

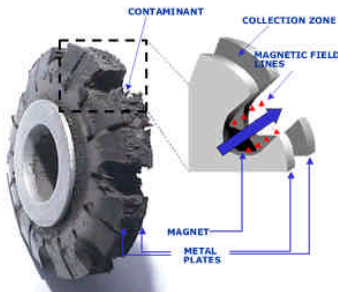
MAGNOM™ Cooling/Hydraulic Filter



Patented Worldwide:
US Patent No. 6,743,365
European Patent: EP1076601
Additional Patents Pending

The Process

The Magnom™ has wide flow channels that allow the process fluid to pass with negligible pressure drop. As the fluid flows through the field effect areas, ferrous particles are drawn into the collection zones. These zones hold significantly more contaminant than a conventional filter- without obstructing fluid flow or risking "wash-off". Therefore, the Magnom™ can operate for very long periods without service and is easily cleaned and re-used as needed.



General Description

Smartflow® Magnom™ Cooling Water Filter removes contaminant particles smaller than one micron from process cooling fluids and hydraulic systems. This includes the smallest and most abrasive particles that are responsible for the destructive chain reaction of wear.

Injection molds often have fine cooling water paths easily blocked by rust and machining debris. This leads to a reduction in cooling efficiency and the potential for significant rework costs and downtime.

Used in injection molding cooling water and hydraulic systems, the Magnom will extend the life of injection molds, manifolds, hoses, pumps, heaters, and chillers that are vulnerable to wear caused by fine ferrous debris.

Benefits

- Reduced hot spots in tooling resulting in better quality molded parts
- Reduced tool and hydraulic system maintenance
- Less fluid/additive consumption
- Negligible pressure drop
- Decreased wear in pumps, heaters and chillers
- Enhanced system performance
- Reduced waste and disposal requirements
- More consistent cycle times

Rust Never Sleeps

In any water system rust creates its own chain reaction of wear. If you remove the rust, you prevent the creation of more.

- Water directly attacks iron and steel surfaces to produce iron oxides (rust).
- Water teams up with acid in the oil to increase corrosive potential in the attack of ferrous and nonferrous metals.
- Rust and corrosion lead to rapid surface deterioration when abrasive particles are present.
- Rust particles are abrasive.
- Abrasion exposes base metal that is more easily corroded in the presence of water and acid.



Cooling Water Filter

MAG-5HT



Wetted Parts and Materials

Connection Size.....1"BSP
Head.....Brass
Bowl.....Nylon 12
Plates.....Stainless Steel or Zinc Plated Steel
Mandrel.....Acetal
C-Clip.....Stainless Steel
O-Ring.....Nitrile
Magnets.....C5/C8 Ferrite

Specifications

Max Working Pressure.....12bar (174psi)
Certified Pressure50bar (725 psi)
Max Temperature176°F (80°C)
Contaminant Capacity (approx.)7oz. (200g)
Dimensions.....7.5" x 5.7" x 4.4"
(190mm x 145mm x 111mm)
Shipping Weight.....5.7 lbs. (2600g)

Hydraulic Fluid Filter

MAG-MODULE



Wetted Parts and Materials

Connection Size.....1"BSP
Housing.....6082 Aluminum
PlatesCR4 Mild Steel
Mandrel.....6082 Aluminum
C-Clip.....Spring Steel
O-Ring.....Nitrile
Magnets.....C5/C8 Ferrite

Specifications

Max Working Pressure.....140bar (2000psi)
Certified Pressure380bar (5510psi)
Max Temperature212°F (100°C)
Contaminant Capacity (approx.) .6.5oz. (185g)
Dimensions5.2" x ø3.5" (132mm x ø90mm)
Shipping Weight.....2.7 lbs. (1230g)

Adapter Bushing

Part No. AB-8BM-8F.....1"BSP(M) x 1"NPT(F)