

JUDO PREMIUM LINE | i-dos eco



RUST- AND LIME-FREE

Fully Automatic Dosing System
JUDO i-dos eco for top quality water



The water that our utilities deliver is of highest quality. We all assume that it will reach our kitchens and bathrooms in the same quality. But we neglect one thing: its transport - the drinking water installation.

WATER WITH A PROTECTIVE FUNCTION

The water pipes in the house are an essential factor for the quality of drinking water - and often responsible when it is impaired. Under unfavourable conditions, rust and limescale can build up in the pipes.

In the long run, there is a risk of high costs due to damage to the installation. Rough surfaces inside corroded or calcified pipes also provide an ideal habitat for bacteria. Additionally, an increased energy consumption will make things worse.

Rust

Turbid brown water, stains in toilets, rust particles in faucets' aerators. These are signs of corrosion in a drinking water installation. They are caused by interaction of various substances in the water, foreign particles that have been washed in and oxygen. Widely branched pipe installations with little water movement and so-called „mixed installations“ made of different materials favour the formation of rust. Installations made of copper and galvanised steel are particularly affected.



Unhygienic:
Rusty metal pipe

Lime

Water naturally contains lime. In some regions, water's lime content is high - this is called "hard water". The result: deposits on tiles and taps, clogged pipes, and calcified heat exchangers. In contrast to corrosion problems, this danger affects all pipe materials, including plastic and stainless steel.



Unhygienic:
Scale build up in pipes

Comfort with added value



This product can be controlled world-wide via a free app.

A LAN port is available for Internet connection.

The device has a USB connection for dosing data transfer.

The internet connection is TLS-encrypted.

The product has a potential-free contact to send messages (empty tank).

A new dosing container is activated using the 4-digit code printed on it.

Proven process with a new look

In 1951, we received the first patent for drinking water dosing. With the world's first fine dosing device JUDO laid the foundation stone for the entire product category. The new i-dos eco dosing system not only impresses with its design, but also delivers perfect water that protects the installation and provides the best conditions for hygiene and full enjoyment.

The advantages at a glance:

- ✓ Elegant design with clear operation features
- ✓ Remote control: via smartphone and tablet with the JU-Control app * or via web interface
- ✓ Multiphase motor: for particularly precise and regular distribution in the water
- ✓ Easy documentation of dosed substances
- ✓ Internal storage of dosing data and retrieval via USB or JU-Control web interface (if internet connection is available)
- ✓ Optical signal during pump operation
- ✓ Operating and warning messages as push messages, SMS or e-mail (if internet connection is available)
- ✓ Download of water consumption data as CSV or PDF file via the JU-Control web interface possible (if internet connection is available)
- ✓ Water consumption diagrams, in selectable time periods (day, week, month, year), can be displayed via the JU-Control app
- ✓ Dosing agent tank with refill option when using JUL mineral tablets
- ✓ Best quality product

* iOS and Android free-of-charge versions available



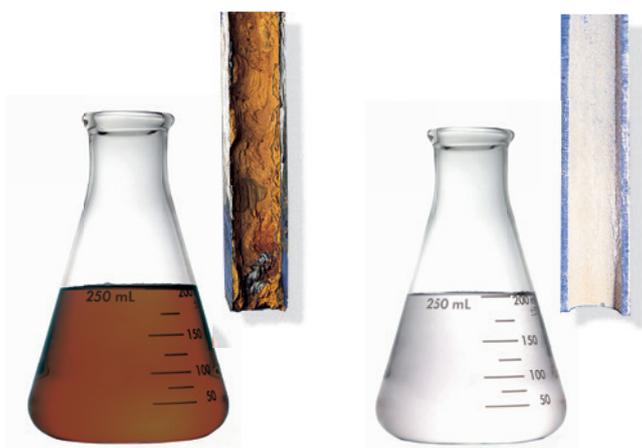


EFFECTIVE PROTECTION

The dosage of a precisely defined mineral solution provides a remedy, for instance, by forming a firmly adhering protective layer on the inner piping wall. This layer protects the metal from corrosion. Other special minerals stabilise lime. They prevent hardness minerals from precipitating and depositing in pipes and devices.

With JUDO you are always on the safe side, especially when it comes to drinking water hygiene: our dosing systems and mineral solutions meet all the requirements of the German Drinking Water Ordinance (TrinkwV). This is confirmed by the independent DVGW test mark.

It means that you receive the best possible water quality at all times. In addition, the i-dos eco also independently takes over the prescribed documentation of treatment substances (if internet connection is available). A clear bonus in comfort and safety.



Corroded pipes, turbid water - a hygiene risk

Hygienic protective layer, clear enjoyment

Protection of drinking water quality is mandatory



Protection against corrosion and limescale has a high priority in laws, regulations and standards. Because drinking water installations and water heaters are of great value and therefore must be protected. Human health is even more important.

For this reason, hygiene guidelines demand clean piping systems. According to the „Ordinance on water quality for human use „ (TrinkwV, 2001), every homeowner is obliged to protect the drinking water quality.

Among other things, certain heavy metals content may not be exceeded. A negligent violation of relevant ordinances is punishable by law.

ECONOMICAL AND SUSTAINABLE

As little as possible, as much as necessary. The JUDO i-dos eco reacts precisely to every water withdrawal. The addition of the solution in the water is electronically controlled. From the first water flow, the dosage is absolutely accurate. The stepper motor ensures a very constant distribution rate. It also works extremely quietly. The integrated control constantly monitors the operating processes. The unit can switch itself off in the event of malfunction and thus offers the greatest safety possible.

The famous JUDO quality was at the top of the specification list in the JUDO i-dos eco development.

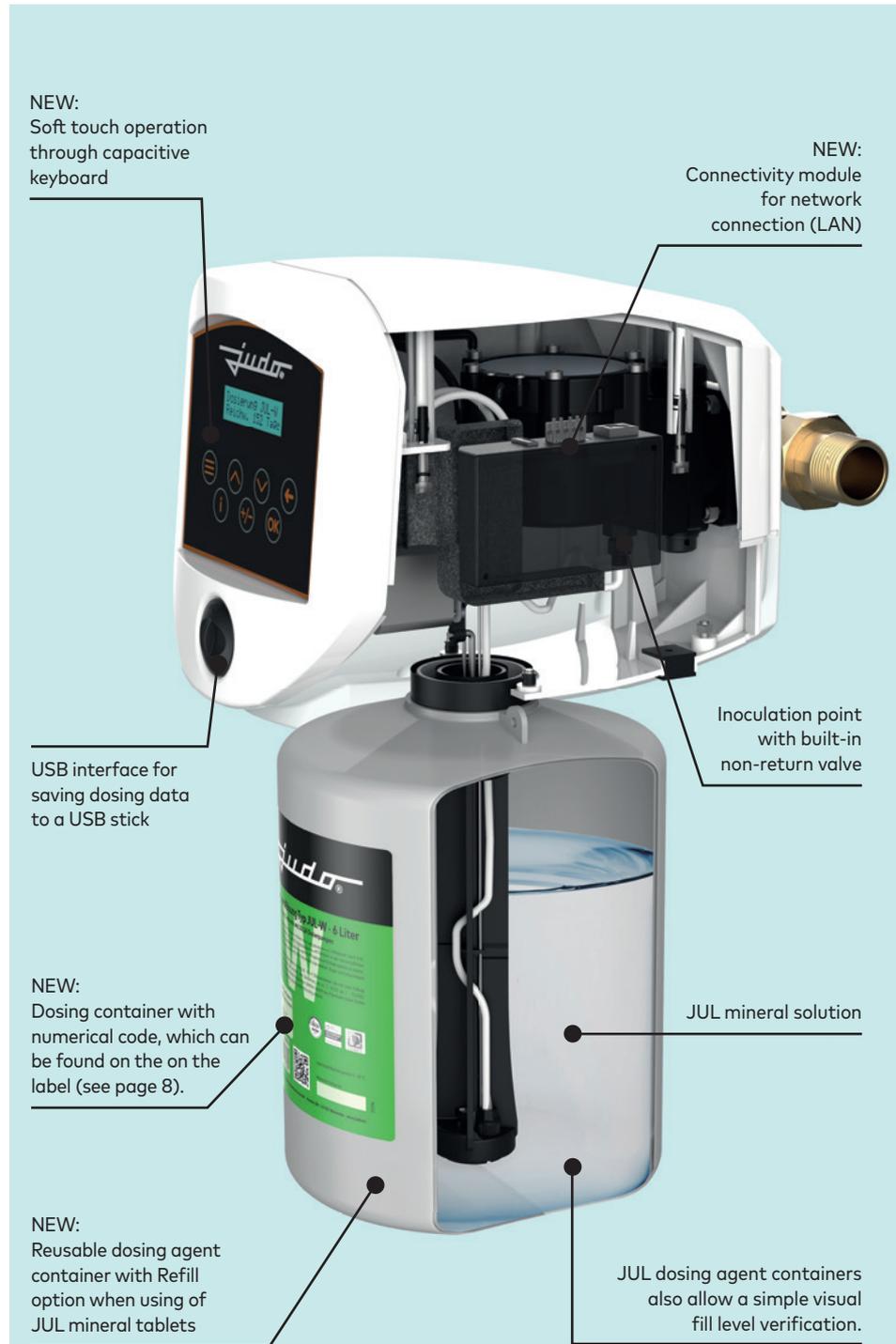
This is proven by numerous quality tests, in which the motor, among other things, passed an endurance test with 100 million litres of water.

System control – easier than ever

The JUDO i-dos eco informs its owner about all important operating states and independently sends operating and warning messages – as push message or, if desired, by e-mail or SMS.

In this way, all important data is always in view: Dosing solution type, dosing quantity, flow rate, remaining quantity and range. The automatic messages, of malfunctions, warnings and service dates, ensure outstanding operational reliability.

In the app, the settings are simply made with a finger touch. Reducing the dosing rate from „normal“ to „minimum“? A tap is all it takes. Also the operators of drinking water installations, for example landlords, who use several systems in their properties, are always up to date. Without having to go individually to each device.





ALWAYS ON THE SAFE SIDE

Whether limescale and/or corrosion protection
- JUDO offers the right mineral solution for every application.

Protective layer instead of rust layer

The i-dos eco dosing system doses a precisely calculated amount of a special mineral solution into the water and ensures that a protective layer develops in the pipes.

Stabilise instead of reconstruct

Specially developed JUL minerals serve to stabilise lime. This means that they ensure that lime in water cannot settle. In this way, the JUDO i-dos eco protects pipes and the surfaces of heat exchangers from limescale - and the household budget from rising energy costs.

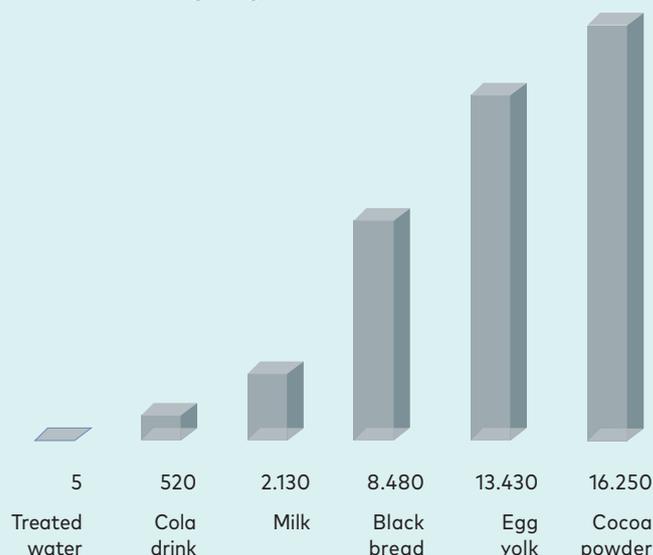
Food phosphate content in mg/kg

Phosphates are stipulated by the Drinking Water Ordinance. The intake of approx. 10 mg phosphate from 2 litres of treated water makes up only a very small part of a normal daily phosphate intake of around 6,000 mg.

Important for health

The minerals that are dosed by the JUDO i-dos eco are also found in nature; they are stipulated by the Drinking Water Ordinance and DVGW-tested. Phosphate, for instance, is contained in many foods in much higher concentrations. Fortunately, because phosphate is vital and plays an essential role in metabolism and bone formation.

Food phosphate content in mg/kg





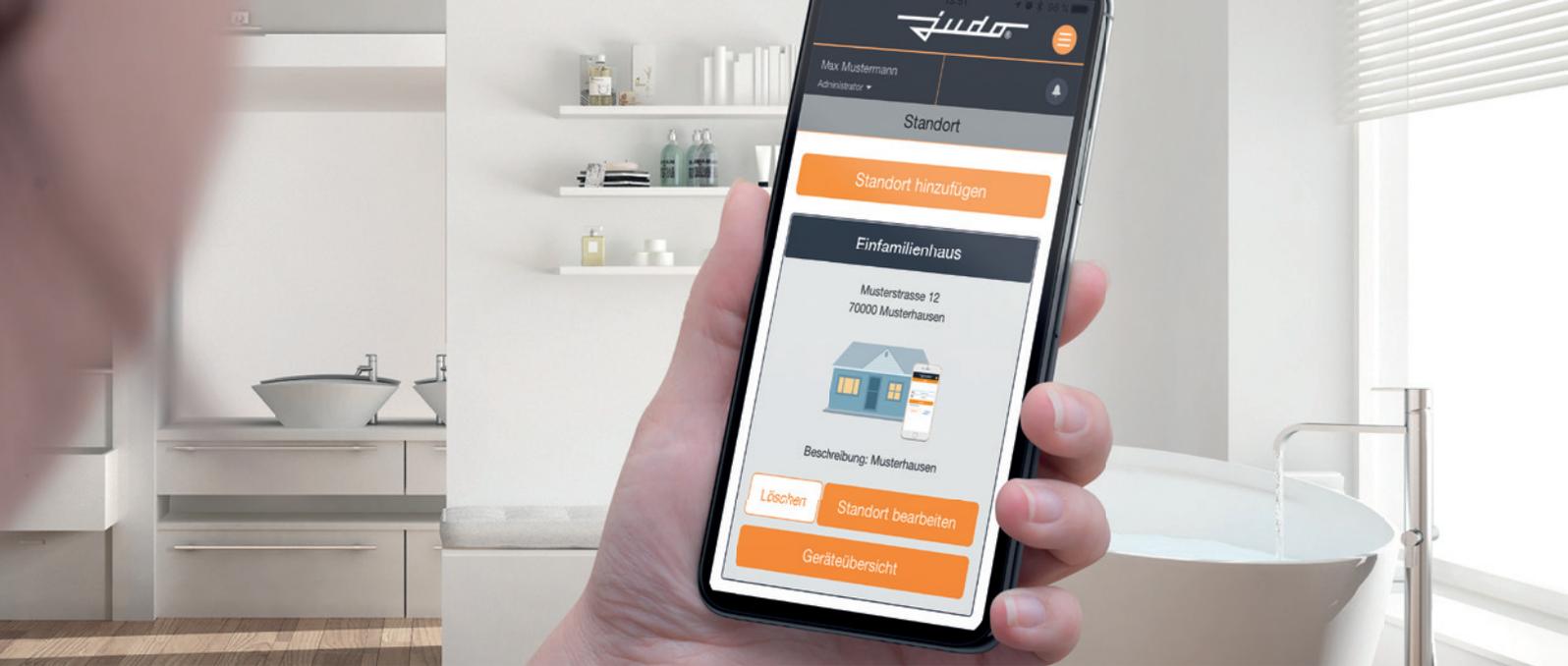
Materials						
(For mixed installations with copper and/or galvanised steel pipes, advice from a specialist is recommended)						
	Galvanised steel		Copper		Plastic	Stainless steel
1. Soft $\leq 8,4$ °dH					as required	as required
			Specialist advice required!			
2. Medium 8,4 - 14 °dH						
3. Hard $\geq 8,4$ °dH						
After softening					as required	as required

Typ SW	Typ W	Typ H*	Typ C
As corrosion protection for galvanised pipelines for very aggressive water in the hardness range „soft“.	Predominantly as corrosion protection for galvanised pipes and copper pipelines for water in the hardness range „soft“ and „medium“ as well as after softening plants.	Predominantly as limescale protection for all pipe materials in the hardness range „medium“ and „hard“.	As corrosion protection for copper pipelines after softening plants.
Mineral solution.	Mineral solution + mineral tablets	Mineral solution + mineral tablets	Mineral solution

*JUL-H has passed the efficacy test according to DVGW W 512 (protection against scale buildup). As an alternative to JUL-H, a JUDO softening system can be used in the hardness range „hard“ for partial softening to reduce the water to a residual hardness of approx. 8 °dH.



Milk contains over 400 times more phosphate than water treated with JUDO minerals



SMART DATA RECORDING

...ideal for landlords and property managers

Although treated drinking water minerals are only a fraction of the total amount ingested by humans, the Drinking Water Ordinance requires documentation of the substances and information to consumers in certain cases.

The so-called „entrepreneur and the other owner of a water supply system“ is responsible. This also includes landlords or managers appointed by a community of owner-occupied apartments.

Under § 16 para. 4, the Drinking Water Ordinance stipulates that treatment substances and their concentrations in the drinking water must be recorded.

Data recording must be done once a week. The documents or data must be accessible for six months for the to consumers or made available on request.

Easy change of JUL mineral solution

In order for the system to accurately calculate the range of the JUL mineral solution and to ensure that the right solution is used, i-dos eco containers as well as JUL mineral tablets are labelled with a 4-digit activation code.

You can find more information at:
www.judo.eu/freischaltcode

You have the choice: Replace the solution completely or use the refill option with mineral tablets.





DOCUMENTATION

JUDO i-dos eco takes care of that.

The i-dos eco dosing system relieves the operator of a lot of documentation work. The system determines the type of JUL mineral solution used, the container size, and the amount of solution added.

The system stores a history of all the relevant values of the past 6 months which can be exported to a USB stick. Very simple, safe, and paper-saving.

Brand new: With an existing internet connection, the data can be retrieved via the JU-Control web interface as a PDF document. An invaluable advantage, especially when several systems are operated simultaneously.



Easy to reach, protected by a cover: the USB port to retrieve data.



Various display messages via the capacitive keyboard

TECHNICAL DATA

JUDO i-dos eco 3 - 60 – Fully automatic dosing systems

Model		i-dos eco 3	i-dos eco 4	i-dos eco 10	i-dos eco 25	i-dos eco 60
Working range according to DIN EN 14812 and DIN 19635-100, lower / upper working		0,06 - 4	0,06 - 4	0,08 - 10	0,08 - 24	0,08 - 24
Suitable for a max. water consumption of m ³ /month *		30	60	200	400	1.000
Recommended residential units		1 - 3	2 - 6	5 - 10	10 - 40	30 - 100
Pipe connection inch		1"	1"	1¼"	1½"	2"
Max. back pressure bar		8	8	8	8	8
Max. operating pressure bar		8	8	8	8	8
Pressure loss at upper working limit bar		0,8	0,8	0,8	0,8	0,8
Dosing tank capacity litres		3	6	25	25	60
Treated water volume per dosing container m ³ of water		24 - 40	48 - 80	200 - 330	200 - 330	480 - 800
Connectivity		LAN and USB 3.0				
Installation dimensions mm	A	195	195	230	252	280
	B	209	209	240	240	320
	B1	95	95	-	-	-
	C	104	104	689	689	847
	D	321	356	-	-	-
	E	309	309	-	-	-
	K	90	90	90	141	141
	K1	35	35	35	-	-
	L	172	172	177	222	222
	M	54	54	54	85	85
	N	73	73	73	63	63
	O	287	287	385	385	474
	P = Nutzbare Schlauchlänge	1.400	1.400	1.400	1.400	1.400
S	240	280	-	-	-	
Order number		8120030	8120031	8120032	8120033	8120034

* If no consumption data is available, a water consumption of 10 m³ per month and residential unit can be assumed. The water consumption of one person is 3,5 - 7 m³ per month, depending of residential unit's features.

Accessories

Order number

JUDO i-dos eco / JULIA transmission cable for potential-free fault and empty tank signals.

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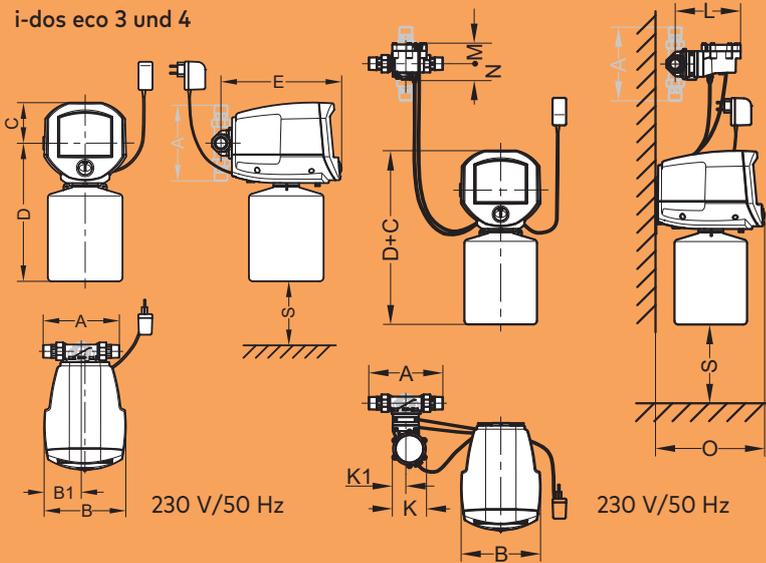


The ZVSHK quality mark provides guidance and safety for the plumbing and HVAC trade. With the "Certified Manufacturer – Quality, Safety, Service" mark, ZVSHK uses a transparent procedure to certify manufacturers that provide the best possible support for the operational processes of the plumbing and HVAC specialist; through high product quality, extensive service offers and research and development investment.

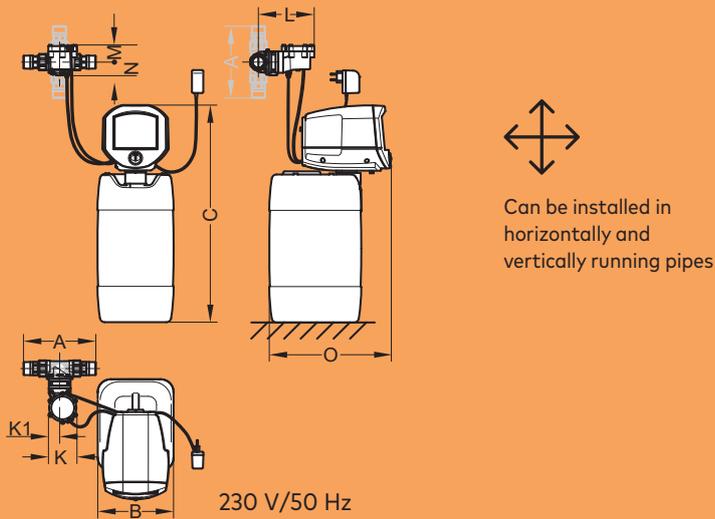


The ISO 9001 quality management standard is nationally and internationally the most widespread and most important standard in quality management. With ISO 9001 certification, our quality management system meets the high requirements - and is continuously developed further on the basis of these requirements.

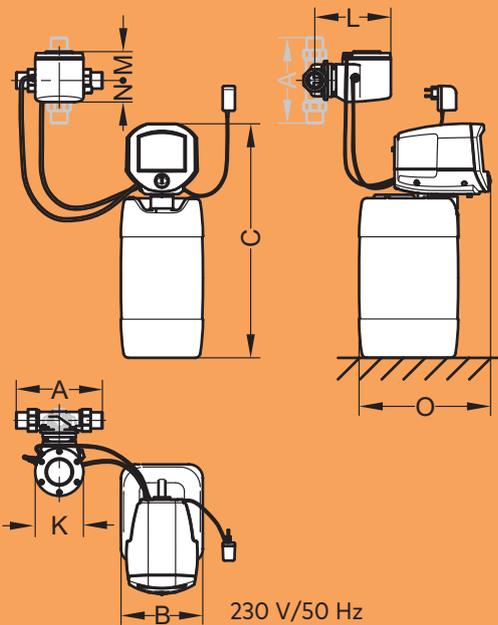
i-dos eco 3 und 4



i-dos eco 10



i-dos eco 25 - 60



For up to 100 residential units:
JUDO i-dos eco 60



WATER IN PERFECTION – SINCE 1936.



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