

GREENLIFE MAGNETIC FILTER

CLARIFIES WATER IN CLOSED HEATING,
COOLING & CHILLED WATER CIRCUITS

Greenlife Magnetic bag filter housings are devices for clarifying water in closed heating and cooling circuits. They are constructed of stainless steel and feature a high strength magnetic core with bag filter.



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Closed water systems may contain suspended particulates of iron and other system materials. Build-up of these particulates can cause:

- Heat transfer loss – increase in energy usage
- Under-deposit corrosion – asset failures, downtime
- Absorption of chemical treatment, making it difficult to maintain desired residuals
- Pump seal leaks – water loss/makeup allowing oxygen ingress & system corrosion cycle
- Bacterial habitat

Greenlife Magnetic bag filter housing's are an effective solution for these problems.

ADVANTAGES

OPTIMUM PROTECTION

- Reduce sludge from closed heating, cooling & chilled water circuits
- Increase life cycle of the circuit
- Isolation of the filter is possible

LOW COST

- Optimum efficiency & energy savings (+20%)
- Low operational cost (filter bags)

CONVENIENT

- Remove sludge while the system remains in service
- No moving parts
- Maintenance-free
- Easy installation
- No start-up

FEATURES



Ground fixing



Demontable axes



Fittings

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Every kind of particle with a size greater than 50 microns will be stopped by the filter bag while the high magnetic field magnetic bars will capture all the ferrous particles resulting from any corrosion of the circuit. In addition, the bag filter housing allows for the introduction of conditioning products such as corrosion inhibitors or antiscalant.

The Greenlife Magnetic Bag Filter consists of:

- **Polished 304 stainless steel** treatment chamber with stainless steel magnetic bars
- **Magnet**
 - DN 20 & DN 32 model: 1 magnet 300 mm
 - DN 40 model: 2 magnets 300 mm
 - DN 50 & 80F models: 2 magnets 600 mm
- **EPDM O'ring sealing**
- **Stainless steel inlet and outlet**, manometers pipes & bottom drain
- **Adjustable** stainless steel feet
- **Stainless steel M12 wing bolts** with ball joints & clips, fully dismountable
- **Stainless steel basket** and basket holder
- **0-10 bar Glycerin Pressure** gauge with brass pipe & air vent valve
- **Connection 1/4"** male radial
- **Delivered with T adaptor**, ball valve purge & air bleed/filling valve or corrosion inhibitor / scaling for PE pipe 4-6 mm



ACCESSORIES



Thermal insulation jacket

Protects the filtration unit from heat losses in heating installations and condensation in ice water installations.



Fouling box

Allows the measurement of the pocket's soiling and transmits the status of the pocket filter in real time via a dry contact.



Circulation pump

Provides motive flow through the filter housing.



Insulation shell

For the thermal insulation of the pump body in heating applications.

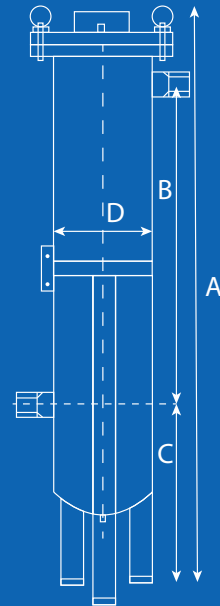
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TECHNICAL INFO

Choice of models based on the application to be treated.

- DN20 : A bypass circuit with 8 m³ flow (5 to 20 rooms - 2m³)
- DN32 : A bypass circuit with 26 m³ flow (5 to 50 rooms - 8m³)
- DN40 : A bypass circuit with 52 m³ flow (50 to 200 rooms - 17m³)
- DN50 : A bypass circuit with 103 m³ flow (200 to 400 rooms - 34m³)
- DN80 : A bypass circuit with 180 m³ flow (400 to 600 rooms - 48m³)

| | |
|----------------------------------|--------------------------|
| Filtration thickness | 50 micron and above |
| Max. pressure | 10 bar |
| Max. temperature | 90°C |
| Drain with plug | 1/2" F 15x21 |
| Fitting event | 1/4" F8/13 |
| Recommended water quality | 14°dH Class 3 (or 25°F). |



| Model | DN 20 | DN 32 | DN 40 | DN 50 | DN 80F |
|-------------------------------|--|--|--|---|---|
| Flow Rate / m ³ /h | 5 - 7 | 8 - 10 | 15 - 20 | 25 - 40 | 32 - 50 |
| Pressure drop / bar | 0.15 | 0.15 | 0.21 | 0.21 | 0.21 |
| Diameter / mm | 202 | 202 | 312 | 312 | 380 |
| Diameter Lid / mm | 202 | 202 | 312 | 312 | 312 |
| Dimensions / mm | A: 730 B: 355 C: 190 - 440 D: 114 | A: 730 B: 355 C: 190 - 420 D: 114 | A: 830 B: 480 C: 165 - 495 D: 219 | A: 1120 B: 800 C: 165 - 485 D: 219 | A: 1120 B: 800 C: 188 - 858 D: 219 |

Depending on the height position of the adjustable belt, the dimension "C" is variable.