P.I. Gelidense, Naves 19-21
08790 - Gelida (Barcelona) – España
Tel: 937 793 520
Fax: 937 792 597

Mini magnetic filter ¾"

Technical data sheet · Ref. 5393034000 · MINI / DN20

1. Wall-mounted boiler applications



Compact filter for heating system return lines, designed for installation beneath wall-mounted gas boilers. Combines a stainless steel mesh, magnetic capture of rust particles and a sedimentation chamber. The transparent bowl allows inspection of accumulated dirt to determine when cleaning is needed.

Key data: 800 µm mesh · stated magnetic value 0,7 T · Kv 4,45 m^3/h · temperature 0–90 °C.

2. Performance and connections

Parameter	Manual data
Model / reference	MINI · 5393034000 · DN20
Permitted fluids	Water and ethylene glycol solution up to 30 % concentration.
Stated pressure	3 bar.
Temperature	0–90 °C
Filter mesh	800 µm
Magnetic value	0,7 T
Kv coefficient	4,45 m^3/h.
Return side	¾" male · ISO 228-1
Boiler side	¾" female · ISO 228-1,

P.I. Gelidense, Naves 19-21
08790 - Gelida (Barcelona) – España
Tel: 937 793 520
Fax: 937 792 597

3. Components and materials

Component	Material / function
Valve body	Brass EN 12165 CW617N.
Seal	EPDM.
Transparent housing	PC (polycarbonate). Allows inspection of accumulated dirt.
Outer casing	PA66G30, designation transcribed from the manual; requires confirmation.
Cylindrical mesh	304 stainless steel; mechanical filtration of impurities.
Magnetic assembly	Cylindrical permanent magnets; capture of fine rust particles. Composition not specified.
Sedimentation chamber	Collects larger particles.
Shut-off knob	Valve operation before dismantling for cleaning; material not specified.

4. Flow rates and pressure drop

Declared Kv: 4,45 m^3/h. For water, the calculation is $\Delta p = (Q / Kv)^2$, with Q in m^3/h and Δp in bar. Kv represents the flow rate at a pressure drop of 1 bar under its reference conditions.
Note:this must not be interpreted as the nominal or maximum operating flow rate.

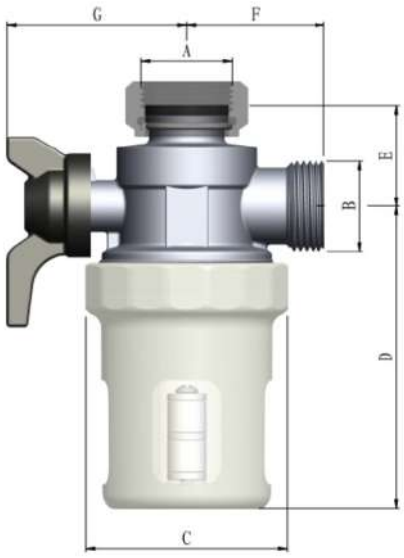
Q (m^3/h)	Q (l/h)	Δp (bar)	Δp (kPa)
0,50	500	0,013	1,3
1,00	1000	0,050	5,0
1,50	1500	0,114	11,4
2,00	2000	0,202	20,2

Note: Data derived solely from the Kv in the manual and the formula for water. Excludes the effects of dirt, glycol and viscosity changes. Validate the operating point against the allowable pressure drop and hydraulic documentation.

P.I. Gelidense, Naves 19-21
08790 - Gelida (Barcelona) – España
Tel: 937 793 520
Fax: 937 792 597

5. Dimensions and connections

References A and B denote connections; values C–G are overall dimensions in mm.



A	B	Cmm	Dmm	Emm	Fmm	Gmm
H-¾"	M-¾"	58	87	29	39,5	51,5

6. Installation and maintenance

Installation: install beneath the wall-mounted boiler, in the heating return line, with the collection bowl pointing downwards, observing the approved position and flow arrows in the manual. Check pressure, temperature and connection compatibility before installation.



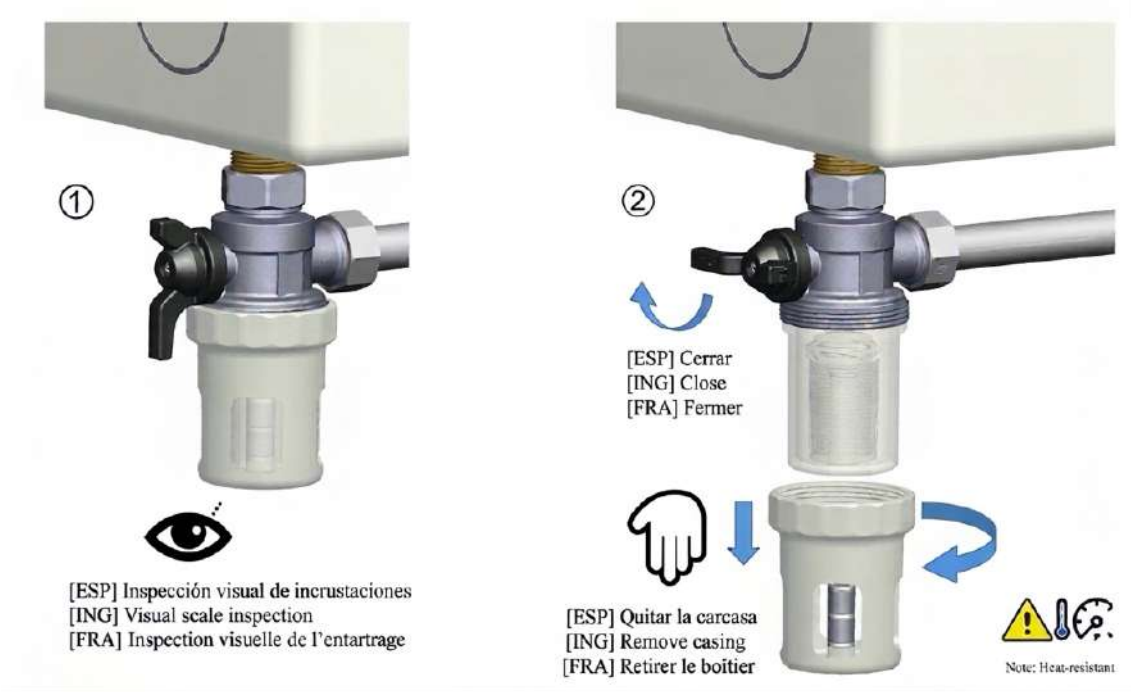
ESPAÑOL: El filtro solo puede instalarse verticalmente.



INGLÉS: The filter can only be installed vertically.
FRANCÉS: Le filtre ne peut être installé que verticalement.

P.I. Gelidense, Naves 19-21
08790 - Gelida (Barcelona) – España
Tel: 937 793 520
Fax: 937 792 597

Inspection: check the transparent bowl regularly and clean when impurities or dirt build-up is visible on the mesh.



Cleaning: close the valve before dismantling; remove the housing and mesh; collect residual water; rinse the mesh with water; align its opening with that of the body; refit and tighten the housing; open the valve to restore service.



⚠ **Precautions:** observe the operating conditions and the manual's warning regarding the proximity of pacemakers, electronic equipment and precision instruments to the magnetic field.