



MAGNUS STACK HP



Anti-rain and wash
intake design.

APPLICATIONS

Industrial reservoirs for hydraulic and gear oils with air flow rates up to 20 gpm. For higher flow units, parallel installation is recommended.

- Hydraulic presses
- Foundries
- Plastic or clay extruders
- Paper industries

MAGNUS HP is a **Stack Series** configuration of Magnus Breathers, designed for reservoirs subject to constant fluid level variations—such as hydraulic press systems, material dump hoppers, extruders, and similar applications. It is also highly recommended for equipment operating in high-humidity environments, including coastal machinery, paper manufacturing equipment, and food processing industries.

The desiccant cartridge uses cobalt-free silica gel, which changes color from orange to green upon moisture saturation.

All Magnus filters feature the Smart-Flow System, which allows airflow only when a pressure differential exists between the reservoir and the environment. Likewise, gases and vapors exiting the reservoir are diverted directly to the atmosphere, bypassing the silica gel. This keeps the desiccant isolated from ambient humidity and vapors, significantly extending the filter's service life.

Military-grade acrylic housing for high impact resistance and UV protection, preventing darkening or yellowing when exposed to outdoor conditions ensuring easy visual inspection.

A metal-threaded connection provides enhanced durability and secure installation.

The interchangeable cartridges offer short-term cost savings with a tool-free, ring-free coupling design for simple, safe operation.

Model	500	750	1000	1200
Tube diameter(mm.)	100	100	100	100
Total diameter (mm)	120	120	120	120
High (mm.)	180	210	240	250
Silica amount(gr.)	500	750	1000	1200
Solid filer(Micras)	3	3	3	3
Maximum flow rate(CFM)	20	20	20	20
Water absorption capacity (cc)	250	350	450	550
Connector	1" Male NPT			



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MAGNUS STACK TITAN

MAGNUS TITAN is an **Stack Series** configuration by Magnus, engineered for highly contaminated industrial environments exposed to moisture, chemicals, and airborne pollutants.

Key Features:

- Desiccant Module :

Cobalt-free silica gel with 550 cc moisture capacity; color shifts from orange to dark green upon saturation.

- Solid Filter Module:

White pressed cellulose media, capturing particles as small as 3 microns.

- Customizable Configuration:

Adapts to specific equipment needs, delivering unmatched market versatility.

- Smart-Flow System:

Enables airflow only during pressure differentials (reservoir vs. environment), isolating the desiccant from ambient humidity and vapors to extend filter life.

- Metal-Threaded Connection:

Ensures durability and secure installation.

- Interchangeable Cartridges:

Reduce costs with a tool-free, coupling-ring-free design for quick, safe replacements.

APPLICATIONS

Industrial reservoirs for hydraulic & gear oils, with airflows up to **20 GPM**. For higher flow rates, **parallel installation** is recommended.

- Hydraulic presses
- Foundries
- Plastic or clay extruders
- Paper/pulp industry

Model	500	750	1000	1200
Tube diameter(mm.)	100	100	100	100
Total diameter (mm)	120	120	120	120
High (mm.)	180	210	240	250
Silica amount(gr.)	500	750	1000	1200
Solid filter(Micras)	3	3	3	3
Maximum flow rate(CFM)	20	20	20	20
Water absorption capacity (cc)	250	350	450	550
Connector	1" Male NPT			



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MAGNUS STACK EXTREME

MAGNUS STACK EXTREME is a Stack Series configuration engineered for highly aggressive environments with heavy dust, airborne particulates, and chemical agents (vapors/gases).

Modular & Customizable Design

Features 3 replaceable cartridges for targeted protection:

1. Desiccant Module

- Cobalt-free silica gel
- Absorbs up to 45% of its weight in moisture
- Available in 500, 750, 1000, or 1200-gram units

2. Activated Carbon Module

- Neutralizes acidic/alkaline vapors & VOCs
- Prevents oil oxidation catalysis
- Standard 500-gram unit

3. Solid Filter Module

- White pressed cellulose media
- Captures particles down to 3 microns
- Single standard size

Advanced Performance Features

- Smart-Flow System: Activates airflow only during pressure differentials (reservoir vs. environment), shielding desiccant from ambient humidity to extend filter life.
- All-Metal Connection: Ensures durable, secure installation in harsh conditions.

Adaptable Solutions

Configure your STACK filter to match specific equipment needs delivering unmatched market versatility. Contact your Magnus representative for tailored recommendations.

Model	500	750	1000	1200
Tube diameter(mm.)	100	100	100	100
Total diameter (mm)	120	120	120	120
High (mm.)	180	210	240	250
Silica amount(gr.)	500	750	1000	1200
Solid filter(Micras)	3	3	3	3
Maximum flow rate(CFM)	20	20	20	20
Water absorption capacity (cc)	250	350	450	550
Connector	1" Male NPT			

APPLICATIONS

Industrial Fluid Reservoirs

Hydraulic oil & gear oil reservoirs with airflow rates **up to 20 GPM**

- Parallel installation recommended for higher flow requirements

Key Industries & Environments

- Leaching plants
- Fuel manufacturing facilities
- Pulp & paper industry
- Chemically aggressive environments (acidic/alkaline vapors, VOCs)



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