

Magnetic Scrubber



GLACIER MAGNETIC SCRUBBER SERIES

The Glacier® Series of Magnetic Scrubbers are designed around the most powerful ferromagnetic alloy in the world. This magnet takes its load capacity from the rare-earth element Neodymium, atomic number 60 and symbol Nd. Widely distributed in the earth's crust, most of the world's commercial neodymium is mined in China, and finds use in specialty lasers, compact motors and aircraft and wind turbine generators.

FEATURES

APPLICATION VERSATILITY

- Self-actuated, passive device with virtually no pressure drop
- Operates across wide ranges of fluid viscosity
- Use in all fluids: gases, coolants, lubricants and thermal oils

UNMATCHED PERFORMANCE

- Traps ferromagnetic debris using high-gauss rare earths
- Removes debris left un-trapped by filters
- Controls abrasive sizes causing most adverse effects.

APPLICATION GUIDELINES

TURN RATE

TURN RATE on a fixed system, number of lube volumes per hour through the scrubber, "tph- turns per hr"

- HYDRAULIC SYSTEM — minimum turn rate: 10 tph
- GEARBOX, High Viscosity — minimum turn rate: 6 tph
- ENGINE, Natural Gas or Diesel — minimum turn rate: 6 tph
- GAS Transmission — usually single pass, a custom design.

SERVICED WORLD-WIDE

- Scrubber is sold by distributors on every continent
- Simple and durable design avoids consumables.

THOUGHTFUL DESIGN & BUILD

- Standard in-line product fabricated in Stainless Steel
- Magnetic collectors return to service after a swift wipe by hand or rag
- Service access in standard product includes O-ring seal or Cam-Lok closure.

INSTALLATION

- Standard product rated 300 psi, WYE style in bronze, in-line style in Stainless Steel 304
- In standard version, fluid port is female pipe thread; custom design offers any port preference
- Unit may be mounted at any orientation
- Place in pressure line before components sensitive to contaminants or in lines returning from points of dirt ingress.

STANDARD & OPTIONAL DESIGNS

DESIGN FEATURE	Standard	Custom Design
• Porting	• Female NPT	• customer preference
• Drain	• SAE O-ring	• customer preference
• Service Access	• Magnet Rod w/O-ring or Cam-Lok metal seal	• customer preference
• Housing	• In-Line and WYE configurations	• as required for use in existing equipment
• Materials	• WYE - bronze (with strainer), InLine - SS 304	• customer preference
• Pressure Rating	• Standard product: 500 psi	• customer preference

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STANDARD & OPTIONAL DESIGNS (continued)

System	Standard	Custom Design
• Liquid Flow (advise viscosity)	• Standard product: ½ GPM to 50 gpm	• customer preference
• Gas Flow (advise product)	• no standard product	• customer preference
• Certification	• code design, not stamped	• CE, PED, ASME, CRN
• Temperature	• 300°F	• at request, 600°F maximum
• Magnet Size & Material	• standard length and diameter, SS 316	• various fixed lengths & diameters, SS 316
• Magnet Traits	• neodymium alloy provides holding strength more than 3x that of ceramic magnets	
• More questions?	Please contact a Glacier Distributor or http://www.glacierindustrial.com	

OTHER SUGGESTED OPTIONS – MAGNETIC SCRUBBER

DESIGN FEATURE	Custom OPTIONS other than above
• Porting	Flange, BSP, Metric, weld style
• Service Access	Pipe closures, automatic cleaning, duplex
• Housing	WYE-style, in-tank, Multiple Inlet or Outlet, Bypass Valves, Plug design for pan applications
• Materials	Clear-View (for service indication), SS 316, Monel, other
• Magnet Application	Multiple rods for large cross-sections
• OEM Will-fit options	Custom designs to replace OEM ceramic plugs, and for insertion into media filter housings

PRODUCT PART NUMBERS in Magnetic Scrubber Series

PN XG100 - Glacier IL-200 CL Magnetic Scrubber
PN XG103 - Glacier IL-200 OR Magnetic Scrubber
PN XG108 - Glacier IL-270 CL Magnetic Scrubber
PN XG113 - Glacier IL-540 CL Magnetic Scrubber
PN XG120 - Glacier WY-120 Magnetic Scrubber
PN XG125 - Glacier WY-125 Magnetic Scrubber
PN XG130 - Glacier WY-130 Magnetic Scrubber