



EDM



be clean.
stay green

www.easymetal.com

easymetal

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„Innovation is not just a question of ideas but an important step in the implementation process.

For this purpose, it is essential to have a team that consistently covers new ground with a lot of dedication and heart.

We stand for innovation, for change and still preserve our values such as reliability, fairness and transparency.

With the trust of our customers, we grow and thus accept the challenge of the future.“



„Technology leader“

We shape the future.

Since our foundation, we have been investing in promising research & development work to thus secure our lead.

In the foreground are tailor-made industry technologies, which often are developed in close cooperation with our customers. Many years of experience of our customers as well as economic aspects of each industry are the basis of these Technologies.

The company easymetal is represented on an international platform about more than 50 partners in 26 states. Leading companies from the fields of medical, aerospace, automotive and electronics / electricians have chosen us as a partner.

Thus, the question of location has been answered for us as an Austrian company.

Quality management.

For us, quality management means quality of products, quality of internal and external processes, quality of service and quality in environmental issues.

We operate with the knowledge that our products must work safely and efficiently for many years. Therefore, all our new developments undergo a rigorous testing process.

Industry 4.0

In the new age of Industry 4.0, we also focus on networking machines and products and place great emphasis on obtaining all relevant information from the treatment process in real time.

Our environmental balance sheet is your advantage.

Environmentally responsible action for us means a consistent and economical use of energy and raw materials as well as the prevention and reduction of waste. And this not only in our own production processes but also those of the customer.



„Years of experience“

You have an objective,
we have the solution.

Technical water requirements are highly individual and often more complex in nature.

To find the optimal water treatment requires a careful analysis of the raw water and a comprehensive solution competency.

Your competent partner.

Together with you, we develop all points of the task, calculate the required capacity and build a water treatment system according to your needs.

While doing so, we keep your investment and operating costs as well as the required reliability of your machines and systems in mind.

With our many years of experience, we assist and support you in all areas of water treatment products and Services.

Benefit from our expertise.



Water Analysis



Planning



Commissioning



Training



Repair &
Service

Fast. Reliable. Competent.

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EASYRO® 480

10 High performance membranes

Hydraulic output (24hr)
up to 9600 liters

EASYRO® 240

5 High performance membranes

Hydraulic output (24hr)
up to 4800 liters

EASYRO® 60 or 120

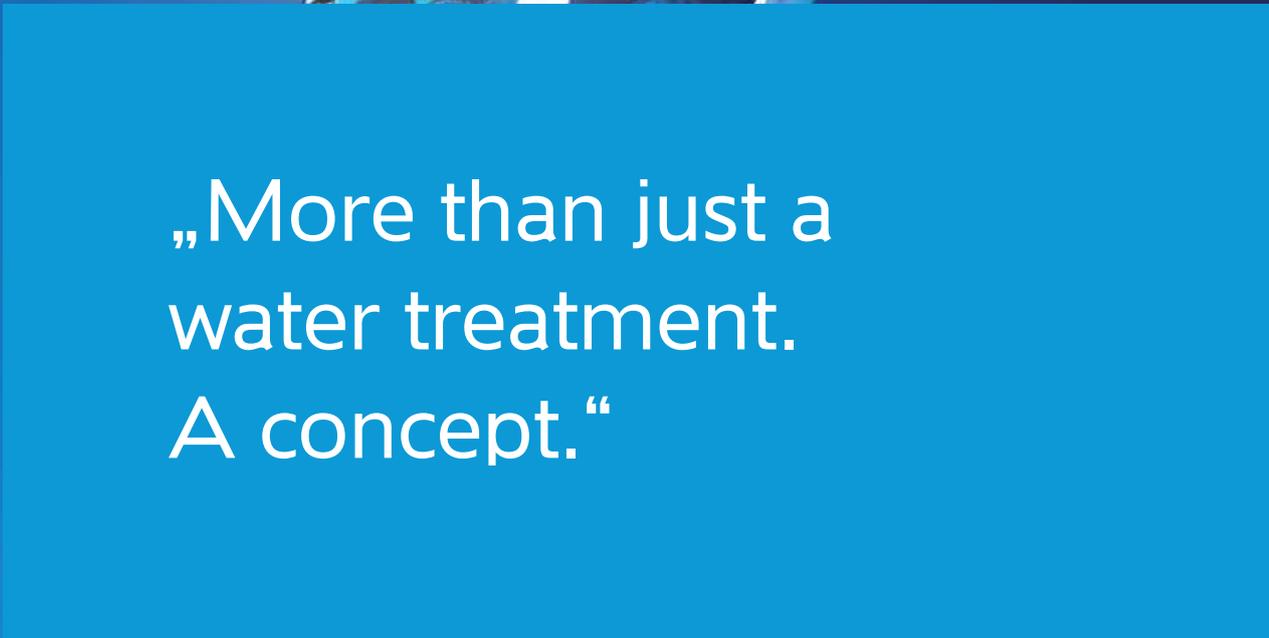
1 or 2 High performance membranes

Hydraulic output (24hr)
up to 1000 or 2400 liters

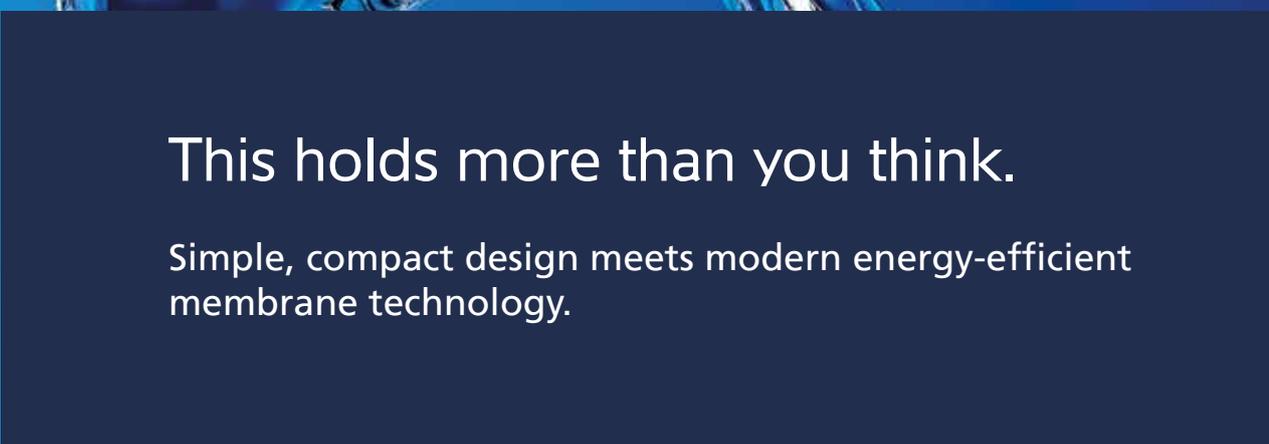




EASYRO[®]
drink + house



„More than just a
water treatment.
A concept.“



This holds more than you think.

Simple, compact design meets modern energy-efficient
membrane technology.





„Full power“

Economical and fail-safe.



Heating circuits or cooling systems can develop their full power when filled with demineralized or softened water.

Our EASYRO® reverse osmosis system produces soft, demineralized water in an energy-efficient way. With this modern membrane technology, 95-99% of all unwanted residues are removed from the water. Depending on the incoming water, the EASYRO® system lowers the conductance value to 10-50 $\mu\text{s}/\text{cm}^1$.

Trouble-free and without deposits.

Osmosis water with its greatly reduced calcium content (hardness mineral) reduces the formation of lime scale and thus prevent deposits on pipes and fittings.

If osmosis water is subsequently polished, the result is easily produced fully demineralized water that can be used as pure fill water and has a conductance value up to $0.01 \mu\text{S}/\text{cm}^1$ (TREF25).



Corrosion protection.

DM water has very low conductivity since it is free of ions. Its high solvency, however, makes it aggressive towards materials that are used in pipes.

To prevent corrosion, DM water always should be used in combination with a corrosion Inhibitor.

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„Hygiene as focal point“

The ideal solution for high quality demands.



Supply your high-quality equipment with residue-free, pure water. Optimally treated water ensures not only hygiene in your kitchen but also protects all waterlines reliably from lime deposits.

We configure the best EASYRO® water treatment system for your specific needs and requirements.

Efficient and cost-saving.

Optimize your cleaning results.
Save additional service and repair
costs.

Many years of experience of our
customers have often shown that
the more efficient cleaning power
of treated water can significantly
reduce the consumption of
detergents.



Brilliant shine in the blink of an eye.

No more annoying and
time-consuming polishing
after cleaning.

Your elegant glassware and
fine cutlery leave dishwashers
free of unsightly streaks and
lime spots. Completely without
any polishing.





„For your health“

Pure, fresh water is not always available.



Quality and purity of our drinking water are close to the limit values in many residential areas. Taste and freshness are diminished. Residues of heavy metals and pesticides affect not only the taste, they constitute a health hazard in the long term.

However, drinking sufficient amounts of water are necessary for proper hydration. Meet your water needs with fresh, residue-free water, prepared directly from your water supply.

Worry-free enjoyment.

Air and water are the two most important substances for our lives. Environmental pollution can diminish the quality of these substances.

The EASYRO® drink+house reverse osmosis system filters lime and pollutants from your drinking water and supplies you and your family with ultrapure, residue free water. As a pure drinking water dispenser system, the EASYRO® system can be installed space-saving in the cupboard under your kitchen sink.

Provide all your equipment and appliances with softened water and save costly repairs.



Brilliant shine.

Forget streaks and unsightly lime spots on your dishes. Your precious glassware and cutlery are completely clean and maintain a crystalline shine.

The increased cleaning power effortlessly removes even stubborn lipstick stains and milk residues. Radiant shine without annoying polishing is the motto here.

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Spick and span

be clean.
stay green

EASYRO[®]

drink + house



Drinking water



Ice cubes

Dishwasher





„For a perfect home“

Purest, lime-free water in the entire house.



Do you have problems with hard water?

Lime deposits on the water-carrying lines in your home installation and calcification of washing machine, coffee machine, dishwasher, ...are you faced with costly repairs?

Then it is high time for an efficient and environmentally-friendly water treatment with the name EASYRO®. The EASYRO® drink+house reverse osmosis systems filter lime and pollutants from your drinking water and supply your entire household with ultrapure, residue free water regardless whether you obtain your water from the local utility or your own well.

Lime-free savings.

Supply all your equipment and appliances with softened water and protect them from costly damage due to lime deposits. Even your hot water is prepared cheaper when using purified water.

Lime-free water of the EASYRO® drink+house system eliminates annoying streaks and lime spots right from the start. Your bathroom will shine in fresh splendor, faucets and floors are mirror-clean.

Ultrapure water sustainably increases the cleaning power of your detergent and will result in an economical, environmentally-friendly optimization.



Your beauty center right in your home.

Lime and pollutant residues leave their mark on skin and hair. The skin as the largest breathing organ needs as clear and natural water as possible to be healthy and beautiful.

Allow your skin to breathe again. For glowing skin and shiny hair.

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Beautycenter



Laundry

be clean.
stay green

EASYRO[®]

drink + house

Kitchen



Wellness

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„True greatness
is in the details“

EASYRO® 60



EASYRO® 120



Aluminium housing

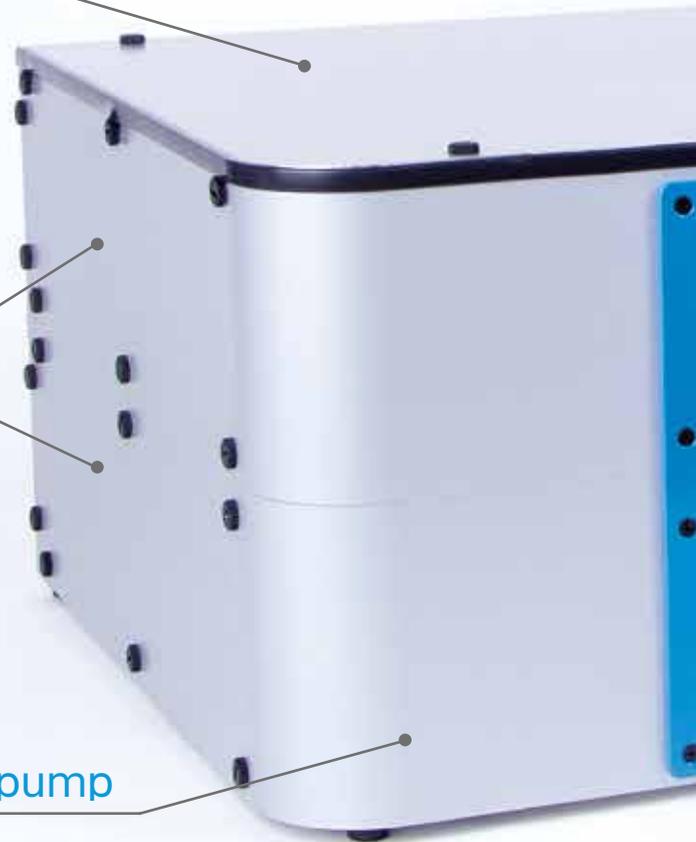
Closed aluminum
anodized housing

Modular design

Flexible sizes depending
on the needed water volumes.
Due to the practical
modular design, EASYRO®
easily can be expanded at any
time.

High pressure pump

Quiet,
thermally decoupled pump



EASYRO® 240

EASYRO® 480

Industry 4.0*

Siemens LOGO! 8

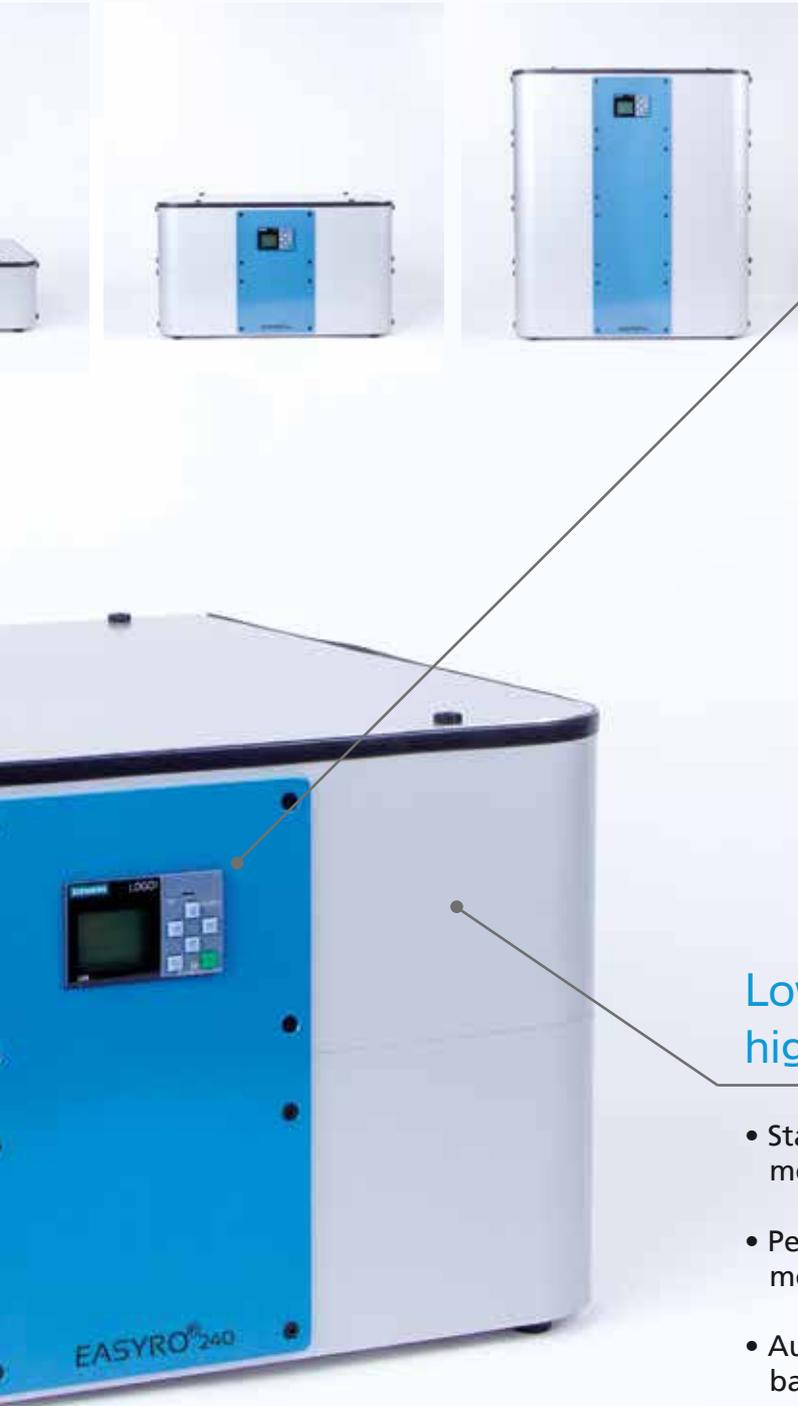


- Fully automatic monitoring and control of the System
- Display of operating status, alerts, alarms, messages

* Optional Ethernet interface

Low-pressure high performance membrane

- State of the art energy efficient membrane Technology
- Permanent usable high-performance membrane
- Automatically controlled backwashing and rinsing cycles
- Filtration efficiency 95-99 %



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Water outlet with mixture

- Mixture for desired conductivity, adjustable from 2-400 $\mu\text{s}/\text{cm}^1$ but no discarding
- Conductivity measurement temp. compensated measuring range 2-400 $\mu\text{s}/\text{cm}^1$

230 V AC/50 Hz



Water inlet

Inlet $\frac{3}{4}$ " OT
inlet valve with dirt trap

Level control* connection

Connection for Level probe



* only for level-controlled systems in
conjunction with a storage tank

Waste water outlet

Outlet JG 10/DN 20

Mixture adjustment screw

To set the desired conductivity
for water outlet



„Industry 4.0“

Networked and mobile communication in real-time.

Simple handling and real-time communication via Ethernet* characterize the Siemens LOGO! 8.

The integrated Web Server enables the monitoring and control via Wi-Fi** and via Internet. Of course, this is password protected and compatible with all popular browsers. The LOGO! 8 can be operated via PC, smartphone or tablet. SMS communication*** for alerting and remote control via mobile phone.

* Ethernet module required, ** Wi-Fi module required, *** GSM module required

Intelligent management.

Password-protected programming of operating procedures and operational parameters. Operator function via password on different levels, limit value for LF error and LF pre-warning, exceeding limit value threshold, permeate conductivity. All sensors and valves are operated with 24 VDC.

Well informed.

Warnings and information such as discarding mode, filter replacement, diaphragm check, etc. are indicated with orange backlight.

Respond as soon as possible.

The optical alarm messages highlighted in red allow for an immediate response to errors in the process flow. This includes lack of pressure, motor temperature, level probe check, leaks, etc.





Performance data



EASYRO[®] 60

1 High Performance membrane

Hydraulic output (24hr)
up to 1000 liters



EASYRO[®] 120

2 High Performance membranes

Hydraulic output (24hr)
up to 2400 liters



EASYRO[®] 240

5 High Performance membranes

Hydraulic output (24hr)
up to 4800 liters



EASYRO[®] 480

10 High Performance membranes

Hydraulic output (24hr)
up to 9600 liters

EASYRO® 60 EASYRO® 120 EASYRO® 240 EASYRO® 480

Electrical connection				
Power consumption	250 W	250 W	250 W	600 W
Voltage	230V AC/50 Hz	230V AC/50 Hz	230V AC/50 Hz	230V AC/50 Hz
Noise level	> 60 dB(A)	> 60 dB(A)	> 60 dB(A)	> 60 dB(A)
Fusing	10 A	10 A	12 A	16 A

Water connection				
Minimum flow	10 l/min	10 l/min	15 l/min	20 l/min
Input pressure	2-6 bar	2-6 bar	2-6 bar	2-6 bar
Device connection	¾" OT	¾" OT	¾" OT	¾" OT
Wastewater connection	JG 10/DN 20	JG 10/DN 20	JG 10/DN 20	JG 10/DN 20
Pump outlet	---	1" OT	1" OT	1" OT
Faucet	incl.	---	---	---
Connection dishwasher	optional	---	---	---

Hydraulic performance				
Output (24 hr)*	1000 l	2400 l	4800 l	9600 l
Output pressure adjustable**	2-5 bar	---	---	---
Pressure vessel	optional	---	---	---
Pump capacity**	---	3400 l/h	3400 l/h	3400 l/h
Pump output pressure**	---	4 bar	4 bar	4 bar
Monitoring min./max.	---	incl.	incl.	incl.

* Depending on raw water quality and temperature

** Technical data, see data sheet of pump



EASYRO® 60

EASYRO® 120

EASYRO® 240

EASYRO® 480

System data				
Desalination rate min.	95 %	95 %	95 %	95 %
Desalination rate max. in combination with polisher***	99,99 %	99,99 %	99,99 %	99,99 %
Waste water**** min.	35 %	35 %	35 %	35 %
Outlet	Adjustable 0-400 µs/cm ¹			
Pre-filters external	YES	YES	YES	YES
Weight, empty	approx. 16 kg	approx. 17 kg	approx. 24 kg	approx. 48 kg
Dimensions mmm (L/W/H)	450/490/147	450/490/147	450/490/284	450/490/558

*** up to 0,01 µs/cm¹

**** Depending on raw water quality and membrane service life

Filtration efficiency of the EASYRO® reverse osmosis system

The following table shows what percentage of substances and pollutants possibly present in the water are removed by the high-tech filter membranes of the EASYRO® system.

Micro organisms	%
Heterotrophic bacteria	> 99
Coliform bacteria/E.Coli	> 99

Organic substances	%
Hydrogen compounds	
Heptane/octane/decane, etc.	> 98
Benzene/toluene/xylene/ethylbenzene, etc.	> 99
Diesel oil	> 99
Poly-aromatic hydrocarbons	
PAH (polycyclic aromatic hydrocarbons)	> 99
Chlorinated hydrogens	
Residues arising from the chlorination of water	> 99
Trihalomethanes (THM)	
Trichloromethane	> 60
Bromodichloromethane	> 99
Di-/Tribromomethane	> 99
Pesticides & decomposition products	
PCB (polychlorinated diphenyle)	> 99

Inorganic substances	%
Turbidity	> 99
Color number	> 99
Cations/metals	
Sodium	> 96
Potassium	> 97
Calcium (hardness)	> 99
Aluminium	> 99
Iron	> 99
Manganese	> 99
Heavy metals	
Copper	> 99
Lead	> 99
Zinc	> 99
Mercury	> 99
Cadmium	> 99
Chrome	> 98
Nickel	> 99
Anions	
Fluoride	> 99
Chloride	> 98
Nitrate	> 97
Sulphate	> 97



„Tank Systeme“

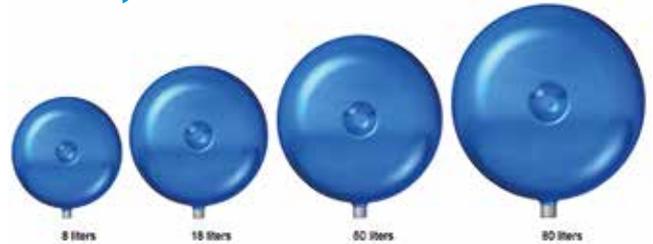
Tank systems

Depending on whether you want a pressure-controlled water treatment system in combination with a diaphragm boiler or rather a pressureless system with a reservoir -

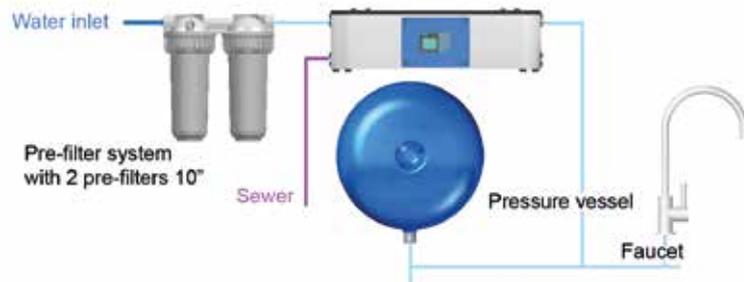
we deliver the optimal solution for your Needs.

Diaphragm tank (Pressure vessel)

For small and very small amounts of treated water, we recommend one of our diaphragm boilers with a nominal volume of 8 to 80 Liters.

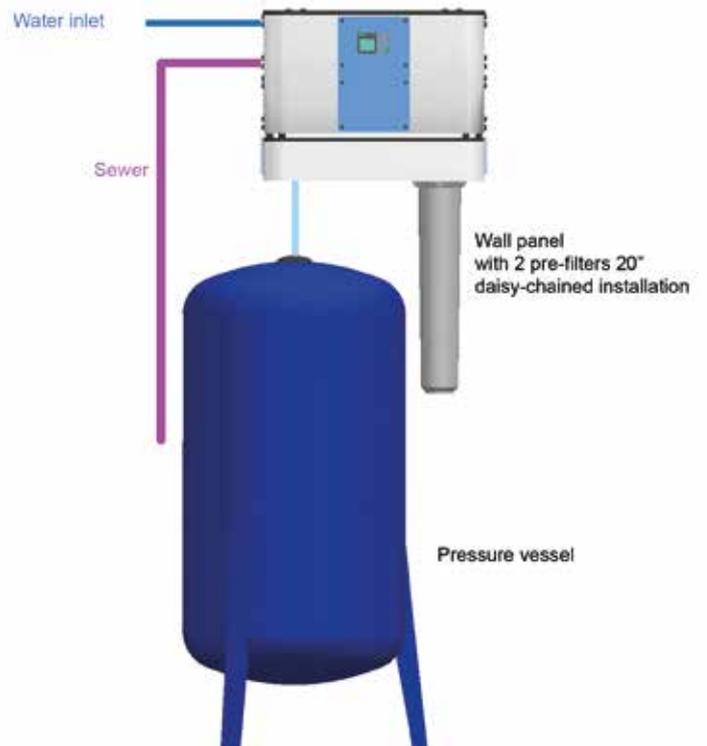


These pressure tanks are especially suitable for use in laboratories to supply dishwashers. They are compact enough to be mounted to the wall in a base cupboard.



Pressure tank with pads

As a pressure tank with pads, the diaphragm boilers with a nominal volume of 200 or 300 liters provide a larger volume of water.

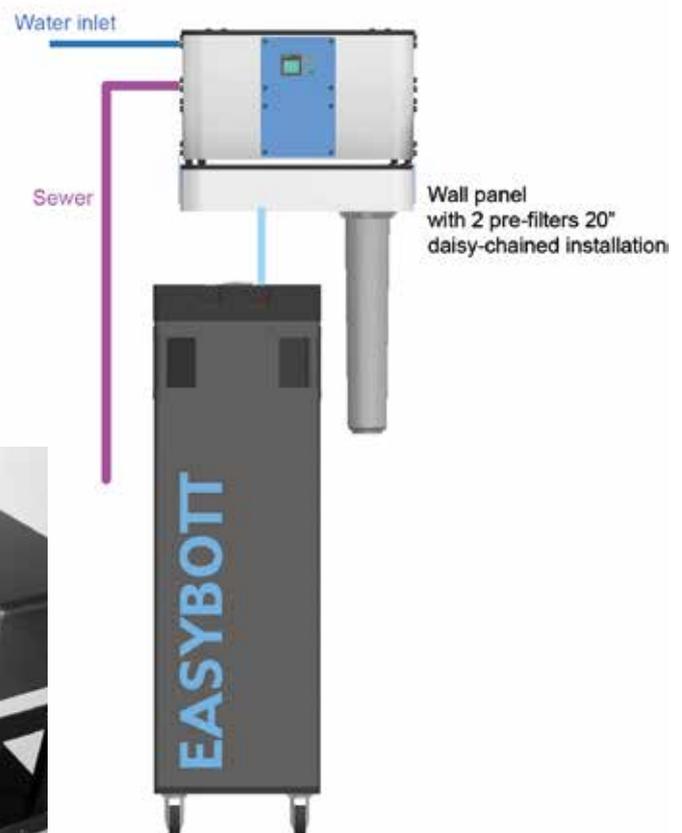
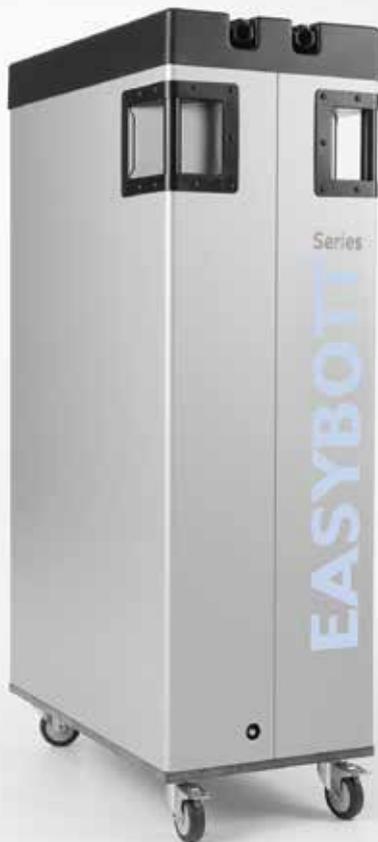




EASYBOTT refill cart with pressure Expansion vessel

As a mobile water dispenser, the EASYBOTT offers the optimal complement to the EASYRO® water treatment system. The pressure tank with integrated pressure indicator fills the tank of your machine without pump or costly power supply.

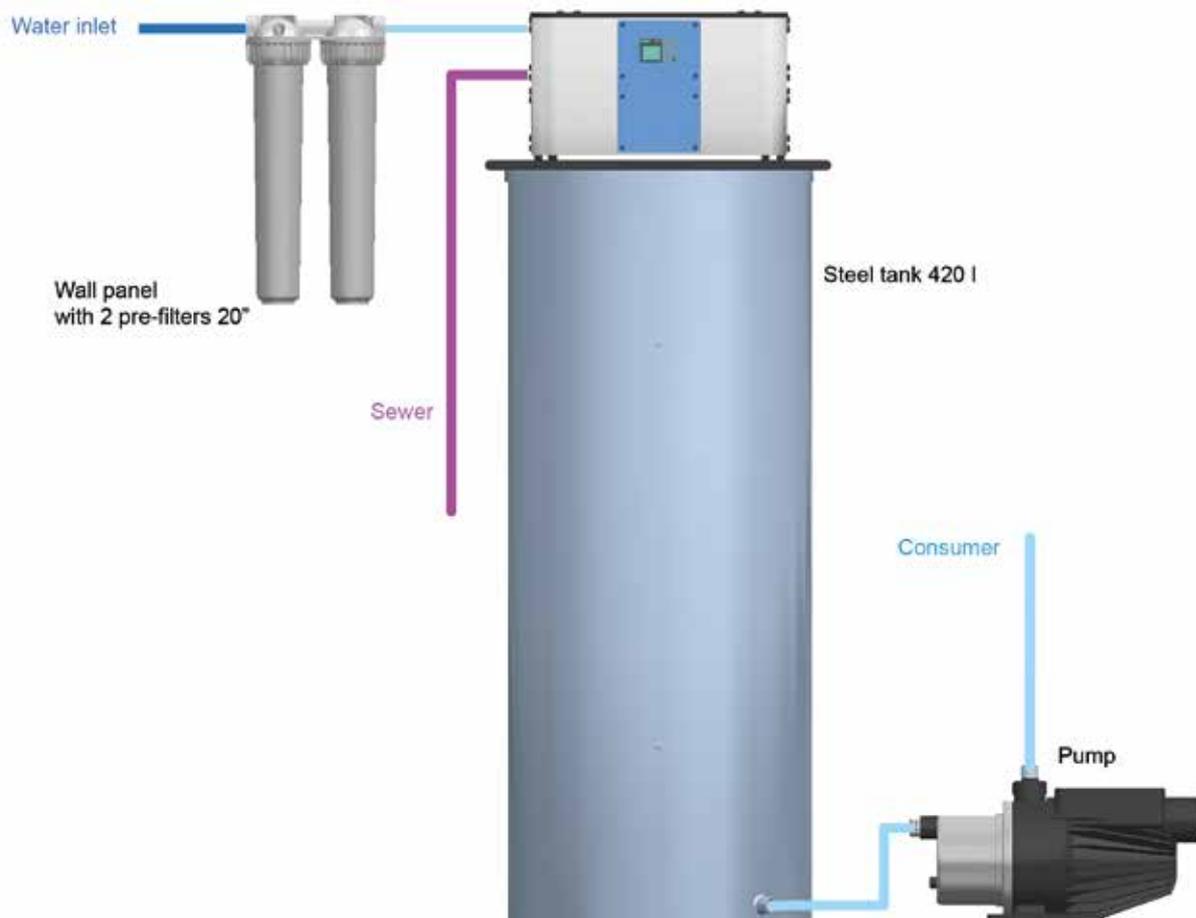
Nominal volume: 80 liters, Airproof butyl bag according to EN 13831
Pressure indicator for fill level
Outlets: 2 x CPC couplings 1/2"
4 rubber castors (2 braked)



Pressureless stainless steel tank

The pressureless 420 liter stainless steel tank is considered the base tank in drinking water treatment. All metallic parts in contact with water are made from stainless steel.

With a diameter of 600 mm and a height of 1515 mm, it can be placed in even the smallest corner and offers a shelf for placing an EASYRO® system on top.



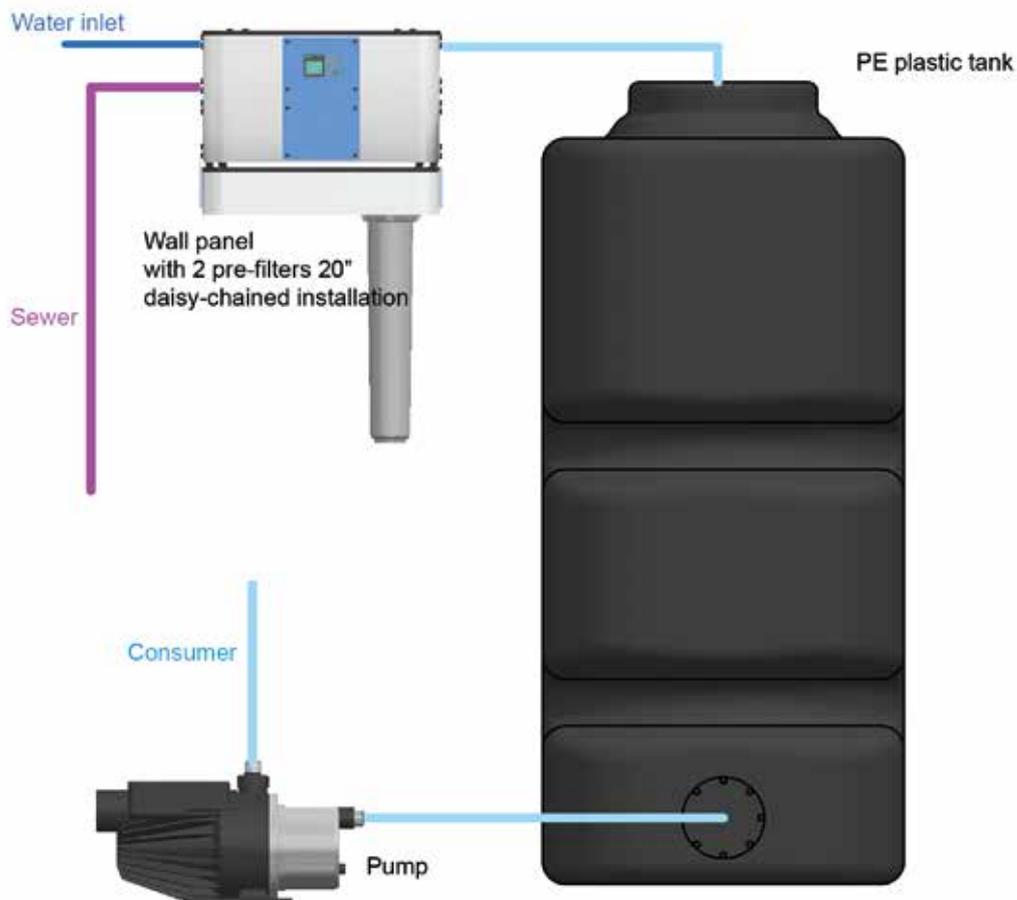


Plastic tank HD-PE

Supply tank with larger volumes are needed in industry and gastronomy. The pressureless and foodgrade plastic tanks are available with volumes of 1000, 2000 or 3000 liters.

They can be used as base tanks as well as supplementary tanks and can be linked with one another. This saves costs when requiring large volumes of water.

All HD-PE plastic tanks have a manhole cover and as base tanks feature a fill level indicator as well.





„Grundfos pumps“

GRUNDFOS 

Pump systems

We only offer pump systems of our partner Grundfos due to the high demands for topnotch quality in the various application areas.

Grundfos pumps represent operational reliability, quiet cycles, and a long service life. They guarantee low-maintenance operation. Depending on your needs and requirements, standard central water systems or vario pumps for constant pressure are configured.



Pre-filter & Co

We gladly assist you in configuring your optimal water treatment system.

We also try to help when it comes to selecting the right accessories that are not part of our product range.

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