advantageaustria.org

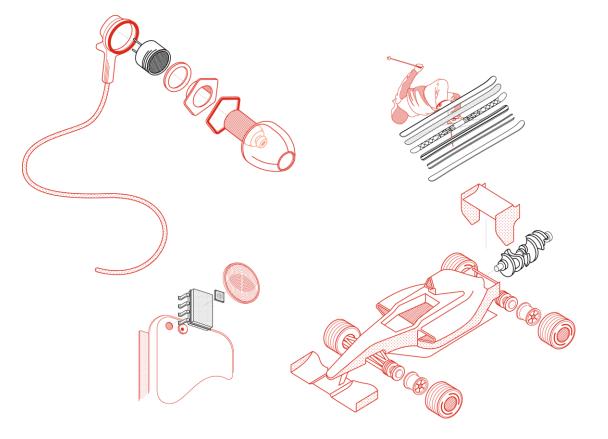


WATER AND WASTE WATER WEBINAR 15 MARCH 2023

- David Bachmann
- ADVANTAGE AUSTRIA Singapore













FRESH VIEW MAGAZINE

0

SELECT INDUSTRY

Service Center

Events

News

Services

Business Guide Austria

Fresh View Magazine



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WATER

The most valuable resource in the world

https://www.advantageaustria.org/gb/zentral/fresh-view-magazin/Fresh View Magazin.en.html#!/en/IfFleuTE/the-potential-of-wastewater-recycling/?in=54MWT8R2



ADVANTAGE AUSTRIA SINGAPORE Austrian Embassy - Commercial Section #24-04/05 Parkview Square, 600 North Bridge Road 188778 Singapore, Singapur T +65 63 96 63 50, 63 96 63 51, 63 96 63 52 E singapore@avantageaustria.org

W wko.at/aussenwirtschaft/sg



Commercial Counsellor David Bachmann

(Connect on LinkedIn)



https://www.linkedin.com/company/advantageaustriasingapore/https://www.linkedin.com/in/david-bachmann-8b7a766/





BRIDGING GLOBAL WATER INNOVATION TO SINGAPORE



Four Embarcadero Center **Suite 1400** San Francisco, CA 94111 USA

Imagine H2O Asia (Limited)

Singapore Water Exchange 84 Toh Guan Road E. #02-08 Singapore 608501

Supported by





















OUR TRACK RECORD

We draw from a decade of experience building solutions with the world's best water entrepreneurs

12

166

\$800M+

Years

Entrepreneurs

Equity capital

Supported

raised

85%

Survival rate

9

Startups

acquired

24

Countries deploying

IH20 startups

1.9M

Pilot funding grants since 2018

\$201M

Equity capital raised by IH2O startups (2021)





OUR GLOBAL REACH

We draw from a decade of experience building solutions with the world's best water entrepreneurs

20

countries in portfolio

23%

global applicants annualy from Europe (avg 1-2 from Austria per year)

4/44

startups in IH2O Asia program since 2019 are EU-headquartered







Since 2019



Startup development

Market access

Pilot support











MARKET ACCESS FROM OUR SINGAPORE HUB

Market-entry advisory

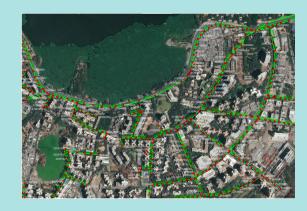
SENTRY (Canada)





Direct pilot funding

Fluid Robotics (India)



Singapore ecosystem

Hydroquo+ (Bangladesh)







OUR TECH ADOPTERS NETWORK

































































HOW AUSTRIAN COMPANIES CAN BENEFIT?

Startups

Register with us Apply to an innovation program Connect with us at major industry events

End-users / Implementing Partners

Join our Tech Adopters Network Join us at Demo Day 2023

Investors

Join our mailing list for investment opportunities
Join us at Demo Day 2023





THANK YOU



Imagine H2O Asia Supporters



























FACTS

Increases water scarcity

Unpredictable weather phenomenons

Cut from water grid when shortages

Growing risk for communities,
operations of companies and the wellbeing of people

Rising temperatures result in higher humidity



A MIX OF SOURCES

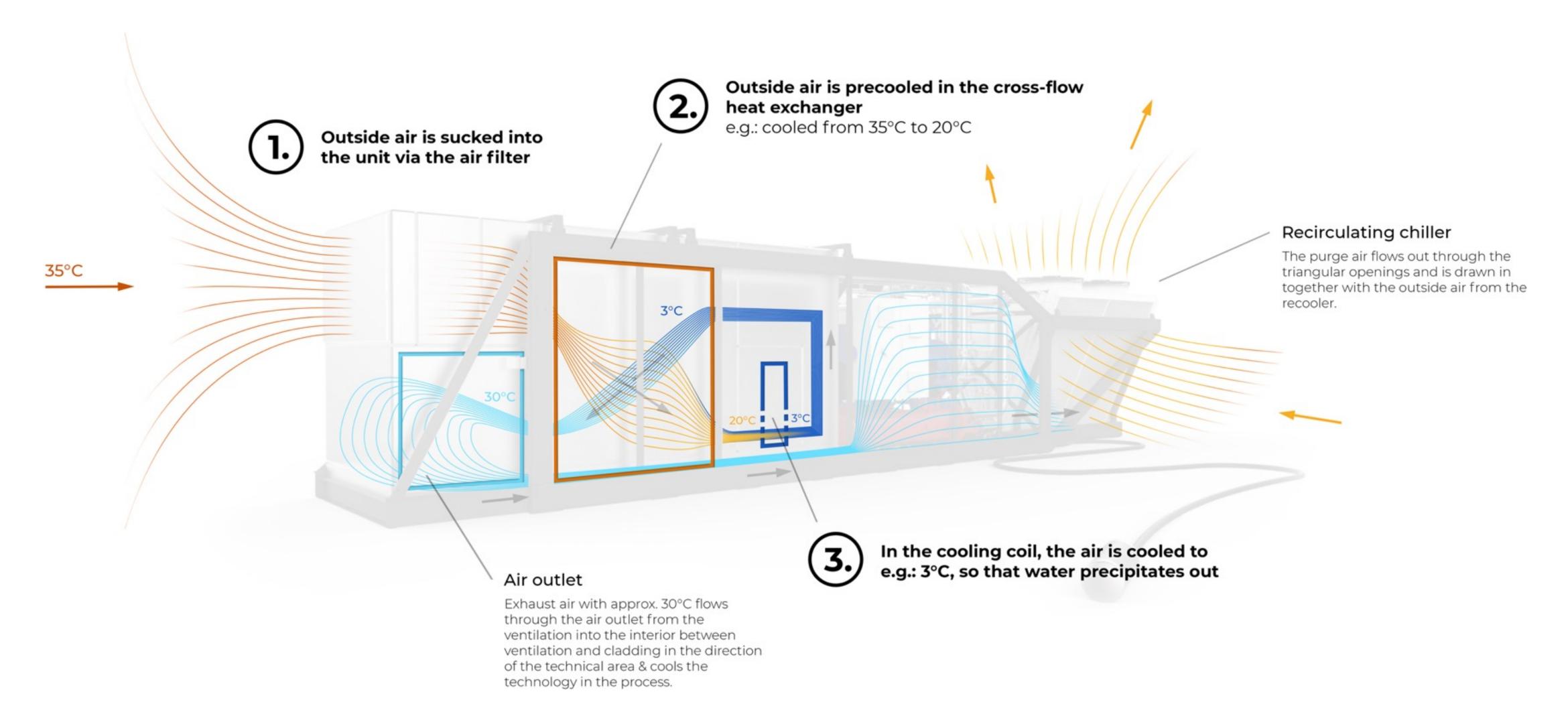
WILL BE NEEDED

IN FUTURE

WATER
FROM
AIR
IS
ONE



TECHNOLOGY





PHANTOR

MOBILE WATER GIANT

PHANTOR 10.000

10.000l / 24h drinking water

40" size (12 x 2,3 x 2,6m), 14,3t

Power supply: max 120 kW (400V, 50Hz)

Water treatment (filter, UV, mineralization)

Integrated water tank: 10001

Weather station & control technology

PHANTOR 6.000

6.000l / 24h drinking water

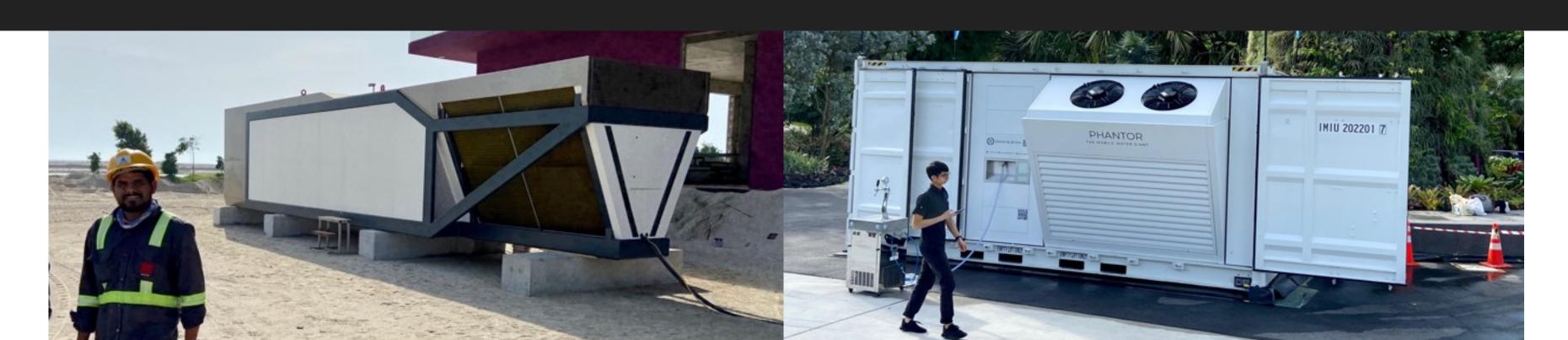
20" container (6 x 2,4 x 2,9m), 11t

Power supply: max 100 kW (400V, 50Hz)

Water treatment (filter, UV, mineralization)

Integrated water tank: 6001

Control technology





DIFFERENTIATORS

Highest energy efficiency process due to innovative air circulation and cooling

Highest water output on the market with lowest energy input (approx. 250Wh per liter of water)

10.000 I /day







AWARD WINNING **TECHNOLOGY**

THE PHANTOR













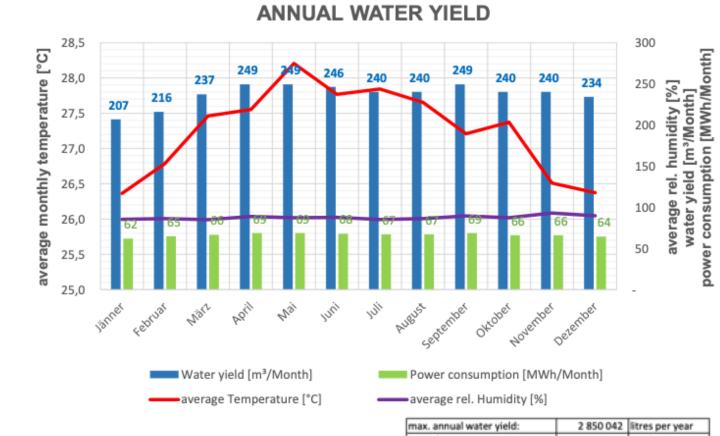


IN SINGAPORE 2022

SUSTAINABLE & SELF-SUFFICIENT
DRINKING WATER
FOR COMMUNITIES & BUILDINGS



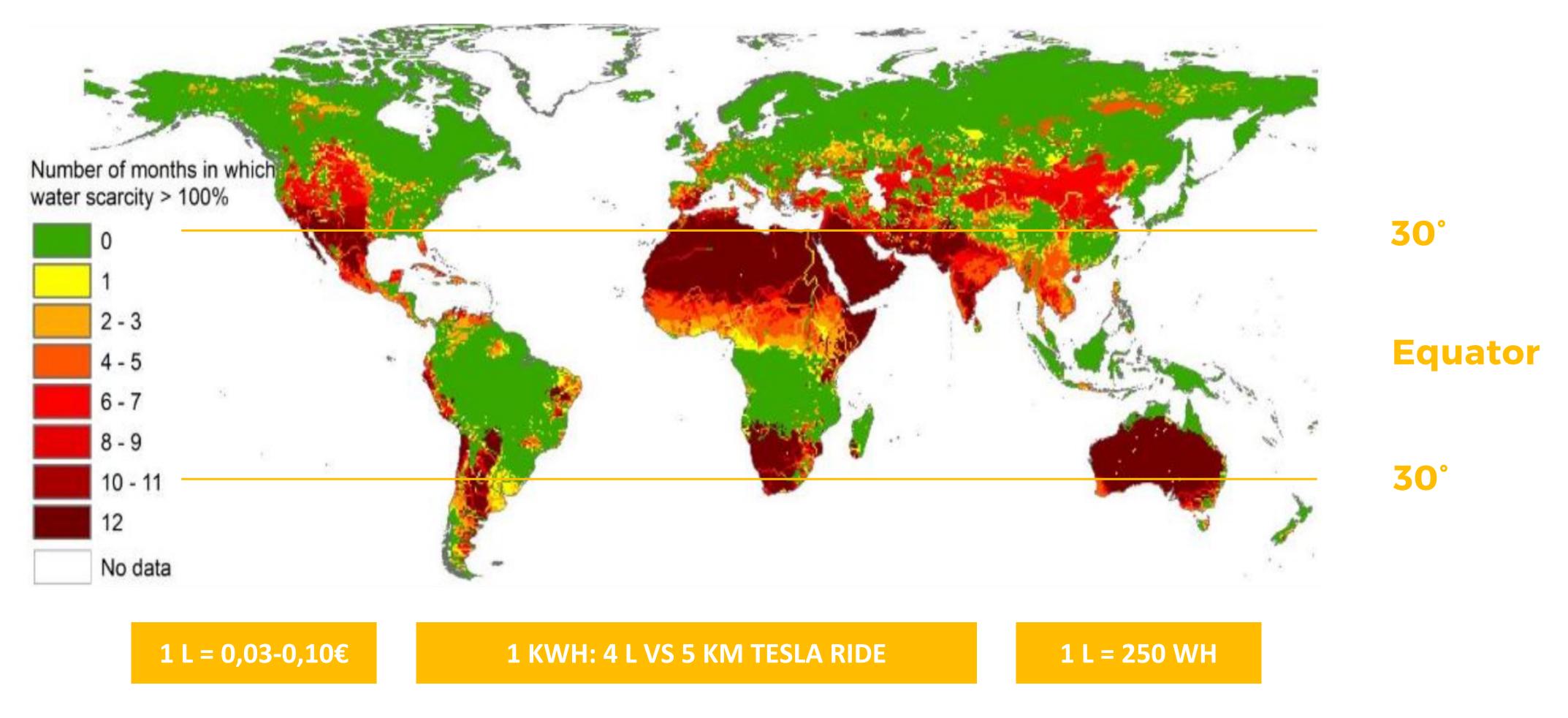








FOCUS







POSITIVE SIDE EFFECTS

Increase your water security

Self-sufficient drinking water source

No micro-plastics in body

No fracking

Not more energy
necessary than needed
for the production of
plastic bottles

Savings of 39 tons of plastic waste and 38 tons of oil every year

self-sufficient,
alternative, clean and
safe drinking water
technology









Lothar.Stadler@imhotep.industries +43 660 1132440

www.imhotep.industries





Aquarden Technologies

Aquarden Technologies Pte. Ltd. For City of Austria | SWA Version: 2023-03-14 Preliminary Slide Deck



Who are we?

Sustainable Solutions for Problematic Wastestreams

- Innovation & Design
- 10 specialists in Denmark
- Consultancy, Design, Build, Integrate







SuperOx®

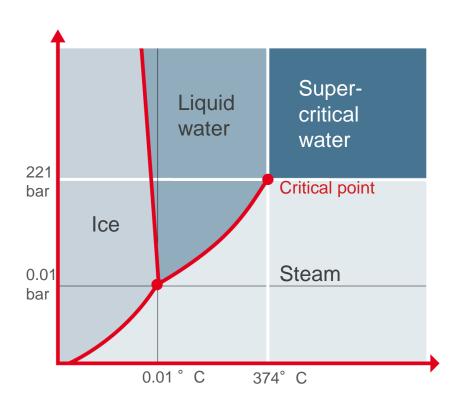
- Supercritical Water Oxidation SCWO
- Total destruction of toxic organics
- No toxic emissions
- Reuse of resources
- Launched in 2015







What is Supercritical Water?



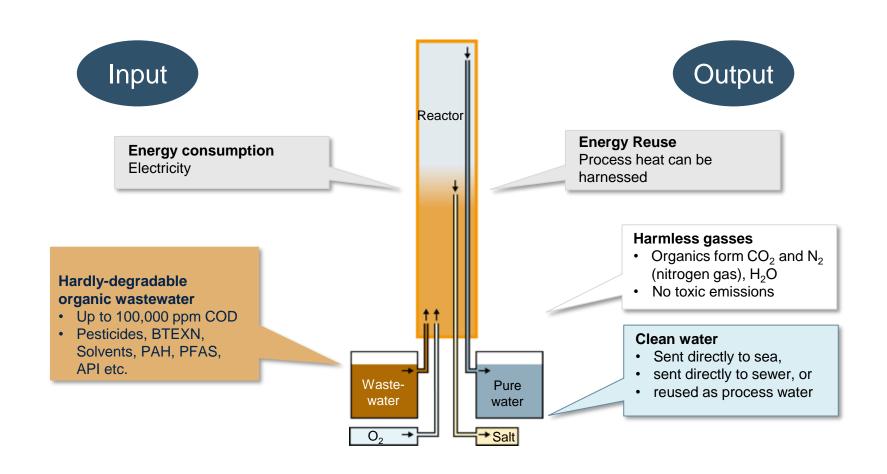


- Organics dissolve, salts precipitate
- Total destruction of hardly degradable organics





How SCWO Works







EU-award for the Environment 2016



The European Business Award for the Environment is given to a new and innovative product that significantly contributes to sustainable development and innovation.













- Partners with ArianeGroup since 2017
- SCWO Destruction
 - Energetic materials
 - Chemical Warfare Agents
 - PFAS
- Full-scale for industrial use









PFAS

- AFFF
- GAC / IX Resins
- Foam Fractionation
- Sludge



Chemical Industry

- Solvents
- Polyester wastewater

Applications





Defense

- Explosives
- Warfare agents
- PFAS



Oil & Gas

- Spent caustics
- H₂S scavengers



The New York Times

THE STRAITS TIMES

WORLD

Rainwater unsafe to drink due to chemicals: Study



The New Hork Times

E.P.A. to Designate PFAS, or 'Forever Chemicals,' as Hazardous

A proposed rule would require companies to report spills of two toxic chemicals that have been linked to cancer.









PFAS chemicals have been found in a range of products including carpets, waterproof clothing and food packaging, including some microwave popcorn bags. Alamy



PFAS: The 'Forever Chemicals' You Couldn't Escape if You Tried

Virtually indestructible, these artificial compounds are used in fast-food packaging and countless household items, but they have been found as far away as virgin forests.







OPICS → M/

MAGAZINE - COLLECTIONS -

VIDEOS JOBS



PERSISTENT POLLUTANTS

PFAS destruction technologies are starting to emerge

Supercritical water oxidation spotlighted at congressional hearing by **Cheryl Hogue**

December 29, 2021 | A version of this story appeared in Volume 100, Issue 1

In a recently published case study, researchers from the US Environmental Protection Agency examined supercritical water oxidation technology from Battelle, **374Water of Durham, North Carolina**, and Denmark's **Aquarden Technologies**. The researchers specifically looked at the potential of the technologies to destroy PFAS in water-diluted firefighting foams containing perfluorooctanoic acid (PFOA) and perfluorooctanesulfonic acid (PFOS) (*J. Environ. Eng.* 2021, DOI: **10.1061/(ASCE)EE.1943-7870.0001957**). They found that supercritical water oxidation technologies could destroy more than 99% of the PFAS run through them. The EPA team says more information is needed on operation and maintenance costs of supercritical water oxidation and on the technology's potential for emitting PFAS into air or creating hazardous by-products.

While the congressional hearing gave attention only to supercritical water oxidation, this method is just one of the processes researchers are developing for PFAS destruction.

"Thermal technologies in general are one of the most promising approaches for actually achieving PFAS destruction," **Timothy J. Strathmann, a professor of civil and environmental engineering at the Colorado School of Mines**, tells C&EN. Thermal technologies include incineration and pyrolysis as well as supercritical or subcritical water with oxidation, he says.



Korsør Fire School: Flocculation + MF + GAC + IXR + SCWO

900.000 ng/l

Kommentar	*2	
Parameter		
PFAS-forbindelser, 21 stoffer		
PFHpA	<1.0	
PFOA	1.1	
PFNA	<1.0	
PFBS	2.1	
PFHxS	18	
PFOS	870	
PFDS	<10	
PFOSA	2.5	
PFHxA	<5.0	
PFBA	<1.0	
PFHpS	<10	
PFUnDa	<10	
PFTeDa/PFTA	<10	
PFPeA	<5.0	
PFDA	<1.0	
FTS 6:2	1.2	
PFDoDa	<10	
PFTrDa	<10	
NEtFOSAA	<10	
NMeFOSAA	<10	
8:2 FTS	<1.0	



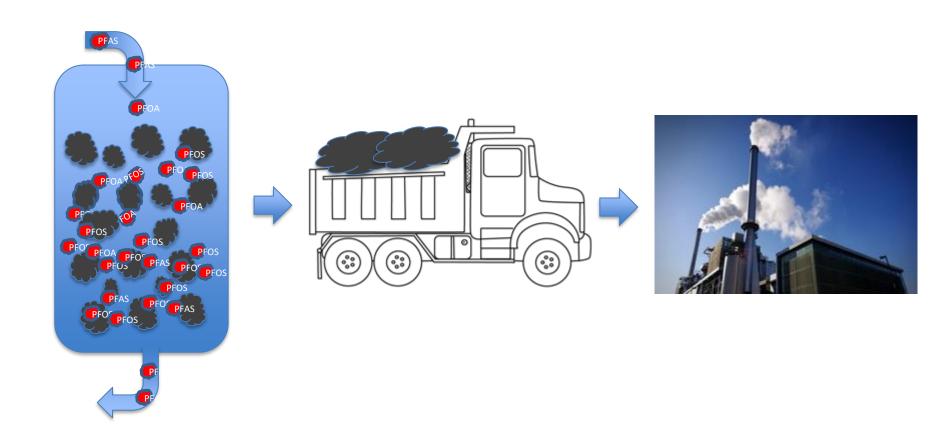




Kommentar	*1	
Parameter		
PFAS-forbindelser, 21 stoffer		
PFHpA	<0.0010	
PFOA	<0.0010	
PFNA	<0.0010	
PFBS	<0.0010	
PFHxS	<0.0010	
PFOS	<0.0010	
PFDS	<0.010	
PFOSA	<0.0010	
PFHxA	<0.0050	
PFBA	<0.0010	
PFHpS	<0.010	
PFUnDa	<0.010	
PFTeDa/PFTA	<0.010	
PFPeA	<0.0050	
PFDA	<0.0010	
FTS 6:2	<0.0010	
PFDoDa	<0.010	
PFTrDa	<0.010	
NEtFOSAA	<0.010	
NMeFOSAA	<0.010	
8:2 FTS	<0.010	



Alternative to Incineration







www.aquarden.com
Zhuohan Cai
zh@aquarden.com
Aquarden Pte. Ltd.
Singapore Water Exchange





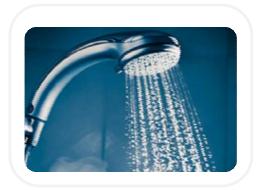




Water Efficiency & Water Quality

BECAUSE OUR WATER IS VALUABLE.

Webinar Singapore – Water Management, March 15th, 2023







Rabmer Group

Innovation based on tradition



- International business group with headquarter in Altenberg/Linz, Austria
- A family owned company in 2nd generation, founded in 1963
- 100% shareholder and CEO: Ulrike Rabmer-Koller
- Activities: Construction, Real Estate, City Services, Environmental Technologies
- Focus on water and energy-efficiency in the business segment "environmental technologies"











Environmental Technologies and Services



- Water- and Energy Saver for Showers & Basins
- Corrosion and Lime Protection
- Energy from Waste Water for Heating and Cooling
- Energy Optimizing of Ventilation Systems
- Water Treatment and Purification
- Rehabilitation of Pipes and Manholes













Water and Energy Saver for Showers

















Common Eco showers or faucets have one big problem:

LESS WATER -> LESS PRESSURE -> LONGER SHOWER DURATION

Savings from reduced water flow are partially lost through longer shower durations







WATERSAVER FOR SHOWERS BASED ON VENTOURI TECHNOLOGY



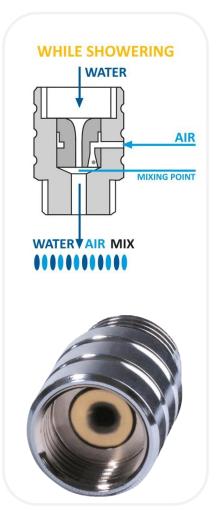


- An Austrian product which reduces the water and energy consumption in showers by approx. 40% without any noticeable loss of comfort
- The only water saving system on the market, which keeps the full showering comfort
- Water flow rates of 5 l/min with perfect comfort are possible in combination with adequate shower heads





- 40% water- and energy reduction without loss of comfort – how is this possible?
 - Reduction and acceleration of the water by the constriction of the diameter
 - Creation of a negative pressure
 - Air contribution through bypass
 - Enlargement of the volume through the enriched air-water mixture which results in a high showering comfort







- ⇒ TÜV Austria certificate
 - Certified as an accepted measure according to Energy Efficiency Act
- Hygienic type examination Dr.med. Daxböck
 - Suitability for use in health care facilities from a hygienic point of view
- Austrian eco-label
 - Tested for the function and use of sustainable materials
 - According to European hygienic standards (KTW, DVGW, DIN EN etc.)





Application areas



- Hotels and campsites
- Schools and sport facilities
- Sanitary facilities in industrial and commercial enterprises
- Barracks
- Hospitals
- Retirement and student homes
- Bathing establishments and spas
- Cruise ships
- Single and multi-family houses



References



Some References

- Santos Group, Mallorca
- HM Hotels Group, Mallorca
- Dalata Group, Irland
- Falkensteiner Group, Austria
- Hilton Vienna Park, Austria
- Hotel Palais Hansen Kempinski, Vienna
- Johannesbad Gruppe, Bad Füssing
- Stanglwirt Bio- und Wellnessresort, Going
- Biohotel Rupertus, Leogang
- Naturhotel Forsthofgut, Leogang
- Krallerhof, Leogang
- Alpen-Karawanserai, Hinterglemm
- Natur- und Wellnesshotel Höflehner, Schladming
- Stock Resort, Finkenberg
- Hotel Ambassador, Vienna
- Hotel Zeitgeist, Vienna
- Sims Hotels, Vienna
- Eurothermenresort, Bad Schallerbach
- Vortuna Gesundheitsresort, Bad Leonfelden
- Lambrechterhof, Steiermark
- Gesundheitszentrum Am Kokl, St. Georgen

- Hotel Pfösl, Italy
- Biohotel Schloss Wartegg, Switzerland
- Familienhotel Marco Polo, Hochkönig
- Hotel & Resort Dachsteinkönig, Gosau
- Wellnesshotel Klosterbräu, Tirol
- Schloss Pichlarn, Steiermark
- Das Opernring, Vienna
- Harry's Home, Linz
- Pflegeheim DomiZiel, St. Pölten
- Landessportentrum NÖ, St. Pölten
- Hotel Group Walchhofer, Zauchensee
- Johannes Kepler Studenthome, Linz
- Studenthome Hagenberg
- Home4Students
- Fitnessstudios Injoy, OÖ
- Bildungsheim St. Magdalena, Linz
- Energie Steiermark
- EWW, Wels
- Energie AG OÖ
- Voestalpine AG, Linz



Sustainable Corrosion- & Limescale Protection for households and buildings













Lime Protection – Common solutions on the market



- Salt based Ion Exchangers
 - Technology
 - Swap calcium and magnesium ions for sodium ions
 - Reduce total hardness to approx. 8°dH
 - Advantages
 - State of the art
 - Less lime in the water
 - Protectsion of household appliances
 - Protection of sanitary pipes
 - Disadvantages
 - High water consumption for reactivation
 - Create corrosion problems in metallic pipes
 - Change water taste
 - Large space requirement
 - Ongoing maintenance and operating costs



AQUABION®

Corrosion and limescale protection



- Proven and reliable zinc sacrificial anode system protects against limescale and corrosion without altering the water from its original form.
 - prevents pipe damage
 - protects water-bearing devices and systems
 - reduces the cleaning effort
 - leaves the good taste of the water
 - reduces energy costs, because less limescale in the pipes means less energy consumption for hot water production
 - Reduces the risk of germs and legionella formation





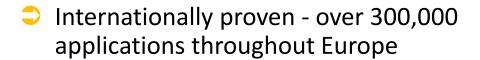
AQUABION®

Corrosion and limescale protection



- Proven function: Limescale molecules are modified by the release of zinc ions into the water and are therefore "non-adherent"
- Simple installation with no ongoing operating costs















AQUABION®

Corrosion and limescale protection for natural water



Some samples of B2B clients in Austria



























Rabmer GreenTech GmbH

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A-4203 Altenberg, Austria

T +43 7230 7213-740

F +43 7230 7213-731

E greentech@rabmer.at

W www.rabmer.at





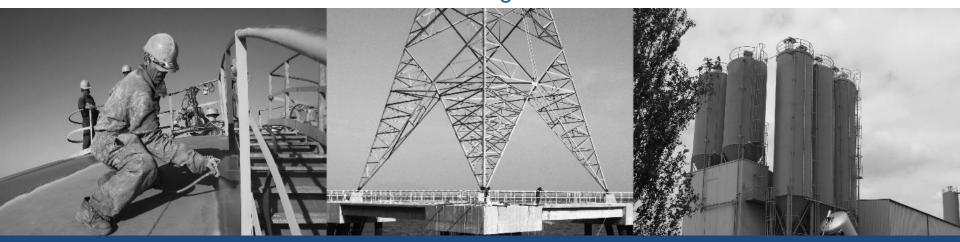




ZINGAMETALL

"asset integrity for eternity"

www.zinga.eu





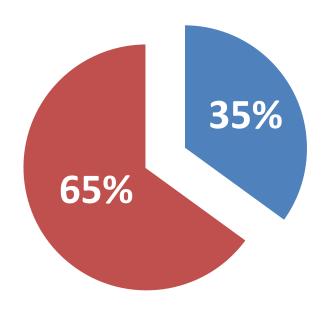
"How corrosion protection saves millions"





Corrosion in numbers

 65% of all steel produced is used to replace corroded steel, a completely unnecessary waste of natural resources.



New steel works

Replacement of old steel



Corrosion in numbers

- 3 to 4% of a country's GDP is spent replacing old, corroded steel

- USA: \$ 240 billion

- Singapore: S\$ 7.9 billion

Austria: € 20.2 billion

- Iron and steel production is one of the <u>largest CO2 emitters of any</u> <u>industry</u>. Steel production accounts for **27**% of the CO2 emissions of the global manufacturing sector
- Corroded steel replacement = **3,5**% of global CO2 emissions.
 - This will become **9%** by 2030!



How can this be stopped?



Company presentation





- Manufacturer of Zinga, a zinc coating system. (film galvanizing)
- Global references
- Presence in +120 countries through a network of distributors
- Founded late 1970's in Belgium























How can Zinga help?

14 days in water immersion

Active, cathodic, galvanic protection

- → Very high zinc content (96%)
- Passive barrier protection
 - → Zinc salts on top of surface



ZINGA is NOT a paint:

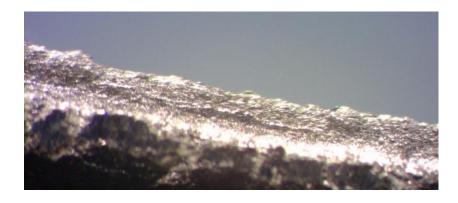
- Does not form a closed film
- Will not crack
- Will not flake/peel off



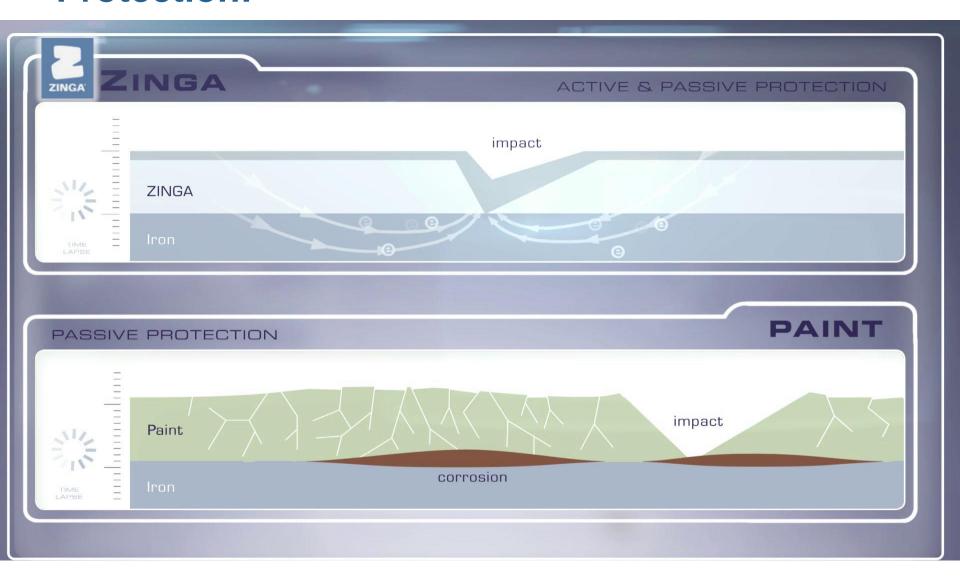
Untreated



Treated except 2cm strip



How to properly prevent corrosion? Cathodic Protection!





What is the optimal solution?

- Proper coating of steel with Zinga
 - Zinga provides warranties of up to 25 years at 120µm DFT
 - Zinc layer can easily be recharged for another 25 years of protection
 - Reloading Zinga results in an **eternal** life of steel = no more waste!
 - No annual maintenance cost after application
 - 100% safe in contact with potable water
 - Touch-dry in 10 minutes
 - -40°C to +120°C working range with 150°C peaks
 - Does not contain toxic or carcinogenic solvents (Green Label Singapore)
 - Unlimited shelf life











Energy lives here™























Gugler Water Turbines (Austria)

Since 2012 & ongoing

Different steel structures for water turbines & pipelines

Parts in contact with air:

ZINGA 1 x 60 μm DFT + Zingalufer 1 x 80 μm DFT + Zingafinish 1 x 100 μm DFT

Parts in contact with water:

Aquazinga 1 x 80 μm DFT + Zingaceram HS 2 x 120 μm DFT





Singapore

 Land Transport Authority (Singapore)

Since 1998 km's of guard rails Reduction in road closures -> substantial cost-saving for LTA ZINGA 2 x 40 µm DFT





Lighting Mast (Singapore)
Since 2002
At PSA (Port of Singapore Authority)
30 lighting masts,45 metres in height
ZINGA 2 x 60 μm DFT
Inspection in 2018 : in perfect condition



Railways



Maglev (China)
 In 2001
 ZINGA was used on sensitive parts
 (e.g. steel functional units)
 ZINGA 2 x 40 µm DFT

Dorbras (Brazil)
 In 1999
 45.000 pieces
 ZINGA 1 x 80 µm DFT





Storage tanks

Quartes (Belgium)

In 1980

On previously hot-dipped storage tanks

4 silos, 20 m in height, 4 m in diameter

4000 m²

ZINGA 2 x 60 µm DFT

30 years after application only minor repairs

were required





 Braithwaite Potable Water Tanks (UK)

Application in 2007
On the inside of 9 storage tanks for potable water
ZINGA 2 x 60 µm DFT



Let's not waste any more natural resources unnecessarily



Contact details:

- Austria DKS Technik GmbH <u>www.zinga.at</u>
- Singapore
 Zingametall Singapore Pte. Ltd.
 www.zinga.com.sg

Olivier Vijverman Vice-President Asia-Pacific olivier@zinga.be +6591322446





MwStop[®] CHECK VALVE

THE INTELLIGENT BACK FLOW PREVENTION DEVICE UP TO DN1800







COMPANY HISTORY

The optimization of hydrotechnical systems, their inspection, monitoring, positioning and cleaning has been our business field since 1985.

We develop specialized services, equipment and measuring systems and understand ourselves as a technology leader for special problems.

founding year of MTA Messtechnik GmbH: 2002

owner and managing director: Marko Taferner

 2005 foundation of the European Pipeline Center (Competence Centre)

2010 development of WCS – Water Control Systems[®]

2014 development of MTA Pipe-Inspector®
 Carinthian Innovation and Research Award 2014







MwStop[®] Check Valve

MwStop[®] check valve can be easy installed within a few minutes in practically all types of pipes. Immediat protection against flood, foreign substances and annoying smells.

The wide range of MwStop[®] check valves ensures the availability of a suitable model for any kind of application as back-flow protection in sewerage pipes, rain water pipes or the emerging of odors out of miscellaneous waste water systems.





MwStop[®] Check Valve

SCOPE OF APPLICATION

- main sewer
- sewers
- rainwater pipes
- clarifier basin

SIZES UP TO DN1800

MwStop[®] grant efficient protection against water back-flow, flooding and annoying odors.







MwStop[®] APPLICATIONS

There are numerous causes for back-flow.

Heavy rainfall, pipe blockage, operational breakdown of the pumping station, water back-flow from water bodies or other overload of the sewage system might exceed the capacity of the sewage system.

MwStop[®] check valve protects against water back-flow, intrution of water and foreign substances into buildings as well as into sewage and rainwater pipes.

Moreover, MwStop[®] check valve is an efficient protection against inconvenient smells.





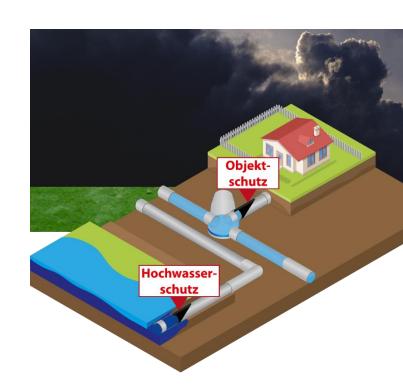
MwStop[®] APPLICATIONS

BUILDING PROTECTION

- water back-flow protection
- water back-flow protection against underground water

FLOOD PROTECTION

- water back-flow protection
- adjusting of waste water
- triggering of flush cleaning







MwStop[®] FUNCTIONALITY

POSITION 1 – SHUT DOWN PHASE - the elastic membrane of the MwStop $^{\mathbb{R}}$ check valve seals the pipe off tightly until the backlog of the outgoing flow reaches the trigger pressure.

POSITION 2 – FLUSHING PHASE - lifts the elastic membrane up and the flush of the backlog water cleans the pipe and removes possible deposits.

POSITION 3 – BACKLOG PHASE - water who pushes the membrane outwards against the wall of the pipe sealing it off effectively against the intrusion of the incoming water. The back-log height varies according to the MwStop[®] check valve model (maximum 8.000 mm).





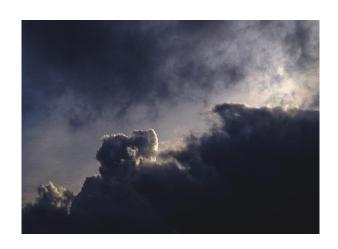
MwStop[®] APPLICATIONS

MwStop[®] - FEATURES

- backflow prevention
- odor control
- flushing

MwStop® - ADVANTAGES

- extremely low pressure drop
- without moving parts
- simplest installation
- long lifetime
- applicable for all pipe materials & sizes



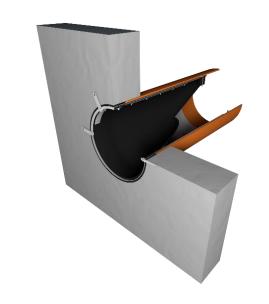






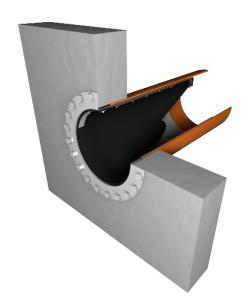
MwStop[®] INSTALLATION

MwStop® valves can be installed in various ways in any position from horizontal to vertical, full functionality is given.













MwStop[®] BACKWATER HEIGHTS

MAXIMUM BACK-FLOW PROTECTION

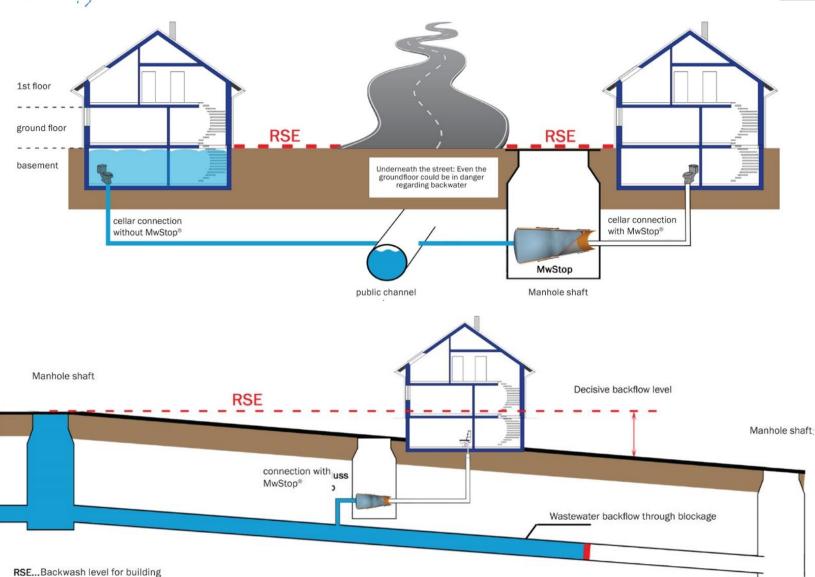
The MwStop® standard models provide backflow protection up to a height of 5.000 mm water column.

The MwStop® soft models provide a backflow protection up to a height of 3.000 mm water column.

Special models up to a height of 8.000mm water column can be produced on demand.











MwStop[®] VERSIONS

MwStop ® SIZES FOR ALL COMMON PIPE INSIDE DIAMETER

MwStop[®] check valves are available up to 1800. Practically for all pipe dimensions and pipe materials. Special sizes on request.

MwStop® MATERIALS CASING

The standard casing of the MwStop[®] consists of stainless steel 1.4404. For sizes up to DN200 and mounting as part of a pipe, PVC/PE can be used as an alternatively offered.

MEMBRANE

The MwStop® membrane is manufactured up to DN1800 in EPDM with different shore (standard & soft membrane).





MwStop[®] STANDARD FOR Gradient ≥2%

To ensure the full functionality of the MwStop[®] a minimum gradient of 2% is required in the standard version.

Under this precondition the EPDM membrane of the MwStop[®] opens at a certain water pressure (water flow) and closes if this pressure falls below the normal level.

The MwStop[®] remains closed until the pressure of the backlog water reaches the trigger point. At the trigger point it opens up all of a sudden creating the controlled flushing process.



MwStop® Standard



MwStop® Short





MwStop[®] SOFT FOR LOW GRADIENT

For installation in pipes with a gradient of less then 2% (minimum 1% is required) the membrane of the MwStop[®] consists of a more flexible material.

This ensures that even in these situations the flushing process removes the waste water inclusive eventual deposits.



MwStop® Flange front



MwStop® Flange back





DN225 - flood protection & object protection









DN700 - Flood protection - object protection - Germany









DN900 - flood protection river - Austria









DN1000 - Backwater protection - Austria









MwStop[®] Home Series

Small check valves for domestic installations e.g DN32 or DN40



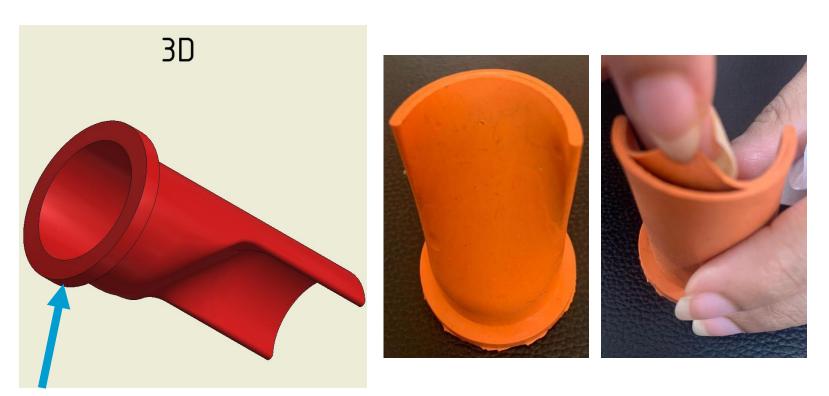
- For standard pipelines in buildings
- Water flows off without problems (no loss of free pipe diameter)
- Membrane closes automatically and thus prevents unpleasant odours from the waste water pipe
- Special solution for holiday residences and seasonal guest accommodations





MwStop[®] Home Series

Small check valves for domestic installations e.g DN32 or DN40



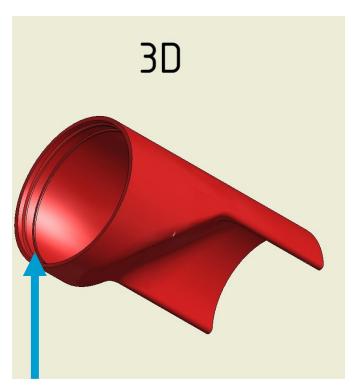
Flange serves as fixation in the pipe and at the same time as sealing ring





MwStop[®] Home Series

Medium check valves for domestic installations e.g DN100 or DN150



- For standard waste water pipelines in buildings
- Water flows off without problems (no loss of free pipe diameter)
- Membrane closes automatically and thus prevents unpleasant odours from the waste water pipe
- Special solution for holiday residences and seasonal guest accommodations

Mounting in the pipe takes place by means of an expanding ring





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