

ROC  
**BWT bestaqua 14**

**ROC your water**

ROcket science  
ROcket technology  
ROcket usability

A QUANTUM LEAP FOR WATER OPTIMISATION  
IN THE FOOD SERVICE SECTOR

A man and a woman are seated at a table in a restaurant, engaged in conversation. The woman is on the left, wearing a light-colored sleeveless top, and the man is on the right, wearing a white shirt. They are both looking towards each other. The table is set with a white tablecloth, plates of food, and glasses. In the background, there are large windows and a blurred interior of the restaurant. A blue rectangular shape is visible in the top right corner of the image.

# Water Treatment

## REDIFINED.

BWT water+more has completely redefined its equipment with reverse osmosis technology, making it more compact, more efficient, and with even better performance. BWT bestaqua 14 ROC is setting new standards in water optimisation for the food service sector. Never has it been so easy, reliable and cost-effective to treat local drinking water to achieve pure water for the specific requirements of the food sector.

### INNOVATION FOR PURE WATER.

A visible identifier for this new generation of devices is the innovative membrane module, which at first sight looks like one of the regular BWT water+more water filters that have proven themselves millions of times over already. But it's what's inside this module that sets it apart. It is equipped with one of the most high-performance membranes in the world to come from BWT. It will run and run... maintenance-free and always ultra-efficiently. The BWT bestaqua 14 ROC reverse osmosis really plays to its strengths in situations where there is high demand for pure water or a high level of unwanted substances in the raw water and where what is wanted is standardised water optimisation that produces reliable results worldwide.

# BWT BESTAQUA 14 ROC – FUNCTIONAL ELEMENTS

## PUMP FOR


### CONSTANT PRESSURE

- » Consistently high efficiency regardless of the main pressure
- » Long membrane service life

## FINE SENSOR TECHNOLOGY

- » Flow rate and pressure
- » In and Out conductivity
- » Temperature
- » All relevant operating parameters monitored

## CONTROL AND MONITORING

- » Via app on Smartphone Android and iOS
- » Bluetooth interface 
- » Secure protocol



## HIGH-QUALITY HOUSING IN ALUMINIUM

- » Hygienic surface
- » Easy to clean
- » Sound-insulated

## MEMBRANE MODULE BWT BESTAQUA MEMBRANE

- » Ultra-efficient
- » Continuously high permeate yield of approx. 50%

## SETTING AND CONTROL

- » Control of all the relevant operating parameters

## SILICON PADS AND FOLDING HINGE

- » Solid base stand
- » Simple membrane module replacement

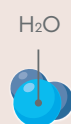
# BWT BESTAQUA 14 ROC – HOW REVERSE OSMOSIS WORKS

## RAW WATER

Unwanted substances CANNOT PASS through the membrane

### TYPICAL UNWANTED SUBSTANCES IN RAW WATER

- Limescale [calcium carbonate]
- Gypsum [calcium sulphate]
- Particles
- Calcium
- Magnesium
- Sodium
- Potassium
- Sulphate
- Carbonate
- Chloride
- Off-flavours
- Chlorine
- etc.



PRESSURE

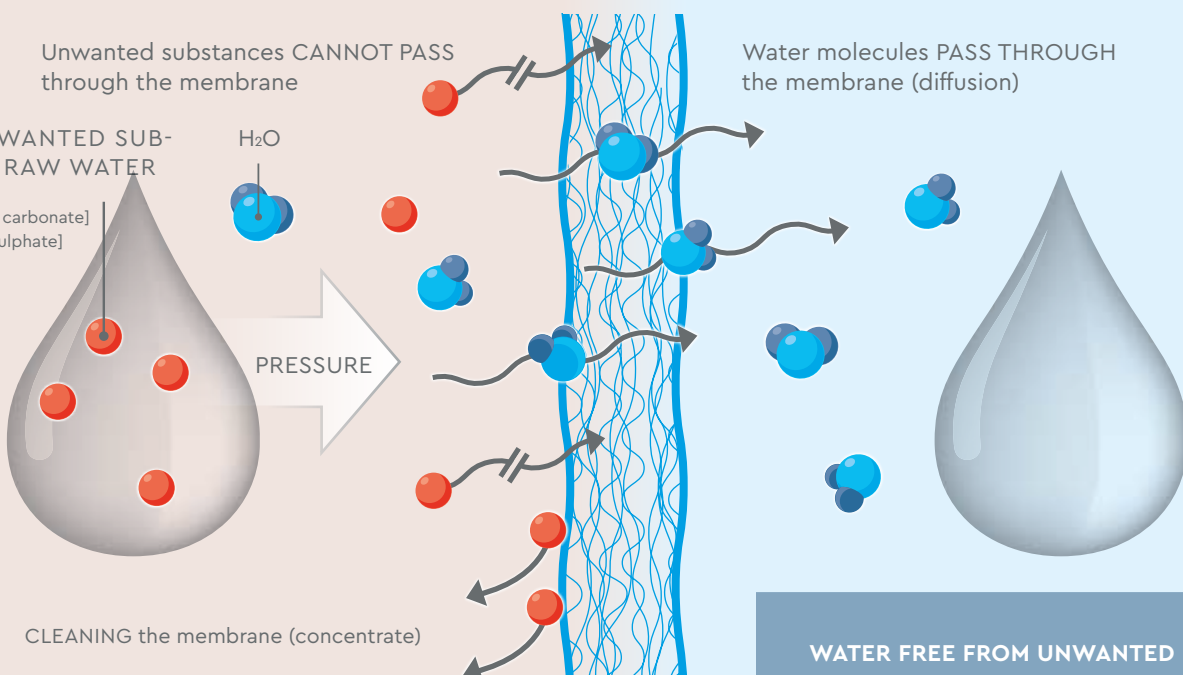


## HIGH-PERFORMANCE MEMBRANE

## PURE WATER (PERMEATE)

Water molecules PASS THROUGH the membrane (diffusion)

CLEANING the membrane (concentrate)



## WATER FREE FROM UNWANTED SUBSTANCES, IDEAL FOR

- » Compact dishwashers
- » Baking ovens
- » Steam ovens
- » Coffee machines (always with remineralisation filters from BWT water+more)
- » Combination steamers
- » Steam boilers

# Winning

## AT THE FINISH.

Guests have high expectations. Restaurateurs can only comprehensively satisfy their needs in a perfect ambience. And however banal it may sound, guest satisfaction has a lot to do with perfecting the "basics", such as the washing of dishes and cutlery. BWT bestaqua 14 ROC is one of the best devices for water optimisation, enabling everything that comes to the table to appear in perfect condition. Its pure water prevents marks from drying on and stops smearing. For consistently flawless crockery, brilliant glasses and sparkling cutlery, along with the eyes of your guests likewise gleaming in satisfaction. And, by the way, it can also save you a lot on cleaning products and on polishing glasses and cutlery by hand.



### TECHNICAL DATA

KEY DATA	
Permeate performance <sup>1</sup>	2 L/min = 120 L/h
Salt retention rate	> 97 %
Permeate yield <sup>1,2,3</sup> (WCF)	approx. 50 %
OPERATING CONDITIONS	
Min. feed water flow rate	4.2 L/min = 250 L/h
Concentrate flow rate	approx. 2.0 L/min = 120 L/h
Feed water pressure	0.15–0.4 MPa = 1.5–4 bar
Feed water temperature	5–30 °C
Ambient temperature	5–40 °C
POWER	
Power supply	230 V/50 Hz, ≥ 6 A protection
Protection class	IP 54
Equipment fuse	1.25 A, time-lag
Power consumption	200 W, Standby < 3 W
Equipment connection	EC-60320 C13
Cold appliance connection cable	1.8 m, CEE 7/4, IEC-60320 C13
FEED AND DRAINAGE LINES	
Feed water	M 3/4"
Permeate	M 3/8"
Concentrate	John Guest 5/16"
External tank	John Guest 5/16"
DIMENSIONS AND WEIGHT	
Dimensions (W x D x H)	153 x 271 x 505 mm
Weight	10,3 kg
ORDER NUMBERS	
BWT bestaqua 14 ROC	RS81M01A00
BWT bestaqua MEMBRANE Size 14	RS00Y61A00

### IMPORTANT!

The BWT bestaqua 14 ROC may only be supplied with cold water of drinking quality.

WCF: Water Conversion Factor  
TDS: Total Dissolved Solids  
SDI: Silt Density Index

1) The performance indicated applies for operation without permeate back-pressure at a water temperature of 15 °C. The performance achievable in practice depends on various parameters, such as the feed water quality, water temperature back-pressure on the permeate side etc., and may therefore deviate slightly from the value shown here.

2) The use of a feed water pre-treatment unit or a particle and activated carbon filter such as the BWT besttaste is recommended.

3) The default setting is for a WCF value of approx. 50% at standard conditions (see ref. 1). The total WCF of device may vary due to local conditions and default settings, eg. rinsing cycles.

Errors and omissions excepted, subject to change without notice.

# Perfection

## IN THE PROCESS.



BWT bestaqua 14 ROC was designed for tough applications in the food service sector. It is ideal for producing very pure water, such as that needed to produce steam for combination steamers or steam ovens, or for a steam feed when baking. It also enables all unwanted substances to be removed from the water effortlessly, allowing the water to vaporise entirely without residues. Critical components remain free from water-induced encrustations, and the

risk of chloride-induced corrosion to stainless steel parts can be minimised. In short, water optimisation using the BWT bestaqua 14 ROC is the best preventative care that can be given to equipment in the food service sector. And the best side-effect of this for users? Less expenditure on cleaning, low downtimes, and enormous potential savings on maintenance and repair.

### CONTROL

Reverse osmosis controlled and monitored extremely easily via an app on the smartphone

### INTEGRATED TECHNOLOGY

Reverse osmosis developed specifically for the restaurant trade

# ROC

### GREEN

Sustainable reverse osmosis with extremely low waste water generation and resource consumption

### TURN

Infinitely adjustable bypass setting for targeted, demand-driven demineralisation



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FOR YOU AND PLANET BLUE.