

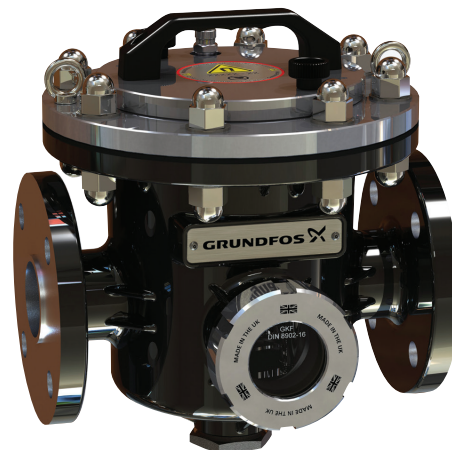
# Commercial Hydronic Maintenance Accessories

## GRUNDFOS **MagFilter**

Protect your commercial hydronic heating system from damaging black, iron oxide sludge with a MagFilter Commercial Filter. An exceptionally powerful line of magnetic filters in a variety of sizes, MagFilter Commercial is designed to begin cleaning and protecting from the moment it's installed. Proven MagFilter technology effectively removes iron oxide sludge, and maintains critical system efficiency.

MagFilter Commercial Filter high-performance filters not only maintain heating and cooling systems, but they also provide ongoing protection and contribute significantly to reduced energy, maintenance, and repair costs.

Extensive research has shown that magnetic filtration is the most effective means of sludge capture in maintaining and protecting commercial hydronic heating systems. When compared with a dirt separator and a basket filter, test results show that MagFilter Commercial Filter is up to 80% more effective in capturing damaging iron oxide sludge than these other forms of filtration, and at least 30% more energy-efficient.



## Key Features and Benefits

### Superior Iron Oxide Capture

The unique, proprietary design of the MagFilter Commercial line maximizes first-pass capture of magnetic debris by forcing system water flow past powerful magnets that 'ACTIVELY' trap any circulating iron oxide sludge, preventing potentially expensive damage to the system and its components. MagFilter Commercial filters not only begin cleaning almost immediately upon installation, but also provide ongoing protection over the life of the system.

### Less Pressure Drop

MagFilter Commercial also has a lower pressure drop than other tested methods of filtration. Even when fully loaded with trapped iron oxide sludge, there was nearly 54% less pressure drop across a MagFilter Commercial filter than the dirt separator, and 68% less than the basket filter. The differential pressure should be minimized so flow rates can remain at an optimum constant, ensuring system efficiency and lower energy usage.

### APPLICATIONS

- Manufacturing
- Multi-family housing
- Healthcare
- Education
- Institutional
- Hospitality

# MagFilter Commercial Technical Data

## MagFilter Commercial

Maximum working pressure: 145 psi  
 Maximum working temperature: 212°F

## Casing Housing and lid material

304L stainless steel (SA351CF3) Drain:  
 1¼" FEMALE NPT hole, with 1¼" MALE NPT plug  
 Lid Seal: EPDM

## Flow flanges

ASME B16.5 Class 150  
 Supplied with IBC gaskets (EPDM)

## Magnets

Material: High power, NdFeB  
 Pocket sleeves: 304L Stainless steel (SA351CF3)  
 MagFilter designed, manufactured and third party approved to ASME Boiler and Pressure Vessel Code

Filter size	Filter diameter (inch)	Inlet size (inch)	Number of magnetic rods	Filter volume (US gallons)	Filter dry weight (lbs)
2"	6.30	2	5	0.83	54.7
3"	8.27	3	6	1.84	88.6
4"	8.50	4	7	2.18	103.4
6"	12.76	6	9	7.4	211.4

## Inlet and outlet flanges

Size options: 2", 3", 4", 6"  
 Flanges: ASME B16.5 Class 150

Filter size	Flange thickness (inch)	Bolt size (inch)	Bolt quantity	Bolt hole PCD (inch)
2"	6.30	2	5	0.83
3"	8.27	3	6	1.84
4"	8.50	4	7	2.18
6"	12.76	6	9	7.4