



## The Purists

### Innovation for pure water Reverse osmosis technology reimagined.

The visible sign of this new generation of appliances is the innovative membrane module. At first glance it looks like one of the millions of tried and tested water filters from BWT water+more. It is fitted with one of the most effective membranes in the world from BWT, which just keeps on going ... maintenance-free and always highly efficient.

The BWT bestaqua ROC reverse osmosis (RO) system primarily shows its strengths when the load of substances in raw water or the demand for pure water is high. And if standardized water optimization is needed it delivers reliable results worldwide when used in ovens, combi-steamers and dishwashers.

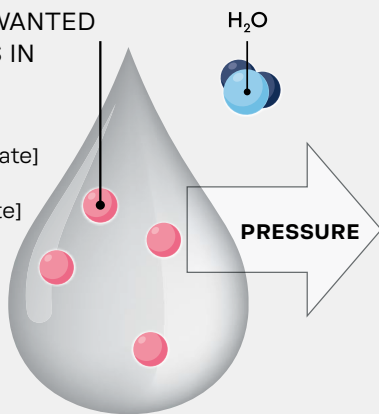
### HOW THE REVERSE OSMOSIS WORKS

#### RAW WATER

##### TYPICAL UNWANTED SUBSTANCES IN RAW WATER

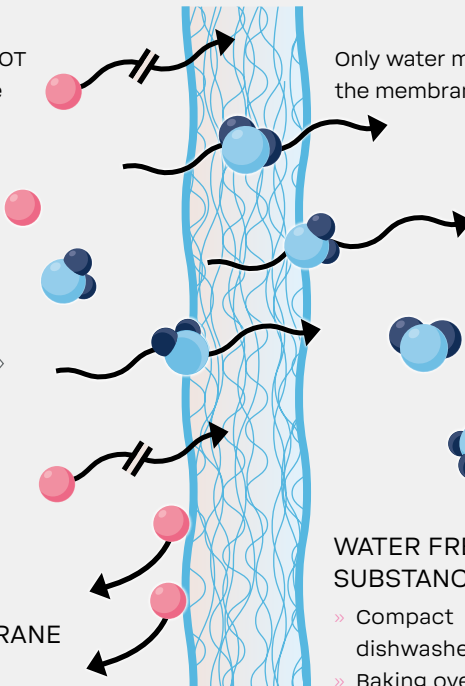
- Limescale [calcium carbonate]
- Gypsum [calcium sulphate]
- Particles
- Calcium
- Magnesium
- Sodium
- Potassium
- Sulphate
- Carbonate
- Chloride
- Off-flavours
- Chlorine
- etc.

Unwanted substances CANNOT PASS through the membrane



CLEANING THE MEMBRANE (CONCENTRATE)

#### HIGH-PERFORMANCE MEMBRANE



Only water molecules PASS THROUGH the membrane (diffusion)

#### PURE WATER (PERMEATE)



WATER FREE FROM UNWANTED SUBSTANCES, IDEAL FOR

- » Compact dishwashers
- » Baking ovens
- » Ice cube maker
- » Combination steamers
- » Steam ovens
- » Steam boilers

## TECHNICAL DATA ROC-SYSTEM, COMPLETE

KEY DATA	BWT bestaqua 14 ROC	BWT bestaqua 16 ROC
Permeate performance <sup>1</sup>	2 L/min = 120 L/h	3 L/min = 180 L/h
Salt retention rate	> 97%	> 97%
Permeate yield <sup>1,2,3</sup> (WCF)	approx. 50%	approx. 50%
OPERATING CONDITIONS		
Min. feed water flow rate	4,2 L/min = 250 L/h	6,0 L/min = 360 L/h
Concentrate flow rate	approx. 2,0 L/min = 120 L/h	ca. 3,0 L/min = 180 L/h
Feed water pressure	0,15–0,4 MPa = 1,5–4 bar	0,15–0,4 MPa = 1,5–4 bar
Feed water temperature	5–30 °C	5–30 °C
Ambient temperature	5–40 °C	5–40 °C
POWER		
Power supply	220–240 V / 50–60 Hz / 10 A	220–240 V / 50–60 Hz / 10 A
Equipment fuse	T1.25AL250V	T1.25AL250V
Power consumption	200 W, Standby < 3 W	260 W, Standby < 2 W
Equipment connection	IEC-320	IEC-320
Cold appliance connection cable	1,8 m, CEE 7/4, IEC-60320 C13	1,8 m, CEE 7/4, IEC-60320 C13
Protection class	IP21	IP21
FEED AND DRAINAGE LINES		
Feed water	M 3/4"	M 3/4"
Permeate	John Guest 8 mm	John Guest 8 mm
Concentrate	John Guest 8 mm	John Guest 8 mm
DIMENSIONS AND WEIGHT		
Dimensions (W x D x H)	153 x 271 x 505 mm	158 x 337 x 531 mm
Weight (dry)	10,3 kg	14,6 kg
ORDER NUMBER		
BWT bestaqua ROC	RS81M01A00	125255111

### IMPORTANT!

The BWT bestaqua 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.

### \* Recommendation:

- Replace the membrane regularly after 12 months, but at the latest after 24 months or if the flow rate is reduced.  
 Errors and omissions excepted, subject to change without notice.

## 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
- » Conductivity measurement in outlet water (permeate)
- » Temperature
- » All relevant operating parameters monitored

### SILICONE PADS AND FOLDING HINGE

- » Solid base stand
- » Simple membrane module replacement



### 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 %
- » Simple membrane replacement – no tools required

### SETTING AND CONTROL

- » Control of all the relevant operating parameters
- » Bluetooth interface

## TECHNICAL DATA FILTER CARTRIDGES

DIMENSIONS AND WEIGHT	BWT bestaqua 14 Membrane	BWT bestaqua 16 Membrane
Connection height in mm	424 mm	451 mm
Ø filter cartridge in mm	130 mm	147 mm
Weight, approx. (dry)	1,9 kg	2,7 kg
Weight, approx. (wet)	4,0 kg	5,7 kg
OPERATING CONDITIONS		
Nominal flow rate (bypass closed)	120 L/h	180 L/h
Operating pressure	~7 bar	~8 bar
Inlet water pressure (min.)	>1,5 bar	>1,5 bar
Water temperature (min.–max.)	4–30 °C	4–30 °C
Ambient temperature (min.–max.)	4–40 °C	4–40 °C
Ambient temperature during storage/transport (min.–max.)	4–40 °C	4–40 °C
Installation position	Vertical	Vertical
Filter change after month	after 12 or 24*	after 12 or 24*
ORDER NUMBER		
	RS00Y61A00	125258720

### OPTIONAL FOR YOUR BWT BESTAQUA ROC:

We recommend checking the installation situation of the BWT bestaqua 14 ROC / 16 ROC on site and, if necessary, install a pressure tank and pre-filter. This ensures optimum functionality.

ORDER NUMBER	ARTICLE DESCRIPTION
RS00Z08A00	Pressure tank 8 liters incl. mounting kit
RS00Z09A00	Pressure tank 12 liters incl. mounting kit
RS00Z10A00	Pressure tank 19 liters incl. mounting kit



### CONTROL

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

### GREEN

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

### INTEGRATED TECHNOLOGY

Reverse osmosis developed specifically for the restaurant trade.

### TURN

Infinitely adjustable bypass setting for targeted, demand-driven demineralization.

MANUFACTURER:

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