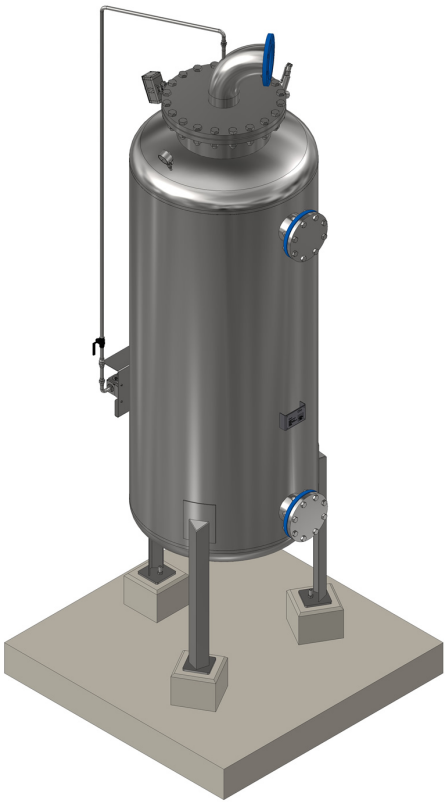
UDS Air Dissolving Reactor (DAF Saturator)



Downloaded & Saved / Printed on 3-11-2026

UDS Air Dissolving Reactor (DAF Saturator)

Technology

The UDS Air Dissolving Reactor is a pressure vessel, where air is dissolved into a nozzle guided water stream under elevated pressure and variating flow velocity.
With the “Top Down Flow” the air is injected at the highest flow velocity for maximum dissolving efficiency and the “Up – Down Flow design” secures the separation of big bubbles and re-suction into the high speed dissolving tube.
When that pressurized, saturated water is released back to atmospheric pressure in the flotation tank, the dissolved air forms a cloud of microbubbles (10–100 µm).
These microbubbles attach to suspended flocs, fats, or oils, and float them to the surface

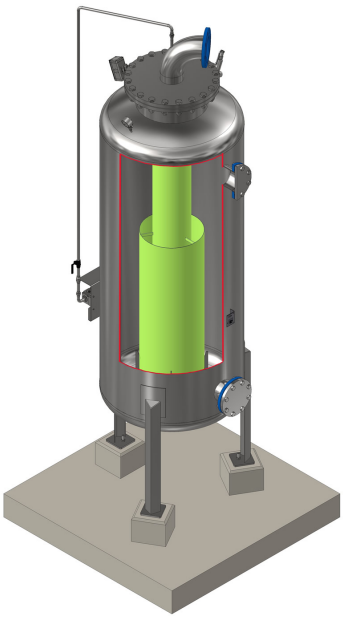
Features

- Compact Reactor Design with high velocity dissolving and big bubble separation.
- Technology secures real formation of microbubbles (10–100 µm)
- Reliable Operation even with high solids content in the UDS Reactor feed (Efficient Air Dissolving even in Partial Stream non clarified raw water)
- Maintenance free operation, no clogging, no replacement of air diffuser candles or similar necessary

Why to buy

- UDS Air Dissolving Reactor provides reliable generation of microbubbles (10–100 µm) at any time in any condition even with high solids loaded water in Recycle or Partial stream flow mode
- Maintenance free operation, no clogging, highest efficiency
- Ability to handle high TSS loading, without efficiency reduction.
- Minimized installation costs.





Downloaded & Saved / Printed on 3-11-2026

Typical & Proven Process

- Micro Bubble generation for the application of Dissolved Air Flotation

See the following Products as well

- DeltaPurge
- Tauro TAL
- Tauro TAM
- Elephant
- LimeTrap
- GyroSand

Downloaded & Saved / Printed on 3-11-2026

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

Note: All product-related data and information in this publication shall serve for information purposes only. They shall not be interpreted or intended to represent any kind of warranty or guarantee. The only legally binding statements are those contained solely within our quotations. Errors and omissions excepted. Technical data are subject to change.

Downloaded & Saved / Printed on 3-11-2026