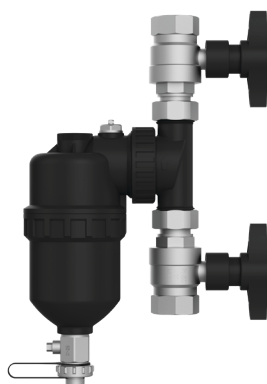


Operating instructions

for the **COMPUTHERM DS5** type dirt separators



DS5-20 and **DS5-25**



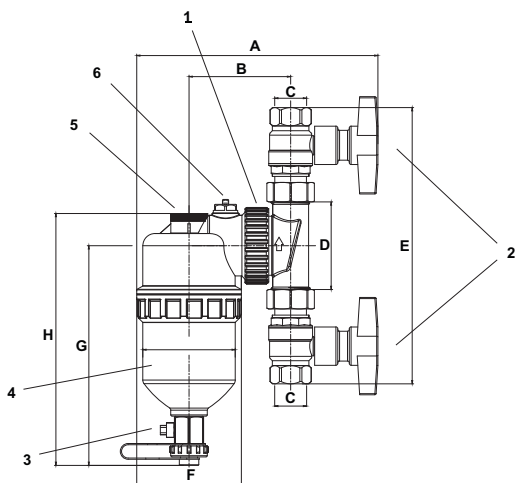
DS5-20B and **DS5-25B**

Contaminants are always present in heating and cooling systems. They can accumulate over time and can cause clogging, failure, performance degradation, or noise. To prevent this, dirt must be separated from the system. The **COMPUTHERM DS5-20**, **DS5-20B**, **DS5-25** and **DS5-25B** magnetic dirt separators serve this purpose, with their design, filter and strong magnet, they effectively remove both magnetic and non-magnetic dirt from the heating/cooling systems, allowing the proper operation of the system and increasing its lifetime.

The products are easy to install and maintain. No need to replace seals or other parts during maintenance and cleaning. The magnetic dirt separators are much more efficient than conventional filters and require less maintenance.

The components of the product and the main advantages of its design:

1. Swivel connection, which allows connection to horizontal and vertical pipes.
2. Shut-off valves before and after the product for easy draining.
3. Drain valve to remove dirt.
4. Transparent container to check the amount of dirt collected (in case of the **DS5-20** and **DS5-25** models).
5. Removable strong magnet for easy cleaning.
6. Air vent



	A	B	C	D	E	F	G	H	I
DS5-20 DS5-20B	198 mm	83.5 mm	¾"	72 mm	227 mm	Ø86 mm	182 mm	207 mm	Ø76 mm
DS5-25 DS5-25B	204 mm	83.5 mm	1"	72 mm	247 mm	Ø86 mm	182 mm	207 mm	Ø76 mm

Installing the device:

Attention! If you're using a pacemaker, then special care must be taken while handling the magnetic dirt separator, similarly as with all strong magnetic products.

Attention! The strong magnet in the product can damage some electrical devices. Keep away from these devices to avoid damage.

Attention! Install the product in a dry place which is not exposed to frost and easily accessible for maintenance.

Attention! For higher efficiency, the installation diameter of the dirt separator must match the pipe diameter of the system. The connection size of the

DS5-20 and **DS5-20B** models is $\frac{3}{4}$ ", while the connection size of the **DS5-25** and **DS5-25B** models is 1"

Before installation, ensure a suitable location for the dirt separator in the heating/cooling system. To do this, note the dimensions of the ball valves and the dimensions of the plugs/connectors. The product can be installed in vertical and horizontal pipe systems too, but take care that the dirt separator housing should always be vertical and the drain tap must be located at the bottom of the product. Make sure that the direction of flow matches the direction indicated on the connector. Install the dirt separator in the return line upstream of the heater/cooler/pump. Before installation, close the ball valves on the product, and open them only after installation is finished. After installation, vent the product using the air vent on its top to ensure proper flow in the system.

Emptying the collected dirt and venting:

The amount of dirt collected is visible through the transparent cover (in case of the **DS5-20** and **DS5-25** models). When a visible amount of dirt has accumulated at the bottom of the tank, it is worth emptying it. It is recommended emptying at least once per heating/cooling season, even if accumulated dirt is not visible to the naked eye. Follow the steps below to remove dirt:

- Turn off the heating/cooling system so that the fluid does not flow in it.
- Close the two ball valves connected to the product.
- Unscrew the magnetic rod from the product and remove it until the end of the cleaning process.
- Unscrew the closing cover from the bottom of the product
- Open the ball valve located at the bottom of the product with the bottom part of the closing cover.
- Leave the tap open until the contaminated water leaves the product, then close the ball valve using the cap and screw the cap back on. If you find that not all dirt was drained from the housing of the product, unscrew the lower part of the tank to clean it.
- Place the magnetic bar back into the top of the product.
- Open the two closed ball valves connected to the product.
- Vent the system by opening the air vent on the top of the product. Once the air is out and liquid is flowing out of the air vent, close it.
- If necessary, refill the heating/cooling system to achieve the adequate water pressure.
- Turn the heating/cooling system on.

TECHNICAL DATA:

Size of connections:	$\frac{3}{4}$ " (DS5-20 & DS5-20B) or 1" (DS5-25 & DS5-25B)
Maximum operating pressure of the heating circuit:	4 bar
Minimum operating temperature:	0 °C
Maximum operating temperature:	100 °C
Maximum flow rate:	53 l/min (DS5-20 & DS5-20B) or 92 l/min (DS5-25 & DS5-25B)
K_{vs} :	1.6 m ³ /h (DS5-20 & DS5-20B) or 2.8 m ³ /h (DS5-25 & DS5-25B)
Magnetic strength:	12000 Gauss (neodymium magnet)
Housing material:	glass fiber reinforced nylon (PA66)
Tank volume:	530 ml
Weight:	1490 g (DS5-20 & DS5-20B) or 1790 g (DS5-25 & DS5-25B)
It can be used in both heating and cooling systems:	yes

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