made with our engineers based on process fluid, temperature, pressure and flow conditions. Proses T.İ.M. reserves the right to change product specifications without prior notice.

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