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HUBER TECHNOLOGY
WASTE WATER Solutions

smartMBR – Water recycling for a better tomorrow

– Easy for Designers
– Easy for Installers
– Easy for Clients
– Quality Stainless Steel Construction

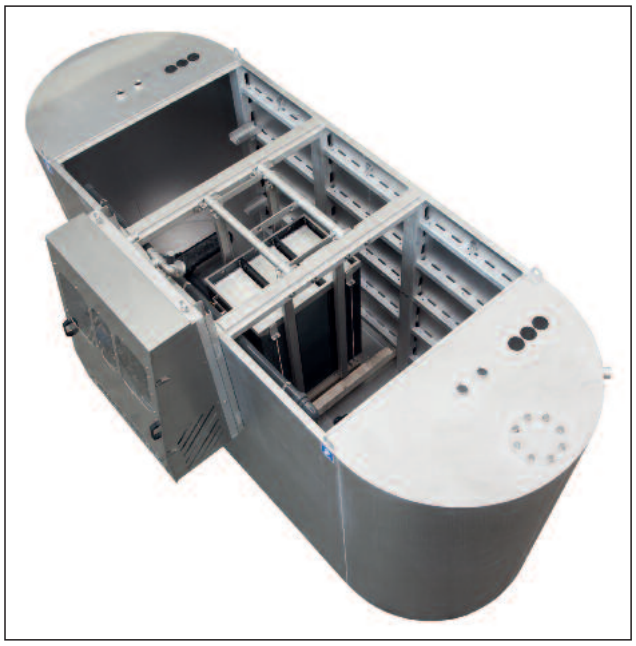
General Description

smartMBR® The HUBER smartMBR is a range of easy to use Membrane Bioreactor systems, intended for use in buildings such as hotels, office blocks, apartment blocks etc.

The systems are designed to treat typical wastewater from these facilities, and produce clean safe water which can be recycled for non-drinking purposes or discharged safely into the environment (subject to relevant local regulations and approvals).

Wastewater treatment equipment must operate reliably in a hostile environment. The HUBER smartMBR systems are high quality German design. They utilise a robust stainless steel tank, with HUBER membrane units.

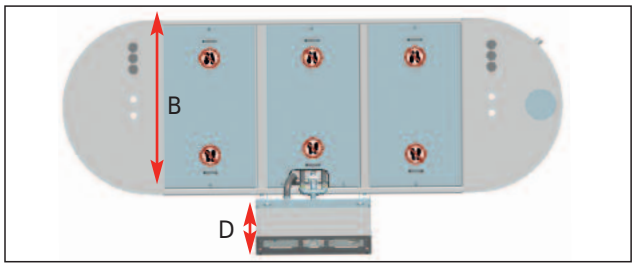
The systems are almost completely pre-assembled in our factory for fast and easy site installation. Cabling for controls etc is pre-installed, and site assembly is limited to simple and fast connection of multi-pin plugs & sockets.

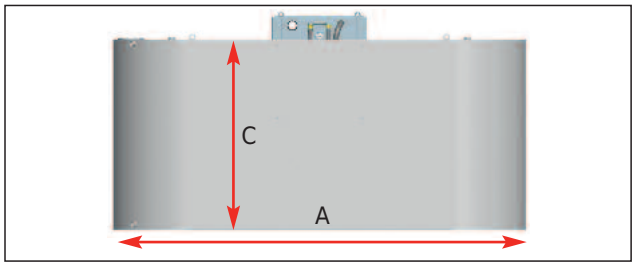


Size 20 model shown. (Lids removed for display purposes).

Capacities, Dimensions

Size	Throughput Daily (litres)	A	B	C	D
10	10,000	3.0 m	1.5 m	1.4 m	0.6 m
15	15,000	4.4 m	1.5 m	1.4 m	0.6 m
20	20,000	4.3 m	1.75 m	2.1 m	0.6 m
30	30,000	5.0 m	2.0 m	2.1 m	0.75 m
50	50,000	8.0 m	2.0 m	2.1 m	0.75 m
75	75,000	10.0 m	2.0 m	2.1 m	0.75 m





Connections are provided as follows

System Size	10	15	20	30	50	75
Top of tank	4 x Ø2” BSP 1 x Ø150” vent	4 x Ø2” BSP 1 x Ø150” vent	4 x Ø2” BSP 1 x Ø150” vent	4 x Ø2” BSP 1 x Ø150” vent	4 x Ø2” BSP 2 x Ø150” vent	4 x Ø2” BSP 2 x Ø150” vent
Side of tank	1 x Ø2” overflow	1 x Ø2” overflow	1 x Ø2” overflow	1 x Ø2” overflow	2 x Ø2” overflow	2 x Ø2” overflow
Bottom of ancillary unit	1 x Ø1” BSP treated water	1 x Ø1” BSP treated water	1 x Ø1” BSP treated water	1 x Ø1” BSP treated water	1 x Ø1” BSP treated water	1 x Ø1” BSP treated water

Personalize Your System

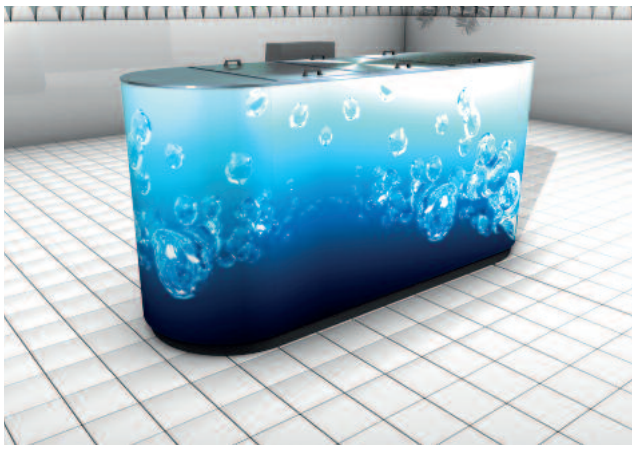
The smartMBR is unique in that it allows the appearance of the units to be personalized with graphics.

This gives you control over what they look like, and you can choose if you want them to stand out, or fade into the background.

Some examples of the possibilities you have are:

- Demonstrate your investment into a more sustainable future by showing your logo or branding, and writing 'water recycling system' or similar on the side of the system.
- Use the space for a useful purpose such as signage, a site map etc.
- Simply use the space for your own branding.
- Decorate them with images of trees, flowers, landscapes etc to introduce some nature into an urban environment.
- Decorate them with modern or classical art images to bring some culture into your site.
- Use some children's artwork from a local school to decorate them, this helps create a bond to the local community.

The graphics we use are heavy duty UV resistant. They are applied here at our factory to ensure a good finish. We require your graphic design with high resolution images in industry standard formats.



Our Recycled Water:

The recycled water from a HUBER smartMBR is typically clean, clear and odour free.

Although it is not drinking quality, it is perfectly suitable for many other uses* such as:

- Flushing toilets
- Irrigation of gardens, golf courses, parks and sports fields
- Construction activities such as dust suppression, concrete making
- Floor and pavement washing

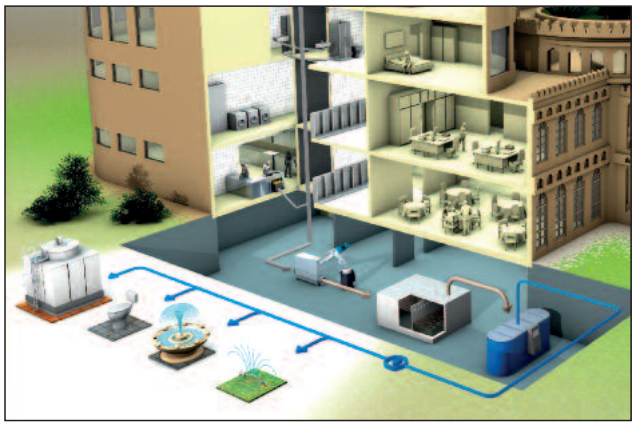
* (Subject to local regulations)

Typical Installation Arrangements:

The smartMBR can be located inside or outside. It simply requires a level concrete base upon which to stand.

Care must be taken to ensure enough space is provided around and above the unit to allow routine maintenance to be carried out.

These details should be discussed with your local HUBER agent.



Controls System

Control functions are provided by an integrated programmable logic controller (PLC). This unit is mounted within the combined electrical and controls panel and no customer adjustment is required.

Run & fault indicator lights are provided on the door of the control panel. An OFF/AUTO selector switch for the membrane pump is provided on the control panel. Operation of this is generally required only during the initial start-up phase of the system. Thereafter all operation is fully automatic.

Alarm outputs are provided via both 230VAC contacts and Voltage Free contacts, to allow interfacing with Building Management Systems. These will provide a common alarm signal output if a fault occurs with the system.

Information about HUBER

HUBER is a globally active company in the field of water, wastewater and sludge treatment. At our headquarters in Berching, Germany, more than 600 employees develop system solutions, manufacture products and manage projects for commercial, industrial & municipal clients.

With more than 30,000 installations worldwide HUBER is one of the leading companies worldwide in this field. HUBER's adapted treatment processes significantly contribute to the solution of our global water problems.

HUBER supports its customers in approximately 60 countries around the world through subsidiaries, offices or representatives. The company has been family owned for more than 175 years and today manufactures a wide range of high quality products for the international markets using the most advanced manufacturing technology and by highly qualified employees.

As a result of continuous further improvement of its products HUBER offers a full range of products for the whole water sector and the worldwide markets. Our systems are then backed up by the HUBER Global Service team to ensure problem-free and reliable operation.

Sustainability in the field of water utilization is a primary concern of HUBER and is reflected in a variety of HUBER Solutions offered for wastewater reuse and recovery of nutrients from wastewater and sludge.

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