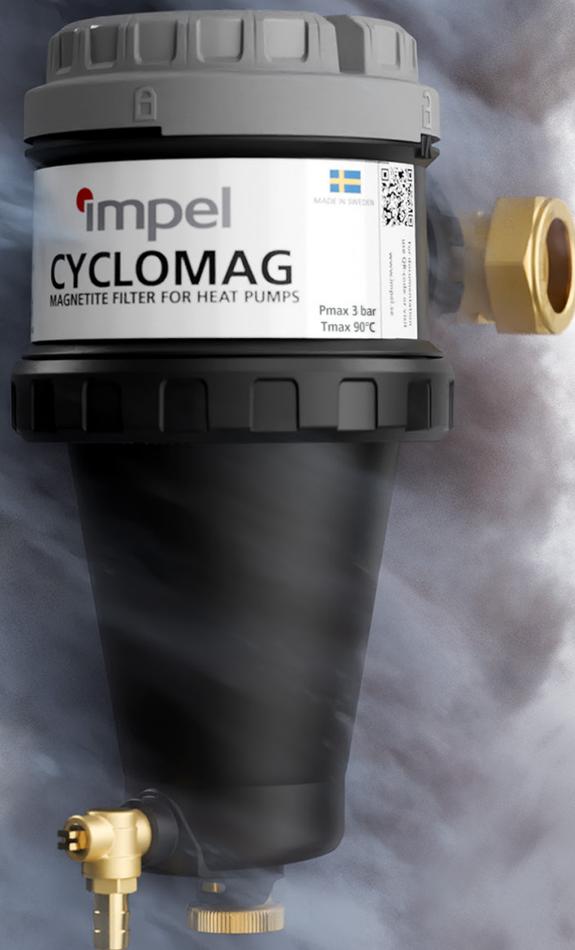


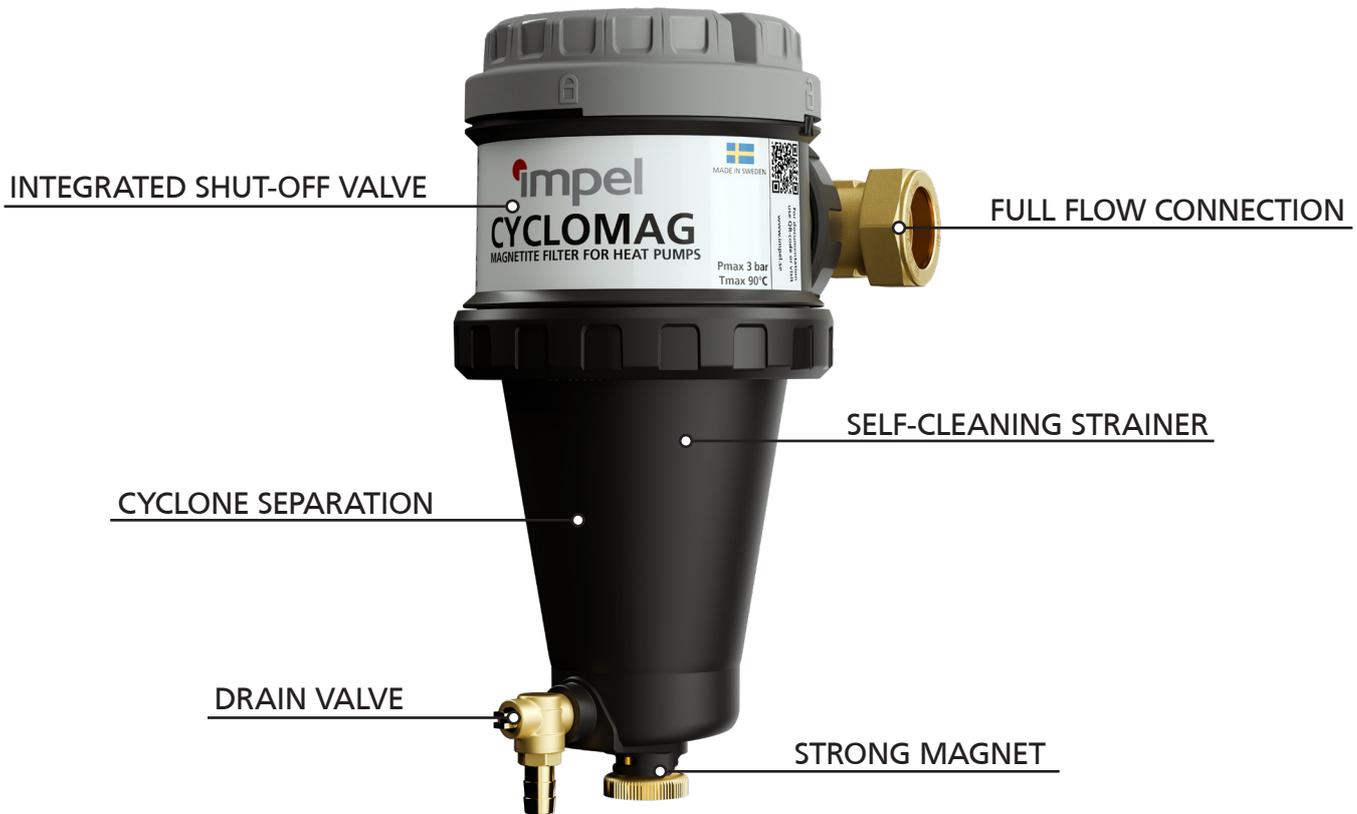
 impel

CYCLOMAG™



PROTECTING YOUR HEATING SYSTEM
AND INVESTMENT

Superior Protection



Innovation Driven by Real Needs

At Impel, we believe true innovation comes from solving real-world challenges. With years of expertise in fluid engineering, we have worked closely with industry professionals to develop a next-generation filtration solution that redefines efficiency, durability, and ease of use.

Our advanced filter is engineered to capture all types of debris, from microscopic fiber residues and particles to dense magnetite buildup. Unlike conventional filters that struggle with fluctuating efficiency, our system effectively traps both small and large contaminants. The secret lies in our proven cyclone technology, widely adopted in high-performance industries such as premium vacuum sys-

tems and large-scale manufacturing. By harnessing this cutting-edge approach, we have developed a filtration system that ensures unmatched reliability, sustained performance, and minimal maintenance.

But we didn't stop at performance alone. We understand that ease of installation and maintenance is just as crucial for professionals in the field. That's why we've integrated a specially designed shut-off valve, allowing for quick and hassle-free installation with minimal system downtime. Additionally, our innovative slip couplings makes mounting more versatile and convenient, adapting to different setups effortlessly.

Beyond capturing debris, our filter is built to maintain a stable pressure drop over time, ensuring consistent system performance without unnecessary strain. This is made possible by an advanced cyclone mechanism, which continuously rotates around the filter, optimizing flow dynamics and maximizing efficiency.

The result? A smarter, more powerful, and hassle-free filtration solution that sets a new standard for the entire industry. Whether you're an installer, maintenance professional, or system operator, Impel's groundbreaking filter delivers the performance, reliability, and convenience you need.

Where Innovation Meets Perfection



Natural Forces - Effective And Reliable

Hydro cyclones use powerful centrifugal force to separate particles from fluid, offering an efficient solution trusted across industries. The fluid enters through an engineered flow plate, creating a swirling motion that's amplified by the container's unique design, maximizing the separation effect.

Dense particles are pushed against the walls, lose momentum, and settle at the bottom below the separator plate. Meanwhile, a vortex forms around the magnetic rod, attracting and capturing particles with its strong magnetic field, as clean water flows upward through the center.

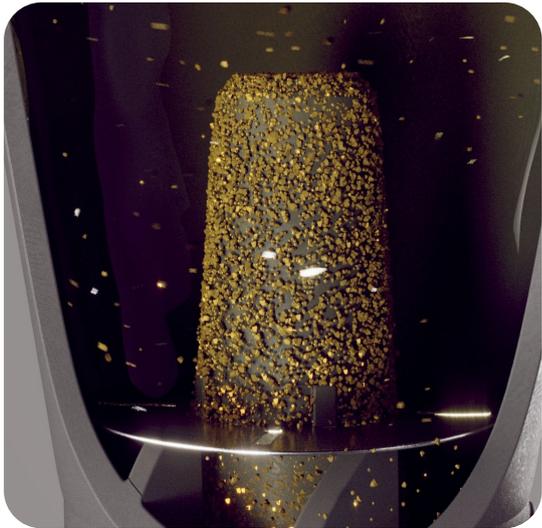
This advanced cyclone effect ensures **reliable filtration without the risk of clogging**, keeping performance consistent over time. It's a high-efficiency solution capable of separating particles of various sizes, types, and flow rates with ease.

Optimized Strong Magnetic Field

Magnetite collection is managed by the powerful magnet and the strategically placed separation plate at the bottom of the chamber. Particles colliding with the chamber walls are naturally forced to the bottom, trapping them beneath the separation plate. Meanwhile, the cyclone forces remaining particles downward, where the magnet efficiently captures magnetite.



Rather than simply chasing the strongest magnet on the market, focused was set on designing a system that maximizes its effectiveness within the collection chamber. This new design ensures superior performance, reliable filtration, and a cleaner system for optimal operation.



Self-cleaning Strainer

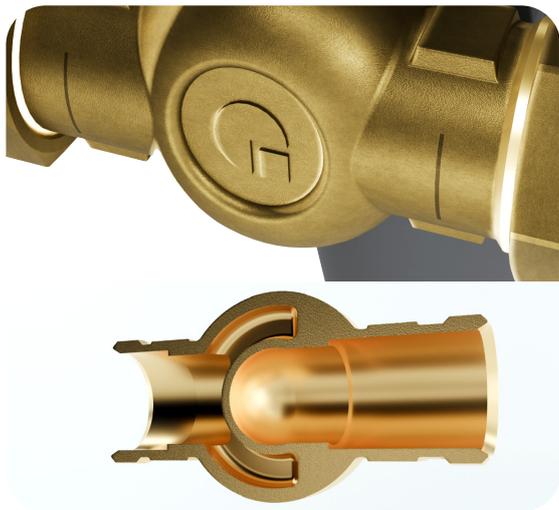
Traditional solutions on the market use strainers as collectors, which clog quickly—reducing flow rates and requiring frequent maintenance. With CYCLOMAG the role of the strainer is reimagined. Instead of acting as a collector, it functions as a barrier collecting particles on the outside, allowing the entire separation chamber to serve as a high-capacity collector for low-density and non-magnetic particles.



Thanks to the constant cyclone forces circulating around the filter, the strainer is self-cleaning. Particles are continuously agitated and driven to the bottom of the container, preventing clogging and maintaining optimal flow rates. With CYCLOMAG, you get smarter filtration, less maintenance and consistent system performance.



Designed for Easy Installation and Comfort



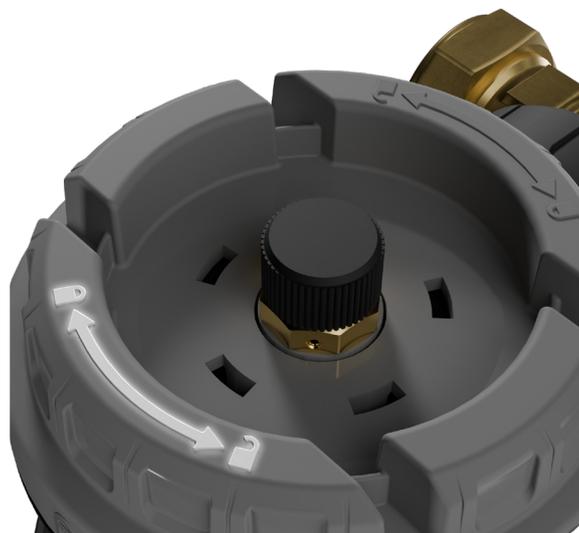
Easy Installation

To make compression fitting installation effortless, clear indicators show directly on the connection for accurate pipe cutouts—no need for paper templates. Simply hold it against the pipe, mark and cut. For even greater convenience, CYCLOMAG compression fitting versions are designed as slip couplings, allowing for a shorter cutout length and a faster, hassle-free setup.

Integrated Shut-Off Valve



CYCLOMAG is designed for efficiency and convenience, featuring a built-in shut-off valve that simplifies maintenance and cleaning. This integrated solution enables isolation of the filter quickly and easily, ensuring hassle-free servicing without disrupting the system. Turn the handle clockwise to isolate the filter for cleaning or counterclockwise to resume operation. Clear symbols on the filter indicate the valve's position, providing intuitive guidance and confidence during use. CYCLOMAG's smart design minimizes downtime and keeps your system running efficiently, offering a user-friendly and time-saving solution for routine maintenance.



Built for Tomorrow, Made to Last

Lead free

CYCLOMAG is built to stand the test of time, which is why all its brass components are crafted from lead-free brass. This ensures not only long-lasting durability but also compliance with upcoming EU regulations on lead-free materials.



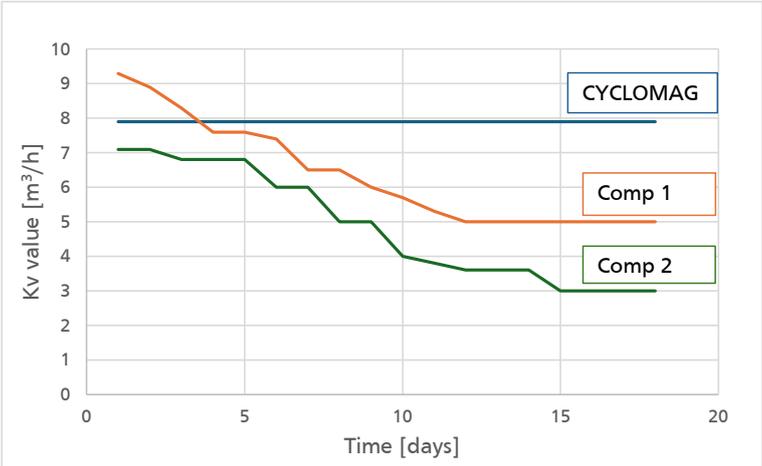
The European Union is introducing stricter standards to eliminate lead from products, prioritizing safety and sustainability. With CYCLOMAG, you're ahead of the curve—our forward-thinking design is fully prepared to meet these future demands. Choosing CYCLOMAG means investing in a product that delivers exceptional performance today and is built to comply with tomorrow's standards. Stay future-proof with CYCLOMAG.





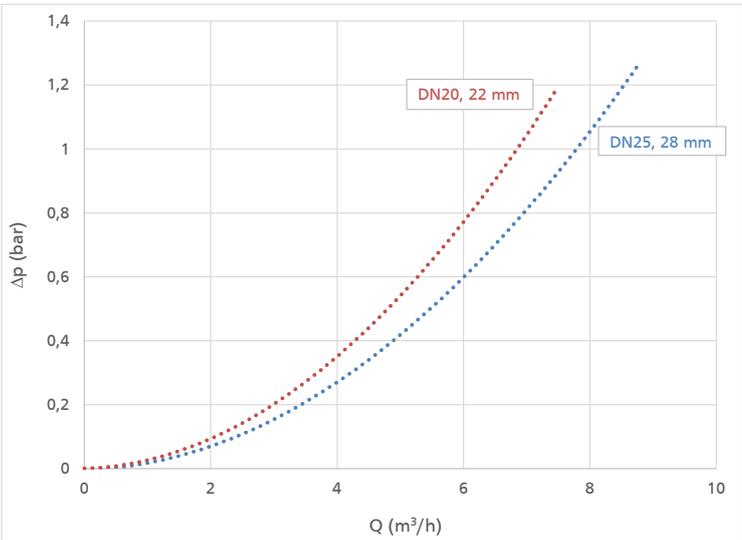
Maintains Efficiency

CYCLOMAG is engineered to deliver long-lasting performance with a thoughtful design that resists clogging and ensures reliable operation over time. Unlike other products that degrade and lose efficiency, CYCLOMAG maintains its performance, giving you a reliable superior system protection.



No Flow Restrictons

The connection part is designed without reduction, ensuring unrestricted flow. The strainer is self-cleaning on the outside, effectively removing debris and maintaining optimal performance with minimal maintenance.



Long-term Protection

Having a CYCLOMAG in your system is “The easy cost effective solution” to keep your heating system healthy, efficient and long-lasting. By removing harmful magnetite and sludge, it prevents blockages, reduces wear and tear, and improves overall performance.

This means lower maintenance costs, fewer breakdowns, and a more efficient system-saving you both time and money.

Choose CYCLOMAG and protect your systems for years to come.



CYCLOMAG

- Connection female 3/4" - 1" or 22-28CU
- Lead free brass
- No flow restrictions
- Self-cleaning filter
- Real hydro cyclonic separation
- Large collector volume

Application

Heating system.

Construction

Magnetic filter allowing both horizontal and vertical installation. The built-in shut-off valve contributes to a compact design. The filter is easy to clean, and cleaning is possible "even" during operation, thanks to the strong magnet and the drain valve with hose connector.

The cyclone effect makes particles collide with the outer wall, reducing their speed and settling at the bottom, while the magnet captures all iron particles.

A self-cleaning filter at the outlet prevents non-magnetic particles from entering the system.

Airvent located in the center of the handle for purging the system.

Markings

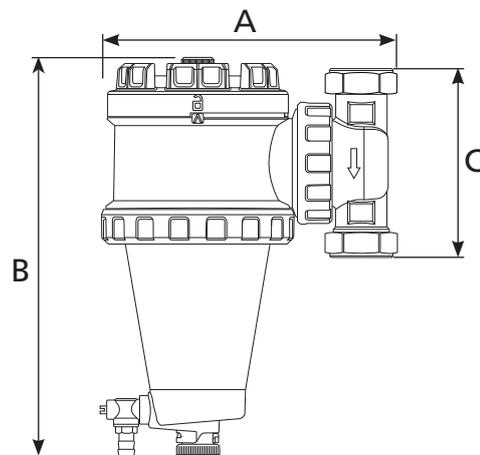
Connection dimension, flow direction, pipe cut indicator, logo, open/closed, magnetic warning label, max temp/pressure, cyclone, filter, magnet, qr-code, made in Sweden.



Technical data

Connection	Lead free brass CW724R
Compression ring	Lead free Brass CW507L
Locking ring	Carbon Steel
Filter housing	Nylon PA66G50
O-rings	EPDM
Magnet	Neodym NdFeB
Drain valve	Lead free brass CW724R
Magnet plug	Lead free brass CW724R
Airvent	Lead free brass CW724R

Maximum working pressure:	3 bar
Maximum working temperature:	+90°C
Minimum working temperature:	+0°C
Media	water - glycol mixture max 50%



Item number	Description	Connection	A	B	C	Kv (m³/h)	Weight (kg)
0804002000	CYCLOMAG DN20	3/4" Female	177	249	100	6.8	1.53
0804002500	CYCLOMAG DN25	1" Female	181	249	112	7.8	1.63
0804002200	CYCLOMAG 22mm	22CU	179	249	118	6.8	1.60
0804002800	CYCLOMAG 28mm	28CU	184	249	120	7.8	1.68

All dimensions in millimeters

Subject to technical changes and corrections without notice

CYCLOMAG AIR

- Connection female 3/4" - 1" or 22-28CU
- Lead free brass
- No flow restrictions
- Self-cleaning filter
- Real hydro cyclonic separation
- Large collector volume
- Automatic Airvent

Application

Heating system.

Construction

Magnetic filter allowing both horizontal and vertical installation. The built-in shut-off valve contributes to a compact design. The filter is easy to clean, and cleaning is possible "even" during operation, thanks to the strong magnet and the drain valve with hose connector.

The cyclone effect makes particles collide with the outer wall, reducing their speed and settling at the bottom, while the magnet captures all iron particles.

A self-cleaning filter at the outlet prevents non-magnetic particles from entering the system.

Automatic airvent located in the center of the handle for purging the system

Markings

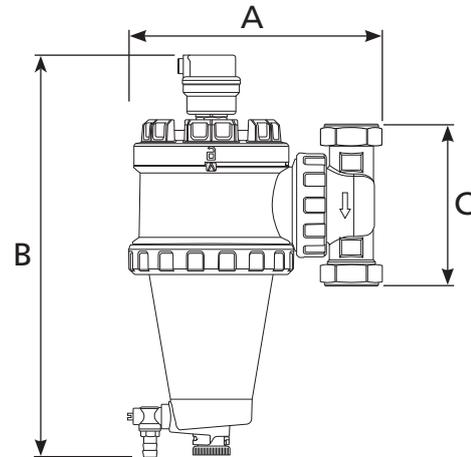
Connection dimension, flow direction, pipe cut indicator, logo, open/closed, magnetic warning label, max temp/pressure, cyclone, filter, magnet, qr-code, made in Sweden.



Technical data

Connection	Lead free brass CW724R
Compression ring	Lead free Brass CW507L
Locking ring	Carbon Steel
Filter housing	Nylon PA66G50
O-rings	EPDM
Magnet	Neodym NdFeB
Drain valve	Lead free brass CW724R
Magnet plug	Lead free brass CW724R
Automatic Airvent	Lead free brass CW724R

Maximum working pressure:	3 bar
Maximum working temperature:	+90°C
Minimum working temperature:	+0°C
Media	water - glycol mixture max 50%



Item number	Description	Connection	A	B	C	Kv (m³/h)	Weight (kg)
0804102000	CYCLOMAG DN20 automatic airvent	3/4" Female	177	291	100	6.8	1.66
0804102500	CYCLOMAG DN25 automatic airvent	1" Female	181	291	112	7.8	1.76
0804102200	CYCLOMAG 22mm automatic airvent	22CU	179	291	118	6.8	1.73
0804102800	CYCLOMAG 28mm automatic airvent	28CU	184	291	120	7.8	1.80

All dimensions in millimeters

Subject to technical changes and corrections without notice



www.impelhydraulics.com

Box 150 02 • 250 15 Helsingborg • Sweden • Gravörgatan 36
Tel: +46 (0)42-37 89 80 • info@impel.se