















Easymetal Paris of the Contract of the Contrac













"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."





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 / electrics have chosen us as a partner.

Thus, the guestion 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.





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.

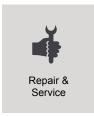
Benefit from our expertise.











Fast. Reliable. Competent.





Environmental expertise with a future

Being a pioneer in environmental protection is the goal we have set ourselves.

We deal responsibly and efficiently with energy and resources and are committed to sustainably protecting our environment.

In this respect, the E.KO IONISER® has already been awarded the Innovation Award for Environmental Protection.



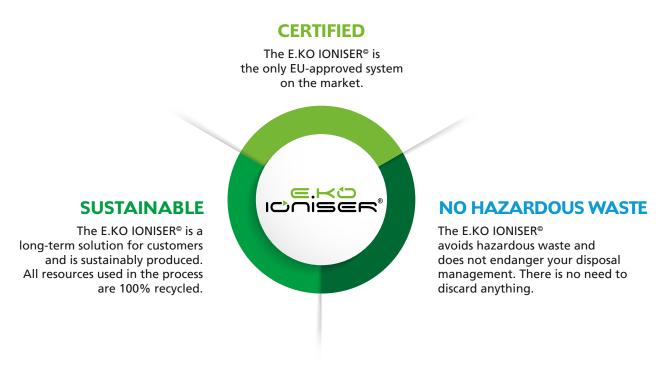
Climate protection concerns us all

With the E.KO IONISER®, our biggest contribution is that we are able to significantly reduce the amount of hazardous waste produced at the customer's premises. So far, this has prevented 6.4 million litres or 6,400 truckloads of hazardous waste being produced across the EU.



This doesn't just happen as a matter of course.

New mixed bed resin, in particular, uses a lot of resources. Not to mention the resulting waste management and the transport of dangerous goods.



With us on your side, you are on the environmentally-friendly side.

Responsible and lawful conduct is a fundamental requirement and forms the basis of trust that customers, business partners and the public place in us.













"The journey of our product develo

The idea and start of development of the E.KO IONISER®

> Development of a new product to replace the deionising cartridges on the market.

> > Company foundation in Stockerau

Registration of the patent and testing the prototype.

1995

1997-1998

1999

2000

by the end of 2001

Europe.

2004

Delivery already made to

Additional expansion planned in

3 countries







KORROSTOP 1







KORROSTOP 2



pments"

Move to the new company building



Production in the new facility.

20,000 E.KO IONISERs® shipped

The factory increasingly becomes too small.

2006-

2007

2010

2012

2014

Exports to more than 20 countries (> 40 retailers)

More than 60,000 E.KO IONISERs® shipped.

by the end of

2017

2019



EASYRO®



KORROSTOP^{3°}



©.K℃ ICOISER® 1503



KORROS4.OP®













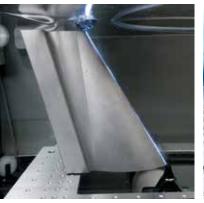




MATERIAN MATERIAN Optimal water duality or resident

NO DEPOSITS. NO CORROSION Trouble the operation purity

PERFECTLY PURE COATTING TE RESIDUES









"Custom solutions"







Odina water duality results RELIABLY PURE

Ultradure water as a basis for coding adure water as a base for coolings. INDVIDUALLY OPTIMIZED PERFECT FORMULATION

CARE AND BRILLIANCE Gentle On the Daintwork nte of the pathwhit less the states









EDM HEATING PLANTS PART CLEANING **INDUSTRY** MEDICAL TECHNOLOGY **FOOD INDUSTRY CARWASH**



Copper, titanium Polycristalline diamonds (PCD) EDM

> Carbide Copper, graphite, titanium Cobald materials Sintered metal materials Powder metallurgical steels













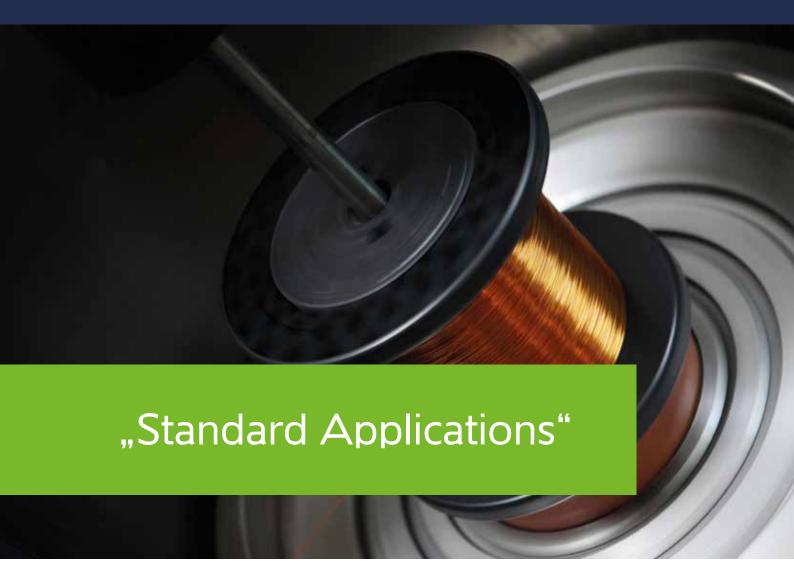


"The benchmark for demanding customers to be even better."

Better. More reliable. Quicker.

That is how deionized water with low conductivity and an optimal pH is generated today.







Everyone knows of it, almost everyone has one the E.KO IONISER® 1501.

The use of the E.KO IONISER® 1501 has proven itself already many thousands of times and is considered the base for the best and constant water quality in the field of EDM.



The ideal solution for standard applications.

This device shows its full strength when used within the scope of the standard applications. Here it scores with its wide range of usage Options.

scores with its

- scores with its



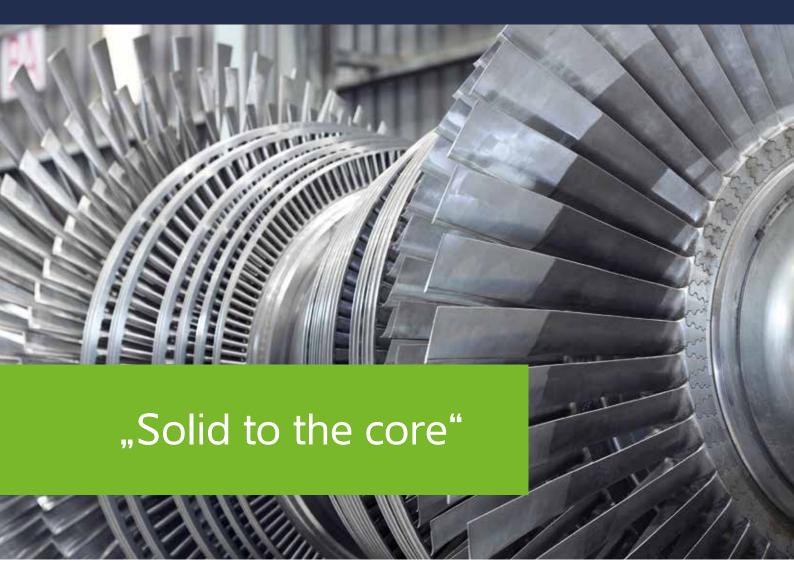
| Hydraulic performance | | |
|----------------------------|---------------------------|--|
| Max. flow rate | 40 l/min | |
| Min. flow rate | 1 l/min | |
| Max. operating pressure | 5 bar | |
| Max. Input conductance | 2500 μS/cm ¹ | |
| Conductance | < 0,01 μS/cm ¹ | |
| Permissible Input pH value | 6,5-9,5 | |

| Dimensions | |
|------------------------|--------------|
| Weight | 160 kg |
| Diemensions mm (L/W/H) | 660/370/1150 |

| Connections | |
|---------------------|----------|
| EASY quick coupling | CPC 1/2" |

| Capacity | |
|----------------------------|-------------------|
| Equivalent mixed bed resin | approx. 200 liter |







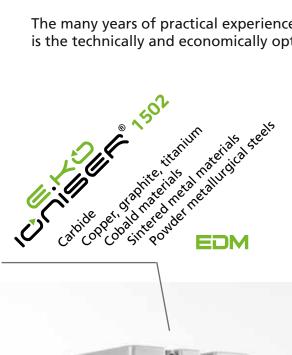
The two equivalent systems E.KO IONISER® 1501 and 1502 perfectly complement their different application areas and are not interchangeable due to their various usage scopes.

The E.KO IONISER® 1502 was designed specifically for special applications in the carbide field.



Optimal solutions for special materials.

The many years of practical experience has shown that the E.KO IONISER® 1502 is the technically and economically optimal solution in terms of carbide.





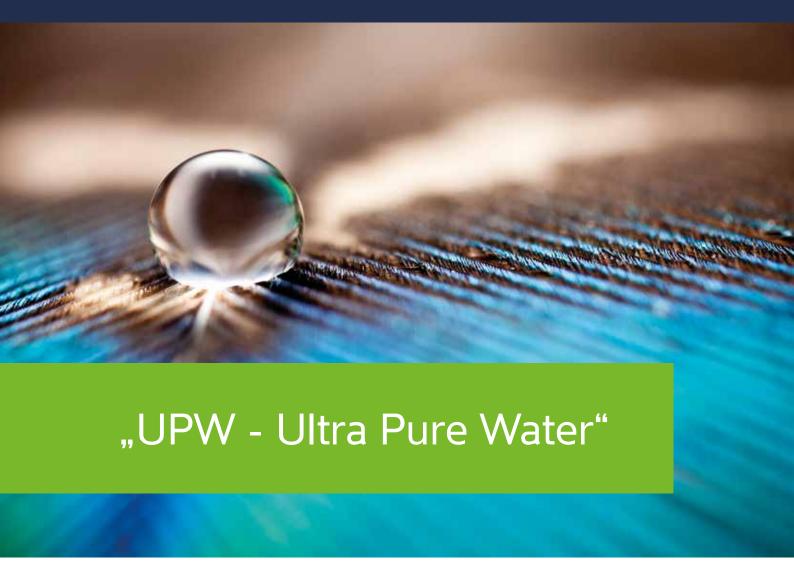
| Hydraulic performance | |
|----------------------------|---------------------------|
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| Conductance | < 0,01 µS/cm ¹ |
| Permissible Input pH value | 6,5-9,5 |

| Dimensions | |
|------------------------|--------------|
| Weight | 160 kg |
| Diemensions mm (L/W/H) | 660/370/1150 |

| Connections | |
|---------------------|----------|
| EASY quick coupling | CPC 1/2" |

| Capacity | |
|----------------------------|-------------------|
| Equivalent mixed bed resin | approx. 200 liter |







The E.KO IONISER® 1503 UPW (ultra pure water) has been specially developed for the smoothing of already treated water. In combination with our EASYRO® reverse osmosis equipment, we guarantee ultrapure water of the highest Quality.

Depending on the incoming water, the EASYRO® reverse osmosis system lowers conductivity to 10-50 µs/cm¹. With the E.KO IONISER® 1503 as subsequent smoothing, we guarantee a conductivity of up to 0.01 µs/cm¹(TREF25).



Typ 1 - Standard

Dissolved inorganic ions are easily removed.

The resistance after treatment is 18.2 M Ω (at 25 °C) with a TOC value of <1 ppb.



| Hydraulic performance | |
|----------------------------|---------------------------|
| Max. flow rate | 40 l/min |
| Min. flow rate | 1 l/min |
| Max. operating pressure | 5 bar |
| Max. Input conductance | 2500 μS/cm ¹ |
| Conductance | < 0,01 µS/cm ¹ |
| Permissible Input pH value | 6,5-9,5 |

| Dimensions | |
|------------------------|--------------|
| Weight | 160 kg |
| Diemensions mm (L/W/H) | 660/370/1150 |

| Connections | |
|---------------------|----------|
| EASY quick coupling | CPC 1/2" |

| Capacity | |
|----------------------------|-------------------|
| Сарасіту | |
| Equivalent mixed bed resin | approx. 200 liter |



Economic environmental management.

The E.KO IONISER® fully replaces the mixed bed resin, which makes it one of the most ecological solutions in the area of process water treatment.

No media or chemicals are needed for the cycle. Its environmentally friendly technology eliminates every year about 1,000,000 liters of toxic waste in Europe alone.

The E.KO IONISER® is the most environmentally friendly system on the market among comparable products.



We make your life easier.

With the E.KO IONISER®, you save not only the high cost of additives and the disposal cost for hazardous waste.

A significant reject reduction is guaranteed as well due to the reliably high quality of the water.



Delivered - Docked - Finished

Our on demand and non-bureaucratic leasing concept eliminates investment costs as well as all annoying disposal costs and disposal work for you. You work with a top device that you totally can rely on.

The E.KO IONISER® is an affordable must-have for anybody appreciating cost-savings not only in the investment phase.





"You are looking to connect"



Our CONNECT4 components provide compatible connectivity for every area of application.

The new CONNECT4 connection kit is compatible with all standard wire EDM machines.

We only use industry standard components.



1 kit for all eventualities.

The new CONNECT4 connection kit contains all the components you need to connect the E.KO IONISER® without any additional attachments.



Together with the KORROSTOP4.0® measuring device, the CONNECT4 connection kit is the ideal combination for your initial equipment.







Just one movement.

Plug-and-play with EASY quick couplings.

Switching old with new is done in the blink of an eye even during operation.





Visualization of the water quality.

"The right partner for intelligent solutions."

Easier. More efficient. More networked.

The latest communication interfaces enable seamless integration into your processes.



KORROS4:OP®



Visualization of the water quality.

Ongoing analysis of the water quality is essential for consistent product quality, process optimisation and improved safety.

The KORROSTOP4.0® is a reliable and precise measuring device that stands out thanks to the latest technology. It can be adapted to all machine manufacturers and can be fully integrated into your existing corporate IT system with its large number of communication channels. We only support highly secure standards.



A high level of flexibility and easy of use.

Choose between analogue or digital displays.

With just a quick glance, you will have a permanent and simple overview of the measurement values thanks to the colour coding of the measurement range.

The bar display in the traffic light system makes it easier to obtain a quick overview.

The device is easy to operate via the touchscreen or push-turn control.





Transfer data to database or cloud storage mediums.

We work with well-known cloud service providers for flexible and user-friendly data transmission.

You can find all the relevant manuals, dashboard profiles and updates for your use in the GitHub Repositories.













ABS housing

- Attractive appearance
- High degree os stability and shock-resistant
- Particularly scratch resistant

User Manual

Slot for a USB drive with user manual



Compatible with all EDM machines

- With no additional attachments needed
- Built-in dirt trap



Industry 4.0

State-of-the-art technology

- Dynamic measurement intervals with digital or analogue measurement representation
- The most up-to-date communication channels for your process optimisation

Push-turn control

Operation via a touchscreen or easily accessible via push-turn control

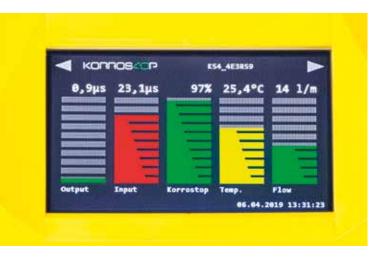
SD card slot

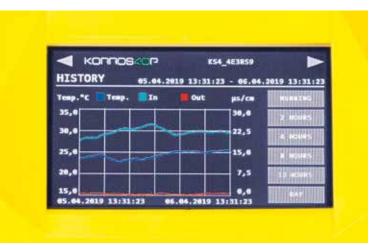
- SD card slot Recording of all real time data
- USB-B Interface
- Reset Button



- Plug-and-play with EASY quick couplings
- Can be replaced quickly and easily even during operation









Intelligent management.

- Easy to use and quick access to information via the traffic light system
- Conductive value output Conductive value input KORROSTOP (water quality) in % Water temperature Flow rate in I/min.
- 24-hour historical data storage
- Data can be transferred in real time to a database or the cloud
- Controlling external devices is possible, e.g. Warning lights etc. or for process optimisation

Communication is everything.

- Query options (logs) via LAN / PC / Wi-Fi / USB
- LAN / PC built-in web server and evaluation software
- Wi-Fi direct for mobile devices
- Data transfer via USB / LAN / Wi-Fi
- Can be built into existing company IT systems, e.g. via REST services or **MQTT**
- Cloud connection optional





Micro USB-B

LAN

Wi-FI

Requirements SD card

SDSC

128 MB

Power supply

100-240 V AC 50/60 Hz 0,3 A

5,2 V 2000 mA

Intelligent connection.

2 freely configurable switch outputs enable secure and uninterrupted operation.

Conditions and faults in the system are monitored in an optimal manner and contribute to your process optimisation.





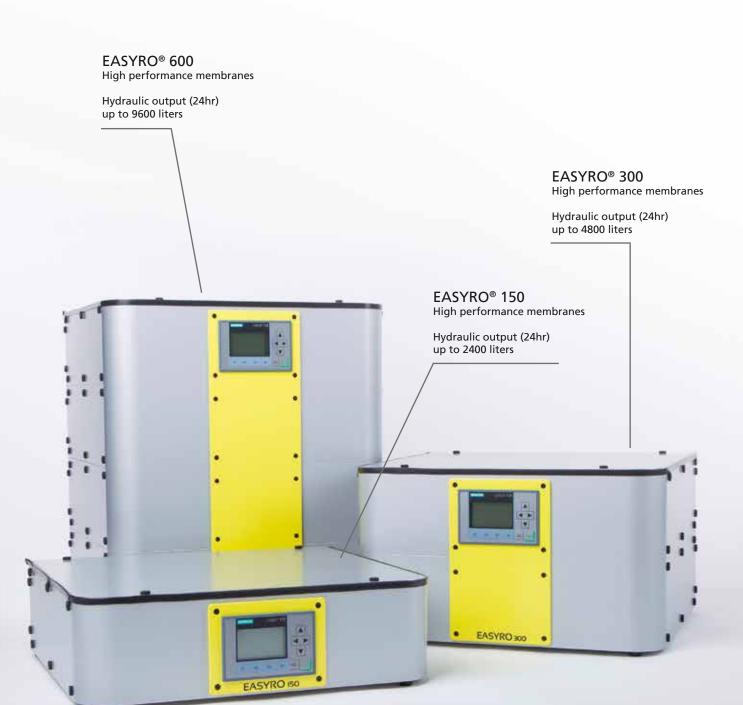














"Tailor-made solutions for individual requirements."

More powerful. Compacter. More flexible.

Enormous filter capacities do not always require elaborate construction methods and high costs.













"True greatness is in the details"



EASYRO® 300





Aluminium housing

Closed aluminum anodized housing

Modular design

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

High pressure pump

Quiet, thermally decoupled pump



EASYRO® 600



EASYRO300

Industry 4.0

Siemens LOGO! 8



- Fully automatic monitoring and control of the system
- Display of operating status, alerts, alarms, messages
- Clear text display
- Data logging function

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 %













Water outlet 1 with mixture

- Mixture for desired conductivity, adjustable from 2-400 µs/cm¹ but no discarding
- Conductivity measurement temp. compensated measuring range 2-400 µs/cm¹

Pure water outlet 2 with rejection

• Max. permissible output conductance adjustable from 2-400 µs/cm1

Discarding:

If the actually produced conductivity of the permeate is above the preset value, discarding is carried out until the desired preset conductivity is achieved again.

- Drain valve made of stainless steel
- Conductivity measurement temp. compensated measuring range 2-400 µs/cm¹





EASYNET / ETHERNET

- Standard Ethernet Connector
- Webserver
- Master/Slave Connector (Redundant system)
- Optional webserver

Water inlet

Inlet ¾" OT inlet valve with dirt drap

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 1







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.

* 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.











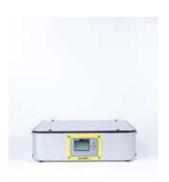








Performance data



EASYRO® 150

High performance membranes

Hydraulic output (24hr) up to 2400 liters



EASYRO® 300

High performance membranes

Hydraulic output (24hr) up to 4800 liters



EASYRO® 600

High performance membranes

Hydraulic output (24hr) up to 9600 liters



EASYRO® 600 EASYRO® 300 EASYRO® 150

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

| Water connection | | | |
|-----------------------|-------------|-------------|-------------|
| Minimum flow | 10 l/min | 15 l/min | 20 l/min |
| Input pressure | 2-6 bar | 2-6 bar | 2-6 bar |
| Device connection | ³⁄4" OT | ¾" OT | ¾" OT |
| Wastewater connection | JG 10/DN 20 | JG 10/DN 20 | JG 10/DN 20 |
| Pump outlet | 1" OT | 1" OT | 1" OT |

| Lhydraula parformanco | | | |
|------------------------|----------|----------|----------|
| Hydraulc performance | | | |
| Output (24 hr)* | 2400 l | 4800 l | 9600 I |
| Pump capacity** | 3400 l/h | 3400 l/h | 3400 l/h |
| Pump outlet 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® 150 EASYRO® 300 EASYRO® 600

| System data | | | |
|--|-------------------------|---------------|---------------|
| Desalination rate min. | 95 % | 95 % | 95 % |
| Desalination rate max. in combination with polisher*** | 99,99 % | 99,99 % | 99,99 % |
| Wastewater*** min. | 35 % | 35 % | 35 % |
| Outlets | 2 x JG 10 | 2 x JG 10 | 2 x JG 10 |
| Outlet 1 | Pure water fix | | |
| Outlet 2 | Adjustable 0-400 μs/cm¹ | | |
| Weight, empty | approx. 18 kg | approx. 25 kg | approx. 50 kg |
| Dimensions mm (L/W/H) | 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

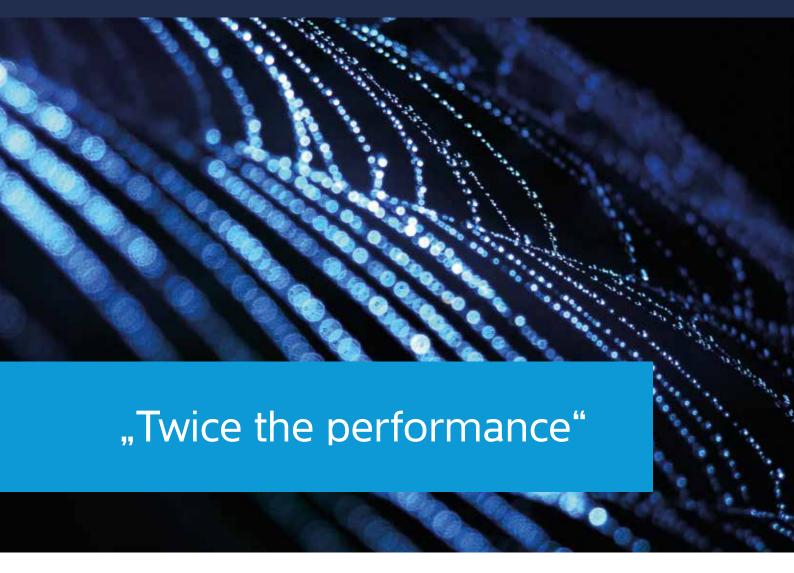
The following table shows what percentage of substances and pollutants possibly present in the water are removed by the high-tech filter membranes of the EASYRO® system.

| 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 |





High availability through redundancy.

The redundancy principle is the most common procedure to prevent the failure of important components.

These additional resources provide for:

- Increased failure prevention = reliability and reduction of failure probability of components critical for production.
- The increase of operating reliability by ensuring uninterrupted operation.



Master and Slave

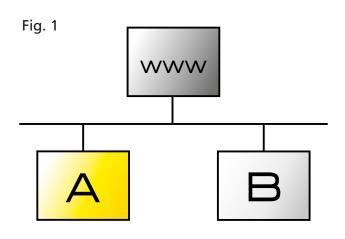
The system consists of 2 working systems (master + slave). One system is the designated master and takes over the main control.

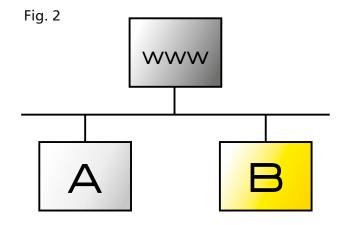
Alternately, only one system at a time is active.

Fig. 1 The master (system A) is working. The slave (system B) is in "Stand by" mode waiting for its signal.

Fig. 2 The master passes the signal to the slave. The slave (system B) starts to work. While the slave works (system A), the master is now in the "Stand by" mode.

ETHERNET (master/slave connector) in the rear of the system is used to connect the two pendulum systems with one another.

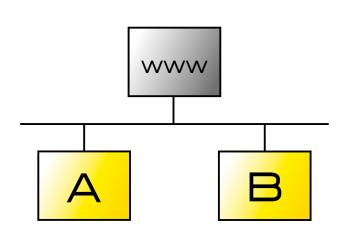




Bonus Feature.

To cover any dispensing peaks, the pendulum system provides an optimal Feature.

While in dual mode, both units (A + B)work simultaneously as one unit. This means twice the power is available to you.





Tank systems

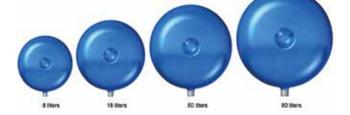
Depending on whether you want a pressure-controlled water treatment system in combination with a diaphragm boiler or rather a pressureless system with a reservoir -

we deliver the optimal solution for your needs.

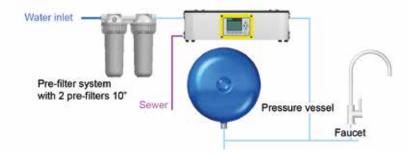


Diaphragm tank (Pressure vessel)

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.

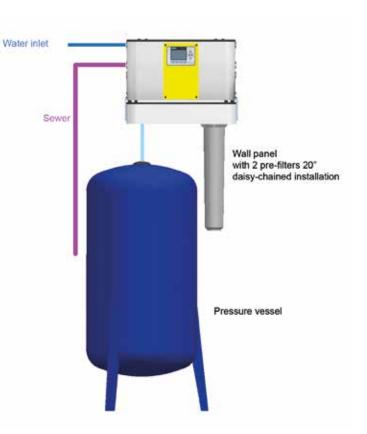


These pressure tanks are especially suitable for use in laboratories to supply dishwashers. They are compact enough to be mounted to the wall in a base cupboard.



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.











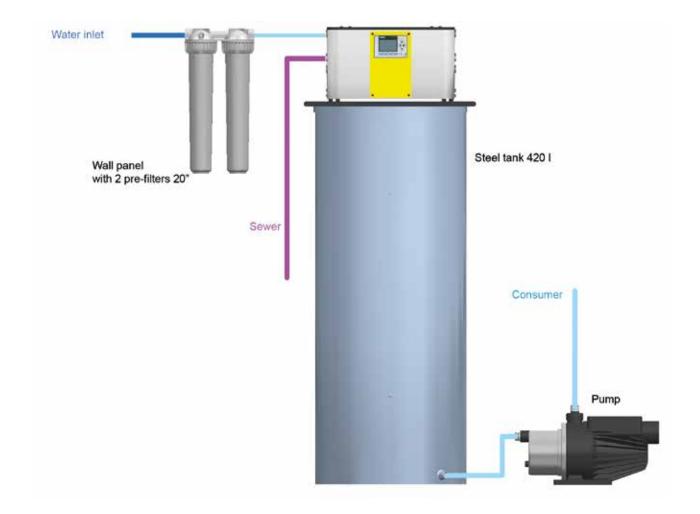




Pressureless stainless steel tank

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.







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.













Wall mounting systems

The practical wall mounting panel was designed as the optimal installation option for our EASYRO® water treatment system. The pre-filters can be attached directly onto the underside of the wall panel to save space.



Pre-filter systems

We offer a broad range of pre-filters and filter accessories.

Our product range includes wraparound filters in various fineness grades, hardness stabilizers, activated charcoal filters, various polisher granulates, etc..

Depending on the quality of the raw water and the treated water specifications, the necessary components are configured to achieve an optimal result. The filter housings and the various filter inserts are 10" or 20" in size depending on the EASYRO® system dimension or the raw water quality.

UVC immersion lamp system

The UVC immersion lamp system is used to disinfect drinking water. It reduces pathogens and pathogenic germs by 99 percent. The UV bactericidal process is purely physical, leaves no odor or taste behind, and runs trouble-free without residues. No chemicals are added.

UVC disinfection inside of the tank is recommended in conjunction with a pressureless tank system.



Easymetal Palentine













