GYROSAND Filter

The continuous operating and Self Cleaning Sand Filter for advanced filtration applications

GYROSAND Filter

Technology

Advanced pressure less, open area, Upwards Sand Filtration with integrated Sand bed Cleaning and Regeneration for fully continuous operation, without intermediate backwashing cycles.
The Sand Filtration operates in a circular stainless steel or concrete tank. The special raw water feed design provides uniform Surface distribution of the Inlet stream.
The filtration flow goes upwards through the sand filter bed, clear water is collected in overflow weir in the Topside of the Filter for discharge.
The sand bed and the filtered contaminants (slurry) slide down the Cone to the lower collection chamber, where this sand, water, contaminants mixture is sucked by multiple “Air Lift Mamut Pumps”.
The airlift Mamut pumps use compressed air to move Sand, Water and Slurries through a pipe to the Backwashing Cell which is located on the very top of the sand filter.
High turbulence removes impurities, and clean sand returns to the filter bed, in the Washing Cell isolated sand granules are backwashed in Upstream while falling down on the topside of the sand filter bed.
The Key advantage of this technology is continuous Filtration Operation and Continuous Sand Backwashing at the same Time

Features

- High Efficiency & Continuous Operation, No downtime for back washing, ideal for systems requiring constant water flow.
- Integrated continuous back washing of sand in counter current flow with bubble flotation
- No moving mechanical parts underwater, no mechanical wear and tear on the pump.
- Energy-efficient Continuous Sand Filtration compared to conventional system
- No moving parts, simple sturdy design
- Available with Stainless Steel or Concrete Filter Tank
- Modular System which allows Layout set up with single or multiple units as Sand Filter Farm

Why to buy

- Market Leading Continuous Operating Sand Filter System with more then 250 Installations WW
- High 24/7 Filter Performance with Lowest Maintenance & Energy Consumption
- Capacity up to 65 m³/h through put (flow) per filter unit
- Low Space Requirement and Modular Flexible Layout

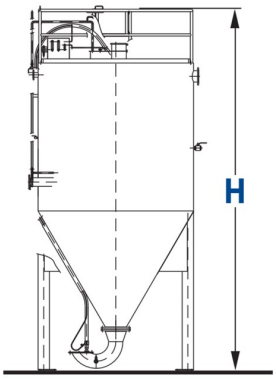
Typical & Proven Process

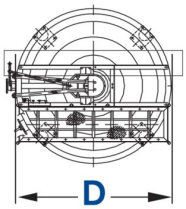
- Surface – / Fresh Water Filtration from River or Lake
- Fine Filtration for PM Shower Waters
- Tertiary Treatment in Effluent Treatment Plants
- Color Removal in Combination with Flocculation

See the following Products as well

- DAF Flotation
- Conus Trenner Spray Filtration
- Sedimentation and Settling Tanks

Specifications





Model	Max. Height **H** **[mm]**	Diameter **D** **[mm]**	Filtration Area **[m^2]**
GY 4	6300	2300	
GY 5	6600	2500	
GY 6	7000	3000	
GY 8	7500	3200	

Custom Size / Dimension available on request

Meri Environmental Solutions GmbH
Bodenseestr. 113
81243 Munich, Germany
Tel. +49 89 59 33 44
info@meri.de

Voith Meri Environmental Solutions, Inc.
2620 E. Glendale Avenue
P.O. Box 1262
Appleton WI 54911-1262, USA
Tel. +1 920 734-8485
info@meriusa.com

Meri Sistemas e Tecnologia Ltda.
R. Friedrich von Voith, 825
São Paulo – SP – 02995-000, Brasil
Tel. +55 11 3944-6644
meribrasil@meribrasil.com.br

Meri Environmental Technology (Kunshan) Co.,Ltd.
No. 665 Jiande Road, Zhangpu Town,
Kunshan City, 215321 Jiangsu Province,
China
Tel. +86 51 28 68 90 834
info@meri.cn

www.meri.de