

ZERO GRAVITY FILTERS TECHNOLOGY OVERVIEW

MOST ADVANCED • BEST IN CLASS • NON-DISPOSABLE • AUTOMATIC

LIQUID FILTRATION TECHNOLOGY

The Technology is Patented and Field Proven

- Installed at a growing number of major companies – Zero Gravity Filters manufactures a complete line of high performance filtration systems utilizing a patented filtration element
- Our modular design permits an efficient sizing to handle low to unlimited flow rates and precise absolute filtration ratings from 20 to 400 microns.
- The coil is wound with a variable pitch allowing the coil to defy (zero out) gravity and open evenly from top to bottom while “shimmering”, ensuring 100% clean with every automatic backwash



FILTRATION ACTION AND BACKWASH ACTION



Spiral coil made from aerospace grade stainless steel with raised nidges. The height of these nidges is varied in a precise manner to give absolute micron ratings from 20 to 400.

COIL WITH RAISED NIDGES

- The coils are fully interchangeable between micron sizes and are guaranteed for five years
- ZGF offers custom project engineering to meet your needs

PROFITABLE BENEFITS

- Stainless steel filter element **eliminates disposable media** and saves labor
- Uninterrupted flow during backwash - 24/7/365 operation - **no downtime**
- Simplicity through design **lowers** operational and maintenance **costs**
- Stainless Steel construction provides **environmentally friendly** solutions
- Compact design **saves** valuable **floor space**

MAGNETIC SEPARATION TECHNOLOGY

The MAGGIE Technology is Patented and Powerful

- The patented Zero Gravity Maggie System is the industries only in-line high intensity magnetic separator with automatic purging capabilities
- Using an innovative process that shuttles the magnets outside the system flow providing quick and efficient removal of all debris
- Using rare Earth Magnets which generate 9000 Gauss on the tubes surface - 10x more powerful than ceramic magnets
- Fitted in-line, using system pressure, requiring no additional pumps

- Addition of the “Dry Mag” provides a complete turn key solution and efficient Dry Cake disposal without the use of media

ADDITIONAL BENEFITS

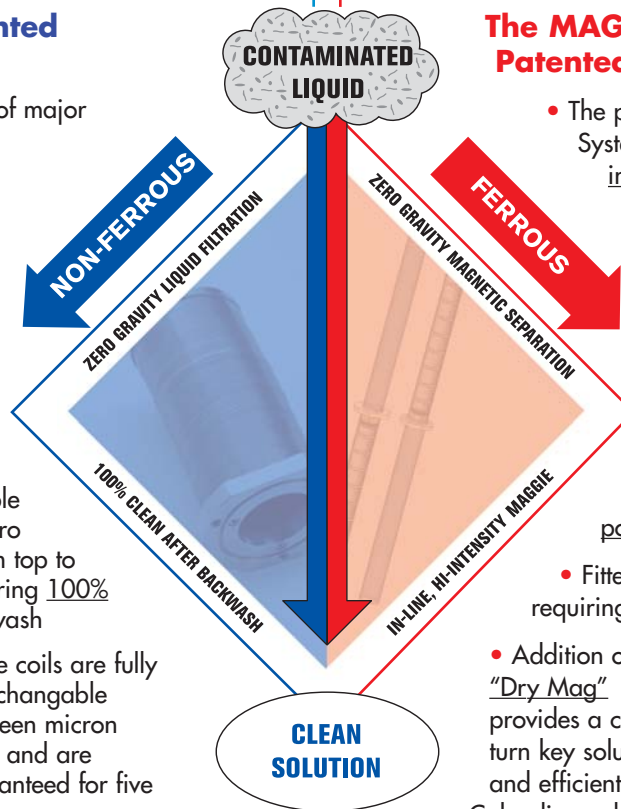
- Patented design and unique flow path provide coolant quality of **1 – 5 microns**
- **Environmentally friendly**
- **No disposable media**, fully automatic, 24/7/365 operation
- **Extends** tool and media life
- **Saves** significant floor space
- **Patented purge process** allows complete removal of all debris without the use of a scrapper



MAGNETIC CORE IN SEPARATION MODE



MAGNETIC CORE IN PURGE MODE



ZERO GRAVITY FILTERS, INC.

OFFERING LIQUID FILTRATION AND MAGNETIC SEPARATION

LIQUID FILTRATION SYSTEM

As standard products, we offer the following:

EASY CLEAN EC-100



1 - 50 gpm

EASY CLEAN 700 SYSTEM 2000



200 - unlimited gpm

PHOENIX FLAGSHIP



40 - 200 gpm

Zero Gravity offers modular designed solutions to handle flow rates from one GPM to unlimited with 20 to 400 micron absolute filtration.

FILTER COMPARISON

Undeclared in Head to Head Trials

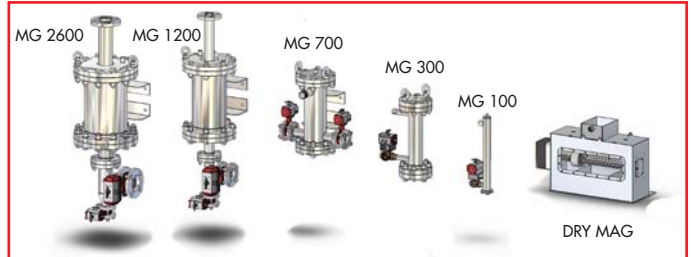
	ZGF	Wire Mesh	Bag Filters
100% Clean each Backwash	YES	NO	NO
Permanent Media	YES	YES	NO
Uninterrupted Flow During Backwash	YES	YES	NO
5 Year Media Guarantee	YES	NO	NO
Unaffected by Tramp Oil	YES	NO	NO
24/7/365 Operation	YES	NO	NO
Maintenance Friendly	YES	NO	NO
Environmentally Friendly	YES	YES	NO
Catastrophic Failure of Media	NO	YES	YES
Strength of Media	HIGH	LOW	LOW
Precision Gap Over Time	YES	NO	NO
Cleans at Low Micron Ratings	YES	NO	NO

APPLICATIONS

- White water
- Vacuum pump seal water
- Cooling towers
- Chilled water circuits
- River water intake
- Analyzer protection
- Process/flume streams
- Aluminum machining
- Process water
- Quench and wash water

MAGNETIC SEPARATION SYSTEM

Zero Gravity offers the "Maggie" family – an in-line, high intensity, automatic purging separator offering modular designed solutions.



Individual Maggie units are available to handle all flow rates from 1 - 250 gpm.

MG100.....up to 12 gpm MG1200.....up to 125 gpm
 MG300.....up to 35 gpm MG2600.....up to 250 gpm
 MG700.....up to 75 gpm

Individual Maggie units can be combined to meet any flow rate and loading condition.



**MAGGIE
6-STATION
MG1200-6**

FERROUS SEPARATION COMPARISON

Undeclared in Head to Head Trials

	ZGF Maggie	Paper Bed	Magnetic Drums
Fitted in-line and fully automatic	YES	NO	NO
1 - 5 micron capture	YES	NO	NO
High intensity rare earth magnets	YES	N/A	NO
No moving parts to wear out	YES	NO	NO
Low maintenance - no serviceable parts	YES	NO	YES
No disposable media	YES	NO	YES
Highest capture efficiency	YES	NO	NO
Most efficient floor space utilization	YES	NO	NO
Modular design - expandability	YES	NO	NO
Environmentally friendly	YES	NO	YES

APPLICATIONS

- Grinding
- Honing
- Machining
- Engine washing
- Parts washing
- Steel Mill wash lines
- Spray nozzle protection
- Coolant recovery

ECONOMICALLY AND ENVIRONMENTALLY FRIENDLY

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