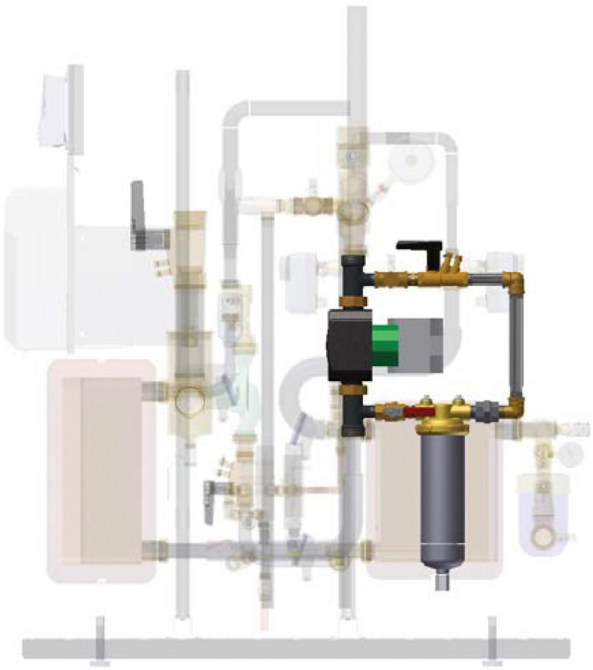
Högfors GST
Energy used wisely.

PartiVec





MADE IN FINLAND

Side stream filters for heating and cooling systems

PartiVec is a durable, high-quality, highly efficient cleaning accessory for heating and cooling systems.

HögforsGST's air and dirt separators are available on MagiCAD.

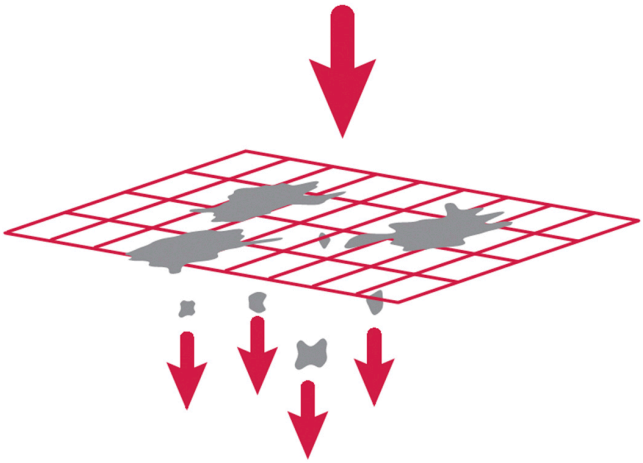
Improved water quality, more efficient heat transfer

When a radiator network is filled up after downtime, old deposits may get dislodged and accumulate on the surfaces of critical components, such as heat exchangers or radiator valves. This causes operational problems and weakens heat transfer. The PartiVec side stream filter improves system functionality and significantly increases its lifespan.

Filtering technology can be roughly divided into two categories: surface and depth filtration. The decision as to which filtering technology to choose depends on the desired end result and the material to be treated, among other things. In heating and cooling systems, the systems are protected with traditional dirt separators, which use surface filtration. This means that the filter has a net, which only allows particles smaller than the gaps in the net to pass through. These types of dirt separators protect the system during installation from any items that have entered the system, but they do not remove the precipitate, humus, or smaller particles moving through the system. Smaller particles may be removed using depth filtration. Depth filtration also protects mechanical seals from grinding particles, and sensitive measurement devices and actuators against dirt.

Precipitate causes various problems in heating and cooling systems. Usually, precipitate is dislodged after alteration work on the network and after the system is emptied and refilled. The main problems caused by this include component malfunctions, impaired heat transfer and shortened service life.

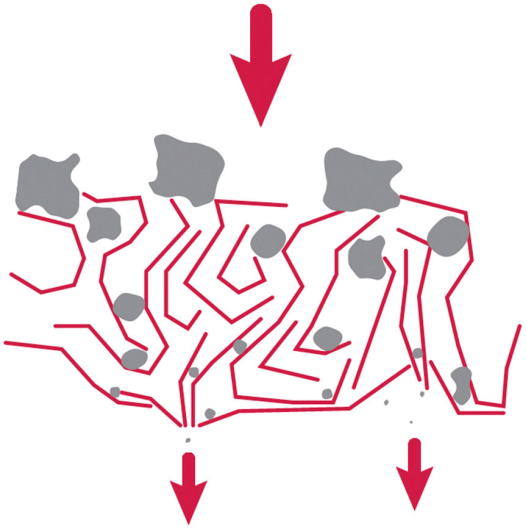
Surface filtration



Key factors:

- Installability
- Ease of use
- Degree of filtration
- Maintainability

Depth filtration

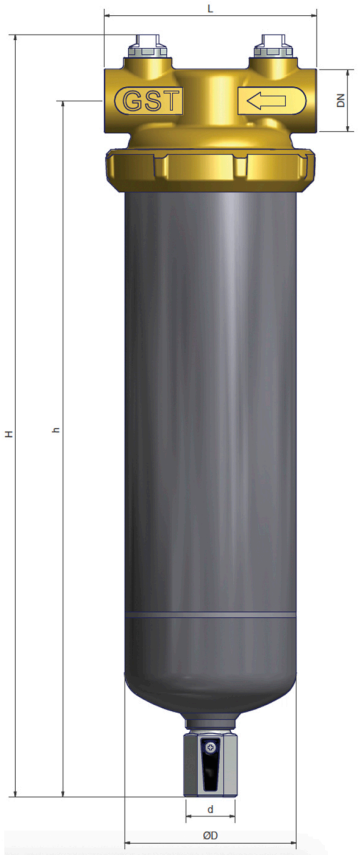


Advantages of the PartiVec side stream filter:

- High-quality components
- Efficient removal of precipitate (high degree of filtration)
- Extended service life of the components
- Improved heat transfer
- Easy to maintain

PartiVec with a ¾” connection and 10” tank or 20” tank

Intended for separating dirt from networks. Degree of filtration 50 microns. Filtration tank material st35.7/aisi 304. Body made of special brass, resistant to dezincification. Maximum operating temperature 95°C. Maximum operating pressure 10 bar.

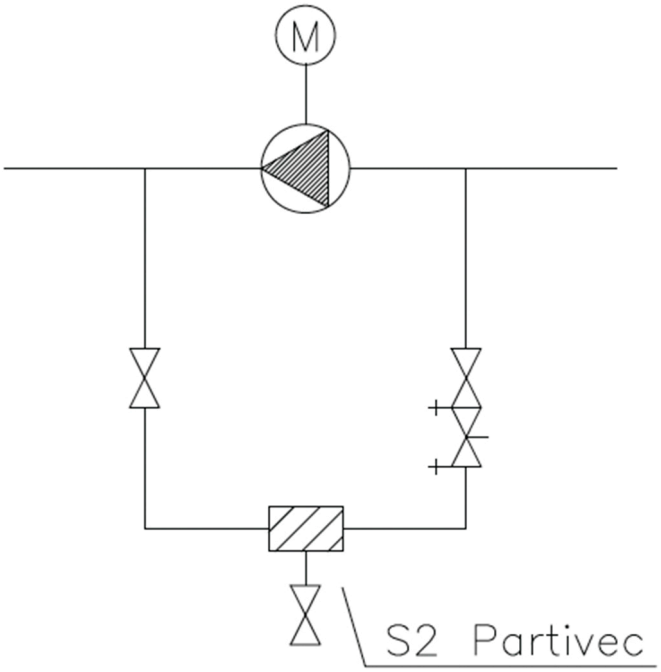


Mitat

	10″	20″
L, mm	110	110
H, mm	394	641
h, mm	360	607
d	1/2″	1/2″
D, mm	89	89
DN	3/4′	3/4′
MAX flow	0.66 l/s	1.06 l/s

3-5% of the network flow is conveyed to the side stream filter.

Connection example



Accessories

Standard accessories:

- Air exhaust connections
- Drain valve
- Four filter cartridges

Different materials and sizes are also available to order.

Model code

Partivec 10” NCSG-10

Partivec = Name of the product family

10 “ = Tank length (inches)

N = Model, N = normal

S = Material, CS = steel, SS = stainless

G = Connection, W = weldable, F = flanged, G = threaded

10 = Pressure class (PN), 10 = 10 bar

HögforsGST’s air and dirt separators are available on MagiCAD.

HögforsGST – Energy used wisely.

HögforsGST specialises in the manufacture, sale and marketing of high-quality heating and cooling systems. The company has solid expertise in heating systems both domestically and in export markets.
Our expertise is based on our experience in production, serial manufacture, mass customisation and project production, as well as on our knowledge of the acquisition channels in the HVAC industry and logistics in Finland and abroad.
Our operations are based on extensive investigation into the operating conditions of the market, customer orientation and reliability. We are equally uncompromising in terms of our high-quality products and services.

We reserve the right to make changes.

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