

Magnetic dirt separator with integrated separation chamber and filter

► DIRTSTOP EASY

Magnetic dirt separator with dual filter action which can be installed in any position.

■ INTRODUCTION



Dirtstop® EASY is the new orientable magnetic dirt separator with dual filter action which can be installed in any position with ease while ensuring maximum effectiveness.

Dirtstop® EASY can be installed in heating systems fed by boilers, heat pumps or other heat generators. If the same system is also used for summer climate control, the dirt separator must be suitably insulated to prevent condensation.

The metal parts of the heating system are subject to corrosion effects, which release ferrous impurities into the water. In the heat generator, these impurities can block the heat exchanger or be attracted by the permanent magnet of the electronic circulation pumps, causing blockages.

Heating systems can also contain other impurities which tend to accumulate in the system parts with reduced transit sections causing obstructions, noise or other malfunctions.

Dirtstop® EASY helps keep heating systems in the best possible condition. Regular cleaning of the dirt separator is a fast and safe procedure which does not require draining down the system.

■ BENEFITS

Dirtstop® EASY is an essential component to increase the service lifetime of your heat generator. Dirtstop® EASY improves the heat exchange and general efficiency of the heating system, protecting it over time thanks to its continuous filtration.

- ✓ It can be installed in any position straight out of the box
- ✓ Internal separation chamber which guarantees perfect filtration in all installation positions.
- ✓ Extremely compact for easy installation under the boiler, even in confined spaces.
- ✓ Maintenance can also be carried out while the system is running: the unit can be cleaned without disassembly.
- ✓ Large settling chamber complete with a ball valve for draining off impurities, ensuring quick and easy cleaning at all times.
- ✓ Powerful magnet with diametric polarisation to generate a much more uniform magnetic field, thus optimising capture of all impurities.
- ✓ Strainer with 800 µm filter mesh: an exceptional combination of filtering capacity and ease of cleaning.
- ✓ Made from IXEF®, a technopolymer with extraordinary mechanical properties, comparable to brass.

■ TECHNICAL DATA

Fluid temperature	0-90°C
Maximum operating pressure	3 bar
Flow coefficient (Kv)	Straight position: 5.5 m ³ /h 90° position: 6.5 m ³ /h
Maximum flow rate (indicative)	1.46 m ³ /h
Mesh strainer	800 µm in stainless steel AISI 304
Compatible fluids	Water or glycol solution (max. 50%)
Magnet	Neodymium, magnetic induction B = 1.2 T (12,000 G) Diametric polarisation to maximise capture
Connections	3/4" M x 3/4"F

Optional insulation Item code 520217

Material	Polyethylene
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Inner layer

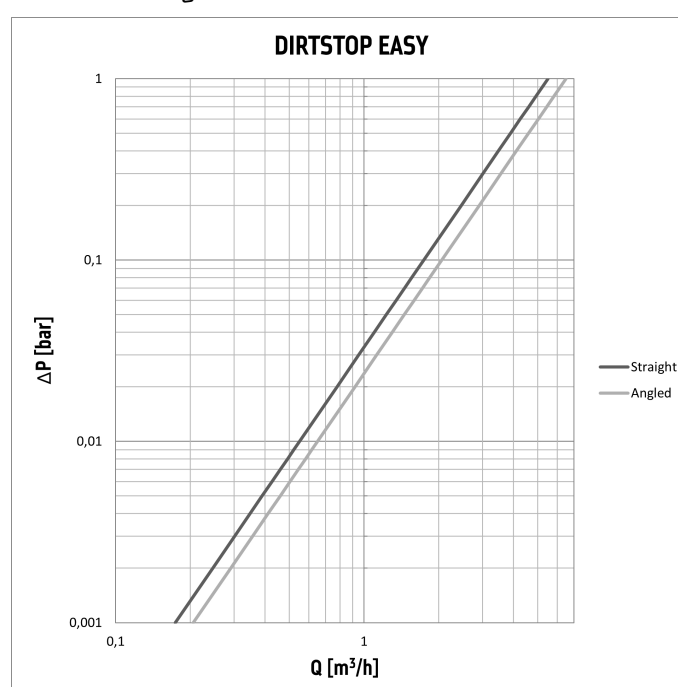
Density	30 kg/m ³
Thermal conductivity (40 °C)	0,041 W/mK
Water absorption (24 h)	< 1%
Elongation at break, vertical	170 %
Elongation at break, horizontal	200 %
Ultimate tensile strength, vertical	0.68 N/mm ²
Ultimate tensile strength, horizontal	0.63 N/mm ²
Dimensional stability	85 °C
Reaction to fire	Class B2
Flammability	Class HF-1
Water vapour diffusion coefficient	1300 µ

Outer layer

Density	80 kg/m ³
Thermal conductivity (40 °C)	0,049 W/mK
Elongation at break, vertical	160 %
Elongation at break, horizontal	170 %
Dimensional stability	105 °C
Reaction to fire	Class B2
Flammability	Class HF-2
Water vapour diffusion coefficient	1300 μ

■ CHARACTERISTIC CURVE

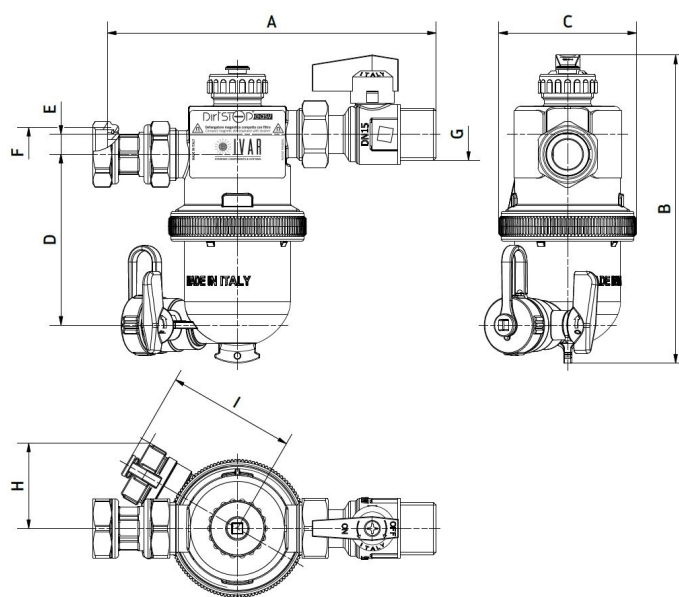
The characteristic curves for DIRTSTOP EASY are given below for horizontal and vertical installation.



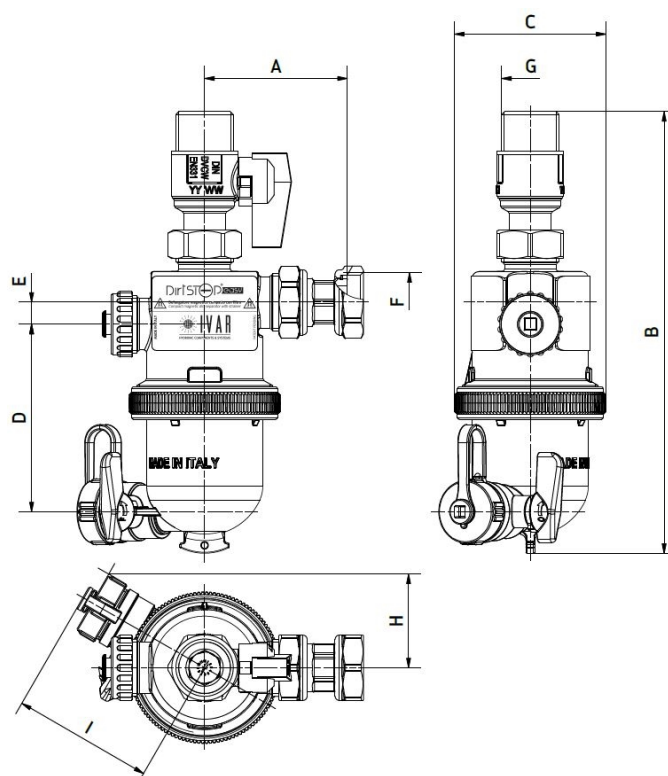
■ MATERIALS

- Body: technopolymer IXEF®
- Ball-type shut-off valve: CW617N brass
- Swivel fitting: CW617N brass
- Caps: CW617N brass
- Sealing elements: peroxide-cured EPDM

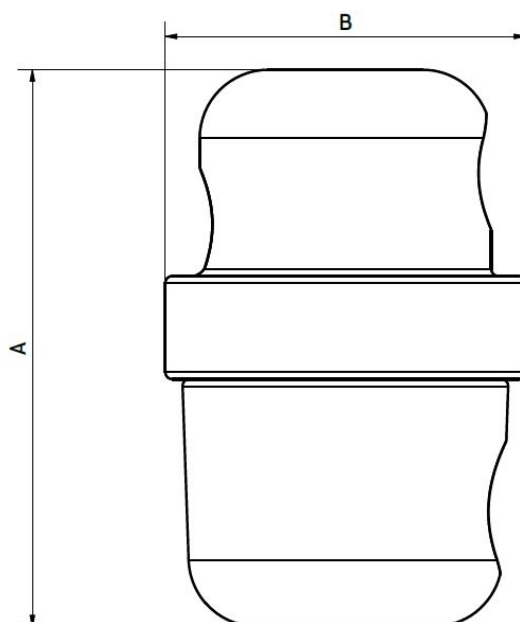
■ DIMENSIONS



Art.	Cod.	A	B	C	D	E	F	G	H	I
DIRTSTOP EASY	520360	165	155	70	85.5	10	G3/4" F	G3/4" M	43	65
DIRTSTOP EASY	520360W	165	155	70	85.5	10	G3/4" F	G3/4" M	43	65



Art.	Cod.	A	B	C	D	E	F	G	H	I
DIRTSTOP EASY	520360	65	201.5	70	85.5	10	G3/4" F	G3/4" M	43	65
DIRTSTOP EASY	520360W	65	201.5	70	85.5	10	G3/4" F	G3/4" M	43	65



Art.	Cod.	A	B
CI DIRTSTOP EASY	520217	162	Ø105

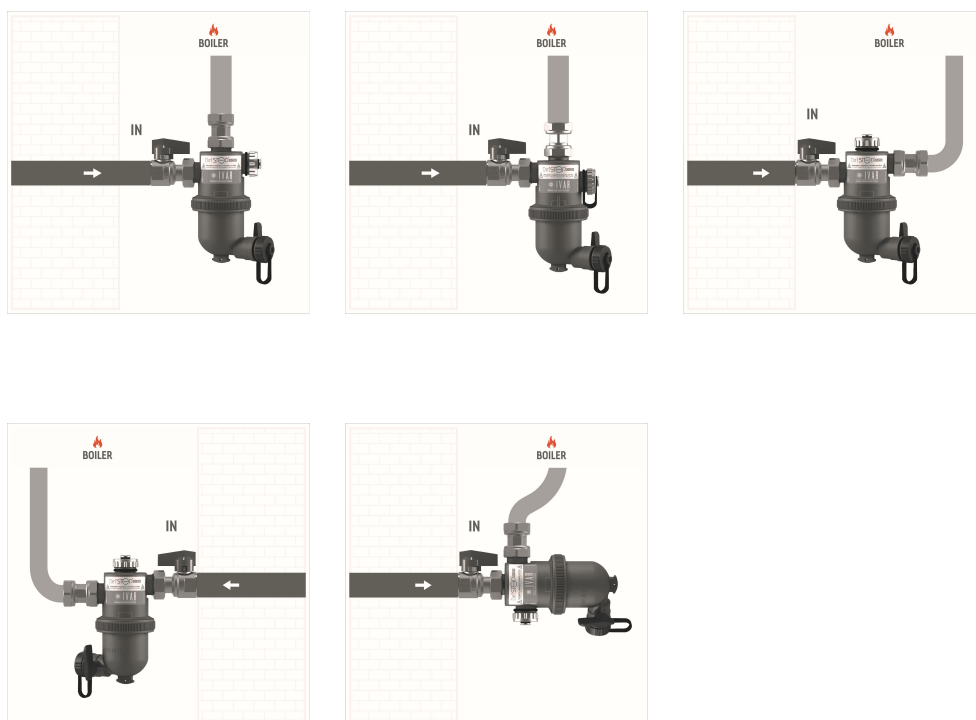
■ COMPONENTS



1. Upper body
2. Lower body
3. Ring nut
4. Drainage valve (for routine cleaning)
5. Magnet
6. Mesh strainer
7. Inlet/outlet connections
8. Ball-type shutoff valve (connection on side of system)
9. Swivel fitting (connection on boiler side)
10. Caps
11. Hose connector nozzle

■ INSTALLATION

Dirtstop® EASY is designed to be installed without further modifications to the component. Simply open the package, screw on the cap, swivel union and shut-off valve, and the dirt separator can be installed in any position with maximum effectiveness guaranteed.

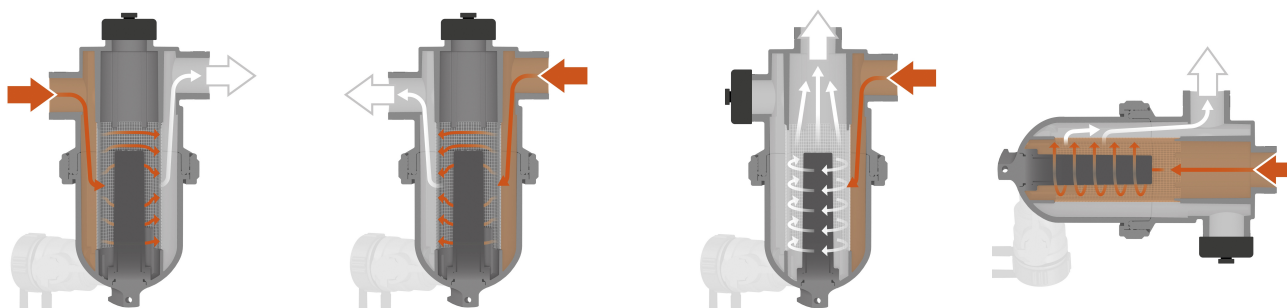


■ OPERATION

Dirtstop® EASY traps the impurities contained in the closed circuit of the heating system. The internal separation chamber forces the water to pass through the filter in any installation position, always guaranteeing maximum filtration. The powerful neodymium magnet also retains ferrous impurities, protecting the heat exchanger and pump of the heat generator.

Install Dirtstop® EASY on the return line of the system, before the heat generator, to intercept any impurities in the circuit before they reach the heat generator itself.

When installing Dirtstop® EASY in a new heating system, the pipework should be flushed in advance to remove any dirt and debris. When installing Dirtstop® EASY in an existing heating system, it is recommended to clean the system using the cleaner additive IVAR IV400 and then carry out an anti-scaling treatment using an appropriate inhibitor: IVAR IV100HT (for high-temperature heating systems) or IVAR IV100LT (for low-temperature heating systems).



■ MAINTENANCE

The quantity of waste that accumulates in Dirtstop® EASY will depend on the condition of the heating system.

Carry out routine cleaning of Dirtstop® EASY one month after initial installation. Subsequently, perform routine cleaning every two months during the heating season.

Carry out the special cleaning procedure at least once a year.

For further information on maintenance, see the product instruction sheet.

■ SPECIFICATION SUMMARY



520360

Dirtstop® magnetic dirt separator with dual filter action, which can be installed in any position, with compact internal separation chamber and connection kit for installation under the boiler. The dual filter action is provided by a neodymium magnet (magnetic induction $B = 1.2 \text{ T}$ (12,000 G)) and an 800 μm AISI 304 stainless-steel mesh strainer. The neodymium magnet is diametrically polarised and provides a homogeneous magnetic field which maximises the capture of ferrous impurities. The mesh filter captures all other impurities. The impurities precipitate out in the large settling chamber at the base of the dirt separator. Removal of impurities can be performed without the need to drain down the system and disassemble the dirt separator thanks to the removable magnet and integrated drain valve. Body: IXEF® technopolymer. Ball-type shut-off valve, swivel union and caps: CW617N brass. Sealing elements: peroxide-cured EPDM. Temperature: 0 - 90 °C. Max pressure: 3 bar. Compatible with water or glycol solution, max. 50%. Maximum flow rate: 1.46 m³/h. Connections: 3/4" M x 3/4" F. Colour: black.



520360W

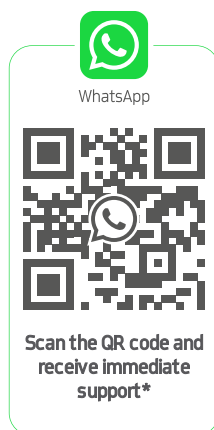
Dirtstop® magnetic dirt separator with dual filter action, which can be installed in any position with compact internal separation chamber and connection kit for installation under the boiler. The dual filter action is provided by a neodymium magnet (magnetic induction $B = 1.2 \text{ T}$ (12,000 G)) and an 800 μm AISI 304 stainless-steel mesh strainer. The neodymium magnet is diametrically polarised and provides a homogeneous magnetic field which maximises the capture of ferrous impurities. The mesh filter captures all other impurities. The impurities precipitate out in the large settling chamber at the base of the dirt separator. Removal of impurities can be performed without the need to drain down the system and disassemble the dirt separator thanks to the removable magnet and integrated drain valve. Body: IXEF® technopolymer. Ball-type shut-off valve, swivel union and caps: CW617N brass. Sealing elements: peroxide-cured EPDM. Temperature: 0 - 90 °C. Max pressure: 3 bar. Compatible with water or glycol solution, max. 50%. Maximum flow rate: 1.46 m³/h. Connections: 3/4" M x 3/4" F. Colour: white.

■ CODES

Line	Code	Main connections	Colour
DIRTSTOP EASY	520360	3/4" M x 3/4" F	Black
DIRTSTOP EASY	520360W	3/4" M x 3/4" F	White



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