



Regumaq X

Fresh water stations

Hygiene at the touch of a button.



Hot potable water –
reliably hygienic,
just in time.



The requirements grow.

Our modular solutions grow with them.

COMBINE CLEVERLY

At Oventrop, we recognised early on that potable water hygiene is a topic that is as complex as it is sensitive. Therefore, we have continuously developed modular products over the last few years, with which you can reliably fulfil the increased demands on potable water hygiene.

With our Aquanova system, we provide you with a pioneering solution with which you can solve potable water hygiene in a holistic, flexible and reliable manner.

HYGIENE AT THE TOUCH OF A BUTTON

Our Regumaq X fresh water stations heat potable water exactly when it is needed. This continuous flow principle is particularly hygienic - because when hot potable water is stored, large quantities of germs can develop, such as the dangerous legionella bacteria.

Regumaq fresh water stations are available *in three variants with different performance levels*. This means you have the right solution for every situation, from detached houses to multiple dwellings or non-residential buildings.

ADVANTAGES



- + **Reliable hygiene** for hot potable water preparation – no hot potable water reserve required
- + **Heat exchanger with Sealix® protective layer** (optional) – thus safe even in critical water conditions
- + **Energy efficient** due to particularly low excess temperature – loading of the buffer storage cylinder at low temperatures
- + **Optimal for regenerative system concepts** due to operation with a buffer storage cylinder

The Regumaq X stations as part of the Aquanova system



Regumaq X-25

Regumaq X-45

Regumaq X-80

Regtronic KM-TCP

CLEAN HOT POTABLE WATER

If you want to plan potable water distribution and hygiene holistically, then our modular **Aquanova system** is the right solution - the **Regumaq fresh water stations** function reliably as part of the system.

You can adjust the discharge capacities and the required excess temperatures individually to the system parameters. This makes the **Regumaq fresh water stations** the *pioneering solution for low temperature systems and systems with regenerative energy concepts*. The discharge capacity can be increased – for example in the case of special requirements or changes in use - by connecting stations in parallel. *Discharge capacities of up to 500 litres per minute are then possible.*

HOT POTABLE WATER IN BUILDING AUTOMATION SYSTEMS? SMARTLY CONTROLLED.

With the **Regtronic KM-TCP** you can network our *fresh water stations with the building automation system* – and thus ensure hygiene and operational safety. For example, the **Regtronic KM-TCP** controls thermal disinfection, adjusts settings and issues error messages.



Regumaq
Fresh water station



Aquastrum UP-Therm



Aquastrum C



Aquastrum F
with water sampling valve



Aquastrum VT



Optibal TW



Regudrain
Hygiene flushing station



Aquastrum P



Regtronic KM-TCP



Domestic water station

Powerful and reliable – the variants of the Regumaq X stations.



Suitable for
heat pumps



Suitable for
heat pumps

DESIGN PLUS
powered by: ISH



REGUMAQ X-25 FOR DETACHED HOUSES

1381125 | 27

Copper brazed | Sealix® protective layer

- Compact and powerful
- System parameters adjustable via DIP switch
- Suitable for low temperature systems
- Fast control technology through turbine sensor technology and LIN pump technology
- Simple one-man installation



REGUMAQ X-45 FOR MULTIPLE DWELLINGS

1381140 | 42

Copper brazed | Sealix® protective layer

- Powerful and versatile in use
- Intuitive glass touch control panel with user or expert mode for qualified tradespeople
- Numerous additional functions such as return water stratification or reheating
- Suitable for low temperature systems
- Precise control technology through turbine sensor technology and LIN pump technology (parallel connection possible)
- Simple one-man installation

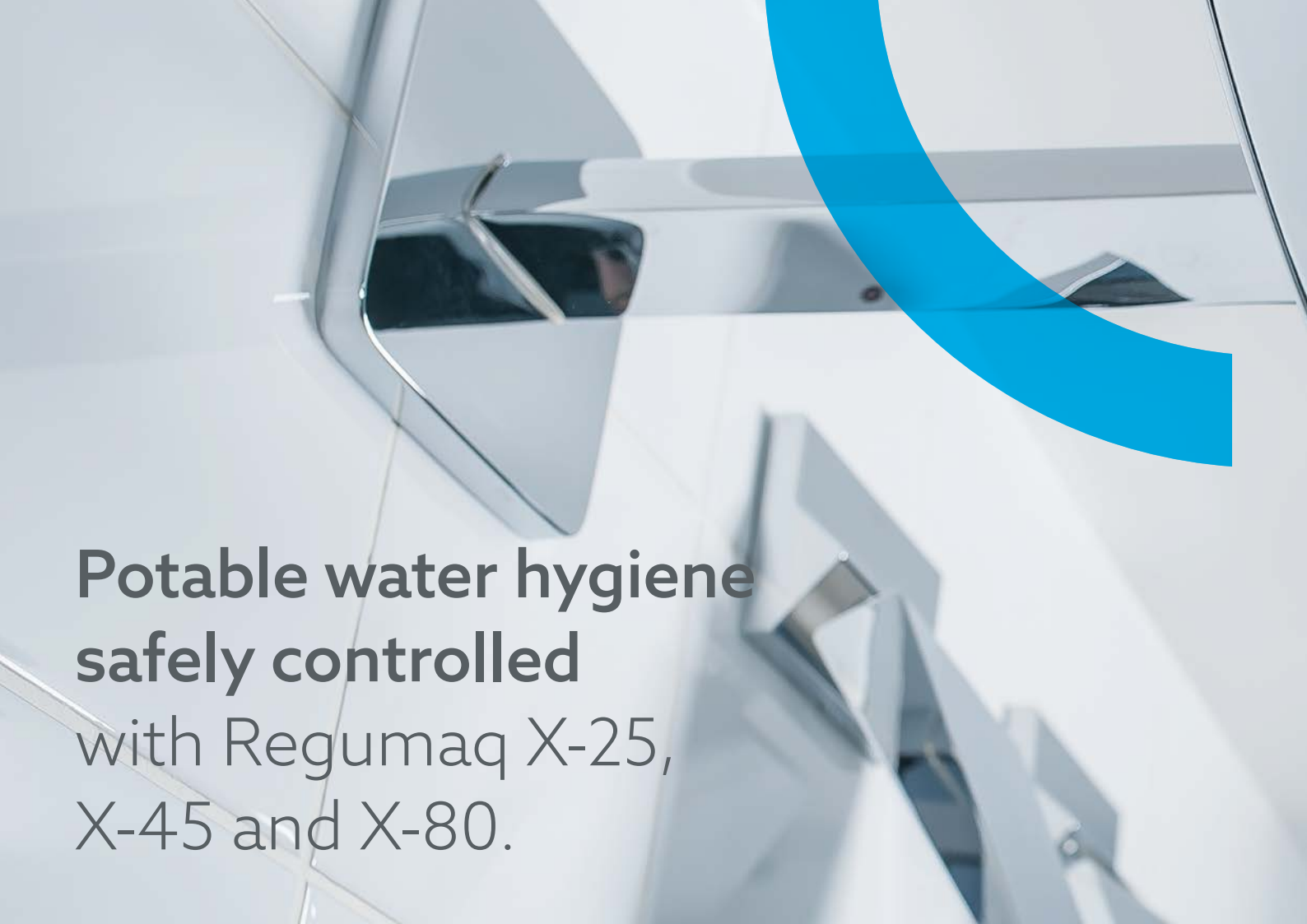


REGUMAQ X-80 FOR MULTIPLE DWELLING AND NON-RESIDENTIAL BUILDINGS

1381580 | 82

Copper brazed | Sealix® protective layer

- Particularly powerful
- System parameters adjustable with electronic controller Regtronic RQ
- Connection to the Datalog CS-BS data logger possible: network, visualise or access remotely
- Web interface for setting and reading out the controller or forwarding the controller data to the building management system (BMS)



Potable water hygiene safely controlled with Regumaq X-25, X-45 and X-80.

Regumaq X-25 and X-45

These two make potable water hygiene simply safe.

We have focused on simple operation for these two fresh water stations: The **Regumaq X-25** is *especially designed for detached houses* and can be easily set to the required system parameters on site using DIP switches. The **Regumaq X-45** has a glass touch control panel that can be *operated intuitively* – the numerous additional functions can also be set here. When the station is operated in expert mode for qualified tradespeople, a coloured ring lights up.

The hydraulically optimised pipe routing and the high-performance plate heat exchanger make *high discharge capacities* possible. In addition, you can individually adjust the discharge capacities and required excess temperatures to the system parameters. Especially with *low temperature systems such as heat pump systems*, this achieves a positive overall energy balance.

Your customers benefit from a *responsive and precise temperature control* – which we achieve through pump communication via LIN bus and a flow turbine that responds particularly sensitively.

MODULAR OPTIONS FOR SPECIAL APPLICATIONS

You can rely on *safe hot potable water preparation* even in critical water conditions:

Optionally, the heat exchanger is available with our pioneering, self-cleaning **Sealix®** protective layer – additional safety for special applications.

Even in small spaces, you can install the optional potable water circulation set with or without a high-efficiency pump and thus maintain potable water hygiene. You can quickly set the different operating modes with the new operating concept.



Safe hot potable water preparation "just in time"



Responsive and precise temperature control



The optimum variant for every building requirement

Regumaq X-80

High performance at all levels.

Hot potable water preparation not only "just in time" and without storage but also **on a large scale**: the electronically controlled **Regumaq X-80** product group is ideal for multiple dwellings, hotels, hospitals, nursing homes or sports facilities. With the Regumaq X-80, regenerative system concepts are optimally implemented. It is connected to a buffer storage cylinder that is heated by solar energy or solid fuels such as oil or gas.

THE CONCEPT: ALWAYS SAFE

We have designed the **Regumaq X-80** so that it can precisely control even the **smallest potable water volume flows** of 1 l/min.

The circulation pump on the buffer side (primary circuit) is speed-controlled, depending on the temperature and the volume flow on the potable water side (secondary circuit). There is no contamination, as there is a turbulent flow in the heat exchanger and thus a good **self-cleaning effect** is achieved. The components of the heat exchanger system

have flat sealing connections, are pre-assembled on a support plate and tested for leaks.

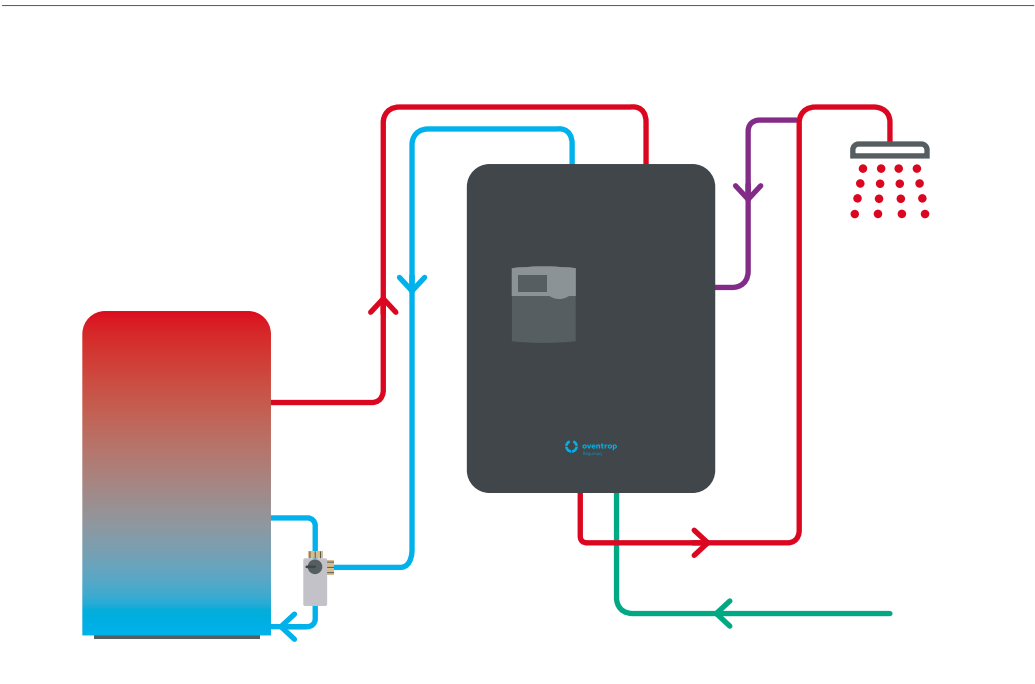
WE CONTROL POTABLE WATER HYGIENE IN A PIONEERING WAY

The **Regtronic RQ** electronic controller can be connected to the **Datalog CS-BS** data logger via a data bus (S-bus). This allows you to **set, network and visualise** system parameters – or access the system remotely. The controller can then be set and read out via a web interface, and controller data can be forwarded to the building management system (BMS). This allows the **operating behaviour of the entire system to be optimised**.

Large performance range

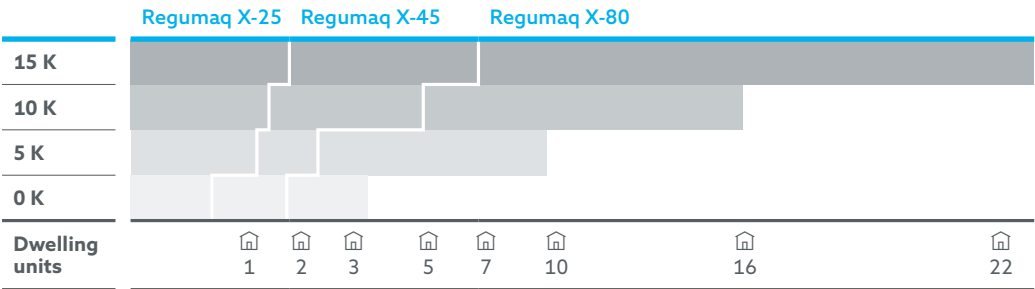
with the lowest excess temperature.

SYSTEM
ILLUSTRATION USING
THE REGUMAQ X-80
AS AN EXAMPLE



■ Potable water cold (PWC) ■ Potable water hot (PWH) ■ Potable water hot circulation (PWH-C)

PERFORMANCE RANGES

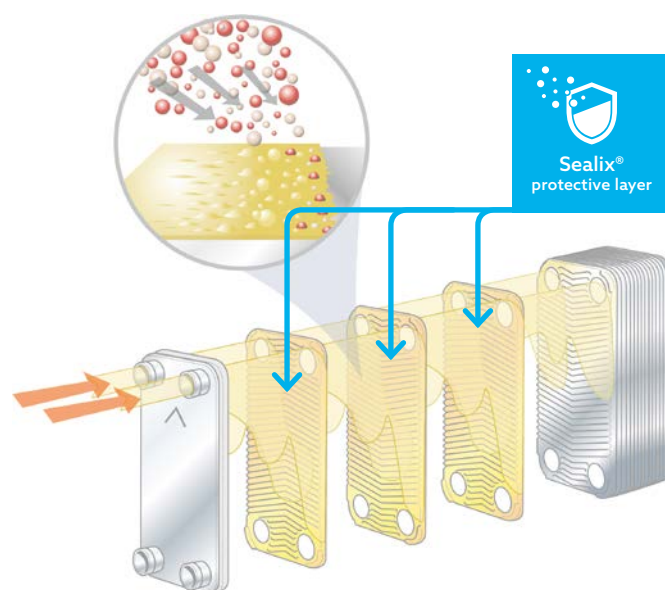
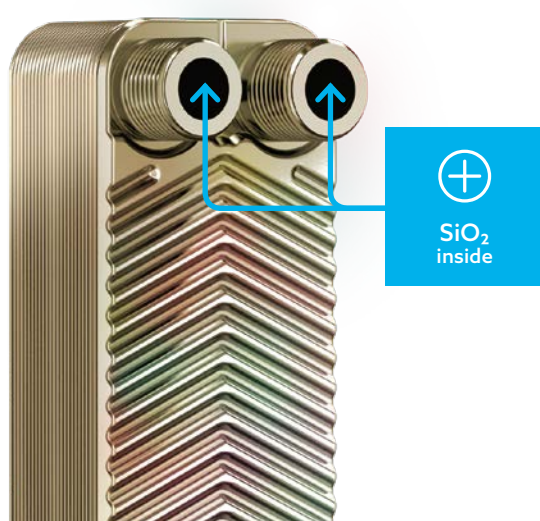


REQUIRED EXCESS TEMPERATURE

Required excess temperature	0 K		15 K
Regumaq X-25: Performance range	14 l/min	to	25 l/min
Regumaq X-45: Performance range	24 l/min		45 l/min
Regumaq X-80: Performance range	38 l/min		77 l/min

According to SPF test procedure

Keeps its promise: the Sealix[®] protective layer



Sealed with silica for additional safety
in locations with critical water conditions
(chloride content up to 300 mg/l at 60 °C)

Optionally, our Regumaq fresh water stations are available with Sealix[®] protective layer.

This creates **additional safety** at installation sites with critical water conditions, as it protects the heat exchanger all around - against corrosion, calcification and fouling.

ADVANTAGES OF THE SEALIX[®] PROTECTIVE LAYER

- + Surface with lotus effect reduces deposits
- + Low calcification risk
- + Longer service life due to primary and secondary protection
- + Highest media resistance
- + Repellent surface structure
- + Reduced maintenance costs



Room climate



Hydronics



Stations,
Storage
cylinders



Potable water



Oil, Solar



Smart Home,
Smart Building

Oventrop is the partner for efficient heating, cooling and clean potable water. The modular systems and services offer pioneering solutions which all HVAC experts use to work with – easily and flexibly – from planning to installation, from industry to trade. As a family business, Oventrop accompanies all its partners over many years - competently and personally.