



# **SALES CATALOGUE**

**2024** INTERNATIONAL SALES  
WATER TREATMENT IN PERFECTION

CHANGE  
THE WORLD -

**SIP  
BY  
SIP**

A pink globe with a white map of the world is the central background. The text 'SIP BY SIP' is written in large, bold, white, sans-serif capital letters across the center of the globe. The globe has a soft glow and a lens flare effect on the right side. The background is a gradient of light pink to white.

# WE CHANGE THE WORLD - SIP BY SIP

*Dear Readers,*

*It is our pleasure to present the new International Edition of our Sales Catalogue. Enjoy reading and be welcome to participate in BWT's unique approach of making the best out of local water, customized on every need and wish. With the climatic and social challenges, our long-term goal to provide people all over the world with healthy, safe, tasty drinking water directly out of the tap and at the same time reduce single-use plastic waste, transport and CO<sub>2</sub> emissions has never made more sense than today.*

*Over the last decades, the bottled water market saw a consumption volume increasing regularly worldwide. This tendency will continue in the coming years, causing CO<sub>2</sub> emissions, unnecessary transport and create tons of plastic waste.*

*This is why we have a dedicated mission: to **change the world – sip by sip** – by filtering local water and enriching it with valuable minerals and trace elements such as magnesium, zinc or silicate. Our innovative, patented technologies enable people around the world to enjoy fresh, great-tasting, mineralized water straight from the tap, thus eliminating the use of disposable plastic bottles.*

*We invite you to act with us. You can make a valuable contribution and set a clear example for sustainability and a sensitive approach to the way you use our precious resource, water. Say NO to single-use plastic and help make our planet a little bit better – sip by sip. Thank you for following us on our path.*



*We want to use local water resources to help making the world a better place, sip by sip.*

**Andreas Weißenbacher**  
BWT founder and CEO





# LET'S SAY "NO" TO SINGLE-USE PLASTIC BOTTLES

## OUR PLANET BLUE IS AWASH WITH PLASTIC WASTE:

no wonder, as plastic is readily available, robust, temperature-resistant, unbreakable and can be moulded into any shape. Many disposable items are produced alongside reusable plastic items, especially single-use plastic bottles, which are thrown away after use. The volume of plastic waste has been growing worldwide for years

and now threatens to suffocate our planet. Here are some facts:

- 1,200,000 plastic bottles are generated worldwide per minute and transported around the globe
- 2050 there will be more plastic than fish in the oceans
- 350 % the transport of goods will increase

**The figures clearly show that we have to act now.**

**With our initiative „CHANGE THE WORLD - SIP BY SIP“ we have launched an appeal.**

**Let's change something! Every day, sip by sip.**



OUR SOLUTION:

## LOCALLY TREATED MINERALIZED WATER, THE BWT PINK DOT!

Using innovative, patented BWT technologies, BWT treats local tap water on-site to make it available at the desired quality. So fresh, tasty drinking water – enriched with valuable minerals and trace elements such as magnesium, zinc or silicates – comes directly from the tap. "Change the World – Sip by Sip" is our daily invitation to use water more consciously. It is about making the world more sustainable, and conserving the precious resources of our blue planet. For us, our children and many more generations.

### BE THE CHANGE – THINK GLOBAL – DRINK LOCAL WATER



#### COMFORTABLE

Pleasant-tasting water  
direct from the tap



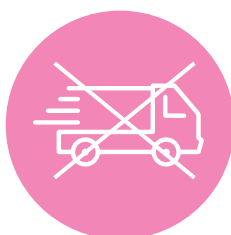
#### HEALTHY

Safe drinking water  
at every water point



#### ECONOMIC

No unnecessary transportation  
of single-use plastic bottles



#### NO ADDITIONAL CO<sub>2</sub> EMISSIONS



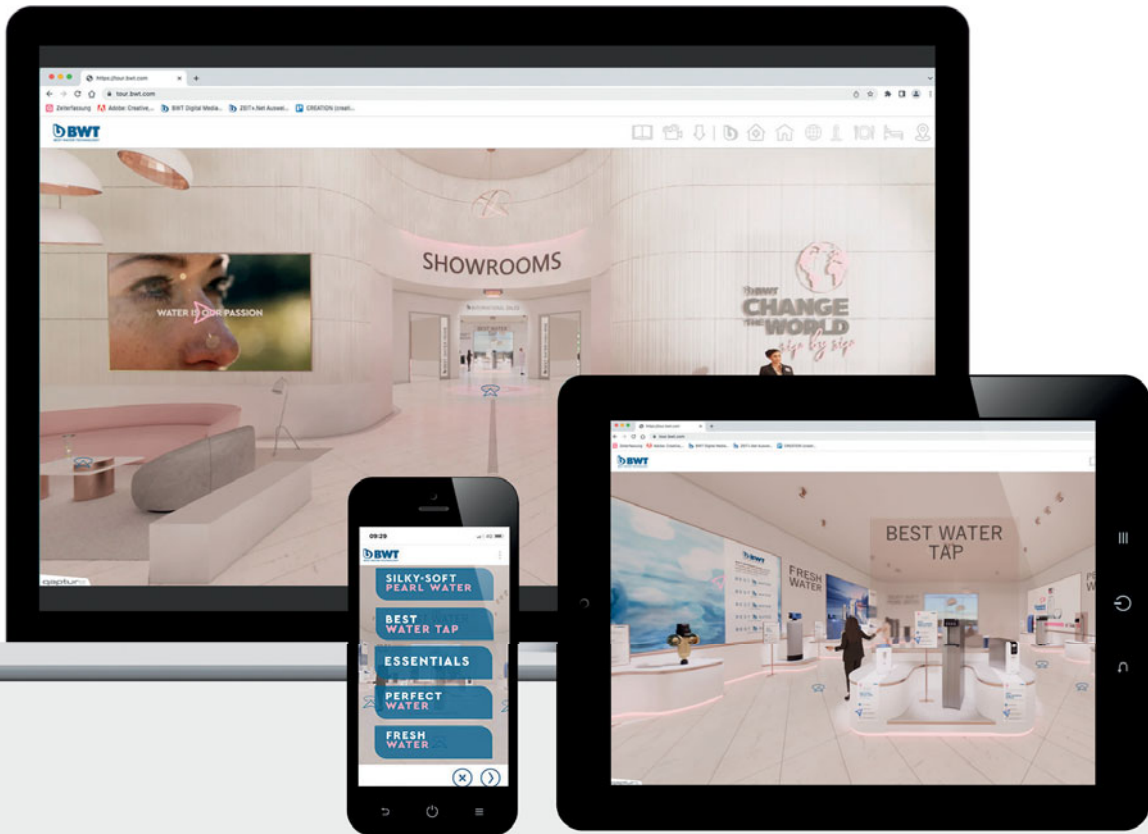
#### LESS PLASTIC WASTE

INTERNATIONAL SALES

BEST WATER HOME

BEST WATER HIGH-RISE

# NEW DIMENSIONS IN OUR **DIGITAL SHOWROOM!**



Find out more about BWT's water treatment solutions in our complete documentation available in our digital showroom. **Get inspired - we are open 24 h/7 days and just a mouse click away ...**



[www.bwt.com/showroom](http://www.bwt.com/showroom)

From small to big capacities, for residential homes to industry and trade applications – BWT provides professional water treatment and various technologies – **from one single source.**

To find your customized water treatment, look through our business areas and applications fields in our digital showroom:



BEST WATER  
HOME



BEST WATER  
HIGH-RISE



BEST WATER  
HOTELS



BEST WATER  
HEALTHCARE



BEST WATER  
RESTAURANTS



LEADING KNOW HOW  
IN ALL AREAS  
OF WATER TREATMENT

## BWT – THE BRAND YOU CAN TRUST

- » **Highest product quality** and best materials
- » **Modular, flexible package solutions** with modular, serial products for central and de-central water treatment
- » **Best service**, installation and low maintenance costs
- » **Proven experience**, leading know-how, consistent R&D
- » **Strictest hygiene concepts** according to international certified standards





# WATER IS OUR ELEMENT - **IN MANY SECTORS**

Water is not always and everywhere available in the best quality – especially drinking water.

BWT has therefore set itself the task of treating existing water on site, to make it available at the desired quality.

## **Close to people...**

Our products are developed for people and their daily interaction with water. You will find BWT technologies wherever water is used and almost everywhere: in private households, in commerce and industry, in pharmaceuticals and biotech, in hotels and hospitals as well as in municipalities and cities.



### **DRINKING WATER**

Individual water treatment: Drinking water mineralised with magnesium, zinc and silica.



### **DOMESTIC TECHNOLOGY**

Silky-Soft Pearl Water in shower and bath. Heating protection, filtration systems and much more.



### **COMMERCIAL TECHNOLOGY**

Highest hygienic safety for drinking and process water installations. Pure and ultrapure water for industrial processes.



### **PHARMA AND BIOTECH**

Systems and solutions for supply of ultra-pure media for medicine, pharmaceuticals and cosmetics.



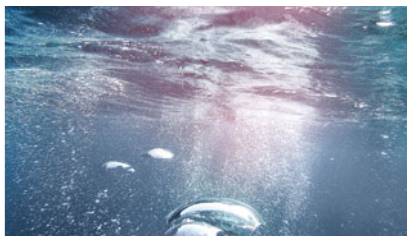
### **GASTRONOMY**

Water treatment for professional coffee machines, dishwashers and kitchen appliances such as steam cookers, ovens, ice machines, water dispensers and much more.



### **SWIMMING POOL TECHNOLOGY**

Individual swimming pool solutions for private households, hotels and municipalities.



### **SEAWATER DESALINATION**

Saltwater treatment for the different requirements in the most remote areas of this world.



### **FUEL CELL**

The energy converter of the 21st century – with zero emissions. Membranes for a future-oriented energy and water supply with hydrogen as THE energy carrier.





# BEST WATER AT HOME

## ENJOY, PROTECT AND SAVE.

**BWT whole house solutions** for good water at every point in your house. No matter if in the shower, at the kitchen sink or by enjoying freshly washed and smooth clothes, with **BWT's BEST WATER HOUSE** complete satisfaction is always and everywhere guaranteed.

- » **24/7 FRESH WATER:** free of any disturbing smell, colour or taste throughout the whole house
- » **Extend life of household appliances:** No blocked faucets or pipings; no limescale – neither in the bath nor in any technical application
- » **More comfort with silky-soft PEARL WATER** in shower and bath; enjoyable soft clothes out of the laundry
- » **Additional protection by BWTs Safety Plus package:** Automatic stop of water supply in case of any leakages within the house
- » **Peace of mind:** Automated operation requiring minimum of manual intervention; no frequent replaceable pieces

### INSTALLATION REQUIREMENTS

To be installed next to the water meter, where the water enters the (on your service balcony, in the basement or garden) and

- » a minimum 1 m<sup>2</sup> space
- » Electricity
- » A drain



In compliance with highest worldwide standards set by Deutsche Verein des Gas- und Wasserfaches (DVGW)





# **BEST WATER TAP**

## THE WHOLE WORLD OF BWT IN MINIATURE.

To complete **BEST WATER HOUSE** or for single sink solutions. **BEST WATER TAP** offers you all the steps of a full-grown water treatment plus our unique and patented mineral supplements: Magnesium, Silicate and Zinc.

- » **Full customization** in a modular concept
- » **Tasty drinking water in the kitchen** - at one water point
- » **Plug & play**
- » **Space-friendly** - Ideal for rentals
- » **Enriched with Magnesium Mineralized** - Patented technology, only by BWT

### INSTALLATION REQUIREMENTS

- » Set under the kitchen sink
- » No electricity needed
- » No waste water

### **BEST WATER HOME: THE BEST OF BOTH WORLDS** FOR A UNIQUE 360° PROTECTION

With BWT whole house water treatment completed with our unique set of mineralized cartridges, the best water quality is available at any time.



manufactured according to  
**HACCP**  
STANDARD

Production under clean room conditions according to HACCP food grade standards set by the NASA for food astronauts



# CONTENTS

## 01 BWT ESSENTIALS

In the role of a 'safeguard', BWT ESSENTIALS are the first step of water treatment. Particle filtration protects pipes and appliances against sediments, dirt, rust, etc., prevents clogging and bacterial growth.



E1 Single-Lever Filter	p. 23
R1 Backwash Filter	p. 27
BWT Bolero	p. 28
BWT Protector BW	p. 29
BWT Protector Mini C/R	p. 30
Infinity Manual	p. 32
Infinity Automatic	p. 33
Multipur Manual / Automatic	p. 34
BWT Connection Technology	p. 36

## 02 BWT FRESH WATER

Discover our 'experts' for the most difficult water problems, e.g. bad smell and taste, chlorine, organics, heavy metals or arsenic. The BWT Multi-layer filters are tested under toughest conditions and convince through high-quality filter media.



BWT Multi range	p. 50
Bewamat COMB / PRO	p. 55

## 03 BWT PEARL WATER

BWT PEARL WATER systems transform hard water into silky-soft Pearl Water – for softer skin and silkier hair, and to protect bathrooms and household appliances against limescale.



BWT Perla series	p. 62
BWT Perla Silk	p. 75
BWT Bewamat	p. 76
AQUADIAL softlife	p. 77
Rondomat Duo series	p. 81
Equipment & accessories	p. 84

## 04 ANTI-SCALING TECHNOLOGY

Stabilize the limescale dissolved in the water with unique nano-crystal technology. So the limescale remains in the water but cannot be deposited.



AQA total Energy p. 92  
AQA nano p. 95

## 05 BWT PERFECT WATER

Keep your water free of harmful bacteria, viruses and germs with BWT UV disinfection, RO systems or ozone technology. BWT PERFECT WATER – for a maximum of hygiene & safety. Reliable and environmentally friendly.



Bewades series p. 103  
BWT RO<sub>3</sub>UV p. 109  
BWT Bewazon p. 113  
PERMAQ® Pico p. 119

## 06 BEST WATER TAP

Enjoy safe and tasty water enriched in minerals – right from your kitchen tap. Think global, drink local water, drink responsible.



BWT Woda-Pure series p. 128  
BWT THERO p. 132  
BWT BESTAQUA ROC p. 133

## 07 SPECIAL APPLICATIONS

Unique sustainable solutions to protect your drinking and heating water system.



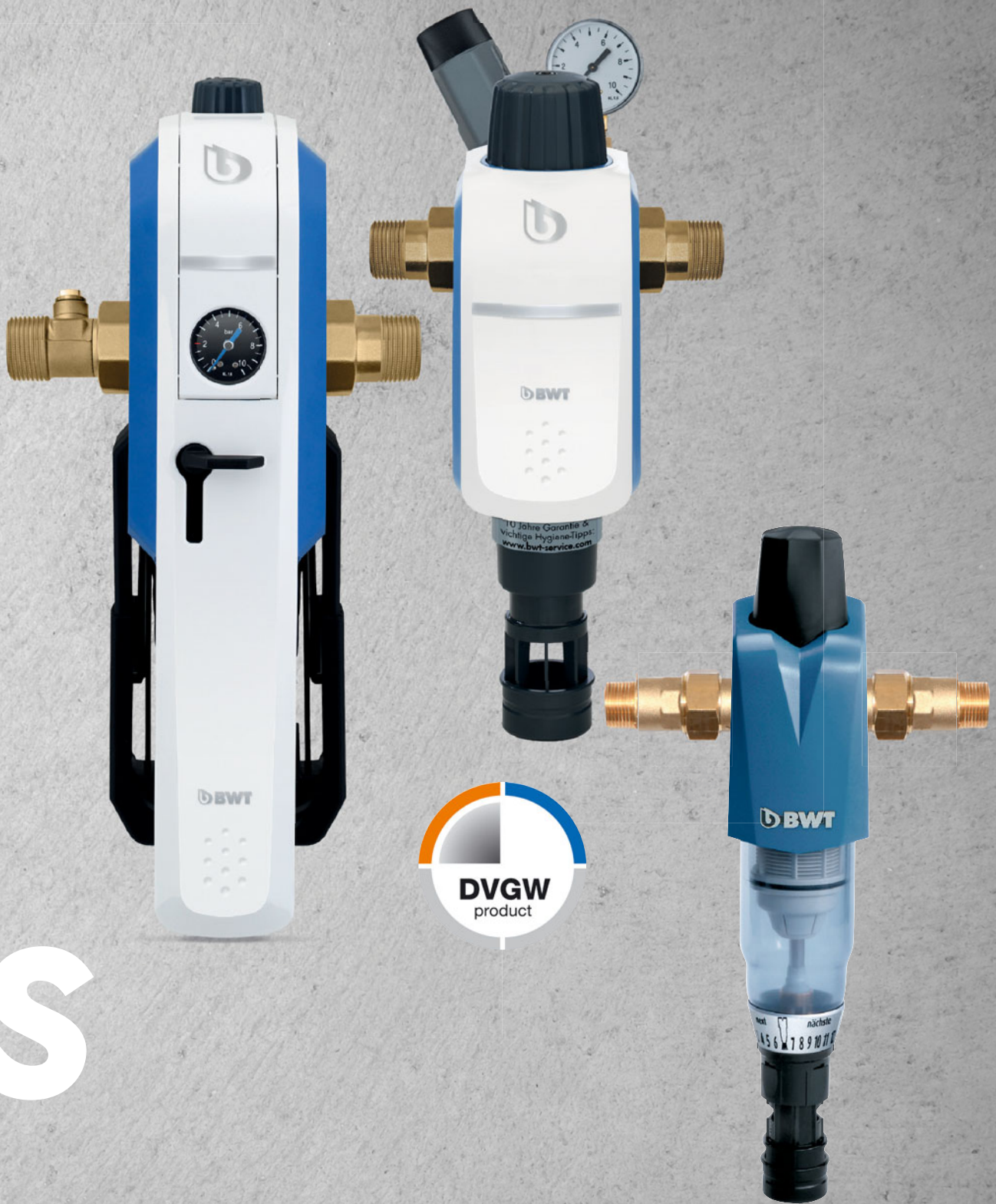
Dosing Technology p. 138  
AQA therm MOVE power p. 150  
AQA therm heating protection p. 151  
Rapid descaling p. 154



# **BWT ESSENTIAL**

PARTICLE FILTRATION - BASIC PROTECTION  
FOR THE DRINKING WATER SYSTEM

# LS



# PROTECTION FILTER

## SELECTION TABLE



	E1	R1	BOLERO
	Single lever filter	Manual backwash filter	Manual backwash filter
<b>Domain of Application</b>			
<b>Accommodation units</b>	1-5	1-10	1-30
<b>Protection against damage of installations and household appliances by dirt particles</b>	■	■	■
<b>Protection against pitting corrosion</b>	■	■	■
<b>Consumables</b>	Half yearly filter replacement	Every 6 years filter replacement	Every 6 years filter replacement
TECHNICAL FEATURES			
<b>Connection method</b>	integrated/HydroMODUL	HydroMODUL	HydroMODUL/4-hole connection
<b>Waste Water</b>	NO	YES	YES
<b>Manual intervention</b>	Half yearly filter replacement	Monthly manual backwash	Monthly manual backwash
<b>With pressure reducer</b>	- / ■	- / ■	- / ■
<b>Time or differential pressure controlled</b>	-	-	-
<b>Page number</b>	22	26	28

■ included    □ optional    - not available

### EXTRACT FROM DIN 1988-200: 2012-05 12.3.3 SOLID PARTICLES

Solid particles, without taking account of their nature or origin, settle in pipes. As a result, they can produce differently ventilated areas in the pipes, in which the metal that is covered with the deposit acts as an anode. Deposits can also encourage the propagation of microorganisms. Such occurrences can cause corrosion, which is left undetected and can lead to perforations in pipes. Solid particles can also lead to functional problems for connected fittings and equipment.





PROTECTOR BW	PROTECTOR MINI C/R	INFINITY M	INFINITY A AND AP	MULTIPUR M		MULTIPUR AP	
Manual backwash filter	Manual rinse filter	Manual + backwash filter	Automatic backwash filter	Manual backwash filter		Automatic backwash filter	
1-4	1	1-30	1-30	1-100	1-200	1-100	1-200
■	■	■	■	■	■	■	■
■	■	■	■	■	■	■	■
Every 6 years filter replacement	Half yearly filter replacement	Every 6 years filter replacement	Every 6 years filter replacement	Every 6 years filter replacement	Every 6 years filter replacement	Every 6 years filter replacement	Every 6 years filter replacement
integrated	integrated	HydroMODUL/4-hole connection	HydroMODUL/4-hole connection	Flange	Flange	Flange	Flange
YES	YES	YES	YES	YES	YES	YES	YES
Monthly manual backwash	Monthly manual backwash	Monthly manual backwash	Automatic	Monthly manual backwash	Monthly manual backwash	Automatic	Automatic
-	-	- / ■	- / ■	-	-	-	-
-	-	-	- / ■	-	-	■	■
29	30	32	33	34	34	35	35



# ***BWT ESSENTIALS***

## **MOTIVES & BENEFITS**

### **YOUR FIRST HYGIENIC STEP**

On the way from the water supplier to the house, dirt particles such as sand or rust can get into the water and subsequently into the water installation.

New connections, repairs to the public pipe network or soil surge in rainy seasons may cause foreign particles to enter the plumbing. These impurities can cause leaky

faucets, attack your pipework and lead to corrosion and costly damage to household appliances. In addition, these contaminants are an optimal breeding ground for germs and bacteria in the pipes, which affects the drinking water hygiene.

### **ADVANTAGES AT A GLANCE**

With our whole house filter line, BWT ESSENTIALS, the results are immediate:

- Perfectly clean pipes for highest hygiene
- Protection of any subsequent water treatment
- Protection of appliances and fittings in bathrooms and kitchens



## 01 FOR ALL DOMAIN OF APPLICATIONS

A mixture of traditional and modern materials, unique technology and many years of experience; for the protection of plant and equipment, process water and the overall improvement of drinking water quality.



## 02 FOR MAXIMUM PROTECTION IN MAINS WATER INSTALLATIONS

BWT ESSENTIALS are installed at the point where the water enters your home. They prevent extraneous particles from penetrating the domestic system and ensure optimum protection, clean pipes and perfectly clean water throughout the house.



## 03 PERFECTLY HYGIENIC WITH BWT FULL-RINSE TECHNOLOGY

For your daily comfort and your safety, all BWT backwash filters are fitted with patented two-phase backwash technology according to the effective principle of suction:

1. Coarse particles trapped in the filter mesh are sucked off and
2. flushed out during backwash process

With our fully automatic function even cleaning is settable without manual intervention ensuring perfect hygiene in the filter cup and uninterrupted filtered water.





# ***E1 SINGLE- LEVER FILTER***

HYGIENIC, COMFORTABLE, SAFE

An optimally maintained water protection filter is important for the hygiene of the water and should be available in every house as part of the domestic water installation. Be on the safe side and rely on the outstanding quality of BWT by installing the E1 single-lever filter. In addition, the integrated pressure reducer helps to save up to a third of water.



[CLICK HERE FOR E1 CLIP](#)



## E1 SINGLE-LEVER FILTER

With high-quality comfort controls, a free reminder service for maintenance and a beautiful design, it ensures protection and security for a lifetime.

### 01 INNOVATIVE SINGLE-LEVER SYSTEM

Unlock, pull up the lever and insert the new hygiene vault. No other product like the E1 single-lever filter from BWT, perfectly combines simple operation with optimal drinking water hygiene.



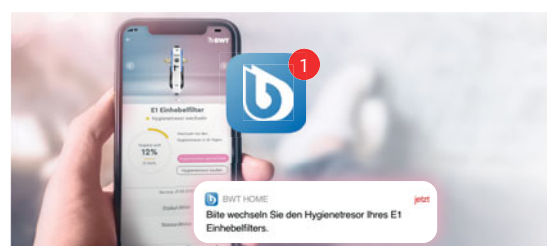
### 02 EXTENSIVE PROTECTION

Drinking water hygiene is no coincidence. Regular maintenance of the protective filter is essential. In order to make the maintenance of the protective filter even more convenient and safe, BWT developed the E1 single-lever filter with a hygiene vault and free reminder service via the Best Water Home app or email.



### 03 BEST WATER HOME APP

When registering your product at [www.myproducts.bwt.com](http://www.myproducts.bwt.com) or in the Best Water Home App, an email remind to change the filter element.





# E1 HYGIENE VAULT

CHANGED IN LESS THAN 30 SECONDS WITHOUT SPLASHING

## 01 UNLOCK

Unlock the lever and thus simultaneously and automatically stopping the water



## 03 INSERT

Insert the new hygiene vault (filter cup and filter element). Close the lever. Unlock. Finished.



## 02 LIFT

Lift the single-lever to eject the hygiene vault and filter element.



LARGER FILTER SURFACE ELEMENTS, SEPARATELY AVAILABLE:

FILTER ELEMENT WITH 30 µm AVAILABLE



Hygiene vault PLUS

WITH 30% MORE FILTER SURFACE



100µ Filter element PLUS

# E1 SINGLE-LEVER FILTER

## E1 HOUSE WATER STATION (HWS) WITH PRESSURE REDUCER

BWT E1 HWS			
Type filter element	E1	E1	E1 PLUS
Order no.	40384	40385	40386

## E1 EHF WITHOUT PRESSURE REDUCER

BWT E1 EHF		DN 32
Type filter element	E1	E1 PLUS
Order no.	40382	40383

## TECHNICAL DATA

		EHF	EHF	HWS	HWS	HWS
Connection width	DN	20+25	32	20	25	32
Flow rate at $\Delta p = 0,2$ bar (2.9 psi)	m <sup>3</sup> /h (gpm)	1.6 (7)	2.8 (12.3)	-	-	-
Flow rate at $\Delta p = 0,5$ bar (7.3 psi)	m <sup>3</sup> /h (gpm)	2.3 (10.1)	3.6 (15.8)	-	-	-
Flow rate	m <sup>3</sup> /h (gpm)	-	-	2.3 (10.1)	3.6 (15.8)	4 (17.6)
Filter Mesh size	$\mu$ m	100				
Operating pressure min./max.	bar (psi)	2-16 (29-232)				
Distance pipe center to wall min./max.	mm	80-120				
Dimensions HxW	mm	381x185	399x218	399x197	399x199	399x218
Order no.		40382	40383	40384	40385	40386

## HYGIENE VAULT & FILTER ELEMENTS

	DESCRIPTION	ORDER NO.
1	E1 Hygiene vault 100 $\mu$ m*	20393
	E1 Hygiene vault 30 $\mu$ m*	20375
2	E1 Filter element 2pcs 100 $\mu$ m**	10386
3	E1 Hygiene vault PLUS 100 $\mu$ m with 30 % larger filter area	20395
4	E1 Filter element PLUS 100 $\mu$ m 2pcs with 30 % larger filter area	20394



E1 HWS

E1 EHF

- Produced in accordance with the strict standards of hazard analysis and critical control points (HACCP)



E1 HYGIENE VAULT



E1 FILTER ELEMENTS 2PCS



E1 HYGIENE VAULT PLUS



E1 FILTER ELEMENTS PLUS 2PCS





# BWT E1 HYDROMODUL

DOCK – TWIST – SECURE



## FASTER FILTER ASSEMBLY WITH THE PROVEN HYDROMODUL CONNECTION TECHNOLOGY

- The BWT E1 HydroMODUL can be combined with existing BWT connection modules (with / without pressure reducer). With just one filter you are prepared for every installation situation.
- Vertical installation – thanks to the HydroMODUL connection, the BWT E1 can now also be installed in vertical drinking water pipes, even without an additional wall bracket.
- Faster filter element change – without tools, so simple, hygienic and safer than ever.

### NECESSARY FOR INSTALLATION!

Connection module **with pressure reducer** (HWS – DN20, DN25, DN32)



**OR**

Connection module **without pressure reducer** (EHF – DN20, DN25, DN32)





# BWT E1 HYDROMODUL SIZE I



E1 HYDROMODUL

## BWT E1 EHF MODULE FILTER SIZE I

Order no. 40388

### CONNECTION MODULE WITHOUT PRESSURE REDUCER

CONNECTION MODULE	DN 20	DN 25	DN 32
Overall length mm without/with fitting	100/184	100/184	105/203
Order no.	10866	10874	10868

### CONNECTION MODULE DR WITH PRESSURE REDUCER

CONNECTION MODULE DR	DN 20	DN 25	DN 32
Overall length mm without/with fitting	100/184	100/184	130/228
Order no.	20860	20862	20861

CONNECTION TECHNOLOGY



Don't forget!  
To be ordered separately!  
(page 36)



SIZE I (3/4"-5/4")

## TECHNICAL DATA

BWT E1 HYDROMODUL		EHF & HWS					
Connection width	DN	20	25	32	20	25	32
Flow rate at $\Delta p = 0,2$ bar (2.9 psi)	m <sup>3</sup> /h (gpm)	1.68 (7.4)	2 (8.8)	2 (8.8)	-	-	-
Flow rate at $\Delta p = 0,5$ bar (7.3 psi)	m <sup>3</sup> /h (gpm)	3.17 (13.9)	3.25 (14.3)	3.1 (13.6)	-	-	-
Flow rate	m <sup>3</sup> /h (gpm)	-	-	-	1.6 (7)	3.6 (15.8)	5.8 (25.5)
Filter mesh size	$\mu$ m	100					
Operating pressure, min./max.	bar (psi)	2.5-16 (36.2-232)					
Dimensions HxW	mm	381x184	381x184	381x203	390x184	390x184	390x228
Order no.		10866	10874	10868	20860	20862	20861

## HYGIENE VAULT & FILTER ELEMENTS

DESCRIPTION	ORDER NO.
E1 Hygiene vault 100 $\mu$ m*	20393
1 E1 Hygiene vault 30 $\mu$ m*	20375
E1 Filter element 2pcs 100 $\mu$ m**	10386
2 E1 Hygiene vault PLUS 100 $\mu$ m with 30 % larger filter area	20395
3 E1 Filter element PLUS 100 $\mu$ m 2pcs with 30 % larger filter area	20394

\* Only available as 20 pcs (20 x 1 pack) per packing unit in covering box.

\*\* Only available as 24 pcs (24 x 2 pack) per packing unit in covering box.



E1 HYGIENE VAULT



E1 FILTER ELEMENT 2PCS



E1 HYGIENE VAULT PLUS



E1 FILTER ELEMENT PLUS 2PCS

**NOTE:** regular replacement of the filter guarantees long-lasting enjoyment of your domestic water station



# BWT R1 BACKWASH FILTER

PRECISE AND POWERFUL

## A WATER FILTER WITH PROVEN TECHNOLOGY

BWT's R1 backwash filter is installed at the water inlet after the water meter to keep contaminants out of water pipework and prevent dripping faucets throughout the home or malfunction of household appliances. Dirt particles such as rust and sand can be washed into the water by repair work, new connections or older

## ADVANTAGES AT A GLANCE

- Durable, robust, powerful pioneering design
- Quick installation with HydroMODUL (DN 20 to DN 32)
- For horizontal and vertical installation
- Particularly intensive cleaning through unique 2-phase backwash technology:
  - coarse particles
  - profound cleaning



public piping systems. With the installation and regular maintenance of the R1 backwash filter you ensure optimal and hygienic water for your home. The proven technology with the unique 2-phase backwash technology makes the operation of the R1 backwash filter extremely easy.

# BWT R1 BACKWASH FILTER

## INCL. HYDROMODUL CONNECTION EQUIPMENT

Compact backwash unit with a large filter area – 30µm or 90µm available High performance with 2-phase backwash, top quality, simple to use and with modern & powerful design, for **horizontal or vertical installation**. Filter complete with brass head, transparent cylinder, filter element, backwash element and connection equipment and connection threads.

### R1 HOME WATER STATION (HWS) WITH INTEGRATED PRESSURE REDUCER

R1 HWS				
Connection width	DN	20	25	32
Flow rate	m <sup>3</sup> /h (gpm)	2.3 (10)	3.6 (15.8)	5.8 (25.5)
Filter mesh size	µm		90	
Operating pressure min./max.	bar (psi)		2.5–16 (36.2–232)	
Dimensions HxW	mm	352×184	352×184	352×228
<b>Order no.</b>		<b>40369</b>	<b>40370</b>	<b>40371</b>

### R1 RSF\* WITHOUT PRESSURE REDUCER

R1 RSF				
Connection width	DN	20	25	32
Flow rate at Δ p = 0.2 bar (2.9 psi)	m <sup>3</sup> /h (gpm)	3.4 (14.9)	3.7 (16.3)	4.1 (18)
Flow rate at Δ p = 0.5 bar (7.3 psi)	m <sup>3</sup> /h (gpm)	5.4 (23.8)	6 (26.4)	6.7 (29.5)
Filter mesh size	µm		90	
Operating pressure min./max.	bar (psi)		2.5–16 (36.2–232)	
Dimensions HxW	mm	352×186	352×184	352×203
<b>Order no.</b>		<b>40364</b>	<b>40365</b>	<b>40366</b>

### FILTER ELEMENT R1

DESCRIPTION	ORDER NO.
Filter element 90µm with wiper	<b>1-902393</b>
Filter element 30µm	<b>1-904894</b>



R1 HWS



R1 RSF

FILTER ELEMENT  
WITH 30µm  
AVAILABLE



DN 20-32

DN 40-50

## BOLERO RF / HWS

- Durable, robust, high-performance
- Top price to performance ratio
- Completely packed with connection technology

## BOLERO RF/HWS

### INCL. CONNECTION EQUIPMENT

The compact backwash filter with the big filter area, with 2-phase backwash, top quality, simple to use and with modern design, **for horizontal or vertical installation**. Filter complete with brass head, transparent cylinder, filter element per DVGW guidelines, backwash element, connection equipment and connection threads.

#### BWT BOLERO RF/HWS

Connection width	DN	20	25	32	40	50
Flow rate at $\Delta p = 0.2$ bar (2.9 psi)	m <sup>3</sup> /h (gpm)	3 (13.2)	3.5 (15.4)	4 (17.6)	10.5 (46.2)	11 (48.4)
Flow rate at $\Delta p = 0.5$ bar (7.3 psi)	m <sup>3</sup> /h (gpm)	4 (17.6)	5 (22)	6 (26.4)	15.5 (68.2)	15.5 (68.2)
Filter mesh size	µm	90				
Operating pressure min./max.	bar (psi)	2.5-16 (36.2-232)				
Dimensions HxW	mm	330×184	330×184	330×203	460×240	460×260
<b>Order no. RF</b>		<b>10364</b>	<b>10365</b>	<b>10366</b>	<b>10367</b>	<b>10368</b>
<b>Order no. HWS</b>		<b>10369</b>	<b>10370</b>	<b>10371</b>	<b>10372</b>	<b>10373</b>

RF version without pressure reducer  
HWS version with pressure reducer

## FILTER ELEMENTS FOR BOLERO RF/HWS AND PROTECTOR BW

(DN20/25/32)

DESCRIPTION	ORDER NO.
Filterelement 90µm	<b>1-902393</b>
Filterelement 30µm	<b>1-904894</b>



## PROTECTOR BW

Cost efficient backwash filter for the filtration of drinking and service water.

BWT PROTECTOR BW			
Connection width	DN	20	25
Flow rate	m <sup>3</sup> /h (gpm)	3 (13.2)	3.5 (15.4)
Filter mesh size	µm	90	
Operating pressure min./max.	bar (psi)	2-16 (29-232)	
Dimensions HxW	mm	280×106	280×100
<b>Order no.</b>	<b>10547</b>		

## FILTER ELEMENTS FOR BOLERO RF/HWS AND PROTECTOR BW

(DN20/25/32)

DESCRIPTION	ORDER NO.
Filterelement 90µm	<b>1-902393</b>
Filterelement 30µm	<b>1-904894</b>



### PROTECTOR BW

- Comfortable mounting with connection threads
- Reliable protection and prevention of foreign particles in drinking and mains water
- Low operating and investment costs



# BWT PROTECTOR MINI C/R

SMALL BUT RICH IN IDEAS



## 01 PROTECTOR MINI FILTER HEAD

- Universal connection options
- Male & female connection thread, with supplied connection fitting
- Pressure gauge connection

## 02 PROTECTOR MINI FILTER ELEMENT

- Sustainable stainless steel filter element
- Filter glass can be manually unscrewed

## 03 PROTECTOR MINI FILTER GLASS WITH FLUSHING VALVE

- Tested with > 200,000 load cycles at 1.5 x nominal pressure (21 bar / 305 psi)
- Flushing valve with hose connection
- No splashing during rinse process

## BWT PROTECTOR MINI

Compact rinse filter in C/R (Cold/Rinse) version for cold water applications with high quality filter cup.

BWT PROTECTOR MINI C/R		
Connection width	DN	15
Flow rate	m <sup>3</sup> /h (gpm)	1.6 (7)
Filter mesh size	μm	100
Operating pressure min./max.	bar (psi)	1.5-16 (21.7-232)
Dimensions HxW	mm	164x133
<b>Order no.</b>		<b>10523</b>

## FILTER ELEMENTS FOR PROTECTOR MINI C/R

DESCRIPTION	ORDER NO.
Filterelement 100μm	1-905429
Filterelement 30μm	1-905526



PROTECTOR MINI C/R



# INFINITY BACKWASH FILTERS

## DECADES OF FUNCTIONAL RELIABILITY GUARANTEED

Safety has never been so long-lasting. BWT's unique patented two-phase backwashing technology is characterised by high levels of comfort and hygiene.

Manufactured with a brass head and durable transparent bowl made of impact-resistant plastic, BWT Infinity filter series is ideal for commercial installations and domestic installations with high capacity.

It protects the water pipes and the connected water-carrying system parts from malfunctions and corrosion damage caused by foreign particles such as rust particles, chips, sand, hemp, etc.

## KEY BENEFITS AT A GLANCE

- Extremely robust technology – Made In Germany – DVGW certified
- Made of materials used in high-tech industries
- Long-life filter element in 50 µm or 90 µm
- Constant water pressure and protection against pressure hammers, thanks to the optional pressure regulator
- Low operating costs
- Efficient power cut security (with the Infinity A/AP)
- Low rinsing water consumption

## 3 TYPES – WHICH ONE TO CHOOSE?

	INFINITY M	INFINITY A	INFINITY AP
Safe and reliable protection against sand and rust	x	x	x
Electricity required		x	x
Unattended operation		x	x
Automatic backwash if the mesh is dirty			x
Time-based backwashed automatically		x	x
Service costs lowest in comparison	x		



INFINITY M

## INFINITY M MANUAL

Extremely durable manual filter with 2-phase high-performance backwashing.

High-tech materials, waste drain connection DN 50, individually packed.

Types DN 20–32, size 1, for HydroMODUL-connection Types DN 40–50, size 2, with 4-hole-flange-connection

INFINITY M						
Connection width	DN	20	25	32	40	50
Flow rate at $\Delta p = 0.2$ bar (2.9 psi)	m <sup>3</sup> /h	3.5	4.5	5.5	10	10
	(gpm)	(15.4)	(19.8)	(24.2)	(44)	(44)
Flow rate at $\Delta p = 0.5$ bar (7.3 psi)	m <sup>3</sup> /h	6	6.5	9	15.5	15.5
	(gpm)	(26.4)	(28.6)	(39.6)	(68.2)	(68.2)
Filter mesh size	µm	90				
Operating pressure min./max.	bar	2–16				
	(psi)	(29–232)				
Dimensions HxW	mm	550×184	550×184	550×198	550×240	550×260
<b>Order no.</b>		<b>10305</b>			<b>10306</b>	



Can be added to BWT Best Water Home App



# INFINITY BACKWASH FILTERS

## INFINITY A AND AP AUTOMATIC

### INFINITY A

Fully automatic backwash filter that cleans itself at settable intervals. The rinsing intervals can be changed easily when necessary and are displayed on an LCD display.

### INFINITY AP

Identical with the Infinity A, but with additional differential pressure monitoring (time priority) and potential-free output for optical and acoustical remote control.

High-tech materials, waste drain connection DN 50, individually packed.  
 Type A and AP: 24V-connection, electronic control unit to control backwash interval.  
**AP with additional differential pressure controlled backwashing (time priority)** and potential-free contact for optical and acoustic remote control, max. 4 filters can be installed in parallel to increase flow rate. For horizontal and vertical installation. Locking cable is included.  
 Types DN 20-32, size 1, for HydroMODUL-connection  
 Types DN 40-50, size 2, with 4-hole-flange-connection

INFINITY A AND AP						
Connection width	DN	20	25	32	40	50
Flow rate at $\Delta p = 0.2 \text{ bar (2.9 psi)}$	m <sup>3</sup> /h (gpm)	4 (17.6)	5 (22)	5.5 (24.2)	10 (44)	10 (44)
Flow rate at $\Delta p = 0.5 \text{ bar (7.3 psi)}$	m <sup>3</sup> /h (gpm)	7 (30.8)	7.5 (33)	9 (39.6)	16 (70.4)	16 (70.4)
Filter mesh size	$\mu\text{m}$	90				
Operating pressure	bar (psi)	2.5-16 (36.2-232)				
Dimensions HxW	mm	550x184	550x184	550x198	550x240	550x260
<b>Order no. A</b>		<b>10194</b>			<b>10191</b>	
<b>Order no. AP</b>		<b>10258</b>			<b>10259</b>	

CONNECTION TECHNOLOGY



Don't forget!  
To be ordered separately!  
(page 36)

## FILTER ELEMENTS (SAME SIZE FOR ALL INFINITY TYPES)

DESCRIPTION	ORDER NO.
Filter element 50 $\mu\text{m}$	<b>2-060841</b>
Filter element 90 $\mu\text{m}$	<b>2-060562</b>
Filter element 200 $\mu\text{m}$	<b>2-060398</b>
Filter element 300 $\mu\text{m}$	<b>2-060791</b>

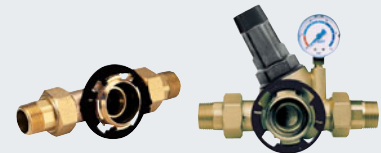


INFINITY A/AP

- Made of materials used in high-tech industries
- Proven patented 2-phase backwash technology
- HWS version with pressure regulator



SIZE I / SIZE II



SIZE I (DN 20-32)



SIZE II (DN 40-50)

FILTER ELEMENT  
WITH 50µm &  
200µm  
AVAILABLE



## MULTIPUR M

- Efficient cleaning process due to suction ring system (12 times faster than others)
- 90 % of the filter surface is used for filtering during backwashing
- Economic solution - low backwash water consumption
- Integrated rinsing water connection according to DIN 1988

# MULTIPUR BACKWASH FILTERS

MULTIPUR backwash filters are designed for high flow rates up to 105 m<sup>3</sup>/h and are a perfect solution for industrial and building applications. Also here BWT offers you its patented two-phase backwash technology, an unique suction ring backwash system, 12 times faster than other systems.

## WHICH ONE TO CHOOSE?

	MULTIPUR M	MULTIPUR A
Safe and reliable protection against sand and rust	x	x
No electricity required	x	
Unattended operation		x
Automatic backwash if the mesh is dirty		x
Time-based backwashed automatically		x
Service costs lowest in comparison	x	

## MULTIPUR M MANUAL

Filter complete with red brass housing, filter and backwashing elements, flange connection PN 10 according to DIN 2501, part 1 (counter flanges built in on site), with stainless steel filter element 100 µm.

MULTIPUR					
Connection width	DN	50	65	80	100
Flow rate at Δ p = 0.2 bar (2.9 psi)	m <sup>3</sup> /h (gpm)	20 (88.1)	35 (154.1)	35 (154.1)	56 (246.6)
Flow rate at Δ p = 0.5 bar (7.3 psi)	m <sup>3</sup> /h (gpm)	6 (140.9)	6.5 (255.4)	9 (255.4)	15.5 (361)
Filter mesh size	µm	100 / 200			
Operating pressure min./max.	bar (psi)	2.5-10 (36-145)			
Dimensions HxW	mm	600×220	600×220	600×220	660×220
<b>Order no.</b>	<b>100 µm</b>	<b>10449</b>	<b>10185</b>	<b>10186</b>	<b>10562</b>
<b>Order no.</b>	<b>200 µm</b>	-	<b>10187</b>	<b>10188</b>	-

MULTIPUR			
Connection width	DN	125	150
Flow rate at Δ p = 0.2 bar (2.9 psi)	m <sup>3</sup> /h (gpm)	57 (251)	61 (268.6)
Flow rate at Δ p = 0.5 bar (7.3 psi)	m <sup>3</sup> /h (gpm)	91 (400.7)	105 (462.3)
Filter mesh size	µm	100	
Operating pressure min./max.	bar (psi)	2.5-10 (36-145)	
Dimensions HxW	mm	740×220	740×220
<b>Order no.</b>	<b>100 µm</b>	<b>10563</b>	<b>10564</b>

# MULTIPUR BACKWASH FILTERS

## MULTIPUR AP AUTOMATIC

Filter complete with red brass housing, filter and backwashing elements, flange connection PN is executed automatically and electronically controlled. The process is differential pressure controlled with time priority. Optical operation and fault indication, transformer plug with safe 12 V low voltage and possibility of manual rinsing. Fault signal (potential-free contact) for building management system available. No additional differential manometer necessary.

MULTIPUR				
Connection width	DN	65	80	100
Flow rate at $\Delta p = 0.2$ bar (2.9 psi)	m <sup>3</sup> /h (gpm)	35 (154.1)	35 (154.1)	56 (246.6)
Flow rate at $\Delta p = 0.5$ bar (7.3 psi)	m <sup>3</sup> /h (gpm)	58 (255.4)	58 (255.4)	82 (361)
Filter mesh size	$\mu\text{m}$	100 / 200		
Operating pressure min./max.	bar (psi)	2.5-10 (36-145)		
Dimensions HxW	mm	630x220	630x220	680x220
<b>Order no.</b>	<b>100 <math>\mu\text{m}</math></b>	<b>10181</b>	<b>10182</b>	<b>10565</b>
<b>Order no.</b>	<b>200 <math>\mu\text{m}</math></b>	<b>10183</b>	<b>10184</b>	-

MULTIPUR			
Connection width	DN	125	150
Flow rate at $\Delta p = 0.2$ bar (2.9 psi)	m <sup>3</sup> /h (gpm)	57 (251)	61 (268,6)
Flow rate at $\Delta p = 0.5$ bar (7.3 psi)	m <sup>3</sup> /h (gpm)	91 (400,6)	105 (462,3)
Filter mesh size	$\mu\text{m}$	100	
Operating pressure min./max.	bar (psi)	2.5-10 (36-145)	
Total height	mm	770	770
<b>Order no.</b>	<b>100 <math>\mu\text{m}</math></b>	<b>10566</b>	<b>10567</b>

## MULTIPUR FILTER ELEMENTS

DESCRIPTION	ORDER NO.
Filter element Multipur 50 $\mu\text{m}$ DN 50/65/80	<b>2-243860</b>
Filter element Multipur 100 $\mu\text{m}$ DN 50/65/80	<b>2-060626</b>
Filter element Multipur 200 $\mu\text{m}$ DN 50/65/80	<b>2-060627</b>
FFilter element Multipur 50 $\mu\text{m}$ DN100	<b>2-061174</b>
Filter element Multipur 100 $\mu\text{m}$ DN100	<b>2-061147</b>
Filter element Multipur 200 $\mu\text{m}$ DN100	<b>2-061173</b>
Filter element Multipur 50 $\mu\text{m}$ DN125/150	<b>2-061176</b>
Filter element Multipur 100 $\mu\text{m}$ DN125/150	<b>2-061148</b>
Filter element Multipur 200 $\mu\text{m}$ DN125/150	<b>2-061175</b>

## SPECIAL ACCESSORY

### DIFFERENTIAL PRESSURE MANOMETER

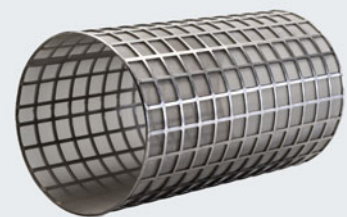
For connection of optical and/or acoustical remote control built on site. Overpressure proof up to 25 bar (363 psi) with 2 adjustable micro-switches and electric contact switches (potential-free), including 2 shut-off valves and connection equipment.

ORDER NO.
<b>10989</b>



## MULTIPUR AP

- Safety through automatic, time- and differential pressure-controlled backwashing without interruption of operation
- Efficient cleaning process due to suction ring system (12 times faster than others)
- 90 % of the filter surface is used for filtering during backwashing



## MULTIPUR FILTER ELEMENT

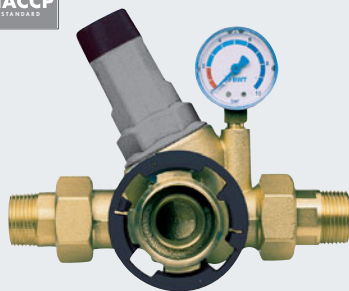


## DIFFERENTIAL PRESSURE MANOMETER

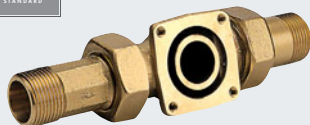




CONNECTION MODULE



CONNECTION MODULE DR



CONNECTION PIECE BASIC

## INGENIOUS CONNECTION TECHNOLOGY

### DOCK - TWIST - SECURE!

Installation in DN 20 / DN 25 / DN 32 with DR/HWS connection module  
Installation in DN 40 / DN 50 with four-hole flange DR/HWS

### CONNECTION MODULE

For the rapid connection of water treatment units such as filters, softeners and dosing units. For Infinity **size 1**. Can be installed horizontally or vertically. Top quality brass part, seal, union nut, locking ring, connecting union.

TYPE		DN 20	DN 25	DN 32
Nominal pressure	bar (psi)	16 (232)	16 (232)	16 (232)
Installation length incl. screw connection	mm	210	210	238
Installation length without screw connection	mm	122	122	142
<b>Order no.</b>		<b>10866</b>	<b>10874</b>	<b>10868</b>

### CONNECTION MODULE DR / HWS

If you want a filter with pressure reducer, select the connection module DR/HWS sound-proofed with integrated pressure reducer and pressure gauge. For Infinity **size 1**. The connection module DR can be installed vertically or horizontally. High-quality brass head connection equipment with spring, seal, cap nut, locking ring and connection unions.

TYPE		DN 20	DN 25	DN 32
Nominal pressure	bar (psi)	16 (232)	16 (232)	16 (232)
Installation length incl. screw connection	mm	210	210	238
Installation length without screw connection	mm	122	122	142
<b>Order no.</b>		<b>20860</b>	<b>20862</b>	<b>20861</b>

### CONNECTION PIECE BASIC

For filter unit Infinity **size 2**. The 4-hole connection piece can be mounted horizontally or vertically. High quality brass fitting with 4 screws, seals and connection threads.

TYPE		DN 40	DN 50
Nominal pressure	bar (psi)	16 (232)	16 (232)
Installation length incl. screw connection	mm	240	260
Installation length without screw connection	mm	125	125
<b>Order no.</b>		<b>50961</b>	<b>50962</b>

## CONNECTION PIECE HWS

For filter unit Infinity size 2. The 4-hole connection piece can be mounted horizontally or vertically. High quality brass fitting with 4 screws, seals and connection threads. The connection piece HWS also includes an integrated pressure reducer, pressure gauge and non-return valve.

TYPE		DN 40	DN 50
Nominal pressure	bar (psi)	16 (232)	16 (232)
Installation length incl. screw connection	mm	295	260
Installation length without screw connection	mm	125	125
<b>Order no.</b>		<b>50954</b>	<b>50955</b>

## BASIC MODULE

The basic module helps with the rapid connection of e.g. filters, AQA total, softeners, dosing devices. The cover HM closes the basic module when a device is not fitted straight away. The basic module can be installed vertically or horizontally.

TYPE		DN 25
Installation length	mm	122
Thread of the union nut		1 1/4"
<b>Order no.</b>		<b>30002</b>

## DR MODULE

### PRESSURE REDUCER MODULE WITH GAUGE

The DR module helps with the rapid connection of the protective filter, automatic and manual backwash filter. If a filter is not fitted immediately, the DR module is closed using a cover. The DR module can be installed vertically or horizontally.

TYPE		DN 25
Installation length	mm	122
Thread of the union nut		1 1/4"
<b>Order no.</b>		<b>30004</b>

## HM COVER

For closing the basic or DR module until a device is fitted.

HM COVER	
<b>Order no.</b>	<b>30996</b>

## HM MODULE

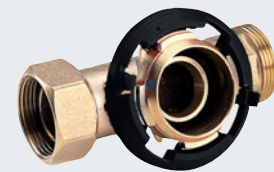
### CLAMP WITH SCREW

For rapid and secure fastening of the HydroModul onto the wall.

TYPE	1"
<b>Order no.</b>	<b>30980</b>



CONNECTION PIECE HWS



BASIC MODULE



PRESSURE REDUCER MODULE

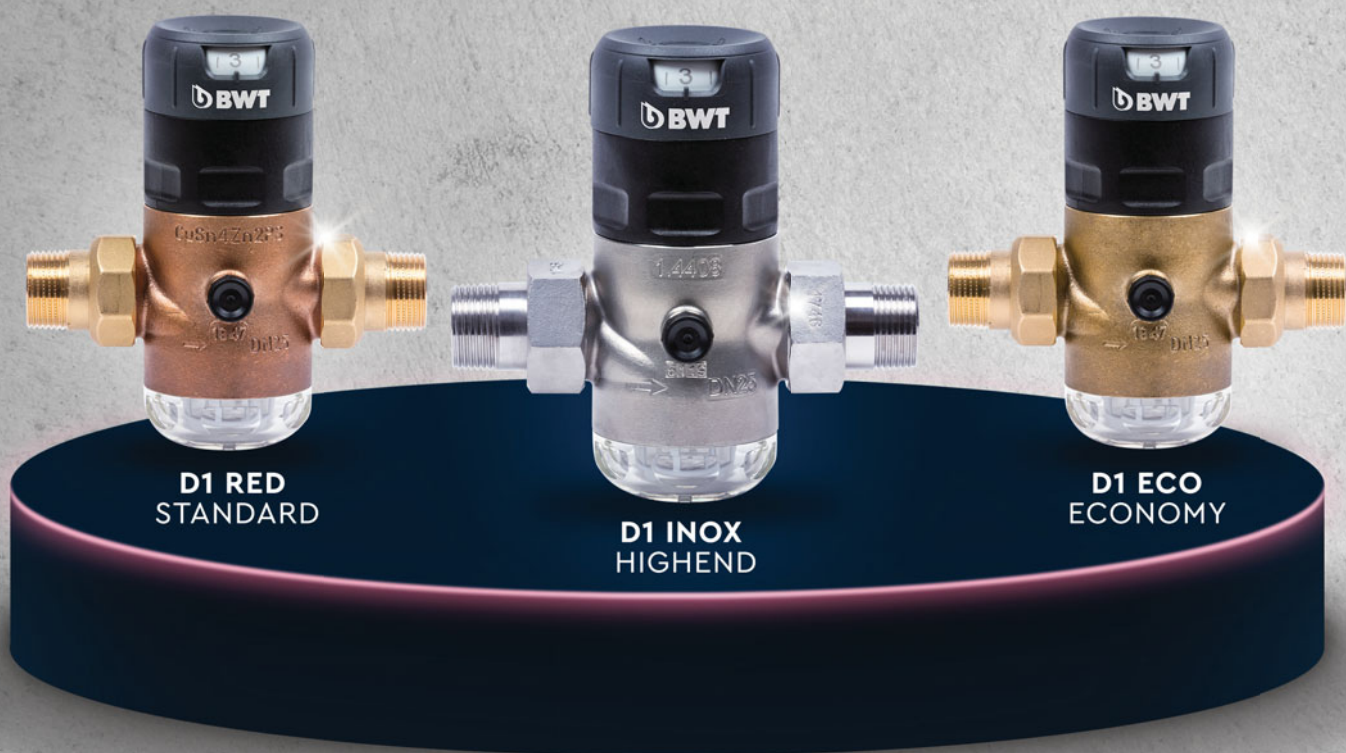


HM COVER



HM MODULE CLAMP

**NOTE:** Hazard Analysis Critical Control Points (HACCP) is a management system in which food safety is addressed through the analysis and control of biological, chemical, and physical hazards from raw material production, procurement and handling, to manufacturing, distribution and consumption of the finished product.



# ***BWT D1 PRESSURE REDUCER***

MASTER OF ALL CLASSES

## **SAVE WATER AND MONEY**

Powerful, intelligent and quiet as a whisper, it reduces pressure and water consumption. The D1 impresses with a complete range, its hightech materials, innovative design, connection to the BWT App with watersaving calculator and 100 % reliable product quality.



## 01 MASTERPIECE

- Highest flow rate and perfect pressure control due to patented Venturi effect
- Flow optimisation and nozzle grading lead to unique **Kvs value of 9.3 m<sup>3</sup>/h** (DN25) (known products provide only up to 5.8 m<sup>3</sup>/h)
- Robust design icon, up to 50 % heavier than comparable products (weight D1 Red DN25: 1.7 kg vs. competitors 1.14 to 1.4 kg)
- Up to 16 or 25 bar inlet pressure



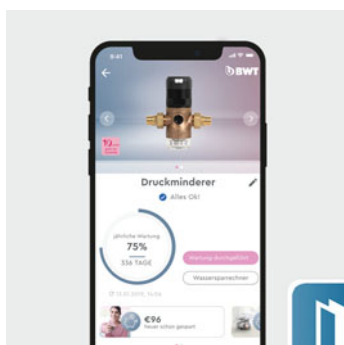
## 02 FULL RANGE

- 3-metal materials: brass UBA – red brass lead free – stainless steel
- High-quality plastic derived from medical technology
- 40 °C cold or hot water up to 85 °C
- Dimension ½" to 2"
- Common lengths for easy exchange
- Full range of spare parts available (75 components)



## 03 INSTANT HYGIENE

- Reminder service in the BWT App for annual maintenance
- Easily monitored via transparent filter screen cup
- Stainless steel screen 160 µm – easy to exchange in a few simple steps
- No need to dismantle the spring housing
- Save time and money during operation



## 04 APP FOR SAVING WATER AND MONEY

- Best Water Home App with setting aid to optimize the domestic water pressure and to reduce costs
- The water saving calculator shows how much money can be saved
- The target pressure value is set and adjusted in just a few simple steps and without any tools



# BWT D1 PRESSURE REDUCER

BWT D1 protects domestic water systems from excessive supply pressure in accordance with DIN EN 806-2 and DIN 1988-200 and thus helps, to

- avoid pressure-related damage
- reduce water consumption
- ensure sound insulation

A wide range of products, including the spare parts, are available from the start. So, the BWT D1 can be used perfectly for private, industrial and commercial applications.

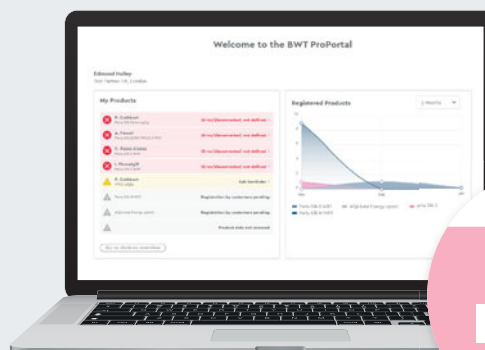
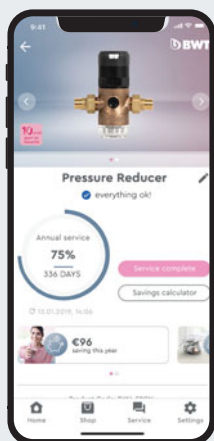


**100 mm  
IN DN 25**  
- COMMON INSTALLATION  
LENGTH IN ALL DIMENSIONS  
- EASY TO EXCHANGE  
DURING MAINTENANCE

## INGENIOUS PRODUCT RANGE - MODULAR SYSTEM

	BWT D1 ECO		BWT D1 RED		BWT D1 INOX	
Type	D1 Eco 40.16	D1 Eco 85.25	D1 Red 40.16	D1 Red 85.25	D1 Inox 40.16	D1 Inox 85.25
Temperature range	Cold water up to 40 °C	Warm water up to 85 °C	Cold water up to 40 °C	Warm water up to 85 °C	Cold water up to 40 °C	Warm water up to 85 °C
Upstream-pressure Downstream-pressure adjustable	16 bar (232 psi) 1.5-7 bar (21.7-101.5 psi)	25 bar (362.5 psi) 1.5-7 bar (21.7-101.5 psi)	16 bar (232 psi) 1.5-7 bar (21.7-101.5 psi)	25 bar (362.5 psi) 1.5-7 bar (21.7-101.5 psi)	16 bar (232 psi) 1.5-7 bar (21.7-101.5 psi)	25 bar (362.5 psi) 1.5-7 bar (21.7-101.5 psi)
Housing material	Brass acc. UBA Positive-List*		Red Brass lead-free acc. UBA Positive-List*		Stainless steel 1.4408	
Filter sieve cup material	High-quality plastic	Brass UBA	High-quality plastic E1 HydroMODUL Size I	Red brass lead free	High-quality plastic E1 HydroMODUL Size I	Stainless steel
Technical specifications	DN 15-DN 25 Valve insert, spring housing, sieve + filter cup in uniform size I		DN 15-DN 50 Valve insert, spring housing, sieve + filter cup in 3 sizes: I - ½" and ¾", II - 1" and ¾", III - ¾" and 2"			

\* Guidelines of evaluation for metal materials in contact with drinking water (Federal Environment Agency Germany)



**Plumber only**  
Code for  
**PRODUCT**  
registration  
1A2B-3C4D  
**ONLY VIA**  
[www.bwt.com/pro](http://www.bwt.com/pro)

# D1 - MASTER OF ALL CLASSES

## D1 ECO - ECONOMY AND MORE

ORDER NO.	DESCRIPTION	LENGTH WITHOUT/WITH SCREW CONNECTION IN MM
125300271	BWT D1 Eco 1/2" 40.16	80/136
125300272	BWT D1 Eco 3/4" 40.16	90/152
125300273	BWT D1 Eco 1" 40.16	100/170
125300274	BWT D1 Eco 1/2" 85.25	80/136
125300275	BWT D1 Eco 3/4" 85.25	90/152
125300276	BWT D1 Eco 1" 85.25	100/170

## D1 RED - STANDARD WITH ALL EXTRAS

ORDER NO.	DESCRIPTION	LENGTH WITHOUT/WITH SCREW CONNECTION IN MM
125300277	BWT D1 Red 1/2" 40.16	80/136
125300278	BWT D1 Red 3/4" 40.16	90/152
125300279	BWT D1 Red 1" 40.16	100/170
125300280	BWT D1 Red 3/4" 40.16	105/191
125300281	BWT D1 Red 3/4" 40.16	130/220
125300282	BWT D1 Red 2" 40.16	140/254
125300283	BWT D1 Red 1/2" 85.25	80/136
125300284	BWT D1 Red 3/4" 85.25	90/152
125300285	BWT D1 Red 1" 85.25	100/170
125300286	BWT D1 Red 3/4" 85.25	105/191
125300287	BWT D1 Red 3/4" 85.25	130/220
125300288	BWT D1 Red 2" 85.25	140/254

## D1 INOX - HIGH-END WITHOUT COMPROMISES

ORDER NO.	DESCRIPTION	LENGTH WITHOUT/WITH SCREW CONNECTION IN MM
125300289	BWT D1 Inox 1/2" 40.16	80/140
125300290	BWT D1 Inox 3/4" 40.16	90/160
125300291	BWT D1 Inox 1" 40.16	100/180
125300292	BWT D1 Inox 3/4" 40.16	105/200
125300293	BWT D1 Inox 3/4" 40.16	130/225
125300294	BWT D1 Inox 2" 40.16	140/255
125300295	BWT D1 Inox 1/2" 85.25	80/140
125300296	BWT D1 Inox 3/4" 85.25	90/160
125300297	BWT D1 Inox 1" 85.25	100/180
125300298	BWT D1 Inox 3/4" 85.25	105/200
125300299	BWT D1 Inox 3/4" 85.25	130/225
125300300	BWT D1 Inox 2" 85.25	140/255



D1 ECO

- Compact product range: 1/2"-1"
- Performance-based control
- Replaces common brass models



D1 RED

- Full range up to 2"
- Powerful with reserves
- Modern red brass material



D1 INOX

- Full range up to 2"
- Powerful with reserves
- Best material: stainless steel

The investment in a new D1 pressure reducer is worthwhile! Without tools and in just a few simple steps, the target value is set on the pressure reducer -it's so easy to save water and money!



# **BWT FRESH WATER**

MULTI-LAYER FILTRATION  
IN TECHNICAL PERFECTION









# ***BWT FRESH WATER***

## **MOTIVES & BENEFITS**

Depending on what source is used or where you live, your water may contain a greater or lesser concentration of undesirable and dangerous substances, which impair the taste and smell of the water or give the water an unpleasant colour. This can have natural causes, like decomposing leaves and algae in surface waters, special soil conditions impairing well water, but can also be of artificial nature, like the presence of toxic heavy metals out of an old piping system.

Especially in hot climates, city water additionally is heavily chlorinated to avoid any form of microbiological contamination. The unpleasant side effects are the development of the so called disinfection by-products, responsible for the typical "pool smell", but also skin irritation, bridle hair and a strong chemical taste are created. Finally, the outcome with all these substances is the same: the water is either unsafe or unpleasant to be used.

## **ADSORPTION BY BWT – A NATURAL PROCESS**

Our whole house multi-media line is exactly the tool improving your overall water quality for enjoyable flav-

less crystal-clear water. Unpleasant matters are safely retained (= adsorption) in our versatile media selection.

## **KEY BENEFITS AT A GLANCE**

- Consistent treatment results over the complete period of use
- Decades of process know-how from the mineral water industry made available for end-consumers



### 01 FOR SAFE PROTECTION AGAINST MULTIPLE CONTAMINANTS

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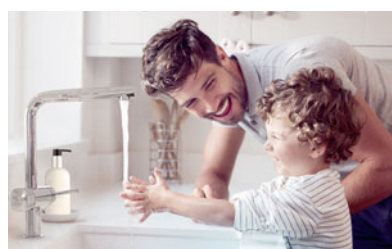
Even if the water is not directly consumed, some of the contaminants that your water might contain, can be harmful. With BWT Fresh Water, we provide a safe protection against multiple of the most common ones, like Iron, manganese, arsenic or heavy metals.



### 02 FOR BEAUTIFUL HAIR AND SKIN

---

Chlorine guards safely against bacteria but is also responsible for multiple troubles like dermatitis, skin irritation, dry and brittle hair. With BWT Fresh Water you eliminate this sorrow completely and enjoy the freshness of a well water in your shower or in your tub. Your bathroom will become the beauty palace, you ever dreamed of.



### 03 FOR UNSPOILED WATER PLEASURE





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Water that smells, has a colour or an unusual taste is not good for consumption and not enjoyable. Get rid of any annoyances and welcome the purity of BWT FRESH WATER everywhere in the premises.

# BWT FRESH WATER

## SELECTION TOOL



UNIT	BWT MULTI C	BWT MULTI S	BWT MULTI AS	BWT MULTI HM
<b>Type Description</b>	Best Basic	Allrounder	Specialist	The Versatile
<b>Domain of Application</b>				
<b>Main Function</b>	Chlorine	Iron and Manganese	Arsenic	Heavy Metals
<b>Accommodation Units or Flow Rates</b>	1-6	1-3	1-3	1-3
<b>Most unique feature</b>	High Quality media according to German DIN			
<b>Automatic volume backwash controlled</b>	X	X	X	X
<b>Hardness removal</b>	—	—	—	—
<b>Chlorine removal</b>	X	X	X	X
<b>Bad taste removal</b>	X	X	X	X
<b>Colour removal</b>	X	X	X	X
<b>Smell removal</b>	X	X	X	X
<b>Iron &amp; manganese removal</b>	—	X	—	—
<b>Ammonium removal</b>	—	—	—	—
<b>Arsenic removal</b>	—	—	X	—
<b>Heavy Metals removal</b>	—	—	—	X
<b>Salt consumption</b>	—	—	—	—
<b>Manual intervention necessary</b>	Yearly professional service			
Page	50	51	52	53

\*Non-binding guiding values

■ included      □ optional      - not available



**BWT BEWAMAT COMB/PRO**

**CS SIMPLEX AUTOMATIC**

**CS DUPLEX AUTOMATIC**

All in one

Standard

Premium



Hardness, Iron and Manganese

Chlorine

1

up to 30 m<sup>3</sup>/h

up to 60 m<sup>3</sup>/h

Patented Media Ecomix®

High Quality media according to German DIN

X

X

X

X

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X

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X

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X

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Yearly professional service

54

On request





# ***BWT MULTI***

NATURAL PROCESS – WITHOUT ADDITIVES

When washing hands and face, showering, brushing teeth, for cleaning and cooking, etc. – with BWT Multi products you get reliable protection against common water pollutants, odours, bad smell, chlorine, particles,

heavy metals, and even arsenic. The composition of filter layers, combined with proven media, is essential to ensure perfectly pure water from every single tap.



# TAILORMADE TECHNOLOGY PORTFOLIO

FOR THE REMOVAL OF UNDESIRABLE WATER COMPONENTS

BWT special filter media meet highest standards, are tested under toughest conditions and characterized by:

- Maximum possible purity
- Highest process reliability
- Chemical inertness
- Stable with respect to carbonic acid



CHLORINE  
REMOVAL



### MULTI C

- Fully automatic operation
- Little water wastage for backwash
- Water supply even during backwash
- Easy maintenance thanks to refill packages

### BEWASORB K 111



### MULTIBLOCK X



### CONNECTION SET

## BWT MULTI C

The BWT Multi C is an activated carbon filter which reduces extensively the concentration of chlorine (<2 ppm) and other colour- and smell causing contaminants in drinking water. During operation, water flows from top to bottom through the filter bed and impurities are filtered out or absorbed.

After consumption of a predefined water volume, the filter is automatically backwashed at the set time. Water flows from bottom to top through the filter bed. This loosens the filter material and the impurities are flushed out.

Operation during backwashing is possible via bypass valve with unfiltered water.

MULTI C		1000	2000	3000	7000
Connection width	DN	32			
Max. flow rate	m <sup>3</sup> /h (gpm)	1.0 (8.8)	2.0 (8.8)	3.0 (13.2)	5.0 (22.0)
Nominal flow rate	m <sup>3</sup> /h (gpm)	0.6 (4.4)	1.0 (4.4)	1.5 (6.6)	2.5 (11.0)
Operating pressure min./max	bar (psi)	2-8 (29-116)			
Capacity	l	900	1800	2400	6000
Height	mm	625	1080	1280	1820
Diameter of tank	mm	254		254	
<b>Order no.</b>		<b>13912</b>	<b>13921</b>	<b>13922</b>	<b>13901</b>

### REFILL MULTI C

containing filter gravel & Bewasorb K111

<b>Order no.</b>	<b>10863</b>	<b>2-060966</b>	<b>2-060967</b>	<b>2-061060</b>
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## CONNECTION EQUIPMENT MULTIBLOCK X

Using the Multiblock X made of brass, the water flow remains uninterrupted. The water supply is maintained via an integrated by-pass, so that maintenance work can be carried out without any problems.

MULTIBLOCK X	DN 25	DN 32
<b>Order no.</b>	<b>30999</b>	<b>31000</b>

## CONNECTION SET DN 32/32

For installation of BWT multi with nominal connection DN 32 to the Multiblock module consisting of: 2 flexible armoured hoses with formed angles and DN 32 cap nuts on both ends, TÜV tested, with 4 seals, 0.6 m.

CONNECTION SET	DN 32/32
<b>Order no.</b>	<b>11877</b>

## BWT MULTI S

The BWT Multi S removes particles, chlorine, colour, smell, organics, iron and manganese (Fe + Mn < 1ppm). During operation, water flows from top to bottom through the filter bed and impurities are filtered out or absorbed.

After consumption of a predefined water volume, the filter is automatically backwashed at the set time. Water flows from bottom to top through the filter bed. This loosens the filter material and the impurities are flushed out.

Operation during backwashing is possible via bypass valve with unfiltered water.

MULTI S		2000	3000
Connection width	DN	32	
Max. flow rate	m <sup>3</sup> /h (gpm)	2.0 (8.8)	3.0 (13.2)
Nominal flow rate	m <sup>3</sup> /h (gpm)	1.0 (4.4)	1.5 (6.6)
Operating pressure min./max	bar (psi)	2-8 (29-116)	
Capacity	l	1800	2400
Height	mm	1080	1280
Diameter of tank	mm	254	254
<b>Order no.</b>		<b>13919</b>	<b>13920</b>

REFILL MULTI S	2000	3000
Containing filter gravel, Bewasorb K111, Bewasorb IXC & Minox S		
<b>Order no.</b>	<b>2-307096 + 6-630049</b>	<b>2-307097+6-630042</b>
FILTER ELEMENT ACF	2000	3000
With carbon filter block		
<b>Order no.</b>	<b>2-060926</b>	<b>2-060927</b>

### CONNECTION EQUIPMENT MULTIBLOCK X

Using the Multiblock X made of brass, the water flow remains uninterrupted. The water supply is maintained via an integrated by-pass, so that maintenance work can be carried out without any problems.

MULTIBLOCK X	DN 25	DN 32
<b>Order no.</b>	<b>30999</b>	<b>31000</b>

### CONNECTION SET DN 32/32

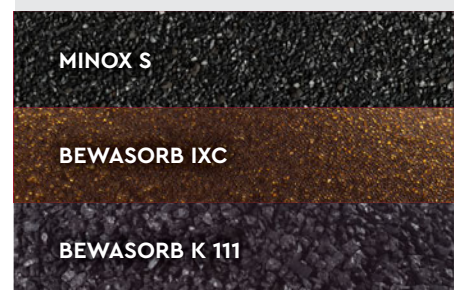
For installation of BWT multi with nominal connection DN 32 to the Multiblock module consisting of: 2 flexible armoured hoses with formed angles and DN 32 cap nuts on both ends, TÜV tested, with 4 seals, 0.6 m.

CONNECTION SET	DN 32/32
<b>Order no.</b>	<b>11877</b>



MULTI S

- Fully automatic operation
- Little water wastage for backwash
- Water supply even during backwash
- Easy maintenance thanks to refill packages



MULTIBLOCK X



CONNECTION SET



ARSENIC  
REMOVAL



### MULTI AS

- Fully automatic operation
- Little water wastage for backwash
- Water supply even during backwash
- Easy maintenance thanks to refill packages

BEWASORB K 111

BEWASORB IXA-2



### MULTIBLOCK X



### CONNECTION SET

## BWT MULTI AS

The BWT Multi AS is a multi-layer filter which reduces extensively the concentration of arsenic, lead, chlorine and colour and smell causing contaminants. During operation, water flows from top to bottom through the filter bed and impurities are filtered out or absorbed.

After consumption of a predefined water volume, the filter is automatically backwashed at the set time. Water flows from bottom to top through the filter bed. This loosens the filter material and the impurities are flushed out.

Operation during backwashing is possible via bypass valve with unfiltered water.

MULTI AS		2000	3000
Connection width	DN	32	
Max. flow rate	m <sup>3</sup> /h (gpm)	2.0 (8.8)	3.0 (13.2)
Nominal flow rate	m <sup>3</sup> /h (gpm)	1.0 (4.4)	1.5 (6.6)
Operating pressure min./max.	bar (psi)	2-8 (29-116)	
Arsenic removal Capacity	mg	40,000	60,000
Height	mm	1080	1280
Diameter of tank	mm	254	254
<b>Order no.</b>		<b>13887</b>	<b>13886</b>

### REFILL MULTI AS

containing filter gravel, Bewasorb K111 & Bewasorb IXA-2

**Order no.** 2-061155 2-061156

## CONNECTION EQUIPMENT MULTIBLOCK X

Using the Multiblock X made of brass, the water flow remains uninterrupted. The water supply is maintained via an integrated by-pass, so that maintenance work can be carried out without any problems.

MULTIBLOCK X	DN 25	DN 32
<b>Order no.</b>	<b>30999</b>	<b>31000</b>

## CONNECTION SET DN 32/32

For installation of BWT multi with nominal connection DN 32 to the Multiblock module consisting of: 2 flexible armoured hoses with formed angles and DN 32 cap nuts on both ends, TÜV tested, with 4 seals, 0.6 m.

CONNECTION SET	DN 32/32
<b>Order no.</b>	<b>11877</b>

## BWT MULTI HM

The BWT Multi HM removes heavy metals (e.g. copper, nickel and lead) and chlorine, colour, smell, organics. During operation, water flows from top to bottom through the filter bed and impurities are filtered out or absorbed.

After consumption of a predefined water volume, the filter is automatically backwashed at the set time. Water flows from bottom to top through the filter bed. This loosens the filter material and the impurities are flushed out.

Operation during backwashing is possible via bypass valve with unfiltered water.

MULTI HM		2000	3000
Connection width	DN	32	
Max. flow rate	m <sup>3</sup> /h (gpm)	2.0 (8.8)	3.0 (13.2)
Nominal flow rate	m <sup>3</sup> /h (gpm)	1.0 (4.4)	1.5 (6.6)
Operating pressure min./max.	bar (psi)	2-8 (29-116)	
Heavy metal removal Capacity	mg	50,000	75,000
Height	mm	1080	1280
Diameter of tank	mm	254	254
<b>Order no.</b>		<b>13885</b>	<b>13884</b>



MULTI HM

- Fully automatic operation
- Little water wastage for backwash
- Water supply even during backwash
- Easy maintenance thanks to refill packages

### REFILL MULTI HM

containing filter gravel, Bewasorb K111 & Bewasorb IXN

<b>Order no.</b>	<b>2-061209</b>	<b>2-061210</b>
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BEWASORB K 111

BEWASORB IXN

## CONNECTION EQUIPMENT MULTIBLOCK X

Using the Multiblock X made of brass, the water flow remains uninterrupted.

The water supply is maintained via an integrated by-pass, so that maintenance work can be carried out without any problems.

MULTIBLOCK X	DN 25	DN 32
<b>Order no.</b>	<b>30999</b>	<b>31000</b>



MULTIBLOCK X

## CONNECTION SET DN 32/32

For installation of BWT multi with nominal connection DN 32 to the Multiblock module consisting of: 2 flexible armoured hoses with formed angles and DN 32 cap nuts on both ends, TÜV tested, with 4 seals, 0.6 m.

CONNECTION SET	DN 32/32
<b>Order no.</b>	<b>11877</b>



CONNECTION SET



# BEWAMAT COMB / PRO

## THE BWT WELL WATER SPECIALISTS

You live too far away from a municipal pipeline or you prefer your own borehole supply? Then, better check twice your water quality and consider a water treatment process with our latest innovations BEWAMAT COMB/PRO. The ideal solution for requirements of an independent water supply – e.g., an isolated farm, a winery or private holiday home.

Every homeowner knows the common problems with well water – mostly brown/orange stains due to high loads of iron and/or black scale because of manganese. The new multi-target filters are dealing with hardest conditions of well water. Patented unique Ecomix® filter material has been developed to safely remove:

- **IRON**  
Reduces iron concentrations: (<10 ppm) dissolved, oxidised, organic and colloidal.
- **MANGANESE**  
Reduces manganese concentration (< 3 ppm)
- **ORGANIC MATTER - BAD SMELL AND TASTE**  
Effectively reduces colour, tannins, and chemical oxygen demand.  
Maximum allowed influent COD is 20 mg O<sub>2</sub>/l (80 ppm KMnO<sub>4</sub>).
- **AMMONIUM**  
Reduces concentration of ammonium (<2 ppm).
- **HARDNESS**  
Softens water with hardness of up to 30°dH (535 ppm CaCO<sub>3</sub>).

## BEWAMAT COMB / PRO

The multi-target filter cleans drinking water by lowering the concentration of iron, manganese, ammonium and other organic substances and reducing water hardness. During filter operation, the water flows from top to bottom through the filter bed. When the filter medium is used up, the multi-target filter automatically starts regeneration.

MULTI-TARGET FILTER		COMB 1	PRO 1
Connection width	DN	32 to 20	
Nominal capacity	m <sup>3</sup> x°dH (mol)	50 (8.9)	42.5 (7.6)
Flow rate according to EN 14743	m <sup>3</sup> /h (gpm)	1.6 (7.0)	
Operating pressure min./max.	bar (psi)	2.5 - 8 (36.3 - 116.0)	
Salt consumption per 100% regeneration	kg	2.5 - 4	
Dimensions W x H x D	mm	1126 x 400 x 488	
<b>Order no.</b>		<b>11028</b>	<b>11039</b>



BEWAMAT COMB / PRO

- Multi-target filtration including softening, 5 in 1 unit for multiple water problems
- Patented filter media
- Regeneration with BWT standard salt
- Fully automatic operation
- Easy connection via Multiblock X



MULTIBLOCK X



CONNECTION SET

**FOR AN OPTIMUM LEVEL OF SAFETY**



# **BWT PEARL WATER**

INDULGE IN SILKY-SOFT  
BWT PEARL WATER







# BWT PEARL WATER SYSTEMS

## ENJOY, PROTECT AND SAVE

Water with a high concentration of mineral salts, as magnesium and calcium ions, is considered as hard. Typical signs for hard water are white stains on taps, shower heads or dishes and kettles. When water is hard, limescale can build up wherever water gets into contact. The consequences of limestone deposits are: blocked

valves, scale deposits on taps, shower, frequent repairs of calcified appliances, loss of pressure due to reduced pipe diameter. Moreover, hard water is harming your skin and damage laundry. In the worst cases, bacteria can grow on the limescale deposits.

### KEY BENEFITS

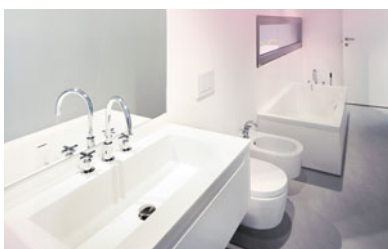
Investing in a BWT PEARL WATER system is a long term investment at every level:

- **PRESERVE VALUE:** of your investment and extend life of your kettles and boilers.
- **ENSURE HYGIENE & SAFETY:** stop building-up limescale providing a breeding ground for bacteria.
- **SAVE TIME:** while cleaning. Reduce expenditure for washing agents and save time while cleaning



## 01 IMPROVE THE EFFICIENCY OF YOUR WATER HEATER

Even a small limescale coating in your boiler increases energy consumption significantly. It damages the heating elements and this results in high repair costs. With BWT Pearl Water, you remedy the problem.



## 02 PROTECT YOUR BATHROOM AND KITCHEN

Limescale deposits on shower walls, tiles and fittings are not only unsightly, but also shorten their service life. Silky-soft BWT Pearl Water can prevent this and help maintain the value of your investment. The build-up of limescale also affects the entire water system with expensive consequences.



## 03 FOR INCREASED WELLBEING




With silky-soft BWT Pearl Water every shower and bath becomes a wellness experience – with shiny hair and tender skin. Your laundry feels softer and colours last longer. Also less soaps and detergents is needed – a benefit for sensitive babies or mature skin.



ADDED VALUE  
THROUGH ONLINE  
ACTIVATION

# BWT PERLA SERIES

AT A GLANCE

DEVICE TYPE	 <b>BWT PERLA SETA</b> THE LUXURIOUS ONE	 <b>BWT PERLA</b> HIGH PERFORMER	 <b>BWT PERLA HOME</b> THE PRACTICAL ONE
Multitouch Display	5"	5"	5"
Safety Overflow	410 mm	410 mm	410 mm
Blending Valve	Motor intersection	Motor intersection	Motor intersection
GSM Data Card	✓	✓	✓
LAN-WLAN Connection	✓	✓	✓
Device Status Display (Bwt Drop)	✓	✓	✓
Proximity Sensor	✓	✓	✓
AQA Watch Function	✓	✓	✓
AQA Safe Valve	✓	✓	✓
AQA Stop Function	✓	✓	✓
AQA Guard Wireless Function	optional	optional	optional
Mineral Dosing Device Bewados	optional	optional	optional
Recommendations For Use	<b>For highest demand</b> (comfort installations rain showers, etc.), 24 h pearl water guarantee, highest safety standard, high water hardness and continuous flow rates.	<b>For modern comfort installation</b> (rain shower and more), 24 h pearl water guarantee, highest safety standard.	<b>For functional, modern installation</b> (e.g. water-saving systems), highest safety standard
Order no.	11601	11424	11431
Page	63	62	64

\*One housing unit (HS) is equal to 2 persons.



 <b>BWT PERLA ONE</b> THE CLEVER ONE	 <b>BWT PERLA ONE S</b> THE COMPACT ONE
--	--

3.5"	3.5"
410 mm	245 mm
Manual	Manual
✓	-
✓	✓
✓	-
✓	-
✓	✓
✓	✓
optional	✓
optional	✓
optional	optional

**For functional, modern installation**  
(e.g. with water-saving systems), esp. also use in front of water heater

**Space saving installation:**  
Compact design including an unique safety package

<b>11433</b>	<b>11445</b>
65	66

## ONE GOAL:

100 % CUSTOMER SATISFACTION

### 01 NO MORE EMPTY BRINE TANK

- Ultrasonic sensor measures the regenerative level
- Salt level notification and reminders in the BWT BEST WATER HOME APP
- Pre-warning low salt level notification < 20% remaining

### 02 MORE FUNCTIONALITY WITH BEST WATER HOME APP

- Reminder function for maintenance work
- Manuals, service reminder, special offers and more in the Best Water Home App

### 03 SAFETY & PROTECTION 24/7

- Protection against water damage with AQA Guard Wireless
- Cable- and battery-free monitoring technology
- Shutt-off the water supply via EnOcean
- Up to 10 AQA Guard wireless sensors (optional)

### 04 LESS MAINTENANCE

- Half-yearly operator inspection with BWT IoClean
- Expert maintenance every 2 other years



BWT PERLA

- Protection against leakage with AQA Stop, AQA Watch and AQA Safe valve
- up to 10 AQA Guard Wireless water sensors (optional)
- Motor blending valve
- Sensor + illuminated logo as status indicator
- With WiFi connection



**DEVICE TYPE**

Duplex 2 x 6,2 m<sup>3</sup>x°dH



**PEARL WATER PEAK FLOW**

53 l/min



**CONNECTIVITY & DISPLAY**

★★★★ 5" Display



**PROTECTION AGAINST LEAKAGE**

★★★★

## BWT PERLA - THE HIGH PERFORMER

THE INNOVATIVE DUPLEX SYSTEM FOR MAXIMUM UNINTERRUPTED PEARL WATER ENJOYMENT

BWT Perla – developed for all those who shun any compromise. Two columns with ex-changer medium ensure silky-soft BWT Pearl Water around the clock as well as maximum peak water flow. When the exchanger medium in one column is exhausted, the other one automatically steps into action. You thus enjoy silky-soft BWT Pearl Water 24 hours a day, 7 days a week without interruption. Thanks to its adaptive parallel operation, BWT Perla also achieves the **maximum peak water flow of up to 53 litres a minute**. Thus, silky-soft BWT Pearl Water is always available in the home even when it is running from several taps at the same time or modern comfort showers are being used.

**BWT PERLA**

Connection width	DN	32
Flow rate according to EN 14743	m <sup>3</sup> /h (gpm)	3.2 (14.1)
Nominal capacity	m <sup>3</sup> /dH (mol)	2 x 6.2 (2 x 1.1)
Operating pressure min./max.	bar (psi)	2-8 (29-116)
Salt tank	kg	32
Salt consumption per 100 % regeneration	kg	0.25
Dimensions HxWxD	mm	797x394x505
<b>Order no.</b>		<b>11424</b>



OPTIONAL ACCESSORIES ON PAGE 67

## BWT EQUIPMENT SCOPE OF DELIVERY

When you buy one of our devices from a specialist company, it is of course already equipped with a comprehensive set of accessories, which makes immediate standard installation and commissioning by the specialist installer extremely easy.

### 01 ACCESSORIES INCLUDED



AQA TEST STRIPES



BWT AQA TEST



IOCLEAN



SIPHON



MULTIBLOCK X



CONNECTION SET

# BWT PERLA SETA - THE LUXURIOUS ONE

THE LUXURY DUPLEX SYSTEM WITH EXTENDED CAPACITY FOR PEARL WATER IN ABUNDANCE.

BWT Perla seta – pool filling, splash shower, rainwater shower – there are no limits to modern house installations with BWT Perla seta. Almost double the quantity of exchange medium in the two columns of the duplex system always ensure 24 hours of Pearl Water, no matter how high your current water consumption is. The operating mode of the BWT Perla seta is dependent on the applicable consumption, in accordance with the amount of water you need over a day. The water flows adaptively and in parallel through the two columns – this enables maximum availability of Pearl Water and a **peak water flow of up to 50 litres per minute.**

BWT PERLA SETA		
Connection width	DN	32
Flow rate according to EN 14743	m <sup>3</sup> /h (gpm)	3 (13.2)
Nominal capacity	m <sup>3</sup> /dH (mol)	2 × 18 (2 × 3.2)
Operating pressure min./max.	bar (psi)	2–8 (29–116)
Salt tank	kg	32
Salt consumption per 100 % regeneration	kg	0.76
Dimensions HxWxD	mm	797×394×505
<b>Order no.</b>		<b>11601</b>



BWT PERLA SETA

- Protection against leakage with AQA Stop, AQA Watch and AQA Safe valve
- up to 10 AQA Guard Wireless water sensors (optional)
- Motor blending valve
- Sensor + illuminated logo as status indicator
- With WiFi connection

**DEVICE TYPE**  
 Duplex 2 x 18 m<sup>3</sup>×dH

**PEARL WATER PEAK FLOW**  
 50 l/min

**CONNECTIVITY & DISPLAY**  
 ★★★★★ 5" Display

**PROTECTION AGAINST LEAKAGE**  
 ★★★★★



OPTIONAL ACCESSORIES ON PAGE 67

## BWT EQUIPMENT SCOPE OF DELIVERY

When you buy one of our devices from a specialist company, it is of course already equipped with a comprehensive set of accessories, which makes immediate standard installation and commissioning by the specialist installer extremely easy.

### 01 ACCESSORIES INCLUDED



AQA TEST STRIPES



BWT AQA TEST



IOCLEAN



SIPHON



MULTIBLOCK X



CONNECTION SET





BWT PERLA HOME

- Protection from leaks with AQA Stop, AQA Watch and AQA Safe valve
- Up to 10 AQA Guard Wireless water sensors (optional)
- Motor blending valve
- Proximity sensor + illuminated logo as status indicator
- Ultrasonic sensor measures salt level



**DEVICE TYPE**

Simplex 9-18 m<sup>3</sup>x°dH



**PEARL WATER PEAK FLOW**

28 l/min



**CONNECTIVITY & DISPLAY**

★★★★ 5" Display



**PROTECTION AGAINST LEAKAGE**

★★★★

## BWT PERLA HOME - THE PRACTICAL ONE

THE COMPACT SIMPLEX SYSTEM  
WITH INTELLIGENT REGENERATION CONTROL

BWT Perla home – the practical solution for families with conventional water requirements. A column with exchanger medium produces **up to 30 litres of silky-soft BWT Pearl Water per minute** and cleans itself automatically during periods of low water consumption thanks to predictive regeneration control.

Once the exchanger material in the column is exhausted, it is regenerated with a small quantity of salt solution. During this time, only hard water is available to you. BWT Perla home, however, regenerates earlier and predictively, e.g. at night. BWT Perla home optimally adapts to your everyday habits, ensuring a high level of Pearl Water availability for you.

BWT PERLA HOME		
Connection width	DN	32
Flow rate according to EN 14743	m <sup>3</sup> /h (gpm)	1.7 (7.5)
Nominal capacity	m <sup>3</sup> /dH (mol)	9-18 (1.6-3.2)
Operating pressure min./max.	bar (psi)	2-8 (29-116)
Salt tank	kg	32
Salt consumption per 100 % regeneration	kg	0.76
Dimensions HxWxD	mm	797x394x505
<b>Order no.</b>		<b>11431</b>



OPTIONAL ACCESSORIES ON PAGE 67

## BWT EQUIPMENT SCOPE OF DELIVERY

When you buy one of our devices from a specialist company, it is of course already equipped with a comprehensive set of accessories, which makes immediate standard installation and commissioning by the specialist installer extremely easy.

### 01 ACCESSORIES INCLUDED



AQA TEST STRIPES



BWT AQA TEST



IOCLEAN



SIPHON



MULTIBLOCK X



CONNECTION SET

# BWT PERLA ONE - THE CLEVER ONE

THE REFINED SIMPLEX SYSTEM WITH COMPACT 3.5" DISPLAY

BWT Perla one – the „little“ brother in the BWT Perla model line represents an inexpensive entry level into the world of Pearl Water. It saves on performance where this makes sense, but not on quality or convenience. BWT Perla one is designed for use in regions with „medium hard“ water with low requirements and in particular for installation upstream of the water heater.

While the BWT Perla one does not feature an AQA Stop function directly integrated in the device in order to shut off the domestic water supply, it can however trigger an alarm warning in the app and on the device via up to 10 AQA Guard Wireless sensors. The water must then either be shut off manually, or better: you can retrofit an independent AQA Stop module at a different location – directly at the domestic water inlet. If BWT Perla one is used only for softening the hot water – immediately upstream of the storage tank – a wellthought out system for protecting against leaks in the entire home can be ensured.



BWT PERLA ONE

- Intelligent regeneration by means of capacity sensing
- Protection against leakage with AQA Watch and AQA Safe valve
- Up to 10 AQA Guard Wireless water sensors (optional)
- Manual blending valve for water hardness adjustment

BWT PERLA ONE		
Connection width	DN	32
Flow rate according to EN 14743	m <sup>3</sup> /h (gpm)	1.7 (7.5)
Nominal capacity	m <sup>3</sup> /dH (mol)	9-18 (1.6-3.2)
Operating pressure min./max.	bar (psi)	2-8 (29-116)
Salt tank	kg	32
Salt consumption per 100 % regeneration	kg	0.76
Dimensions HxWxD	mm	797x394x505
<b>Order no.</b>		<b>11433</b>



#### DEVICE TYPE

Simplex 9-18 m<sup>3</sup>x°dH



#### PEARL WATER PEAK FLOW

4 water drop icons, 28 l/min



#### CONNECTIVITY & DISPLAY

4 star rating, 3,5" Display,



#### PROTECTION AGAINST LEAKAGE

3 star rating



OPTIONAL ACCESSORIES ON PAGE 67

## BWT EQUIPMENT SCOPE OF DELIVERY

When you buy one of our devices from a specialist company, it is of course already equipped with a comprehensive set of accessories, which makes immediate standard installation and commissioning by the specialist installer extremely easy.

### 01 ACCESSORIES INCLUDED



AQA TEST STRIPES



BWT AQA TEST



IOCLEAN



SIPHON



MULTIBLOCK X



CONNECTION SET



BWT PERLA ONE S

- AQA Stop External (cable-connected ball valve)
- EnOcean interface for AQA Guard Wireless function
- Connectivity to BWT Best Water Home App
- Unique hygiene & safety concept



**DEVICE TYPE**

Simplex 1 x 6,2 m<sup>3</sup>×dH



**PEARL WATER PEAK FLOW**

28 l/min



**CONNECTIVITY & DISPLAY**

★★★★ 3,5" Display,



**PROTECTION AGAINST LEAKAGE**

★★★

## BWT PERLA ONE S - THE COMPACT ONE

Top entry-level choice for new silky-soft BWT pearl water enthusiasts!

BWT Perla one S is reduced to the essentials. The product is equipped with a 3.5" touch display. It can be operated intuitively and provides a quick overview of all main product parameters. Connectivity extends the functionality of the product and allows the system to be registered in order to use advanced operating and maintenance functions via the BWT Best Water Home App, available on smartphones and tablets.

### TYP PERLA ONE S

Connection width	DN	32
Flow rate according to EN 14743	m <sup>3</sup> /h (gpm)	1.6 (7)
Nominal capacity	m <sup>3</sup> /dH (mol)	6.2-18 (1.1-1.6)
Operating pressure min./max.	bar (psi)	2-8 (29-116)
Salt tank	kg	25
Salt consumption per 100% regeneration	kg	0.25
Dimensions HxWxD	mm	595 × 400 × 500
<b>Order no.</b>		<b>11445</b>

## BWT EQUIPMENT SCOPE OF DELIVERY

When you buy one of our devices from a specialist company, it is of course already equipped with a comprehensive set of accessories, which makes immediate standard installation and commissioning by the specialist installer extremely easy.

### 01 ACCESSORIES INCLUDED



AQA TEST STRIPES



BWT AQA TEST



IOCLEAN



SIPHON



MULTIBLOCK X



CONNECTION SET

# BWT Perla one S



INCL.  
AQA STOP EXTERNAL  
& 1x AQA GUARD  
WIRELESS SENSOR



In addition, the range of accessories specially adapted to our products offers the possibility of responding to individual installation situations. This means you are always on the safe side, especially when it comes to maintenance and care of your BWT products.

## 02 OPTIONAL ACCESSORIES



REGENERATION TABS



IOCLEAN



AQA GUARD  
WIRELESS SENSOR



AQA STOP  
WIRELESS



BEWASOL  
SOLE PUMP



INSULATION SET





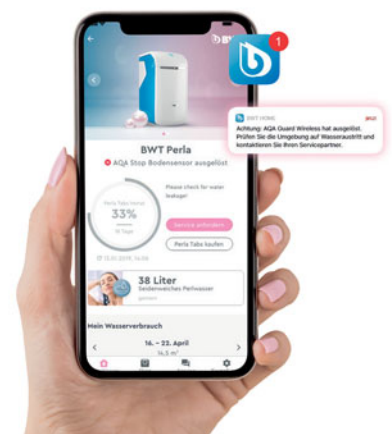
# SAFETY PLUS PACKAGE

BWT PERLA RANGE MONITORS ITSELF & THE INSTALLATION

## PROTECTION AGAINST WATER DAMAGE

Tap water damage is increasing from year to year. More than every second household has already been affected. The consequences are incalculable. While financial damage can at least be replaced at great expense, some memories are irreplaceable if in the worst case they sink into your cellar.

The BWT model range comes with four sophisticated leakage protection systems free of charge to protect your home from emergencies and their unpleasant consequences.



BWT Best Water Home





## 01 AUTOCHECK

System check of the core components every 2 months. Automatic check and error message in case of malfunction: water meter, brine meter and electronic components.

## 02 STATUS INDICATOR

On the unit and online. Status display lights up red in the event of faults and yellow in the event of warnings, e.g. low salt level. A push message will be sent from the app.

## 03 AQA WATCH

Monitors the water supply of the domestic water network and issues a warning message in case of permanently low volume flows of < 60 l/h over a period of >10 minutes. Optionally selectable on the unit.

## 04 AQA SAFE FUNCTION

Avoidance of water damage due to rinse water in the event of a power failure. Particularly important when using rinse water lifting pump. By power failure, the rinse water valve closes, control valves remain in the respective operating position and programmed parameters are permanently stored.

## 05 AQA STOP

Control valves and motor blending valve close, shut off the water installation in the direction of flow downstream of the BWT Perla, and provide safety with wired floor sensor.

## 06 AQA STOP LITER

Provides safety through water quantity monitoring and limitation. Factory setting is 9,999 litres. Programmable to water volume to be determined on site with uninterrupted flow – a perfect holiday mode.

# SIMPLEX WATER SOFTENERS

AT A GLANCE



DEVICE TYPE



BEWAMAT

Special feature

economic solution

Hygiene function

✓

Time-dependent regeneration

✓

Quantity-dependent regeneration

✓

Fully automatic operation

✓

Pearl water blending valve

✓

Multi info touch display

-

Installer integration

-

AQA Safe valve

-

Filter service reminder

-

Order no.

11324

Page

76

✓ included

□ optional

- not available



**AQUADIAL SOFTLIFE**



**BWT PERLA SILK**

economic solution for small residential units

economic solution for small residential units

✓

✓

-

-

✓

✓

✓

✓

✓

✓

-

-

-

-

-

-

-

-

**11360/11361/11362**

**11020/11021/11022**

77

75





# ***BWT PERLA SILK & BEWAMAT***

## **THE RUGGED BEST PERFORMERS**

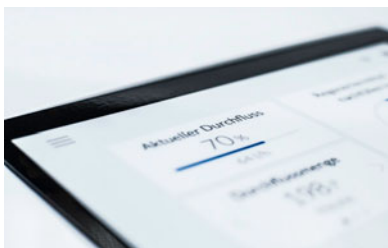
Soft water enhances the cleaning power of washing and cleaning agents, thus saving you up to 50 % of the costs of soaps and detergents. That's a real load off the environment and your wallet. But you also save money when you heat up the water. When operated with fossil

fuels, a 2 mm thick limescale coating on heating surfaces increases energy consumption by 20 % and this of course shows up in the heating bill. Limescale deposits in electric boilers damage the heating elements and this results in high repair costs.



## CONVINCING RESULTS

BWT high-performance units, BWT Perla silk & Bewamat, offer efficient operation and silky-soft BWT PEARL WATER in your entire household.



### 01 INLINE WITH YOUR NEEDS

Individually adjustable water hardness level. Automatic regeneration adapted to water consumption – including automatic disinfection



### 02 STATE-OF-THE-ART COMPONENTS

Chosen and developed by BWT in accordance with European quality and authorisation standards, which are the strictest in the world and exceed the usual international standards



# BWT PERLA SILK

SMALL BUT POWERFUL

**ENJOY, PROTECT AND SAVE  
WITH BWT PEARL WATER**

## SMART DESIGN - PERFORMANCE DRIVEN

The BWT Perla silk has been designed to compliment today's busy lifestyles, and to deliver copious amounts of perfect softened water efficiently with very low levels of water and salt consumption.

## MEETING THE DEMANDS OF MODERN LIVING

Luxurious silky-soft BWT Pearl Water is great for the whole family. Tough on scale and scum, kitchen and bathroom cleaning times are reduced, leaving more free time for you and the family.

It will bring a new dimension to washing, bathing and showering. Used shampoo, soaps and detergents wash away more easily leaving your hair clean and shiny and clothes soft to the touch.



BWT PERLA SILK SERIES

## WITH WIFI CONNECTION

Get connected with the BWT App, your entry into a new era of customer satisfaction. Your personal water consultant for countless BWT products brings added value in terms of information, safety and comfort and a whole world of advantages.



**BWT Best Water Home**



## BWT PERLA SILK BIO / BWT PERLA SILK BIO WIFI

SMART ENABLED DOMESTIC WATER SOFTENER –  
THE PERFECT LIFESTYLE CHOICE

### KEY FEATURES

- Fully automatic operation
- Intuitive customer interface
- New smart power options for protected, interrupted, and non mains operation
- Proportional brining – more capacity, less salt consumption.
- New brine check valve prevents overflowing
- Automatic resin disinfection during regeneration (Bio function)
- **WiFi versions available**

BWT PERLA SILK BIO / WIFI		S	M	XL
Connection width	DN		20	
Flow rate according to EN 14743	m <sup>3</sup> /h (gpm)	1.44 (6.3)	1.56 (6.9)	1.68 (7.4)
Nominal capacity	m <sup>3</sup> x °dH (mol)	26 (4.6)	43 (7.7)	75 (13.4)
Operating pressure min./max.	bar (psi)		1–8 (14.5–116)	
Salt tank	kg	12	16	24
Salt consumption per regeneration	kg	1.5	2.0	3.0
Dimensions HxWxD	mm	532/270/480	602/270/480	804/270/480
<b>Order no.</b>		<b>11020</b>	<b>11021</b>	<b>11022</b>
<b>Order no. Wifi</b>		<b>11040</b>	<b>11041</b>	<b>11043</b>

BWT Perla silk including electrolysis cell as a standard

**Please note, connection equipment to be ordered separately**



**Fits to smallest spaces**



**BWT PERLA SILK S**





BEWAMAT 75A



BEWAMAT 25A

- Compact design - perfect for small spaces
- Suitable for about 1-4 dwellings
- Fully automatic simplex softening
- Intelligent, volume-dependent regeneration - and adjustable integrated hygienisation function
- Range of accessories available
- In compliance with all relevant national and international standards
- Made in Germany

## BEWAMAT

### INTELLIGENT QUANTITY-DEPENDENT REGENERATION

The simplex water softeners Bewamat 75A / 25A are equipped with a device that disinfects the ion exchange resin during the regeneration. Spring-loaded non-return valves protect all water connections on the inlet side of the unit.

The systems comply with all relevant national and international standards.

		BEWAMAT 25A	BEWAMAT 75A
Connection width	DN	32	
Flow rate according to EN 14743	m <sup>3</sup> /h (gpm)	1.4 (6.1)	1.8 (7.9)
Nominal capacity	m <sup>3</sup> x °dH (mol)	25 (4.5)	75 (13.4)
Operating pressure min./max.	bar (psi)	2.5-8 (36.2-116)	2.5-8 (36.2-116)
Salt tank	kg	15	50
Salt consumption per regeneration	kg	1.2	3.5
Dimensions HxWxD	mm	640 x 390 x 560	1090 x 390 x 560
<b>Order no.</b>		<b>11324</b>	<b>11325</b>

### OPTIONAL CONNECTION EQUIPMENT FOR BEWAMAT 75A & 25A (PAGE 86)



**MULTIBLOCK X** DN 25  
**Order no.** 30999



**CONNECTION SET** DN 32/32  
**Order no.** 11877

## AQUADIAL SOFTLIFE SERIES

THE PERFECT FEELING OF WELLNESS, PROTECTION AND COMFORT

Perfect softened water is great for the whole family. Tough on scale and scum, kitchen and bathroom cleaning limes are reduced, leaving more free time for you and the family. Luxuriously silky water will bring a new dimension to washing, bathing and showering. Used shampoo, soaps and detergents wash away more easily leaving your hair clean and shiny and clothes soft to the touch. The BWT AQUADIAL softlife also protects your home and all your equipment from the damaging effects of limescale. Washing-machines, dishwashers and other similar appliances will be protected and continue to operate for many years.

### KEY FEATURES

- Able to operate under low pressure conditions (>1.5 bar)
- Compact, solid design for high sediment conditions
- Smart computerized regeneration management for max. performance

AQUADIAL SOFTLIFE		10 BIO	15 BIO	25 BIO
Connection width	DN		20	
Flow rate according to EN 14743	m <sup>3</sup> /h (gpm)	1.44 (6.3)	1.56 (6.9)	1.68 (7.4)
Nominal capacity	m <sup>3</sup> x °dH (mol)	26 (4.6)	43 (7.7)	75 (13.4)
Operating pressure min./max.	bar (psi)		1-8 (14.5-116)	
Salt tank	kg	12	16	24
Salt consumption per regeneration	kg	1.5	2.0	3.0
Dimensions HxWxD	mm	532/270/480	602/270/480	804/270/480
<b>Order no.</b>		<b>11360</b>	<b>11361</b>	<b>11362</b>

AQUADIAL Softlife Bio including electrolysis cell as a standard

**Please note, connection equipment to be ordered seperately**



AQUADIAL SOFTLIFE 10 BIO



# RONDOMAT DUO

FOR LARGER BUILDINGS

FIVE VERSIONS IMPRESS WITH OPERATIONAL, ENVIRONMENTAL AND HYGIENIC STANDARDS.

The performance formula of new Rondomat Duo series is logical and simple: smaller units for higher flow rates. This is made possible by the maximum exchanger resin utilisation and shorter salt dissolution times offered by all five Rondomat Duo models. As a result the significant shortening of the regeneration intervals is also achieved. In addition the electronic control unit, guarantees a perfect balance between operation and regeneration time and controls also the period to dissolve the regeneration salt. The Rondomat Duo series significantly reduces stagnation periods with its alternating operation mode and ensures though highest hygiene.







**BWT Rondomat Duo 3**  
Mein Wasserverbrauch  
16. - 22. April  
16,5 m<sup>3</sup>

Day	Consumption (m <sup>3</sup> )
Mo	1
Di	1
Mi	1
Do	1
Fr	1
Sa	1
So	1

April 33,52 m<sup>3</sup> | 2019 154,22 m<sup>3</sup> | @ Monat 32,95 m<sup>3</sup>

**DOWNLOAD THE APP!**

**BWT Best Water Home**

Download on the **App Store** | **ANDROID APP ON Google play**

## THE KEY HIGHLIGHTS

### 01 THERMAL INSULATION

The first fully insulated softener – with control valve and regenerant tank. Prevents condensation and stops drinking water from heating up beyond the permitted temperature.

### 02 SAFETY AND PROTECTION

Maximum performance and satisfaction guaranteed thanks to comprehensive water damage safety functions via signals from AQA Safe/Watch/Guard. Perfect water hygiene at all times with IoClean and thermal insulation.

### 03 BWT BEST WATER HOME APP

Get connected and discover your personal water assistant for BWT Rondomat Duo and many other BWT products. BWT Best Water Home app provides added value in the form of more information, safety and convenience, plus a whole range of extra benefits.

### 04 CLEAR COMMUNICATION

The illuminated indicator in the shape of BWT water droplet lights up different colours to indicate the system status based on sensor readings, so you can check on it with just a glance. If the droplet is lit up blue, everything's OK. If it is yellow or red, you can check out details via the touch display or the app.

### 05 OUTSTANDING TECHNOLOGY

BWT Rondomat Duo units are top-end devices that do their job almost completely automatically. You will find all relevant information on the integrated touch display. The system data and operating parameters are easy to read off and control, while the unit's checklists and wizards provide you with assistance for its operation.

### 06 FLAWLESS DESIGN

The perfect form, right down to the smallest detail – ergonomic design combined with compact dimensions. Modern control unit just like on our bestseller, the BWT Perla.



# DRINKING WATER SOFTENERS

AT A GLANCE

COMMERCIAL AND INDUSTRIAL TECHNOLOGY



2nd GENERATION

DEVICE TYPE	RNDOMAT DUO 2.2	RNDOMAT DUO 3.2	RNDOMAT DUO 5.2	RNDOMAT DUO 6.2	RNDOMAT DUO 10.2
Precision brining	✓	✓	✓	✓	✓
lack of salt indicator	✓	✓	✓	✓	✓
Salt level indicator	✓	✓	✓	✓	✓
Direct connection for dosing unit	✓	✓	✓	✓	✓
Multi Info Touch Display	✓	✓	✓	✓	✓
AQA Watch function	✓	✓	✓	✓	✓
AQA Safe valve	✓	✓	✓	✓	✓
AQA Stop	-	-	-	-	-
Connection accessories	□	□	□	□	□
Order no.	11551	11552	11555	11553	11554

✓ included in scope of delivery

□ optional available

- not available

# DUPLEX WATER SOFTENERS 2nd GENERATION

## RNDOMAT DUO 2 TYPE 2-10

DUPLEX SOFT WATER UNITS FULLY THERMALLY INSULATED,  
VOLUME-CONTROLLED

Hydraulic duplex central control valve made of fully insulated cast metal; cast metal connection piece with water meter for fully softened water and integrated manual blending.

- Intuitive control platform for optimal facility management
- Touch display easy to use
- Remote monitoring via BWT portal & App
- Notification for low salt level (under 20 %)

		2.2	3.2	5.2	6.2	10.2
Connection width	DN	32		50	50	
Flow rate according to EN 14743	m <sup>3</sup> /h (gpm)	2 (8.8)	3 (13.2)	4.5 (19.8)	6 (26.4)	10 (44)
Flow rate 20°dH to 8°dH	m <sup>3</sup> /h (gpm)	3.7 (16.3)	5.5 (24.2)	9 (39.2)	11 (48.4)	18.3 (80.5)
Nominal capacity	m <sup>3</sup> x °dH (mol)	2×45 (2×8)	2×93 (2×17)	2×178 (2×32)	2×250 (2×44.7)	2×416 (2×74)
Operating pressure min./max.	bar (psi)			2.5–8 (36–116)		
Salt tank	kg	100	100	200	200	375
Salt consumption per 100%	kg	2	3.7	6	8	13.5
Dimensions HxWxD	mm	877×662x533	1398×662x533	1599×1212x610	1599×1212x610	1282×272x610
<b>Order no.</b>		<b>11551</b>	<b>11552</b>	<b>11555</b>	<b>11553</b>	<b>11554</b>



RNDOMAT DUO 2.2



RNDOMAT DUO 3.2



REGENERANT TANK

- Input shaft for IoClean CT
- Ultrasonic salt level sensor
- Inspection shaft with brine valve



Optional connection accessories and operating equipment – please see **page 86**.



# DRINKING WATER SOFTENERS

AT A GLANCE

COMMERCIAL AND INDUSTRIAL TECHNOLOGY



DEVICE TYPE	RONDOMAT DUO 2	RONDOMAT DUO 3	RONDOMAT DUO 6	RONDOMAT DUO 10
Precision mineralisation	-	-	-	-
Salt reserve indicator	■	■	■	■
Solar Module	-	-	-	-
Direct connection for dosing unit	■	■	■	■
Efficiency operation	■	■	■	■
Multi Info Touch Display	-	-	-	-
Installer integration	-	-	-	-
AQA Safe valve	-	-	-	-
Service reminder for backwash filter	-	-	-	-
Easy to service	■	■	■	■
Order No.	11151	11152	11153	11154
Page	83	83	83	83

■ included

□ optional

- not available

# RANDOMAT DUO - DVGW

## RANDOMAT DUO - DVGW TYPE 2 - 10

Quantity dependent controlled soft water pendular unit, with soft water short cycle generator, intelligent control electronics with control head and control device with ZLT-connection, individual setting of the raw water hardness at the press of a button, no additional system or pipe partition required, regeneration ends shortly before switching cycle, noticeable space-saving, integrated germ protection system, short and fast regeneration, optimal salt and flushing water consumption - independent of the prescribed water pressure. Scope of delivery: complete unit, hardness testing device.

		2	3	6	10
Connection width	DN	32		50	
Flow rate according to EN 14743	m <sup>3</sup> /h (gpm)	2 (8.8)	3 (13.2)	6 (26.4)	10 (44)
Flow rate 20°dH to 8°dH	m <sup>3</sup> /h (gpm)	3.5 (15.4)	5 (22)	10 (44)	17 (74.8)
Nominal capacity	m <sup>3</sup> x °dH (mol)	2x36 (2x6.4)	2x96 (2x17.2)	2x250 (2x44.7)	2x360 (2x64.4)
Operating pressure min./max.	bar (psi)		2.5-8 (36-116)		
Salt tank	kg	75	75	150	150
Salt consumption per regeneration	kg	1.44	3.4	8	12.5
Dimensions HxWxD	mm	951x1200x900	1472x1200x900	1747x1900x1200	1631x2050x1200
<b>Order no.</b>		<b>11151</b>	<b>11152</b>	<b>11153</b>	<b>11154</b>

## RANDOMAT DUO - I (INDUSTRIAL SOFTENER) WITHOUT ELECTROLYSIS CELL

TYPE RANDOMAT DUO - I (INDUSTRIAL SOFTENER)	2	3	6	10
<b>Order no.</b>	<b>11178</b>	<b>11179</b>	<b>11180</b>	<b>11181</b>



RANDOMAT DUO 2 - 3

## INDUSTRIAL SOFTENER



RANDOMAT DUO I



Optional connection accessories and operating equipment - please see **page 84-85**.





# WATER SOFTENER – EQUIPMENT & ACCESSORIES

## REGENERATION SALT WITH HYGIENIC EFFECT

Sanitabs is used like standard regeneration salt. The difference is made by the hygiene cleaning component integrated into the salt.

This hygiene effect occurs in the brine container shortly after the addition of Sanitabs. In this way, impurities and deposits in the softening system are removed alongside the regeneration.

In the last regeneration step, (rinsing), the impurities are removed and flushed into the waste together with the residue of the regeneration salt and cleaning component. Then the switch to drinking water operation takes place.



PERLA TABS



IOCLEAN



AQA TEST



PEARL WATER CHECK



SANITABS

## PERLA TABS / ASIA SPECIAL

### REGENERATION TABS - STANDARD

Tablets in accordance with DIN EN 973, 25 kg bag

	REGENERATION TABS	ASIA SPECIAL REGENERATION TABS
		40 bags x 25 kg / pallet
<b>Order no.</b>	<b>94239</b>	<b>51953</b>

## IOCLEAN

BWT IoClean is a unique cleaning tab specially developed for BWT pearl water systems. It is used to clean the ion exchanger resin and the regenerate tank. Packaging unit = 4 pieces. IoClean CT is the version for large-scale commercial softeners.

IOCLEAN	IOCLEAN	IOCLEAN CT
<b>Order no.</b>	<b>18188 E</b>	<b>18193</b>

## AQAtest

hardness monitoring device, 10 pieces in one box

BWT AQA TEST	
<b>Order no.</b>	<b>18997 E</b>

## BWT Pearl Water Check

6 test strips for monitoring hardness water quality, 20 pieces per box

BWT PEARL WATER CHECK	
<b>Order no.</b>	<b>18994 E</b>

## SANITABS

BWT Sanitabs were developed for the regeneration of water softeners in private homes. Sanitabs is a regeneration salt with an effective cleaning component in tablet form with impressive hygienic effect. Also available Sanisal FB (food and beverage industry) and Sanisal H (hotels, hospitals and schools) on request. In convenient 8 kg bags.

SANITABS	8 KG
<b>Order no.</b>	<b>94241</b>

## AQA STOP INCLUDING HUMIDITY SENSOR

Electronic water shut-off- for the prevention of water damage.

AQA STOP				
Connection width	DN	20	25	32
Nominal pressure	bar (psi)	0.5-10 (7.3 - 145)		
<b>Order no.</b>		<b>11825</b>	<b>11826</b>	<b>11827</b>

## BEWASOL

SOLE PUMPING STATION FOR BUILDING SERVICES SOFTENER

The sole pumping station Bewasol is used when the water softening system is installed below the backflow level and the flushing hose / overflow hose cannot be laid at a slope to the sewer connection. 2 inlets: OUT overflow, horizontal, pipe inside 19 mm and out softener unit, vertical hose 38 mm

BEWASOL	
<b>Order no.</b>	<b>11808</b>

## SIPHON CONNECTION SET

Simple and standard-compliant connection of soft water systems to the waste water. Connection pipe DN 40 with adapter to DN 50. Connection for 8mm flushing hose and 3/4" connection for overflow hose.

SIPHON	
<b>Order no.</b>	<b>11794</b>

## AQA STOP WITH AQA GUARD WIRELESS WATER SENSOR

Electronic water stop – to protect against water damage ( no interruption of water supply in case of power failure). Ball valve with external thread M 1" for combined size 3/4" +1" and M 1 1/2" for combined size 1 1/4" and 1 1/2". (\*max. distance to BWT Perla 30 m).

AQA STOP			
Connection width	DN	20 + 25	32 + 40
<b>Order no.</b>		<b>11775</b>	<b>11774</b>

## AQA GUARD WIRELESS WATER SENSOR

With the optional AQA Guard wireless water sensor, it is possible to install water sensors in other places in the house. E.g., in the kitchen and bathroom any possible water leakage can be easily detected. Up to 10 sensors can be added.

AQA GUARD SENSOR	WIRELESS
<b>Order no.</b>	<b>11772</b>



AQA STOP



BEWASOL



SIPHON



AQA STOP  
INCL. AQA GUARD  
WIRELESS WATER SENSOR



AQA GUARD WIRELESS  
WATER SENSOR



MULTIBLOCK MODULE GIT

## MULTIBLOCK MODULE GIT

For rapid docking to the connection module (horizontal or vertical).

### MULTIBLOCK MODULE GIT

Connection width	DN	32
<b>Order no.</b>	<b>51969</b>	



UNI-VALVE BLOCK

## UNI-VALVE BLOCK

Water supply in acc. with German DWO during interruption of the flow of water to the softener.

### FOR RONDOMAT DUO

	2 / 2.2 / 3 / 3.3	5.2 / 6 / 6.2	10 / 10.2
Connection width	DN 32	DN 50	DN 50
<b>Order no.</b>	<b>11821</b>	<b>11822</b>	<b>11803</b>



MULTIBLOCK X

## MULTIBLOCK X

Using the Multiblock X made of brass, the water flow to the softener or limescale protection unit remains uninterrupted. The water supply is maintained via an integrated by-pass, so that maintenance work can be carried out without any problems.

### MULTIBLOCK X

	DN 25	DN 32
<b>Order no.</b>	<b>30999</b>	<b>31000</b>



INSULATION

## INSULATION FOR MULTIBLOCK X

Made of EPP for quick and efficient insulation. The insulation consists of two half-shells and can also be retro-fitted to already assembled Multiblocks.

### INSULATION FOR MULTIBLOCK X

	DN 25	DN 32
<b>Order no.</b>	<b>30946</b>	<b>30944</b>



CONNECTION SET  
DN 32/32 DRINKING WATER

## CONNECTION SET DN 32/32

For installation of BWT water softeners with nominal connection DN 32 to the Multiblock module consisting of: 2 flexible armoured hoses with formed angles and DN 32 cap nuts on both ends, TÜV tested, with 4 seals, 0.6 m.

### CONNECTION SET

	DN 32/32
<b>Order no.</b>	<b>11877</b>



INSULATION SET

## INSULATION SET TW DN25 - DRINKING WATER

The sets are made of highly flexible soft foam based on synthetic rubber. All the necessary parts and brief instructions are included for retro-fitting the two existing flexible hoses.

### CONNECTION SET

	DN	32	32
Connection width	DN	32	32
Length	mm	760	950
<b>Order no.</b>		<b>30942</b>	<b>30943</b>

## MULTIMAT SYSTEM SEPARATOR

- independent from initial pressure (non-return valve included)
- no external energy necessary
- no air intake to the pipe system
- approval equivalent to pipe disconnecting system. Installation type 2 and dangerous goods classification 1 – 4
- simple construction
- cheaper than pipe disconnecting system
- housing made of brass (DN 20 – 65) or grey cast iron (DN 80)
- epoxy coated (DN 80)
- spring and valve seat made of stainless steel
- lockable connection for pressure gauges
- non-return valve at water inlet
- release valve in middle chamber
- non-return valve at water outlet

### MULTIMAT DN 20 - 32

MULTIMAT	DN	20	25	32
Nominal pressure	PN (psi)		10 (14.5)	
Nominal flow rate	m <sup>3</sup> /h (gpm)	3.5 (15.4)	3.5 (15.4)	14 (61.6)
Pressure drop	bar (psi)		1.0 (14.5)	
Temperature max.	°C		60	
Installation length	mm	260	280	370
<b>Order no.</b>		<b>11932</b>	<b>11933</b>	<b>11934</b>

### MULTIMAT DN 40 - 80

MULTIMAT	DN	40	50	65	80
Nominal pressure	PN (psi)		10 (14.5)		
Nominal flow rate	m <sup>3</sup> /h (gpm)	16 (70.5)	16 (70.5)	35 (154)	56 (247)
Pressure drop	bar (psi)		1.0 (14.5)		
Temperature max.	°C		60		
Installation length	mm	370	394	460	460
<b>Order no.</b>		<b>11935</b>	<b>11936</b>	<b>11937</b>	<b>11938</b>

## TESTOMAT 2000

BOB operation without monitoring for up to 72 hours. Control device for monitoring the max. permitted residual hardness acc. to soft water units through regular chemical analyses based on indicators set using limit values. With impulse release for the actuation of alarm systems or an application, additional direct connection of a solenoid valve with lock.

TESTOMAT	2000
<b>Order no.</b>	<b>11833</b>

## INDICATOR SOLUTION

FOR TESTOMAT 2000 500 ML

INDICATOR SOLUTION				
Colour change at	0.05–0.5 °dH	0.25–2.5 °dH	1.0–10.0 °dH	2.5–25.0 °dH
<b>Order no.</b>	<b>11858</b>	<b>11859</b>	<b>11860</b>	<b>11861</b>

## INDICATOR SOLUTION

FOR TESTOMAT F 500 ML

INDICATOR SOLUTION			
Colour change at	0.1 °dH	0.5 °dH	1.0 °dH
<b>Order no.</b>	<b>11986</b>	<b>11985</b>	<b>11984</b>



MULTIMAT DN 20 - 32



MULTIMAT DN 40 - 50



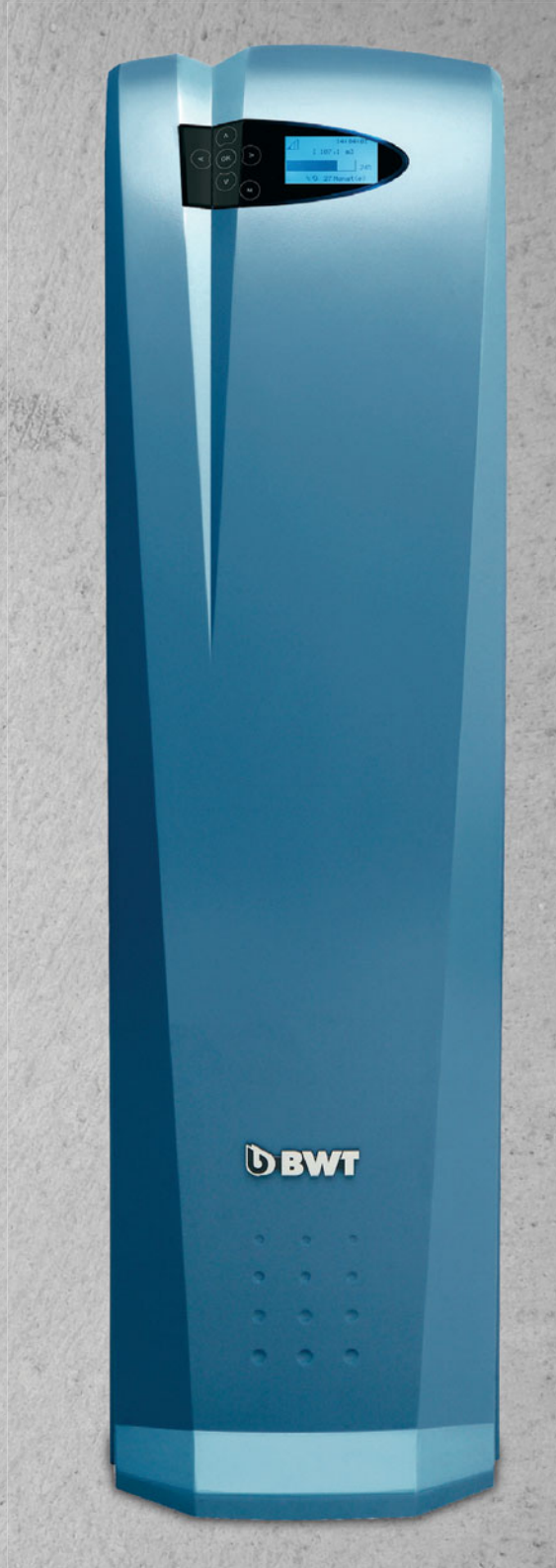
TESTOMAT 2000



# **ANTI- SCALING TECHNOLOGY**

EFFICIENT CORROSION AND  
LIMESCALE PROTECTION

# OGY



ANTI-SCALING  
TECHNOLOGY



# AQA TOTAL ENERGY

MODERN EFFECTIVE 3-PHASE PROTECTION

## **THE NATURAL SOURCE: HEALTHY MINERALS EVERYWHERE IN YOUR HOME**

Our drinking water contains dissolved trace elements and minerals, such as magnesium – an important mineral compound for our bodies. It ensures energy metabolism and osteogenesis and gives us energy for everyday life. With AQA total Energy, all mineral compounds are retained in the water and you automatically ingest valuable minerals with your drinking water – day after

day, simply with every sip of water. A vital drinking enjoyment for added health and performance. Improve your drinking habits and your well-being through conscious drinking water enjoyment – with AQA total Energy, you can make your tap into a sparkling source of energy with valuable drinking water.

## **EASY TO USE – CARTRIDGE TECHNOLOGY WITH DISPOSABLE REFILL**

The BWT cartridge technology ensures optimal hygiene and simple handling when exchanging cartridges. Stan-

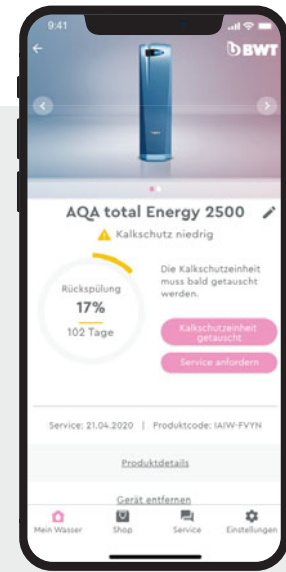
dardised cartridge designed with HydroModul connection offers quick and easy replacement of the refill.





## AQA TOTAL ENERGY

AQA total Energy offers optimum lime-scale and corrosion protection for your drinking water installation and valuable water full of important minerals for you.



**BWT** Best Water Home



### 01 OPTIMAL LIMESCALE PROTECTION

Due to its revolutionary bipolar technology the limescale in the water is stabilised by forming nanocrystals. Therefore, it is unable to deposit itself in the pipes, installation system or boiler.



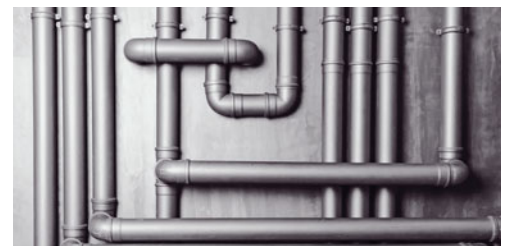
### 02 DRINKING WATER WITH VITAL INGREDIENTS

AQA total Energy leaves all the valuable minerals in the drinking water such as magnesium. In this way, you receive naturally precious drinking water.



### 03 EFFICIENT CORROSION PROTECTION

In addition, an effective corrosion protection coating is created in metallic pipes.







AQA TOTAL ENERGY 1500



AQA TOTAL ENERGY 2500

## AQA TOTAL ENERGY

WITH THE UNIQUE 3-PHASE-TECHNOLOGY FOR VITALITY, LIMESCALE PROTECTION AND CORROSION PROTECTION

AQA total Energy, the natural and environmentally benign drinking and operation free water treatment with the 3-phase-technology provides vitality through retaining all valuable minerals in the drinking water and improvement of magnesium and oxygen. Limescale protection through stabilisation by forming nanocrystals; limescale remains in the water not in the pipe or boiler corrosion protection through the natural formation of an effective protective coating against surface corrosion. The optimised refill system ensures constant hygiene.

### AQA TOTAL ENERGY 1500 – 2500

AQA TOTAL ENERGY		1500	2500
Connection width	DN	25	
Flow rate	m <sup>3</sup> /h (gpm)	1.5 (6.6)	2.5 (11)
Operating pressure min./max.	bar (psi)	2-10 (29-145)	
Dimensions HxWxD	mm	110×320×200	1130×310×280
<b>Order-No.</b>		<b>80007</b>	<b>80008</b>



Multiblock X for AQA total Energy 2500 to be ordered separately – see **page 86**.

## AQA TOTAL ENERGY 4500

L= Flow direction from left to right, R= Flow direction from right to left.

AQA TOTAL ENERGY		4500 L	4500 R
Connection width	DN	40	
Flow rate	m <sup>3</sup> /h (gpm)	4.5 (19.8)	
Operating pressure min./max.	bar (psi)	2-10 (29-145)	
Dimensions HxWxD	mm	1108×373×320	
<b>Order-No.</b>		<b>80009</b>	<b>80006</b>

## CARTRIDGE REFILL

FOR AQA TOTAL ENERGY 1500 - 4500

Capacity 350 – 600 m<sup>3</sup> (1541 – 1761 gpm) about 3 years (depends on water quality and consumption).

CARTRIDGE-REFILL AQA TOTAL ENERGY	1500 - 4500
<b>Order-No.</b>	<b>84130</b>



AQA TOTAL ENERGY 4500



CARTRIDGE REFILL



**AQA TOTAL ENERGY**  
5600 - 14000



CARTRIDGE REFILL

## AQA TOTAL ENERGY 5600 - 14000

Wall-mounted unit (in quick mounting frame), distribution pipe system made of high-quality yellow brass casting. Modular construction with integrated shut-off set and water meter (no water shut-off in case of cartridge exchange, no by-pass necessary). The modules are connected with the patented rapid connection system.

Water connection on left or right, as required. Scope of delivery includes connection unions with male thread and cover for dust protection and water vessel.

**Control system:** Ready for installation in a standard control panel (safety class IP 54). Power electronic with separate fuse protection for each module; the whole system is controlled and monitored by one central processor. Completely electrically wired, connection with safety plug 230 V/50 Hz.

TYPE AQA TOTAL ENERGY		5600	8400	11200	14000
Connection width	DN	40		50	
Flow rate	m <sup>3</sup> /h (gpm)	5.6 (24.6)	8.4 (36.9)	11.2 (49.3)	14 (61.6)
Operating pressure min./max.	bar (psi)	2-10 (29-145)			
Dimensions HxW	mm	1280x560		1280x825	
<b>Order-No.</b>		<b>80010</b>	<b>80011</b>	<b>80012</b>	<b>80013</b>

## CARTRIDGE-REFILL

FOR AQA TOTAL ENERGY 5600 - 14000

Capacity 350 – 600 m<sup>3</sup> (1541 – 1761 gpm) about 3 years  
(depends on water quality and consumption).

CARTRIDGE-REFILL AQA TOTAL ENERGY	5600 – 14000
<b>Order-No.</b>	<b>84131</b>

## AQA NANO – LIMESCALE PROTECTION UNIT

EFFECTIVE LIMESCALE PROTECTION UP TO 20 °dH

- **BWT safety**  
Reliable protection against limescale, blocked pipes and the unnecessary hygiene risks caused by deposits.
- **BWT drinking water guarantee**  
All valuable minerals are retained in the water.
- **BWT convenience**  
The electronic controller provides a reliable reminder of an annual service.

### AQA NANO

The alternative limescale protection system to prevent and avoid limescale deposits in pipes and boilers up to 20 °dH.

TYPE AQA NANO		
Connection width	DN	25
Flow rate	m <sup>3</sup> /h (gpm)	1.5 (6.6)
Operating pressure min./max.	bar (psi)	2-10 (29-145)
Dimensions HxWxD	mm	710×300×100
<b>Order-No.</b>		<b>23301</b>

### AQA NANO

AQA NANO HYGIENE REPLACEMENT SET

TYPE AQA NANO	
<b>Order-No.</b>	<b>23937</b>



AQA NANO HYGIENE  
REPLACEMENT SET



**BWT  
PERFECT  
WATER**

HYGIENE - SAFETY - HEALTH





# **BWT UV SYSTEMS**

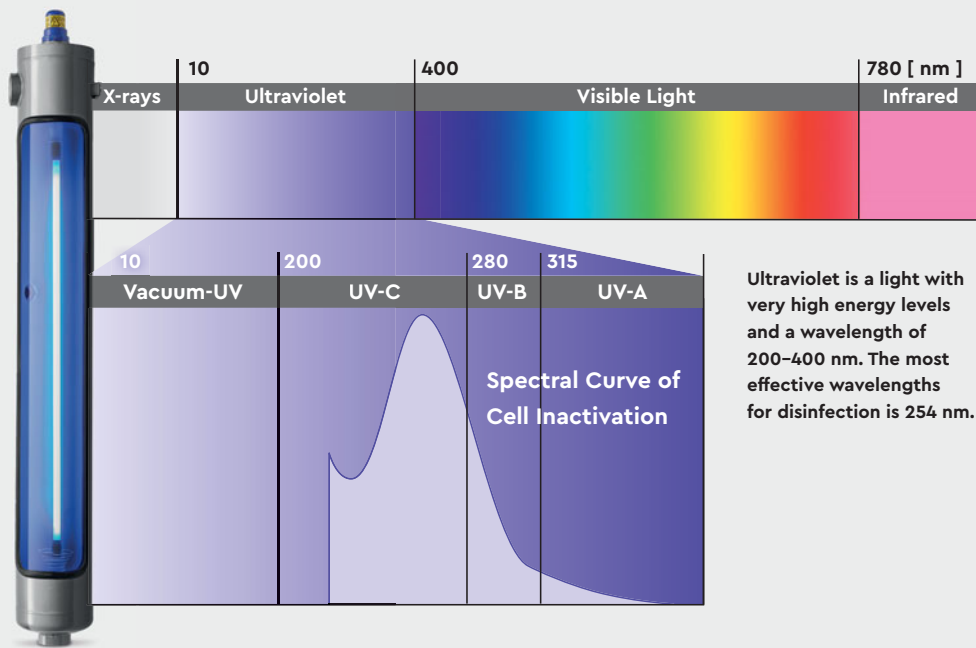
SAFE AND HYGIENIC WATER

## **WITHOUT CHEMICALS**

UV LIGHT DESTROYS BACTERIA NATURALLY

Drinking water is the most important food for humans, therefore water is strictly controlled by state regulations to protect consumers from diseases and ensure their well-being. The most important requirement is, that it is free of pathogens and poses no health risks to the people. With the Bewades range, BWT realizes a process that disinfects without the use of any harmful chemicals but with UV light.

Disinfection means a 99.99% reduction of the pathogenic germs which are present in water. After exposure to UVC light with a dose of 400 J/m<sup>2</sup> the genetic information (DNA) of bacteria and microorganism is damaged that heavily, that they are unable to reproduce and finally 'killed'. No harmful by-products will be generated and there is no change in the water chemistry, taste, colour and odour!



## 01 PRIVATE HOMES

Installed right after the water meter or under the kitchen sink: Bewades Blue protects you and your loved ones – best water for drinking, cooking, showering or bathing.



## 02 SWIMMING POOLS AND SPA'S

Easy and automatically operation in technical rooms: Bewades MQ turns your pool into a spring water oasis – say goodbye to chlorine smell, red eyes and skin irritation.



## 03 APARTMENT AND OFFICE BUILDINGS

The worry-free and safe solution for facility management and service providers: upgrade the technical rooms with Bewades HP to keep bacterial contamination and germs out of water installation system.



## 04 PROCESS WATER

Remote operated from the control room: product hygienically impeccable- simply to install, with low operating and maintenance costs.



# BEWADES UV DISINFECTION SYSTEMS

## SELECTION TABLE



TYPE		BEWADES BLUE	BEWADES T	BEWADES N
<b>Description</b>		For home water	Certified for drinking water	For drinking water
<b>Connection width</b>	DN	15 – 25	50 – 250	32 – 200
<b>Flow rate *</b>	m <sup>3</sup> /h	0.5 – 3.5	5.9 – 342	4.0 – 251
<b>Max. operating pressure</b>	bar	10	10/16	10
<b>24/7 Monitoring of water quality</b>		optional	yes	yes
<b>Connection power</b>	Watt	20 – 51	110–2455	80 – 1130
<b>Highest UV dosage according to DVGW</b>		Yes	Yes	Yes
<b>Page</b>		103	104	105

\* @ T<sub>100</sub> =70% UVT, 400J/m<sup>2</sup>, End of lamp lifetime



### BEWADES HI

### BEWADES LC

### BEWADES HP

For all waters of poorer quality, like well water

For rain water treatment or industrial applications

For high pressure applications

20 – 200

20 – 80

80 – 125

2.4 – 328

2.4 – 38

38 – 90

10

10

25

yes

-

yes

100 – 2100

75 – 450

450 – 850

Yes

Yes

Yes

106

107

108



# BWT BEWADES BLUE

USER FRIENDLY UV TECHNOLOGY

**HIGHEST QUALITY, BEST DRINKING WATER,  
NO COMPROMISES!**

THE ULTIMATE UV DISINFECTION

If you are unsure of the microbiological quality of your water or if you are looking for additional security from municipal water source, the BWT has the solution in the new residential series of BWT UV systems: Bewades blue

## ADVANTAGES AT A GLANCE

- Intuitive handling via color display with clear text messages – One look info
- Very robust online sensor (optional) monitoring permanently the systems performance and alarming if the water is unsafe to drink
- High grade stainless steel reactor, very hygiene and corrosion resistant
- Reliable, robust UV lamp for durability and long life (9,000 hours)
- Electronic controller in a splash proof case, virtually eliminates common water damage issues
- Complete set - ready to install, inclusive wall mounting kit



## BEWADES BLUE

BWT provides the ultimate in UV protection for your home with the optional inclusion of a true 254nm Teflon® based UV sensor that continuously monitors the performance of the UV system and displaying the output via a colour screen. In addition to UV output, diagnostics, system status, warnings, even QR codes are included. With the integral expandability port, the addition of a 4–20mA output or a remote alarm is a simple plug-and-play option!

Different types available for under-the-sink and main pipe installation.

### Technical specifications:

- Future proof expandability for future upgrades & options
- Axial flow polished reactor, designed and manufactured to ASME pressure vessel standards
- Free floating, keyed-in-place UV sensor
- User friendly bayonet style lamp connector (quick ¼ turn removal with no extra tools needed)

TYPE BEWADES BLUE		0.5	1.0	2.0	2.5	3.5
Connection width	DN	15	20	20	25	25
Max. flow rate, [400 J/m <sup>2</sup> ] @T <sub>10</sub> =95%	m <sup>3</sup> /h (gpm)	0.5 (2.2)	1.0 (4.4)	2.0 (8.8)	2.5 (11)	3.5 (15.4)
Operating pressure min./max.	bar (psi)			0.7/10.0 (10/145)		
Connection power	W	20	30	49	62	51
Expected lamp lifetime*	h	9,000				
<b>Order no. basic unit</b>		<b>23391</b>	<b>23392</b>	<b>23393</b>	<b>23394</b>	<b>23395</b>
<b>Order no. sensor (optional)</b>		<b>23850</b>	<b>23850</b>	<b>23850</b>	<b>23850</b>	<b>23851</b>

\*depends on operating conditions



BEWADES BLUE



BEWADES BLUE  
CONTROL UNIT







BEWADES T WITH COMFORT CONTROLLER



BEWADES T WITH COMPACT CONTROLLER

## BEWADES T

DVGW Certified disinfection performance (3rd party validated) confirmed by microbiological tests for all drinking water applications.

### Technical specifications:

- Unique dynamic lamp heating adjusts the lamp output in seconds and provides optimum disinfection even by rapidly varying flows and water temperatures
- Homogeneous UV dose, thanks to optimized flow behavior in the reactor, guarantees maximum flow output with a minimum number of lamps and minimum pressure loss
- Reduced life cycle costs due to long service life of Bewades T high-output lamps with low energy consumption and high UV output
- High flexibility thanks to vertical or horizontal installation
- Control cabinet with efficient recirculation cooling ensures the long life electronic components and protects against corrosion in aggressive ambient conditions

TYPE BEWADES T		80W80/ 14N	230W230/ 14N	350W350/ 17N	700W350/ 26N
Connection width	DN	50	80	100	150
Max. flow rate [400 J/m <sup>2</sup> ] @ T <sub>100</sub> = 70 %	m <sup>3</sup> /h (gpm)	5.9 (25.9)	21.8 (95.9)	37.9 (166.8)	93.5 (411.6)
Operating pressure min./max.	bar (psi)		2/10 (30/145)		2/16 (30/232)
Connection power	W	110	310	430	835
Expected lamp lifetime	h	12,000			
<b>Order no. PN10</b>		<b>27025</b>	<b>27026</b>	<b>27027</b>	<b>27028</b>
<b>Order no. PN16</b>		-	-	-	<b>27009</b>

TYPE BEWADES T		690W230/ 32N	1050W350/ 32N	1400W350/ 36N	2100W350/ 41N
Connection width	DN	150	200	200	250
Max. flow rate [400 J/m <sup>2</sup> ] @ T <sub>100</sub> = 70 %	m <sup>3</sup> /h (gpm)	71.1 (313)	148.4 (653.3)	210.4 (926.3)	342.1 (1,506.2)
Operating pressure min./max.	bar (psi)			2/16 (30/232)	
Connection power	W	825	1240	1645	2455
Expected lamp lifetime	h	12,000			
<b>Order no. PN10</b>		<b>27029</b>	<b>27030</b>	<b>27031</b>	<b>27032</b>
<b>Order no. PN16</b>		<b>27010</b>	<b>27011</b>	<b>27012</b>	<b>27013</b>

## BEWADES N

Safe disinfection according to the norm.

### Technical specifications:

- Sophisticated microprocessor based UV control II – easy to use
- Validated sensor technology for highest operational safety
- Electronic ballasts for a long lamp life and to compensate voltage fluctuations
- CFD optimized hydraulically design ensures safe water disinfection and saves energy costs
- According to the stringent, internationally recognized standards of the German Technical and Scientific Association for Gas and Water (DVGW)

TYPE BEWADES N		200W200/ 17N	390W130/ 27N	810W270/ 40N	1080W270/ 50N
Connection width	DN	50	80	150	200
Max. flow rate [400 J/m <sup>2</sup> ] @ T <sub>100</sub> = 80 %	m <sup>3</sup> /h (gpm)	16.7 (73.5)	47.8 (210.5)	181.9 (800.9)	251 (1,005)
Operating pressure min./max.	bar (psi)			2/10 (30/145)	
Connection power	W	220	450	850	1130
Expected lamp lifetime	h			12,000	
<b>Order no.</b>		<b>23353</b>	<b>23354</b>	<b>23289</b>	<b>23299</b>



BEWADES N

HIGH INTENSITY  
UV FOR POOR  
WATER QUALITIES



BEWADES HI



BEWADES SENSOR  
TECHNOLOGY  
for N and HI SERIES.  
Validated sensor – for highest  
operational safety

## BEWADES HI

With all the features required by German DVGW – excellent for poor water qualities with low UV transmittance.

### Technical specifications:

- High density of lamps per diameter to ensure sufficient performance in turbid waters
- Sophisticated microprocessor based UV control II – easy to use
- Validated sensor technology for highest operational safety
- Electronic ballasts for a long lamp life and to compensate voltage fluctuations

TYPE BEWADES HI		70W70/ 08HI	400W200/ 17HI	800W200/ 22HI	1000W200/ 22HI	1200W200/ 27HI
Connection width	DN	20	80	125	125	150
Max. flow rate [400 J/m <sup>2</sup> ] @ T <sub>100</sub> = 70 %	m <sup>3</sup> /h (gpm)	2.4 (10.5)	38 (167.3)	90 (396.2)	109 (479.9)	158 (695.6)
Operating pressure min./max.	bar (psi)			2/10 (30/145)		
Connection power	W	100	450	850	1100	1300
Expected lamp lifetime	h			12,000		
<b>Order no.</b>		<b>23373</b>	<b>23050</b>	<b>23052</b>	<b>23053</b>	<b>23054</b>

TYPE BEWADES HI		1400W200/ 32HI	1600W200/ 35HI	1800W200/ 35HI	2000W200/ 40HI
Connection width	DN	150	200	200	200
Max. flow rate [400 J/m <sup>2</sup> ] @ T <sub>100</sub> = 70 %	m <sup>3</sup> /h (gpm)	207 (911.3)	248 (1,091.9)	276 (1,215.1)	328 (1,444.1)
Operating pressure min./max.	bar (psi)			2/10 (30/145)	
Connection power	W	1500	1700	1900	2100
Expected lamp lifetime	h			12,000	
<b>Order no.</b>		<b>23055</b>	<b>23056</b>	<b>23057</b>	<b>23058</b>

## BEWADES LC

Reactor design taken from the Bewades N series and reduced to essential features: Simplicity, robustness and reliability for all areas of water disinfection.

### Technical specifications:

- Integrated cooling fan to fulfill all requirements for warm climates
- Easy control displaying total hours of operation and lamp performance
- Compact design for easy Installation and servicing
- Potential-free contact for lamp failure connection to building control

TYPE BEWADES LC		70W70/ 08LC	80W80/ 11 LC	100W100/ 11LC	200W200/ 11LC	400W200/ 17 LC
Connection width	DN	20	32	50	50	80
Max. flow rate [400 J/m <sup>2</sup> ] @ T <sub>100</sub> = 70 %	m <sup>3</sup> /h (gpm)	2.4 (10.5)	4.2 (18.5)	6.8 (29.9)	13 (57.2)	38 (167.3)
Operating pressure min./max.	bar (psi)			2/10 (30/145)		
Connection power	W	75	90	110	220	450
Expected lamp lifetime	h			12,000		
<b>Order no.</b>		<b>23374</b>	<b>23084</b>	<b>23085</b>	<b>23059</b>	<b>23346</b>



BEWADES LC



HIGHER  
PRESSURE  
RATING



BEWADES HP

## BEWADES HP

Reinforced construction for high pressure applications up to **25 bar** – e.g. **high-rise buildings**

### Technical specifications:

- Unique technology & sophisticated microprocessor based UV control II
- Superior welding performance – engineered by BWT- to withstand extreme conditions
- Validated sensor technology for highest operational safety

TYPE BEWADES HP		400W200/ 17HP	600W200/ 22HP	800W200/ 22HP
Connection width	DN	80	100	125
Max. flow rate [400 J/m <sup>2</sup> ] @ T <sub>100</sub> = 70 %	m <sup>3</sup> /h (gpm)	38 (167.3)	65 (286.1)	90 (396.2)
Operating pressure min./max.	bar (psi)		2/25 (30/362)	
Connection power	W	450	650	850
Expected lamp lifetime	h		12,000	
<b>Order no.</b>		<b>23367</b>	<b>23368</b>	<b>23369</b>

## BWT RO<sub>3</sub>UV

THE MOST EFFECTIVE TEAMWORK OF TWO TECHNOLOGIES:  
OZONE AND UV

### Key features:

- Quick status feedback via the color of the illuminated BWT drop
- High operational security thanks to a modular design and the unique two stage approach (UV and Ozone)
- High quality painted sheet steel housing for IP54 protection
- For wall mounting. For freestanding installations an optional rack is necessary.

TYPE BWT RO <sub>3</sub> UV		10	25	50
Connection width	DN	40	40	40
Max. flow rate	m <sup>3</sup> /h (gpm)	2 (8.8)	5 (22)	10 (44)
Nominal ozone production capacity	g/h	0.4	1	2
Operating pressure min./max.	bar (psi)		2/10 (30/145)	
Connection power	W	250	180	250
Expected lamp lifetime	h		12,000	
<b>Order no.</b>		<b>23132</b>	<b>23035</b>	<b>23034</b>

### OPTIONAL ACCESSORIES

MOUNTING FRAME	
<b>Order no.</b>	<b>1-313103</b>

HYGIENE AND  
SAFETY FOR  
YOUR STORAGE  
TANK



BWT RO<sub>3</sub>UV



# BWT RO<sub>3</sub>UV

THE NEW GERM BARRIER FOR ROOF TANKS

## HYGIENE MANAGEMENT ON A HIGH LEVEL

THE MOST EFFECTIVE TEAMWORK

Every domestic or commercial property has different varieties and sizes of water storage tanks – some located on the rooftop, others in the basement with one in common: the importance of hygiene. Despite regular cleaning intervals, did you know there may be hygiene

gaps and obviously clean water could become a health hazard like any other food? Life-threatening infections are the risk of drinking or inhaling water contaminated with pathogens or bacteria while showering or brushing teeth.

### **WHAT HAPPENS IN A ROOF TOP TANK? HOW PATHOGENS AND BACTERIA CONTAMINATE WATER?**

Formerly clean water becomes unable for drinking when dangerous germs, such as legionella multiply themselves over time and the water transports them to the point of use – to your tap. Three factors can cause these problems:

**Stagnation:** Particles that are carried with the water settle in the tank. A perfect breeding ground for micro-organism. Additionally the water gets in the tank enough time to take the germs in and transport them to the point of use

**Deposits:** Additionally the tanks are never completely closed. Over the tank breathing the water gets contaminated by airborne pollution and even insects.

**Heat:** The tanks are in full sun light, so that the water is just heated up enough to provide perfect conditions for bacterial growth

## RO<sub>3</sub>UV COMBINES TWO DIFFERENT WATER TREATMENT METHODS

UV safely disinfects the water while passing the unit, the subsequently injected ozone is dragged along and continues the job in tank and pipe. This way, not only the stored water but also the installation is kept free of any microbiological growth. In line with our company philosophy the process works completely free of chemicals: An Ultra Violet System (UV) purifies the water in the most natural way like the sun. Furthermore, RO<sub>3</sub>UV generates Ozone just from ambient air. Ozone decomposes back to oxygen after having fulfilled its task quickly and efficiently. (further details on pages 98 and 109).



BWT RO<sub>3</sub>UV



### 01 COST-EFFECTIVE AND UNPROBLEMATIC

RO<sub>3</sub>UV consumes only little power and wastes no water. No annoying handling or storage of chemicals is required, as ozone is produced safely in the unit on demand.



### 02 VERSATILE AND EFFICIENT

RO<sub>3</sub>UV disinfects the water and enhances the water quality in general by reducing colors and odors. The multiple barrier approach with ozone and UV protects against most common water diseases. Ozone is the most powerful oxidant available and acts 3000 times faster than chlorine as a bactericide. This though without creating any hazardous disinfection by products, but keeping the water naturally clean.



### 03 RELIABLE AND EASY

RO<sub>3</sub>UV works automatically and unattended. It provides you 24/7 with safe and healthy water for your home – and that basically maintenance free: only an annual service is needed. In operation the status of the unit is shown at a quick glance by the color of the illuminated BWT drop.



HYGIENE AND  
SAFETY FOR  
YOUR POOL  
WATER



BEWADES MQ



## BEWADES MQ

For perfect clear spring water in your pool without the typical chlorine smell and any eye or skin irritation.

### Key features:

- Medium pressure multi-wavelength system to disinfect and to eliminate bound chlorine
- Manual or automatic wiper system for simplified maintenance
- Dimmable ballasts to reduce the power consumption to the minimum required
- Communication interface with analogue In-/output

TYPE BEWADES MQ		400-8000 MQ
Connection width	DN	80 – 300
Max. flow rate [400 J/m <sup>2</sup> ] @ T <sub>100</sub> = 70 %	m <sup>3</sup> /h (gpm)	24 – 1,122 (105.6–4,940)
Operating pressure min./max.	bar (psi)	2/10 (30/145)
Connection power	W	450 – 8,050
Expected lamp lifetime	h	8,000
<b>Order no.</b>		<b>on request</b>

Also available as cost effective basic version Bewades MQ<sub>LC</sub>. Further information on request.

\*depends on operating conditions

## BWT BEWAZON

### OZONE TECHNOLOGY

BWT Bewazon VULW 12 to 700-series ozone devices produce ozone by means of corona discharge and comply with the requirements of the standard DIN 19627. Ozone is ideally suited for the oxidation of unwanted contaminants in water and the disinfection of water, especially pool water (see DIN 19643). Bewazon VULW 12-700-type systems are designed in compliance with the following standards for industrial applications: - DIN EN 61000-6-2. - DIN EN 61000-6-4.

BWT has two kinds of models according to the field of application:

BWT Bewazon VA range serves exclusively to generate ozone to disinfect pool water in private swimming pools

BWT Bewazon VULW range is also intended for commercial use to treat mineral water, bottle sterilisation, car wash, exhaust air, etc.

The BWT Bewazon ozone system ensures that the water is oxidized by highly effective ozone. This makes it possible to kill particularly resistant viruses and bacteria and to reduce undesirable water constituents, such as chlorine.

#### The advantages at a glance:

- Environmentally friendly and safe
- Innovative
- Compact and economical

BEWAZON VULW OZONE UNIT		12	25	45	70	140	210	280
Nominal ozone production capacity	g/h	12	25	45	70	140	210	280
Ozone concentration	g/m <sup>3</sup>				20			
Gas used					Air			
Protection class					IP 53			
Power consumption @70 % ozone production	kW	0.13	0.28	0.5	0.78	1.55	2.33	3.11
Width total	mm	800			1000		2000	
Height	mm	1900			2100		2100	
Depth	mm	500			600		600	
<b>Order no.</b>	<b>on request</b>							

BEWAZON VULW OZONE UNIT		350	420	490	560	630	700	
Nominal ozone production capacity	g/h	350	420	490	560	630	700	
Ozone concentration	g/m <sup>3</sup>				20			
Gas used					Air			
Protection class					IP 53			
Power consumption @70 % ozone production	kW	3.89	4.66	5.44	6.22	6.99	7.77	
Width total	mm	2800		3000		3200		
Height	mm	2100		2100		2100		
Depth	mm	600		600		600		
<b>Order no.</b>	<b>on request</b>							



BEWAZON



# REVERSE OSMOSIS

ULTRAPURE WATER FOR LABORATORIES, AIR CONDITIONING TECHNOLOGY, HEALTH FACILITIES AND MORE

## INTERESTING FACTS

Reverse osmosis (RO) is a method borrowed from nature. The technology has been tried-and-tested in water treatment systems all over the world for decades.

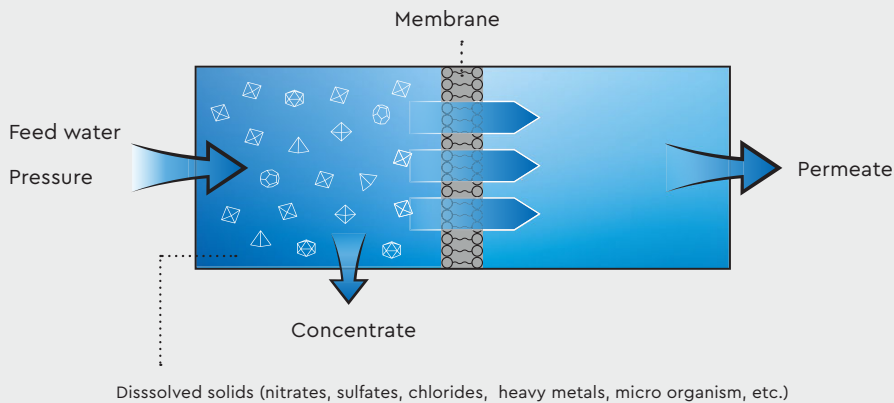
The natural osmosis process is reversed with reverse osmosis. This means water is pressed through a semipermeable membrane at high pressure. Pure water molecules can pass through this without problems due to their molecular size. Dissolved salts, such as nitrates, sulphates and chlorides together with heavy metals and even microorganisms, such as bacteria, are filtered out.

The feed water flow is separated under pressure into pure water (permeate) and the undesirable substances (concentrate). The so-called concentrate is discarded, while the permeate is supplied to the intended technical use.

Through the reverse osmosis, the salt content of the water is reduced by approx. 97–98 %, thus reducing the conductivity of 500  $\mu\text{S}/\text{cm}$  in the untreated water to approx. 10  $\mu\text{S}/\text{cm}$  in the permeate.

## VARIOUS USES

The advantages of the consistent high-purity water quality of reverse osmosis are finding ever new fields of use. The low-germ and low-pollutant water with the lowest conductivity ensures functional security and the best results for work and production processes in laboratory technology, in health facilities, dental practices and dental laboratories, in air conditioning technology and in building cleaning.



### 01 LABORATORY TECHNOLOGY

Through reverse osmosis, demineralised water can have many uses in a modern laboratory, e.g. as a solvent for analyses, for steam production for sterilisers or for use in laboratory washers.



### 02 AIR CONDITIONING TECHNOLOGY

Incrustations by hard water or biological films lead to blockages and inefficiency of the air conditioning equipment. This is why renowned manufacturers generally recommend the use of low-salt water (reverse osmosis).



### 03 HEALTH FACILITIES

In the pharmaceutical industry and in medical research, low-salt water is used for sensitive laboratory applications or in sterile preparation. In addition, cleaning and disinfection appliances are operated with it.



### 04 DENTAL LABORATORIES & PRACTISE

In dental laboratories, the main fields of use for reverse osmosis water are in the field of autoclaves, sterilisers, washers and other equipment needed for general laboratory purposes.



# REVERSE OSMOSIS

## SELECTION TABLE



UNIT	PERMAQ PICO ONLINE
Application	Constant water demand
Permeate tank	Membrane pressure tank required
Flow rate l/h (gpm)	140-2500 (0.6-11)
Water yield Permeate	up to 80%
Salt retention rate	up to 98%
Constant permeate pressure and output during consumption	-
Output pressure adjustable	-
Minimum water consumption required	-
Enclosed System in protective housing	✓
Fullfit Hygiene design	✓
Simple membrane exchange	✓
Hygiene function	✓
Integrated cleaning program	✓
Communication module optional	✓
<b>MOST UNIQUE FEATURE</b>	<b>Smallest footprint in the market and unique construction</b>

Note @ 3 bar inlet counter pressure



**PERMAQ PICO OFFLINE**

**PERMAQ PICO VARIO**

Varying water demands

Water on demand

Pressureless tank and booster pump required

Not required

180–2800 (0.7–12.3)

100–2100 (0.4–9.2)

up to 80%

up to 98%

-

✓

-

✓

-

✓

✓

✓

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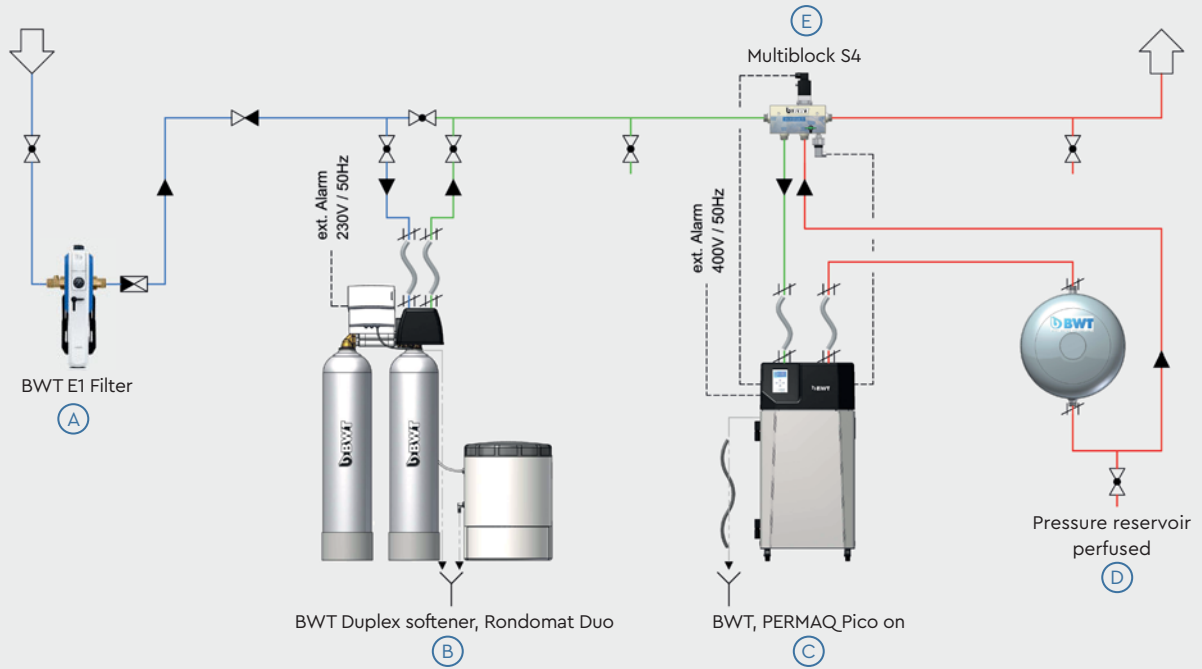
**Smallest footprint in the market  
and unique construction**

@ 2 bar inlet pressure

@ 3 bar inlet counter pressure

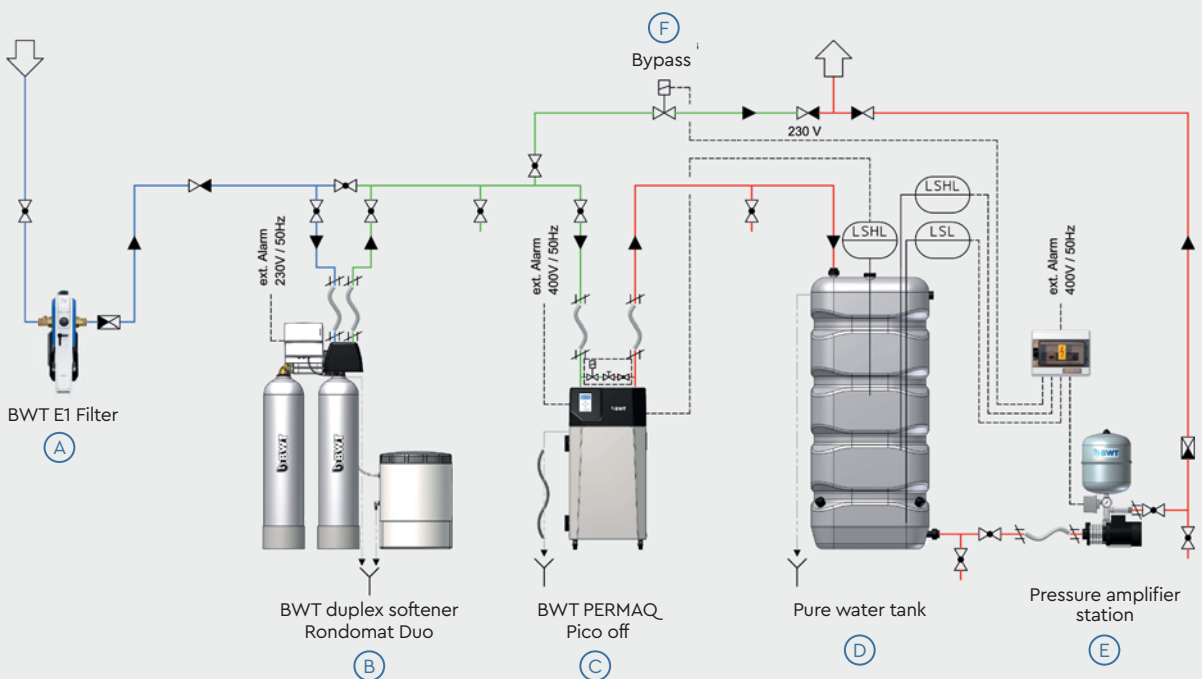
## PERMAQ® PICO online

- Ⓐ Filter
  - Ⓑ Softener
- Ⓒ Reverse Osmosis (RO)
  - Ⓓ Pressure reservoir with integrated bypass
- Ⓔ Multiblock S4



## PERMAQ® PICO offline

- Ⓐ Filter
  - Ⓑ Softener
- Ⓒ Reverse Osmosis (RO)
  - Ⓓ Tank
- Ⓔ Pressure booster
  - Ⓕ By-pass valve



## REVERSE OSMOSIS

INNOVATIVE BWT TECHNOLOGY FOR THE THIRD MILLENNIUM

Compact installation to demineralise non-ferrous and manganese-free, clear drinking and process water. For various purposes. Completely piped and wired internally. With electrical control unit for manual and automatic operation.

Optical information system consisting of displays for operating hours and permeate quality and flow rates, fault indications and alarm signals, communication via standardised PC interface available. Reverse osmosis module as spiral winding module with PA/d composite low-energy membranes.

### PERMAQ® PICO

Ultra-compact operation through integrated dead volume-free connection technology type 10-90, suitable for „under-the-sink“ installation. Available as offline and online version.

#### Scope of delivery:

Fine mesh filter with 5µm, optional AS dosing unit for direct fitting onto the device connection set.

Recommended accessories: When operating without the softener, a dosage system must be upstream. Together with the online connection kit, a pressure reservoir and profile, a complete system exists for online operation, including pressure measurement and emergency supply. For offline operation, a permeate reservoir and pressure increase are necessary. In accordance with DIN 1988, the system must have a system separator and protective filter connected upstream.

**Technical specifications:** ambient temperature, min./max. 5/30 °C (41/86 °F). Inflow pressure for feed-in water, min./max 2.5/6 bar (36.2/87 psi), total salt content, max. 1000 ppm, colloid index, max. 3. Consultation necessary, feed water 0 °dH.

### PERMAQ® PICO 10 - 90 FT

PERMAQ® PICO		10	20	30	40
Connection width	DN	20/25			
Permeate output online	m <sup>3</sup> /h (gpm)	0.14 (0.6)	0.18 (0.7)	0.28 (1.2)	0.45 (1.9)
Permeate output offline	m <sup>3</sup> /h (gpm)	0.18 (0.7)	0.25 (1.1)	0.44 (1.9)	0.58 (2.5)
WCF	%	80			
Salt retention rate	%	98			
<b>Order no. - Online</b>		<b>13043</b>	<b>13044</b>	<b>13045</b>	<b>13046</b>
<b>Order no. - Offline</b>		<b>13050</b>	<b>13051</b>	<b>13052</b>	<b>13053</b>

PERMAQ® PICO		50	60	70	80	90
Connection width	DN	20/25				
Permeate output online	m <sup>3</sup> /h (gpm)	0.9 (3.9)	1.3 (5.7)	1.5 (6.6)	1.75 (7.7)	2.1 (9.2)
Permeate output offline	m <sup>3</sup> /h (gpm)	1.15 (5.1)	1.62 (7.1)	1.95 (8.6)	2.16 (9.5)	2.52 (11.1)
WCF	%	80				
Salt retention rate	%	98				
<b>Order no. - Online</b>		<b>13047</b>	<b>13048</b>	<b>13049</b>	<b>13222</b>	<b>13223</b>
<b>Order no. - Offline</b>		<b>13054</b>	<b>13055</b>	<b>13056</b>	<b>13220</b>	<b>13221</b>

### MULTIBLOCK S4

A MUST for Permaq Pico ONLINE version.

MULTIBLOCK S4	
<b>Order no.</b>	<b>13913</b>

**Please, note:** For the Permaq Pico online version, a pressure tank must be installed on site. The pressure tank must be designed to meet the water requirements of the downstream system.

The Permaq Pico online version cannot be operated without a pressure tank.



PERMAQ® PICO





PERMEATE STORAGE  
CONTAINER

## ACCESSORIES

### FILTER ELEMENT 5µm

TYPE	40 - 80	150 - 1000 / 40 K - 80 K	PERMAQ® PRO
Order no.	13971	13999	53986

### FILTER ELEMENT 5µm

PROFIL, PROFILAS, PERMAQ PICO 10-40	
Order no.	53985

### PERMEATE STORAGE CONTAINER FOR PERMAQ PICO OFFLINE

**For type A 500:** sealed PE container, with screw cover, connections for pump suction line and bleeding. Incl. level adjustment. Unit ready for connection with terminal box and 3 floating switches fitted in permeate store, incl. contact for dry running protection for any feed pump connected downstream.

**For type A 1100-4000:** sealed rectangular container made of PE, with cleaning dome, screw lid with tension seal. Galvanised wrapping to reinforce the container, with connections for bleeding and pump suction line. Incl. level adjustment. Unit ready for connection with terminal box and 3 floating switches fitted in permeate store, incl. contact for dry running protection for any feed pump connected downstream.

TYPE		A 500	A 1100	A 2000	A 3000	A 4000
Usable volume	m <sup>3</sup>	0.4	0.95	1.75	2.75	3.7
Length	mm	880	1,500	2,110	2,330	2,540
Width	mm	770	750	750	1,010	1,010
Total height	mm	1,450	1,600	1,900	1,860	2,150
Order no.		13966	13967	13968	13930	13931

### REMOVAL FITTING FOR PERMEATE TANK

TYPE	FOR A 500	FOR A 1100 - 4000
Order no.	13963	13964

### BWT OSMOCLEAN C

Highly effective cleaning substance for RO membranes, biodegradable, 1000 ml

TYPE	BWT OSMOCLEAN C
Order no.	13940

### AQUARIS DES

For safe disinfection of RO membranes 50 g

TYPE	AQUARIS DES
Order no.	13939

### AQUARIS AF 05

TYPE	2 × 3 KG
Order no.	95319

### COLLOID INDEX MEASURING DEVICE

Measurement device complete with locking mechanism, pressure reducer and membrane filter casing for fitting into the RO inlet line, 100 µm membrane filter, tweezers and measuring cylinder.

TYPE	COLLOID INDEX MEASURING DEVICE
Order no.	13996

## PERMAQ® PICO VARIO

### PERFECTLY PURE WATER INSTALLATION

Designed for a direct connection to one or several point-of-use.

#### ■ Real tankless reverse osmosis

This online model is equipped with an integrated frequency controller and pressure gauge, which gives users the desired flow rates at a fixed set pressure.

#### ■ Highest hygiene

Full-fit membrane modules have no "dead zones" areas where water stagnates and biofouling occurs -> 100% full flow

#### ■ Easy installation

NO pressure tank is required

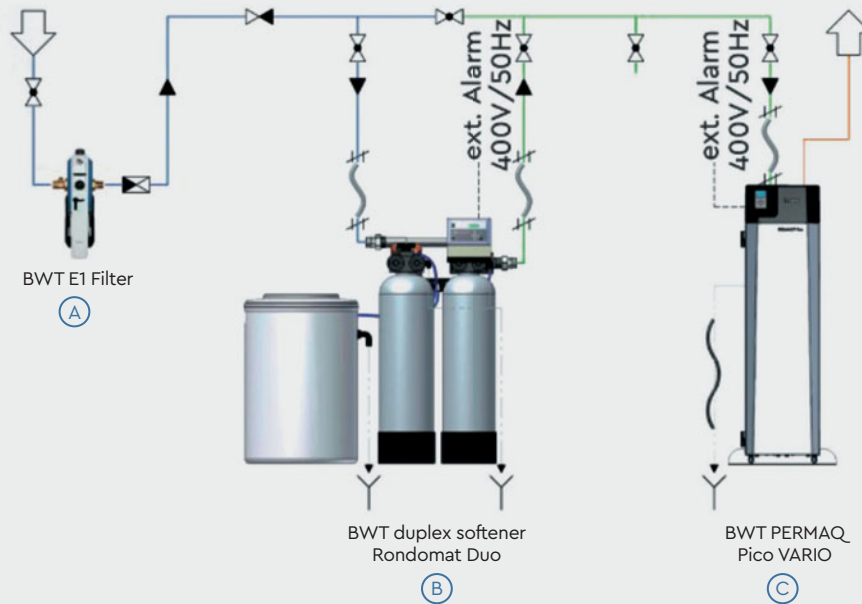
#### ■ Fields of applications

Permaq Pico is useful for climatization, cooling water, lab-water, laundries, dishwashers, steam installations, air humidifiers, laboratories and process water of all kinds.

PERMAQ PICO VARIO		40	50	60
Connection width	DN		20/25	
Permeate output	m <sup>3</sup> /h (gpm)	0.15-0.45 (0.6-1.9)	0.25-0.9 (1.1-3.9)	0.3-1.25 (1.3-5.5)
WCF	%		75-80	
Salt retention rate	%		>98.5	
Order no.		13238	13240	13242
Order no. HR version		13239	13241	13243



PERMAQ® PICO VARIO



# ***BEST WATER TAP***

GREAT TASTE EXPERIENCE - SIP BY SIP





BEST WATER  
TAP





# BEST WATER TAP

100 PERCENT JOY FOR LIFE

**BWT MAKES THE MOST OF YOUR TAP WATER!**



## 01 WODA-PURE

---

The BWT Woda-Pure series turns ordinary tap water into best drinking water. Define your own water quality at your home: water free of particles, odour, chlorine, bacteria, etc. with or Mg<sup>2+</sup> Mineralizer technology. And choose your BWT cartridge systems for your water issues.



## 02 BWT THERO

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The BWT compact water purifier can be installed under the sink or the counter top in commercial and domestic applications. Maximum hygiene is reached – without using any storage tank. With BWT 3-step technology, you can customize the degree of purity.



## 03 BESTAQUA ROC

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The Ultra-compact RO with a capacity up to 120 l/h – for commercial and domestic under-the-sink applications. Modern high performance membranes ensure technically high value due to (salt retention rate >97 %) with interval flush for optimised hygiene and excellent purified water quality. Further details on [page 115](#).



## 04 BWT BEWADES BLUE

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Water free of bacteria and virus – BWT provides the ultimate UV protection for your home installed under your kitchen sink. With the inclusion of a true 254nm Teflon® based UV sensor that continuously monitors the performance of the UV system. Details in chapter BWT PERFECT WATER, [page 102](#).

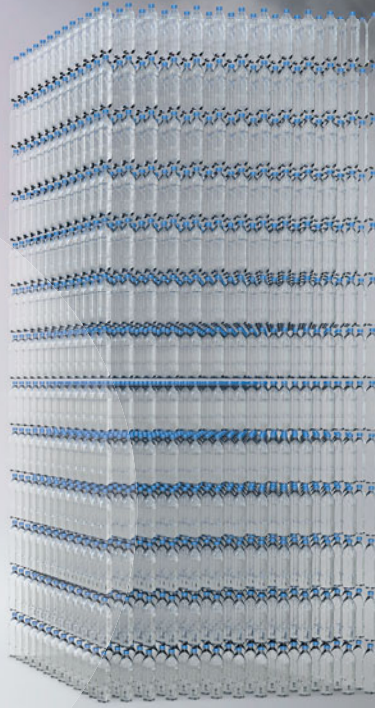




BWT

# CHANGE THE WORLD

*sip by sip*



**REPLACE PLASTIC BOTTLES!**

**USE LOCAL WATER !**



## USE LOCAL TAP WATER

Local tap water is treated onsite and turned into safe drinking water. Best of all: the great-tasting BWT Magnesium Mineralized Water.



## CONSERVATION OF RESOURCES

No need to buy and transport water in plastic bottles any longer – this saves resources and reduces the CO<sub>2</sub> footprint.



## REDUCE PLASTIC WASTE

Less production and use of plastic water bottles reduce the amount of plastic waste drastically - it's a contribution to sustainability



## SAVE MONEY

Avoiding plastic bottles and using local tap water can also save cash – in short, an economic and ecological investment



# WODA-PURE

## MODULAR HYGIENIC SYSTEM

### CLEAN AND PERFECTLY HYGIENIC SOLUTIONS

The BWT Woda-Pure series turns ordinary tap water into high quality drinking water. Get safe drinking water directly from the tap.

- Flexible solution - tailored to your needs and local water quality
- Pure water - free from particles, odour, chlorine, bacteria, etc.
- Innovative  $Mg^{2+}$  Mineralizer technology for a water full of flavour.



**Woda-Pure Clear Mineralizer**  
Perfect for coffee, tea and daily drinking pleasure



**Installation example**



BWT WODA-PURE



**Matching filter head**  
just screw in – connect  
and ready to use!



## 01 BACTERIA-FREE DRINKING WATER

BWT's ultra filtration technology removes pathogens and eliminates substances that affect the taste and smell of the water. That saves the vital properties of water and the result is safe, pleasant tasting, pathogen-free drinking water.



## 02 BEST WATER FROM YOUR TAP

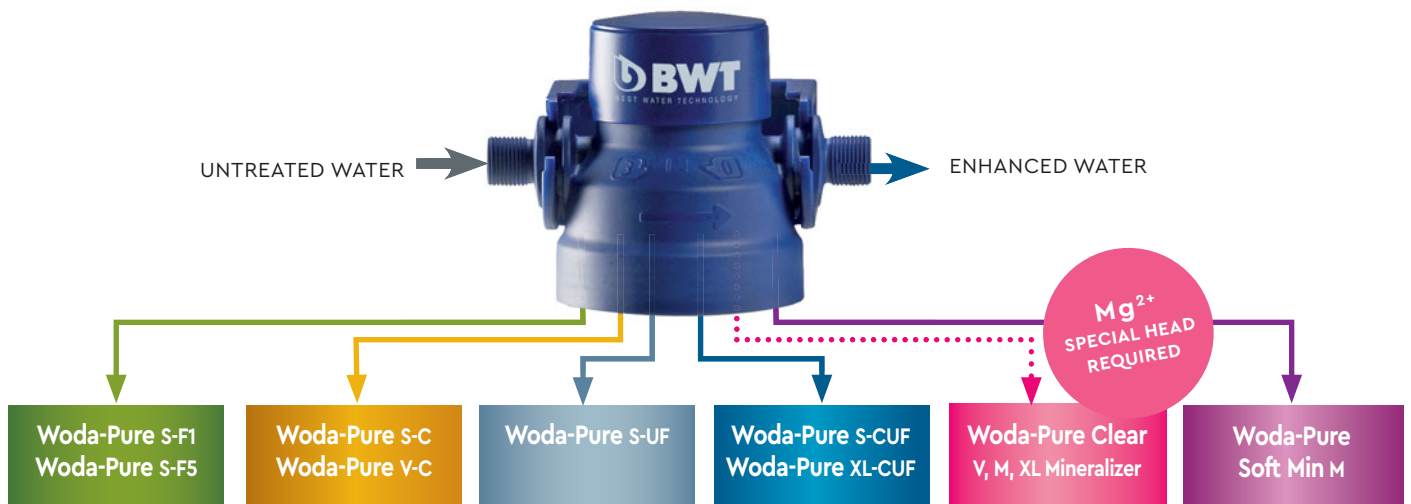
Filtration of particles, removing odour, bad taste e.g. chlorine, heavy metals and pathogens are excellent solutions, but there is more.




## 03 MAGNESIUM MINERALIZED WATER

BWT Clear Mineralizer reduces limescale to protect e.g. your coffee machine and ensures well-balanced mineralization for a better taste by the patented  $Mg^{2+}$  technology.

# FOR EVERY CHALLENGE, A SOLUTION



Anti-Particles	Anti-Chlorine	Anti-Bacterial	All in one	Adds Magnesium	Plus minerals
<ul style="list-style-type: none"> <li>Filtration of particles like dirt, sand, rust and other suspended matter from water bigger than 1 µm/5 µm</li> </ul> <p>S-F1 &gt; 1 µm S-F5 &gt; 5 µm</p>	<ul style="list-style-type: none"> <li>Removal of chlorine, organics, bad taste, smell and odour through highly effective and <b>food safe activated carbon</b></li> </ul> <p>Capacity up to S-C 12,000 l V-C 40,000 l</p>	<ul style="list-style-type: none"> <li>Removal of bacteria and thus ideal protection from microorganisms for best hygiene through <b>ultra filtration membrane</b> with hollow fibre</li> </ul> <p>Capacity up to S-UF 12,000 l</p>	<ul style="list-style-type: none"> <li>Removal of chlorine and other residual substances</li> <li>Removal of bacteria and thus ideal protection from germs for best hygiene through ultra filtration membrane with hollow fibre</li> </ul> <p>Capacity up to S-CUF 12,000 l</p>	<ul style="list-style-type: none"> <li>Better taste for tea, coffee and drinking water with magnesium minerals.</li> <li>Removal of Calcium (hardness) to prevent limescale deposits in hot/cold water machines</li> </ul> <p>Capacity up to<sup>1)</sup> Clear V 2,500 l Clear M 3,800 l Clear XL 6,100 l</p> 	<ul style="list-style-type: none"> <li>Re-mineralization with naturally minerals perfectly nutritionally balanced.</li> <li>Taste enhancement-recommended after Reverse Osmoses.</li> </ul> <p>Capacity up to<sup>1)</sup> SoftMin M 4,500 l</p>

We recommend to replace the filter cartridge at least after 6 months – independent of the remaining capacity. Also after shut down of more than four weeks. To maximize filter capacity we recommend to use a pre-filter of 5 µm or 1 µm.  
1) For Woda-Pure Clear Mineralizer a special filter head/Bypass is required. Capacity depends on water hardness. Mineralizer capacity at 6 °dH.





## TECHNICAL DATA

WODA-PURE FILTER CARTRIGES		S-F1	S-F5	S-C	S-UF	S-CUF	V-C	v	MINERALIZER		SOFT MIN	
									M	XL	M	
Overall height without fixture	mm	360					420	420	420	475	502	475
Overall height with fixture	mm	385					445	445	445	500	527	500
Connection height	mm	310					366	366	366	421	448	421
Fitting length	mm	125										
Connecting thread (inlet/outlet)		3/8"										
Maximum flow rate		200l/h (0.88 gpm)					60l/h (0.26 gpm)			200l/h (0.88 gpm)		
Nominal pressure, min. - max.		2 - 8 bar (29-116 psi)										
approx. pressure loss at 200 l/h		0.8 bar (11.6 psi)					0.5 bar (7.25 psi)			1.3 bar (18.8 psi)		
Operating temperature water, min. - max.		+4 to +30 °C										
<b>Order No.</b>		<b>12565</b>	<b>12538</b>	<b>12561</b>	<b>12566</b>	<b>12539</b>	<b>12562</b>	<b>12567</b>	<b>12568</b>	<b>12569</b>	<b>12563</b>	
<b>Order No. Filter Head Wodapure (single)</b>		<b>12533</b>	<b>12533</b>	<b>12533</b>	<b>12533</b>	<b>12533</b>	<b>12533</b>	-	-	-	<b>12533</b>	
<b>Order No. Filter Head Magnesium with bypass</b>		-	-	-	-	-	-	<b>12580</b>	<b>12580</b>	<b>12580</b>	-	

### PRE-MOUNTED WODA-PURE FILTER HEADS

Head inline for 2 or 3 cartridges - for combinations with **Magnesium Mineralized Water!**



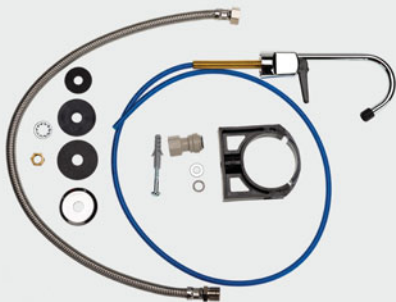
DESCRIPTION		ORDER NO.
Filter head duplex 3/8"	Push in	<b>12586</b>
Filter head triplex 3/8"	Push in	<b>12587</b>







WODA-PURE 120 UFA /  
WODA-PURE ENERGY UFA



CONNECTION SET FOR  
WODA-PURE 120 UFA /  
WODA-PURE ENERGY UFA

## WODA-PURE 120 UFA WODA-PURE ENERGY UFA

**Woda-Pure 120 UFA** is a powerful 'all-in-one' filter for safe and hygienic drinking water right from the kitchen tap. BWT's proven and reliable solution for many years removes undesirable odours, bad taste and smell such as chlorine, natural colourants – e.g., humic substances and separating suspended solids.

The 'dead-end-ultrafiltration-membrane' safely retains bacteria and prevents them from spreading further. Due to the compact filter size with the integrated filter head, it fits to smallest spaces and allows quick installation.

**Woda-Pure Energy UFA** filter model additionally protects against limescale deposits in pipes.

WODA-PURE		120 UFA	ENERGY UFA
Connection width OUTLET	JG	1/4" (6.35 mm)	
Connection width INLET	mm	9.65 (for JG connection)	
Nominal pressure min. – max.	bar (psi)	1-8 (14.5 -116)	
Max flow rate	m <sup>3</sup> /h (gpm)	0.2 (0.88)	
Nominal flow rate	m <sup>3</sup> /h (gpm)	0.12 (0.52)	
Capacity	l	10,000*	
Operating water temperature, min. – max.	°C	+4 to +30°C	
Ambient temperature, max.	°C	40	
Overall height	mm	300	
Filter cartridge Ø	mm	80	
<b>Order no.</b>		<b>12534</b>	<b>12535</b>

\*however no longer than 6 months

## CONNECTION SET FOR WODA-PURE 120 UFA / WODA-PURE ENERGY UFA

CONNECTION SET	
<b>Order no.</b>	<b>10877</b>



# REVERSE OSMOSIS

## SELECTION TABLE



UNIT TYPE	BWT THERO 90 / BWT THERO 90 PRO		BWT BESTAQUA®	
			ROC 14	ROC 16
<b>Description</b>	Powerful and space-saving BWT THERO 90/ PRO – BWT's new generation of water purifiers. To be used wherever conventional water filters reach their limits with special membrane filter technology (RO). Easy to monitor via BWT App with BWT THERO 90 PRO version.		Sustainable and highly efficient reverse osmosis with modern app control via Bluetooth (no WLAN, GMS etc. necessary) Compact device and simple membrane exchange	
<b>PERMEATE</b>				
Permeate output offline (free flow) [l/h / gpm]	120 / 0.5		120 / 0.5	180 / 0.79
Salt retention rate [%]	> 98.0		> 97.0	> 97.0
Permeate recovery WCF [%]	approx. 50		approx. 50	approx. 50
<b>FEED WATER*/ OPERATING CONDITIONS</b>				
Pressure [bar / psi]	1-4 / 14.5-58		1.5-4 / 21.7-58	1.5-4 / 21.7-58
Temperature [°C]	5-30		5-30	5-30
Pre-treatment necessary (hardness reduction to 0,1°dH)	max. 20°dH		optional	optional
Pre-filtration [µm]	recommended		recommended	recommended
Anti-scaling unit (optional)	-		-	-
Iron + manganese [mg/l]	< 0.05		< 0.05	< 0.05
Salt content TDS (total dissolved solids) [mg/l]	< 1000		< 500	< 500
Salt density index SDI [%/min.]	< 3		< 3	< 3
Oxydants [mg/l]	< 0.05		< 0.05	< 0.05
<b>GENERAL</b>				
Electric power supply / fuse protection [V/Hz/A]	110-230/50/10		230/50/10	230/50/10
Electric power consumption [W]	90		200	260
Dimensions (WxDxH) [mm]	121 × 264 × 451		144 × 254 × 507	158 × 330 × 532
Weight [kg]	8.8		10.3	16
<b>HYDRAULIC CONNECTION</b>				
Raw water [Inch]	M ¾"		M ¾"	M ¾"
Permeate [mm/Inch]	¼" JG		8 mm JG	8 mm JG
Concentrate [mm/Inch]	¼" JG		8 mm JG	8 mm JG
<b>ADDITIONAL BWT FEATURES</b>				
App control via Bluetooth	✓ (PRO version only)		✓	✓
Hygienic Full-Fit RO technology*	-		-	-
Serial disinfection and cleaning programme	-		-	-
Programmable interval rinsing against standstill contamination	-		-	-
Communication module (Profinet, Ethernet, Modbus)- Option	-		-	-

\*Feed water quality: 15 °C ; TDS ≤500 mg/l

ALSO  
AVAILABLE AS  
PRO VERSION



### BWT THERO 90

- A new generation of RO's – developed by BWT
- Excellent water purifying system with an output of up to 90 l/h for domestic applications
- Easy replacement of cartridge
- Minimum foot print – very compact
- High-grade aluminum housing

## UNDER-THE-SINK REVERSE OSMOSIS

### BWT THERO 90 AND 90 PRO

Ultra compact reverse osmosis system for commercial and domestic applications.

Maximum hygiene – by delivery on demand **no storage tank is required**.

High permeate – yield of 50 % (WCF) and 'Plug and play' concept ready to use – no adjustments and special tools required. Three-step adjustable blending to customize the degree of purity. The BWT THERO 90 Pro is equipped with additional features: **Bluetooth APP**, inlet flow-meter, conductivity and temperature probe, pressure transmitter.

Type		BWT THERO 90	BWT THERO 90 PRO
Flow rate	m <sup>3</sup> /h (gpm)		0.09 (0.39)
Salt retention rate	%		> 98
Permeate output/yield (WCF)	%		approx. 50
Feed water pressure	bar (psi)		1-4 (14.5-58)
Feed water / ambient temperature (min.-max.)	°C		5-30 / 5-40
Electrical connection / internal fuse / fuse protection	V/Hz/A	230/50/10	1.25 A (T/slow burn)
Electric power consumption / standby	W		90 / <3
Standard connector			Socket IEC-320
Feed water, permeate, concentrate connection	inch		3/4" M; 1/4" JG; 1/4" JG
Dimensions (W x D x H)	mm		121 x 264 x 451
Weight	kg	10.3	16
<b>Order no.</b>		<b>21100</b>	<b>21105</b>

## BWT BESTAQUA ROC

Ultra compact reverse osmosis system for commercial and domestic applications (under sink). Maximum hygiene – by delivery on demand no storage tank is required. High permeate – yield of 50 % (WCF) and 'Plug and play' concept ready to use – no adjustments and special tools required. Three-step adjustable blending to customize the degree of purity.

TYPE		BESTAQUA 14 ROC	BESTAQUA 16 ROC
Flow rate	m <sup>3</sup> /h (gpm)	0.12 (0.52)	0.18 (0.79)
Salt retention rate	%	> 97	
Permeate output/yield (WCF)	%	approx. 50	
Feed water pressure	bar (psi)	1.5–4 (21.7–58)	
Feed water / ambient temperature (min.-max.)	°C	5–30 / 5–40	
Electrical connection / internal fuse / fuse protection	V/Hz/A	230/50/10 1.25 A (T/slow burn)	240/50/60 1.25 A (T/slow burn)
Electric power consumption / standby	W	200 / <3	260 / <2
Permeate, concentrate connection	inch	¾" M; JG 8 mm	
Dimensions (W x D x H)	mm	144 x 254 x 507	158 x 330 x 532
Weight	kg	10.3	16
<b>Order no.</b>		<b>21039</b>	<b>125255111</b>



### BWT BESTAQUA ROC

- Ultra-compact RO purifier with high capacity up to 180 l/h
- Pressure pump included
- Temperature & leakage sensor
- 10 seconds of hygiene rinse
- Conductivity & flow measurement
- App control via bluetooth

# **BWT SPECIAL APPLICATION**

DOSING TECHNOLOGY,  
HEATING PROTECTION & DESCALING



# IONS





# PERFECTLY ADJUSTED DOSING SOLUTIONS

## BEST PROTECTION FOR WATER PIPINGS

Our drinking water contains lime and other dissolved salts that can precipitate or have a corrosive effect depending on their concentration and composition. BWT minerals consist of highly effective mineral combinations that counteract these negative effects. All BWT mineral combinations for drinking water after-treatment are based on the vital elements phosphorus and silicon and meet the purity requirements of the Drinking Water Ordinance.

### OPTIMAL LIMESCALE PROTECTION

Due to the threshold effect of the BWT mineral substances limescale effectively gets stabilised in the water and prevented from precipitating.



### EFFICIENT CORROSION PROTECTION

Within metal pipelines, an effective protective layer is formed and the corrosion rate minimized.







COMING  
SOON

# BWT SMART DOS



**THE COMPACT, ELECTRONICALLY CONTROLLED DOSING SYSTEM DELIVERS MINERALS WITH PRECISION ACCORDING TO EVERY NEED.**

## INNOVATIVE INTERIOR

In perfect hygienic condition, the closed system contains the BWT Smart Mineral active ingredient. Replacing the bag is simple.

## LUMINOUS COMMUNICATION

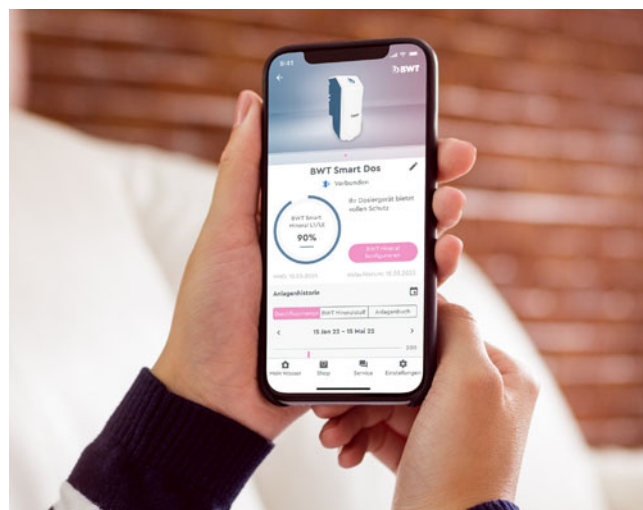
The central BWT water drop shows you the status of the system in different colors

## FULLY CONNECTED

With the BWT Best Water Home App you have everything under control! BWT Smart Dos is fully connectable via Bluetooth, WIFI, LAN (CT version also with GSM). The current status of the product and consumables can be viewed via the app after registration or via the API interface (CT version only).

## KEY BENEFITS OF BWT MINERALS:

- Maintain the value of the domestic installation
- Save money on drinking water heating costs
- Ensure the full flow of water
- Protect health through reduced heavy metal emission from the domestic installation
- Reduced potential for microorganism growth (bacteria, viruses, fungi) thanks to smooth pipe surfaces





BWT SMART DOS DT

**SCOPE OF SUPPLY:**

- Pipe and wall mounting kit
- Water flow sensor
- Connection threads
- Dosing valve (seeding point)



BWT SMART MINERAL 1.5 L

**BWT SMART DOS DOMESTIC TECHNOLOGY (DT)**

BWT SMART DOS DT		
Connection width	DN	20
Pouch volume	l (gallons)	1.5 (0.4)
Dosing quantity	ml/m <sup>3</sup> (ppm)	HIGH 50 (0.13) Medium 25 (0.07)
Pouch capacity	m <sup>3</sup> (gallons)	HIGH 30 (7,925,16) Medium 60 (15,850,32)
Dimensions HxWxD	mm	430×180×227
<b>Order no.</b>	<b>17104</b>	

With the SMART DOS dosing device, the mineral ingredients can be dosed for different areas of application.

MODE	DOSING QUANTITY	DESCRIPTION	APPLICATION
High	50ml/m <sup>3</sup> (0.13 ppm)	Renovation dosage	Rust water, start of a renovation phase, for protective coating build-up
Medium	25ml/m <sup>3</sup> (0.07 ppm)	Preservation dosage	Preservation of the protective coating

**BWT SMART MINERALS – FOR BWT SMART DOS DT**

For BWT Smart Dos – Supplied 2 × 1.5L pouch with a capacity of 30 m<sup>3</sup> (7.925,16 gallons) for renovation dosage or 60 m<sup>3</sup> (15.850,32 gallons) for preservation dosage (capacity per 1.5L pouch).

BWT SMART MINERAL 2 × 1.5 L	L1/LE RENOVATION	L2/L3 PRESERVATION	L4
<b>Order no.</b>	<b>125504380</b>	<b>125504381</b>	<b>125504382</b>

**BWT MINERALS FOR SMART DOS DT & CT**

APPLICATION FIELD	FUNCTION	EFFECT	MINERAL
Total hardness from 1 – 12°dH (0.2 – 2.1 mol/m <sup>3</sup> ), water with aggressive characteristics as well as partially softened water.	Formation of a protective layer and limescale protection in galvanised and already partially corroded galvanised pipes.	Renovation	L1/LE
Total hardness from 4 – 21°dH (0.7 – 3.8 mol/m <sup>3</sup> ), water with aggressive characteristics as well as partially softened water.	Limescale protection and formation of a protective layer in galvanised and already partially corroded galvanised pipes.	Preservation	L2/L3
Total hardness from 21 °dH (3.8 mol/m <sup>3</sup> ), very hard water.	Protection against limescale in pipes of all materials and cleaning of pipes with limescale.	Stabilisation	L4

## BWT SMART DOS COMMERCIAL TECHNOLOGY (CT)

BWT SMART DOS CT		
Connection width	DN	40
Pouch volume	l (gallons)	10 (2.64)
Dosing quantity	ml/m <sup>3</sup> (ppm)	HIGH 50 (0.13) Medium 25 (0.07)
Pouch capacity	m <sup>3</sup> (gallons)	HIGH 200 (52,834,41) Medium 400 (105,668,82)
Dimensions HxWxD	mm	430×180×227
<b>Order no.</b>	<b>17105</b>	



BWT SMART DOS CT

### SCOPE OF SUPPLY::

- Pipe and wall mounting kit
- Water flow sensor
- Connection threads
- Dosing valve (seeding point)
- Rack for BWT Mineral
- Box with integrated empty signal



BWT SMART MINERAL 10 L

## BWT SMART MINERALS – FOR BWT SMART DOS CT

For BWT Smart Dos – Supplied 1 × 10L pouch in a box with a capacity of 200 m<sup>3</sup> (52.834,41 gallons) for renovation dosage or 400 m<sup>3</sup> (105.668,82 gallons) for preservation dosage.

BWT SMART MINERAL 10 L	L1/LE RENOVATION	L2/L3 PRESERVATION	L4
<b>Order no.</b>	<b>125504383</b>	<b>125504384</b>	<b>125504385</b>





MEDOTRONIC P

## MEDOTRONIC® P DOMESTIC TECHNOLOGY

Electronically controlled dosing station for dosing mineral combinations QUANTOPHOS P. Complete with contact water meter, cold water seeding point and filling device, electronically controlled dosing pump, dosing tank, dosing and suction tube. Turbo mixing system (hand or electric agitators are not necessary anymore). Flanges PN 10 acc. to DIN 2501, part 1, from DN 50, (counter flanges must be provided on site).

TYPE MEDOTRONIC® P		20	30	110	180
Connection width	DN	40	50	80	100
Dosing pump	Type	Medo GC		DE20	
Dosing quantity max.	l/h (gpm)	6 (0.03)		20 (0.09)	
Operating pressure min./max.	bar (psi)	2-10 (29-145)			
Flow rate (working capacity)	m <sup>3</sup> /h (gpm)	0.1-20 (0.44-88)	0.1-30 (0.44-132)	0.6-75 (2.6-330)	0.8-90 (3.5-396)
Dosing container volume	l	60	100	100	200
<b>Order no.</b>		<b>17012</b>	<b>17013</b>	<b>17014</b>	<b>17015</b>

## MEDOMAT® FP DOMESTIC TECHNOLOGY

Electronically controlled dosing unit for dosing of BWT additives into open and closed systems, e.g. drinking water, swimming pool water, cooling water and air-conditioning water. Parallel control via circulation pump, solenoid valve, flow meter, timer or manual control. Electronic dosing pump with optical empty indication and run-dry protection. Turbo mixing system (manual or electric stirrers are no longer necessary). Lockable dosing containers, suction pipe, 5 m dosing pipe, suction lance, seeding point (see accessories, not included).

TYPE MEDOMAT® FP		60	100	200
Connection width	DN	40	50	80
Dosing pump	Type		Medo GC	
Operating pressure min./max.	bar (psi)		2-10 (29-145)	
Dosing quantity max.	l/h (gpm)		6 (0.03)	
Dosing container volume	l	60	100	200
<b>Order no.</b>		<b>17069</b>	<b>17070</b>	<b>17071</b>



MEDOMAT® FP



SEEDING POINT MEDO®

## DOSING TECHNOLOGY COMPONENTS

### COLD WATER SEEDING POINT MEDO®

For dosing pumps type Medo® plastic, up to 30 °C (86 °F)

TYPE	¼"	½"	¾"
	4 × 6	4 × 6	4 × 6
			cleanable
Order no.	17998	17923	57991

### ALARM CABLE

For dosing pumps MEDO GC/GA 2m 4pole

ALARM CABLE	
Order no.	17803

### SIGNAL CABLE

For dosing pumps MEDO GC/GA 2m 4pole

SIGNAL CABLE	
Order no.	17804

Single Dosing pumps Medo GC / GA and equipment for a retrofit of existing BWT dosing stations are available on request

# DOSING ADDITIVES

DEPENDING ON THE AREA OF APPLICATION, YOU CAN FIND THE CORRESPONDING DOSING ACTIVE AGENT

DOSING AGENTS FOR COOLING AND AIR CONDITIONING UNIT WATER SYSTEM

PRODUCT-NAME	TREATMENT PERFORMANCE	APPLICATION	CONTAINER SIZE	ORDER NO.
<b>BWT CW-S 300</b>	Ozone resistant hardness stabilizer, corrosion inhibitor	for open cooling systems	20 kg-canister	<b>18146</b>
<b>RONDOPHOS KWN-2</b>	Corrosion inhibitor and hardness stabilizer, contains zinc and phosphate	for open cooling systems	20 litre-canister	<b>18147</b>
<b>BENAMIN D *</b>	Chlorine based biocide	cooling circuit	20 litre-canister	<b>58055</b>
<b>BENAMIN Fresh</b>	Hydrogen peroxide-based biocide		22 kg-canister	<b>87379</b>

DOSING AGENTS FOR HOT WATER, BOILER WATER AND AIR CONDITIONING UNIT WATER SYSTEMS

PRODUCT-NAME	TREATMENT PERFORMANCE	APPLICATION	CONTAINER SIZE	ORDER NO.
<b>RONDOPHOS PIK 5</b>	Oxygen binding powder, non vapour volatile, catalyzed	for hot water and heating systems	10 kg-bucket	<b>18037</b>
<b>RONDOPHOS PIK 5</b>	Oxygen binding powder, non vapour volatile, catalyzed	for hot water and heating systems	20 litre-canister	<b>18058</b>
<b>RONDOPHOS PIK 9</b>	Oxygen binding powder, pH-increasing, reduces residual hardness, non vapour volatile	for hot water and heating systems	10 kg-bucket	<b>18038</b>
<b>RONDOPHOS PIK 11</b>	Oxygen binding powder, non vapour volatile, pH-decreasing, reduces residual hardness	for hot water and heating systems	10 kg-bucket	<b>18040</b>
<b>RONDOPHOS PIK 40</b>	Powder product to increase pH and reduce residual hardness, non vapour volatile	for hot water and heating systems	10 kg-bucket	<b>18043</b>
<b>RONDOPHOS PIK 50</b>	Powder product to reduce pH, non vapour volatile	for hot water and heating systems	10 kg-bucket	<b>18045</b>
<b>BWT BW-PL 40</b>	Liquid product to increase pH and reduce residual hardness	for heating systems	20 litre-canister	<b>18114</b>
<b>BWT BW-PL 40</b>	Liquid product to increase pH and reduce residual hardness	for heating systems	6 × 1 litre	<b>18130E</b>
<b>BWT SH-7004</b>	Liquid product for the binding of residual oxygen and CO <sub>2</sub> in steam/condensation systems, also raises pH in in steam/condensation	for steam generators with condensate return	20 litre-canister	<b>18108</b>

\* NOTE: Use biocides carefully. Always read the label and product information before use.



MINERAL F



MINERAL SUBSTANCE  
20 L IN BOX



MINERAL SUBSTANCE  
COMBINATION QUANTOPHOS  
WITH GERM PROTECTION



MINERAL SUBSTANCE  
COMBINATION QUANTOPHOS  
SOLD IN BAGS

## MINERALS F

For Bewados E 3 Module, Impulsor optronic T 3 module and Medotronic F.

QUANTOPHOS®	F1	F2/FE	F3	F4
Packed unit in box	4+3l	4+3l	4+3l	4+3l
Order no.	18022E	18026E	18024E	18025E

## BEWATUBIN

Available in 20 l box.

BEWATUBIN	UNIVERSAL
Order no.	58081

## MINERALS: F + CU2/CS

For Bewados E 10/20 Module, Impulsor optronic T 20 module.

QUANTOPHOS®/ IMPULSAN	F1	F2/FE	F3	F4	CU2/CS
Packaging unit	20-l	20-l	20-l	20-l	20-l
Order no.	18027	18031	18029	18030	18032
Packaging unit	10-l	10-l	10-l	10-l	
Order no.	18091	18095	18093	18094	

## MINERAL SUBSTANCE COMBINATION QUANTOPHOS® P

For Medotronic® P and Medomat® FP, portion bags for 20 l solution hygienically packed, with germ protection.

Only available in packaging units: 12 x 1000g bag in cardboard box.

QUANTOPHOS®	P 1	P 2/ PE	P 3	P 4	CUP
Order no.	18059E	18063E	18061E	18062E	18021E

## GERM PROTECTION COMPONENT

For germ protection of solution from QUANTOPHOS P bags. Powder in plastic bottle (including measuring spoon for 15 l solution).

CC 1000 P	
Order no.	18065

## MINERAL SUBSTANCE COMBINATION QUANTOPHOS® P

For large consumers 25 kg bags with plastic liner.

QUANTOPHOS®	P 1	P 2/ PE	P 3	P 4
Order no.	18011	18015	18013	18014



# DOSING ADDITIVES

## MINERAL SUBSTANCE COMBINATIONS / ADDITIVES F / P / CU2 / CUP

AREA OF APPLICATION	FUNCTION	'MINERAL SUBSTANCE' IN THE ENVIRONMENTALLY FRIENDLY BAG-IN-BOX
Total hardness from 1 – 7°dH (0.3 – 1.3 mol/m <sup>3</sup> ), water with aggressive characteristics as well as partially softened water.	Formation of a protective layer in galvanised and already partially corroded galvanised pipes.	Mineral substance Quantophos® F 1 / P1
Total hardness from 7 – 14°dH (1.3 – 2.5 mol/m <sup>3</sup> ), medium hard water, water with aggressive characteristics as well as partially softened water.	Formation of a protective layer and limescale protection in galvanised and already partially corroded galvanised pipes.	Mineral substance Quantophos® F 2 / F E, P 2 / P E
Total hardness of 14 – 21°dH (2.5 – 3.8 mol/m <sup>3</sup> ), hard water.	Formation of a protective layer and limescale protection in galvanised and already partially corroded galvanised pipes.	Mineral substance Quantophos® F 3 / P3
Total hardness from 21 °dH (3.8 mol/m <sup>3</sup> ), very hard water.	Protection against limescale in pipes of all materials and cleaning of pipes with limescale.	Mineral substance Quantophos® F 4 / P4
Copper installations	Formation of a protective layer in copper pipes by raising the pH-value.	for water up to 25 mg/l free carbonic acid. Mineral substance Quantophos® Cu2 / CS / CuP

All BWT mineral substances for drinking water treatment conform to the purity requirement of the list of treatment substances and disinfection processes in acc. with § 11 German DWO 2001.

WRMG = Wasch- und Reinigungsmittelgesetz (Washing and cleaning agents law)

TESTING DEVICE	MEASURING RANGE	INTENDED USE	PACKAGING UNIT	ORDER NO.
<b>DRINKING WATER</b>				
Aquatest hardness testing device	1 – 40 °dH	Determination of total hardness	10 pieces in a box	18997E
Indicator sticks	pH 0 – 14	Various test and application areas of pH-value checking	10 × 100 pieces in a box	18988E
pH-value testing device	pH 1 – 11	Setting the alkaline treatment	Single piece	18987
<b>COOLING WATER</b>				
Aquatest hardness testing device	1 – 40 °dH	Determination of total hardness	10 pieces in a box	18997E
Indicator sticks	pH 0 – 14	Various test and application areas of pH-value checking	10 pieces in a box	18988E
pH-value testing device	pH 1 – 11	Setting the alkaline treatment	10 pieces in a box	18987



# **BWT HEATING WATER CONCEPT**

## **NATURAL, PERFECT WATER – FOR HEATING AND COOLING SYSTEMS**

To keep your heating system working reliably, the water in it needs to be just right. Over recent years, heating systems have become increasingly compact, and today's smaller heat transfer surfaces provide very high outputs. But they are also more susceptible to faults. If conventional tap water is used to fill your heating system, deposits build up, sludge forms in the system and blockages and malfunctions are the result. Rust can also damage your valuable system. When a system is filled with regular tap water, another problem can occur.

This is related to the air that is introduced into your pipework along with the water. It causes irritating flow noise and also significantly impairs heating performance.

The AQA therm products are perfectly coordinated to ensure that the water used to fill and top up your heating system is treated to perfection – without chemical additives thanks to BWT's very own "purity law". That saves you money on heating and keeps your system working efficiently for decades.

## **GERMAN STANDARDS FOR YOUR HEATING SYSTEM**

According to parts 1 and 2 of the German standard VDI 2035, BWT heating technology meets the requirements of DIN 1988-100 and EN 1717 regarding protection of drinking water:

- Heating from the boiler around the home
- Protection against deposits
- Protection against corrosion
- No risk to contaminate the drinking water supply, when also used as a source of hot water

# OPTIMALLY MATCHED FILLING AND MAKE-UP UNITS

FOR EVERY PLANT SIZE



## 01 CLEANING & RINSING

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### SEK 28

Rapid Descaling Unit for removal of scale in warm and hot water units, boilers, flow heaters



## 02 FOR FILLING AND MAKE-UP WATER

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### AQA therm MOVE Power Mobile Reverse Osmosis

For carefree operation and compliance with operator obligations



## 03 SLUDGE & AIR SEPARATOR

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### AQA therm SLA

To prevent deposits and disturbing noises caused by air bubbles



## 04 PROTECTION FROM DEPOSITS AND CORROSION

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### AQA therm Heating Water Group

For filling and make-up water systems

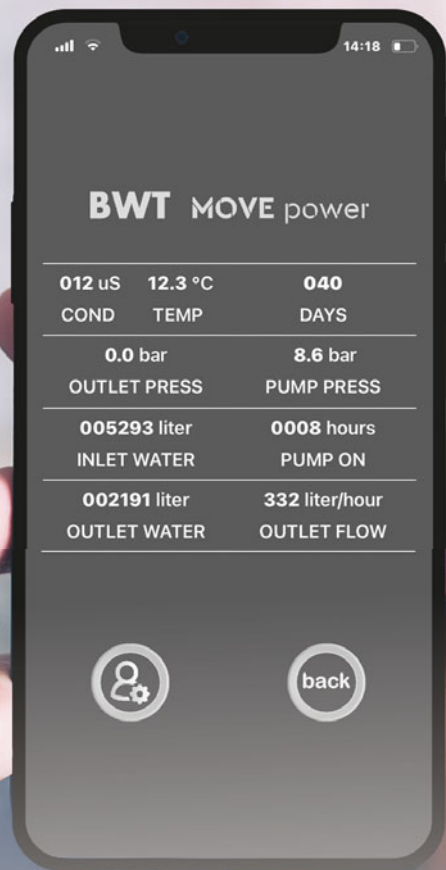


## 05 WATER ANALYSIS

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**AQA Therm analysis case** to check the heating water quality according to German standards. Just ask our experts for more details!





# AQA THERM MOVE POWER

FOR PERFECTLY PURIFIED WATER WITHOUT CHEMICALS



## THE MOBILE POWER PACK FOR PERFECTLY PURIFIED WATER

Like no other system the MOVE Power provides purified water, in the most economical and resource-friendly way. Process applications – like modern heating systems – can now work highly efficiently without chemical additives.

Perfectly applicable for various fields of applications – exceeding all requirements. Wherever perfectly purified water needs to be provided. It mobilizes its superpowers.

# THE SUPERPOWER OF **MOVE Power**

Whether it's used as a mobile- or stationary solution, it will meet even the highest expectations.

CHECK OUT THE **VIDEOS**



COMMISSIONING



MOVE HIGHLIGHTS



## 01 UNIQUE HIGHLIGHTS – EVOLUTION ON THE NEXT LEVEL

- Save up to 1,000 litre of mixed-bed-resin (for 80 m<sup>3</sup> (21,133 gallons) filling water by 20°dH)
- No need to change mixed-bed-resin 40 or 60 times
- Up to 320–360 l/h (1,4–1,59 gpm)
- Capacity of 80,000 litres\* (21,133 gallons) with only one set of membranes
- Quick membrane change in less than 60 seconds – no tools required
- 24/7 continuous operation at high ambient temperature
- Compact design, low weight
- Including stair wheels to move everywhere easily

\* depending on inlet pressure and water temperature

## 02 DOCUMENTATION AS EASY AS A SNAPSHOT

All filling and water parameters are shown in the app and on a single display page:

- Total, daily and membrane litre counter
- Flowrate l/h
- Efficiency indication
- Start and stop pressure
- Real time permeate pressure
- Conductivity/temperature
- Pump pressure
- Service indication
- Manual re-feed
- Variable adjustment of start-stop pressure

Simply capture the systems parameters as a screenshot at any time you want.  
No password, no account, no transfer errors!



NEW



## AQA THERM MOVE POWER

- Fully automatically filling process
- 4- colour status LED
- Intuitive user interface
- Only electricity and drain connection is required
- Compact design, low weight

## AQA THERM MOVE POWER

ENVIRONMENTALLY FRIENDLY AND ECONOMICAL  
HEATING FILLING SYSTEM

AQA therm MOVE Power is a mobile reverse osmosis unit for producing low-salt water. The quality of the water produced complies with the standards VDI 2035 and ÖNORM H5195-1. The product is suitable for filling and replenishing heating and cooling systems.

The product is equipped with an integrated display and four operator keys. This display gives the user a quick overview of all the product parameters.

### Interaction and connectivity

The functionality of the product is enhanced with the BWT RO systems app. The BWT RO systems app provides an overview of the current operating parameters as well as the settings for the operating parameters and service intervals.

You download the BWT RO systems app to your mobile device using the QR code and connect it to the product via Bluetooth. The range of the Bluetooth connection is 2 m.

### AQA THERM MOVE POWER

Connection width	DN	20
Capacity per cartridge	l (gallons)	40,000 (10,566)
WCF	%	<50
Flow rate	m <sup>3</sup> /h (gpm)	0,32-0,36 (1,4-1,59)
Dimensions HxWxD	mm	795×355×290
<b>Order no.</b>		<b>19004</b>

### AQA THERM MOVE POWER – CARTRIDGE (REPLACEMENT, PER PIECE)

<b>Order no.</b>	<b>21250</b>
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## BWT HEATING TECHNOLOGY

### BWT GREEN COMMITMENT TO SUSTAINABLE HEATING

The most important base for a working heating system is the heating water. As a heat exchanger it is the medium which flows through almost every component. Besides its primary function transporting heating energy from the boiler into the living areas it has to have further important properties (according to the German standards and DIN 1899-100, EN 14868, and EN 1717):

- Protection against deposits and corrosion to ensure full functionality of the system in the long term (1mm limescale deposit increases energy consumption by 10%).
- And it's not allowed to contaminate the drinking water supply, when it's used as warm water source.

### AQA THERM HEATING WATER GROUP (HWG)

The complete range for secure and standardised filling of and adding of make-up water to heating systems.

Consisting of AQA therm HFB, AQA therm HES and cartridge suitable for respective operation.

### AQA THERM HFB

#### HEATING-FILLING-BLOCK

Only with this protection can the heating installation be permanently connected – and therefore clean, tidy and also hygienic – to the domestic water installation

AQA THERM HFB		
Connection width	DN	15
Max. inlet pressure	bar (psi)	10 (145)
Outlet pressure	bar (psi)	1,5-4 (21,7-58)
Flow rate	m <sup>3</sup> /h (gpm)	0,75 (3,3)
Dimensions HxW	mm	520x450
<b>Order no.</b>		<b>51955</b>

### AQA THERM HES

#### HEATING-ELECTRONIC-STATION

AQA THERM HES		
Connection width	DN	15
Max. inlet pressure	bar (psi)	4 (58)
Dimensions HxW	mm	520x450
<b>Order no.</b>		<b>51094</b>



#### AQA THERM HFB

- Maintenance and filling shut-off
- Backflow preventer BA
- Pressure reducer adjustable up to 1,5-4 bar (21,7-58 psi)
- Pressure gauge



#### AQA THERM HES

- Standard-compliant filling and refilling of heating systems
- Smart setup and operation
- Alarm function for cartridge change
- Display with all important information



AQA THERM HRC & SRC



AQA THERM PLUS

## AQA THERM HRC

### HARDNESS-REDUCING-CARTRIDGE

for HES: Small: refill, Large: fill and refill

AQA THERM HRC	SMALL	LARGE
Capacity	3m <sup>3</sup> (792 gallons) x °dH	14m <sup>3</sup> (3,698 gallons) x °dH
Max. flow rate	3l/min (0,79 gallons)	5l/min (1,3 gallons)
<b>Order no.</b>	<b>12523</b>	<b>12524</b>

## AQA THERM SRC

### SALT-REDUCING-CARTRIDGE

Salt reducing cartridge for HES (mixed bed resin) – fill and refill

AQA THERM SRC	LARGE	X-LARGE
Capacity	240l (63 gallons) at 20 °dH	488l (128 gallons) at 20 °dH
Max. flow rate	5l/min (1,3 gallons)	10l/min (2,6 gallons)
<b>Order no.</b>	<b>12526</b>	<b>12510</b>

## AQA THERM PLUS

The one litre cartridge AQA therm Plus increases the pH-value in boiler water

AQA THERM PLUS 1L*	
<b>Order no.</b>	<b>18174E</b>

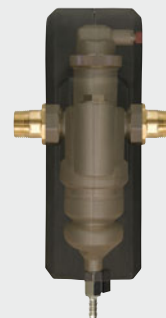
\* packing unit: 6 Pcs.

## AQA THERM SLA SLUDGE AND AIR SEPARATOR

The safe BWT sludge and air separator for every heating system – fullfills highest EU standards. Recommended for pipes < DN 50

- Vertical and horizontal installation
- Lamella design ensures best separation rates without the risk of clogged filter element
- Magnet insert to remove ferromagnetic iron sludge
- float in hexagonal shape for increased air flow

AQA THERM SLA		
Connection width	DN	25
Operating pressure max.	bar (psi)	10 (145)
Flow rate	m <sup>3</sup> /h (gpm)	2,12 (9,3)
Dimensions HxW	mm	333x184
<b>Order no.</b>		<b>50217</b>



### AQA THERM SLA

- Even the smallest sludge particles are removed from the heating circuit
- The sludge separator can be emptied during system operation
- No shut-off valves necessary



SEK 28



KALKEX-MOBIL

## RAPID DESCALING UNITS

- for removal of scale in warm water units, boilers, flow heaters and hot water units
- intensive descaling by means of circulation of the solvent
- acid-proof version
- solvent container made of corrosion proof plastic

### RAPID DESCALING UNIT SEK 28

Integrated holders for hoses and cables. Hoses with 3/4" connection, 2 double nipple, reduction connection equipment (male thread 3/4", female thread 1/2" and 3/8"). On/Off-switch. With SEK test box.

#### TYPE SEK 28

Container content	20 l (5.3 gallons)
Pump head (max.)	8 mWS
Circulation rate (max.)	1500 l/h (6.6 gpm)
Temperature resistance	up to 60 °C
Electrical connection	230 V/50 Hz

**Order no. 60008**

### PORTABLE RAPID DESCALING UNIT KALKEX-MOBIL

Complete with armoured hoses, with 3/4" connection and SEK test box incl. connection-set for KalkEx-Mobil. 2 double nipples/reduction connection equipment (male thread 3/4", female thread 1/2" and 3/8"). Discharge for solvent container.

#### TYPE KALK EX-MOBIL

Container content	40 l (10.6 gallons)
Pump head (max.)	15 m WS
Circulation rate (max.)	2100 l/h (9.3 gpm)
Temperature resistance	up to 60 °C
Electrical connection	230 V/50 Hz

**Order no. 60007**



## LIMESCALE SOLVENT IN POWDERED FORM

### LIMESCALE SOLVENT P AND NEUTRA P ARE NOW AVAILABLE IN POWDER FORM

Through small portioned packages, heavy containers and difficult filling have become a thing of the past

#### LIMESCALE SOLVENT P

for the reliable removal of limescale in instantaneous water heaters, heat exchangers, boilers, pipes, coffee machines, etc. 5 bags of 1 kg (powder)

##### TYPE LIMESCALE SOLVENT P

Order no. 60978E

#### NEUTRA P

for the neutralisation of used solvent, 5 bags of 300 g (powder)

##### TYPE NEUTRA P

Order no. 60979E

## RAPID DESCALING SOLVENTS AND NEUTRALISING AGENTS

- concentrated chemicals for scale and rust removal
- rapid dissolving of scale and rust encrustations
- recommended by leading manufacturers
- complete programme

Pallet order size (800 × 1200 mm)

28

Packaging unit

20 kg container

#### FFW / ZN – FOR DRINKING WATER

Material resistant according to VDI 2035  
Descaling capacity: 2.5 kg FFW/ZN dissolve 1 kg of scale

##### TYPE FFW/ZN

Order no. 60977

#### LIMESCALE SOLVENT

Capacity exhaustion indicated optically by changing colour. Descaling capacity: 1 kg limescale solvent dissolves 1 kg of scale

##### TYPE LIMESCALE SOLVENT

Order no. 60999

#### LIMESCALE SOLVENT ECOSAFE

Descaling capacity: 1 kg limescale solvent dissolves 1 kg of scale

##### TYPE LIMESCALE SOLVENT

Order no. 60971

#### LIMESCALE SOLVENT VA

For cleaning of stainless steel installations  
Descaling capacity: 1.1 kg limescale solvent VA dissolves 1 kg of scale

##### TYPE LIMESCALE SOLVENT

Order no. 60980

#### NAW

For post-treatment and passivation of metal surfaces after chemical cleaning

##### TYPE LIMESCALE SOLVENT

Order no. 60993

#### NEUTRA

For neutralisation of used solvents

##### TYPE LIMESCALE SOLVENT

Order no. 60991



#### LIMESCALE SOLVENT P

- Environmentally compatible due to the new powder concept
- Up to 50 % less work due to high processing temperatures
- Easy handling through practical



#### NEUTRA P

- For the neutralisation of limescale solvent P
- Raises the pH-value
- Is easy to process



#### LIMESCALE SOLVENT

- Environmentally 'Green product'
- Easily bio-degradable
- No harmful vapours or gases
- Sustainable product Eco-Safe limescale solvent

## SELECTION TABLE FOR SOLVENTS

APPLICATION FIELD	SOLVENTS				SOLVENTS	PASSIVATION
<b>Material</b>	for the removal of scale, and inorganic layers (except rust).				for the removal of scale, rust and inorganic layers.	after treatment of metal surfaces
<b>Product description</b>	Limescale solvent P up to 60°C	Limescale solvent	Limescale solvent VA	Limescale solvent Ecosafe	FFW / ZN	NAW
<b>Grey cast iron</b>	X	X	-	X	X	X
<b>Steel, un-alloyed and low-alloy steel</b>	X	X	-	X	X	X
<b>Copper and copper alloys (brass and other nonferrous metals)</b>	X	X	-	X	X	X
<b>Enamelled steel (acid-resisting)</b>	X	X	-	X	X	X
<b>Tin coated materials</b>	X	X	-	X	X	X
<b>Galvanized steel according to DIN</b>	X	X	-	X	X	X
<b>Aluminium</b>	X	X	-	X	-	-
<b>Stainless steel</b>	X	X	X	X	-	X
<b>Polysulfon RO-membranes</b>	X	-	-	-	-	-
<b>UV units</b>	X	-	-	X	-	-
<b>Drinking water application</b>	X	X	X	X	X	X

The used solvents can be neutralised with Neutra or Neutra P.



# BWT CORADES

THE FIRST COSMETIC HAND DESINFECTION

**...AT HOME, AT WORK OR ON THE GO**

New hygiene routines have been established in our everyday lives, we disinfect our hands several times a day. However, conventional products massively attack the protective layer of the skin, it quickly becomes dry and rough - especially with frequent use. An unpleasant, pungent smell is also left behind. Let's change that today:



## APPROVED DISINFECTION

- + Without water or soap, without rinsing. Rub 4 ml of gel in your hands for 60 seconds to obtain 99.99 % efficacy.
- + Cosmetic skincare with Panthenol Provitamin B5
- + Long-lasting fragrance, similar to a breeze of fresh sea air.

## BWT FACTS

ABOUT 5,000 EMPLOYEES

12 INTERNATIONAL  
PRODUCTION SITES



24 ASSEMBLING SITES

12 INTERNATIONAL  
R&D CENTRES



# THE GLOBAL BWT NETWORK A WINNING TEAM



## 01 BWT - EUROPE'S LEADING WATER TECHNOLOGY COMPANY

Our leading know-how, innovative technologies and high-quality products enable us to supply optimum water quality to all business sectors and many different applications.



## 02 INNOVATION FORCE

BWT's research and development departments are focused on pioneering innovations in all the areas of water technology. Our main objective here is to use resources sparingly, set quality standards and ensure that products are hygienic and safe.





### 03 STRONG DISTRIBUTORS WORLDWIDE

In order to bring our vision to life and to implement our message „Change the World – sip by sip“, we are continuously working worldwide with strong and innovative local partners who share our passion for water and ensure hygiene, safety and health in day-to-day contact with water.



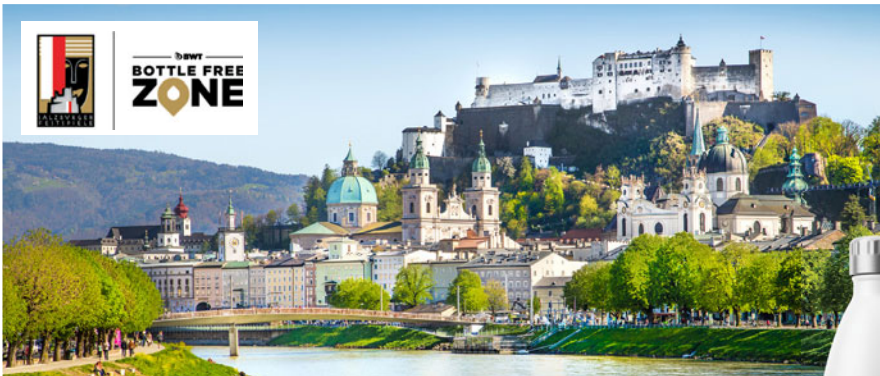
### 04 TRAINING AND SERVICE

We support our partners worldwide by offering a wide range of training in the different product segments. BWT knows the needs in the regions and offers corresponding service. This strengthens our global dealers and customers and has made us successful together for many years.



# LEADERS ARE CHANGING THE WORLD – SIP BY SIP

Companies, restaurants, hotels or events: there is nothing to prevent locally treated water being made available at the workplace, restaurants, hotels or at events. BWT technologies supply perfect mineralized water anywhere. Here are a few examples:



## SALZBURG FESTIVALS ARE PLASTIC BOTTLE-FREE

We are delighted that we were able to eliminate plastic bottles from the Salzburg Festival – one of the world's most high-profile cultural institutions. It is an important milestone for us as we communicate our „Change the World – sip by sip“ mission from Salzburg to the rest of the world! We installed more than 50 water dispensers in various venues to supply local, mineralised water to up to 5,000 employees, 3,000 artists and approx. 270,000 guests from over 75 countries.



**DR. KRISTINA HAMMER**  
SBC. FESTIVAL PRESIDENT

*"We are thrilled to secure BWT as our latest main sponsor, which enables us to send a clear signal in terms of sustainability and to save thousands of unnecessary plastic bottles."*



## ALPINN – PLASTIC BOTTLE-FREE AT 2.275 METRES ABOVE SEA LEVEL

To help protect the environment, Norbert Niederkofler, Michelin-star chef and owner of the Food Space & Restaurant AlpiNN at Kronplatz overlooking the South Tyrolean Alps and Dolomites, operates entirely without bottled mineral water, thereby eliminating time-consuming and environmentally harmful deliveries of approx. 20.000 water bottles a year to the restaurant, at 2.275 metres above sea level. Pile of rubbish and its CO2 footprint are shrinking and paving the way for a sustainable taste experience.



## ZURI ZANZIBAR

ZURI Zanzibar offers a unique zanzibari experience, combined with excellent BWT water in all areas of the resort. BWT developed a comprehensive water management system – from seawater desalination to pool & drinking water treatment to water recycling. This resort offers its guests as well as employees local, BWT mineralized water directly out of the tap and water dispensers.

# TOGETHER WE MAKE A BIG DIFFERENCE

To broadcast our message and reduce disposable plastic bottles, we need people who are as convinced as we that a small contribution from every individual can make a big difference and change the world for the better.

We are therefore proud and grateful that we have already been able to convince numerous „CHANGE ambassadors" and that many people have already become part of our mission.



## WE ARE DRIVING CHANGE!

One of the goals is to rid the Formula 1 paddocks of single-use plastic bottles in the next few years. BWT is providing water dispensers with local, magnesium-mineralized water for drivers, crew and fans throughout the paddock and in the Paddock Club. Thousands of liters mineralized water served in F1 paddock clubs in Europe! Numerous other sporting events and clubs are now relying on BWT mineralized water. A strong symbol for BWT bottle-free concept and the mission „Change the World – sip by sip".

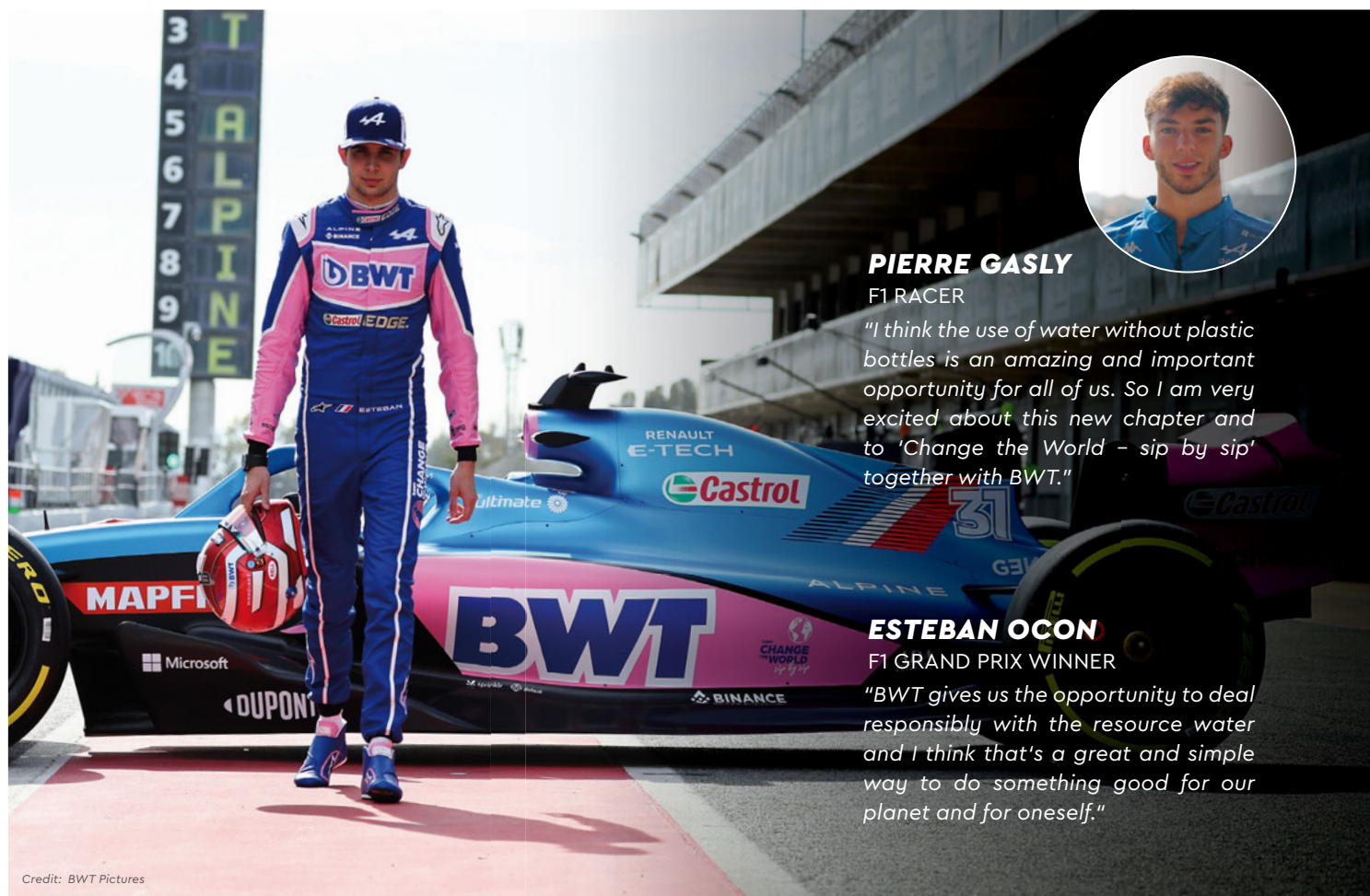


*„I am very happy to become a new BWT Sport family member and to stand for the mission to 'Change the World – sip by sip' with so many other athletes. To use local water is such a great way to help our planet and to use existing resources and not plastic."*

**HALVOR EGNER GRANERUD**

OVERALL WORLD CUP WINNER 20/21  
FOUR HILLS TOURNAMENT WINNER 22/23

Credit: GEPA Pictures



**PIERRE GASLY**

F1 RACER

*"I think the use of water without plastic bottles is an amazing and important opportunity for all of us. So I am very excited about this new chapter and to 'Change the World – sip by sip' together with BWT."*

**ESTEBAN OCON**

F1 GRAND PRIX WINNER

*"BWT gives us the opportunity to deal responsibly with the resource water and I think that's a great and simple way to do something good for our planet and for oneself."*

Credit: BWT Pictures





YOU NEVER DRINK  
ALONE!

# **SUSTAINABLE BWT DRINKING WATER SYSTEMS**

*Social responsibility is much more than a trend with BWT; it is an integral, essential element of our corporate culture. This is how we all help the Bottle Free Zone communities in Africa who cannot access clean drinking water. We are seeking like-minded campaigners to help us roll out our „Change the world – sip by sip“ mission and Bottle Free Zone concept to supply as many people as possible with drinking water and to assist people in need.*



How does it work? Each newly-established Bottle Free Zone forms the basis of a sustainable drinking water system. The b.waterMISSION fountain is an intelligent water dispenser that ensures a permanent on-site supply of drinking water. Not only are the technical aspects of the installation monitored continuously, but all the income is tracked, checked and used transparently by private organisations and official bodies to fund the ongoing system maintenance.

It doesn't take much to do some good and make the world a slightly better place – sip by sip. The Bottle Free Zone is a typical win-win strategy that makes sense for all the stakeholders. This involves reducing our single-use plastic mountain to zero and focusing on sustainable, regional drinking enjoyment with the best Magnesium Mineralized water. This also applies to Africa, where our commitment has ensured that people in need can access clean drinking water. Let's work together and build as many wells as we can.

## OUR OBJECTIVES WHEN BUILDING WELLS:

We create awareness of the value of water – the elixir of life – and therefore:

- Ensure the continuous operation via online monitoring and on-site maintenance and are constructing several thousand wells over the next few years
- Supply clean, safe drinking water
- Ensure that communities are never further than 150 m from the nearest collection point





# GENERAL TERMS AND CONDITIONS OF SALE

## (NOVEMBER 2023)

### 1. General

1.1. These terms and conditions apply to all deliveries and services of BWT Wassertechnik GmbH, HRB 430676, Industriestraße 7, 69198 Schriesheim, Germany, to entrepreneurs and all other customers. They apply to entrepreneurs even if they are not expressly referred to. For consumer transactions, these general terms and conditions apply with the deviations for consumer transactions that are legally regulated in the country in which the consumer has his habitual residence. Our deliveries are made exclusively on the basis of these terms and conditions. Conflicting conditions of purchase of the purchaser are not binding for the supplier, even if they are the basis of the order and the supplier has not expressly objected to their content. Employees of BWT are not authorized to make agreements that deviate from these conditions. Deviating from this, informally made changes or additions to this contract are also effective in a consumer transaction, if they are individual agreements. A consumer is any natural person who enters into a legal transaction for purposes that are predominantly outside his trade, business or profession.

1.2. These terms and conditions also apply if they were the basis for a first order and they remain equally in force in all future business relations with the contractual partner, regardless of whether the terms and conditions were expressly or otherwise incorporated or, in the case of recurring services and orders on call, the later order was based on the BWT order confirmation.

### 2. Conclusion of contract

2.1. The order shall only be deemed to have been accepted if it is confirmed in writing or executed immediately by the supplier. The supplier reserves ownership and copyrights to drawings, samples, models, tools and other documents that are created or provided in the course of the order. They may not be made accessible to third parties or used by the customer for his own or third-party purposes. The customer may not make copies, photos or the like of the documents. The documents are to be returned to the supplier unrequested after completion of the order. The customer is fully responsible for ensuring that no third-party intellectual property rights are infringed by the documents provided by him to the supplier. The supplier's offers are always subject to change unless otherwise agreed in writing.

2.2. Offer documents, such as drawings, illustrations, weights and other dimensions, are only approximate, unless expressly designated as binding by BWT. Changes are reserved. This applies in particular to the information provided in the rules of operation provided to the contractual partner. Calculations and information on water quality or water properties achieved by the item for sale carried out by BWT are based on the analysis values provided by BWT. It is agreed that these calculations are provided to the contractual partner by BWT solely for the purpose of assessing the requirements and planning goals of the contractual partner and that the calculations are generally non-binding. The values stated may change if the analysis values, discharge rates and flow rates, etc. are changed.

2.3. In the case of consumer transactions, the supplier must send the customer a written order confirmation within a reasonable period of time, at the latest within 14 days of the order being placed, otherwise the customer is no longer bound by the order or the offer. If the customer orders by telephone, he makes a binding offer to conclude a purchase contract with the supplier. The purchase contract is concluded in this case when the supplier accepts the customer's offer by sending the goods to the customer.

2.4. Obvious printing errors, errors, spelling and calculation errors do not bind BWT. This applies in particular to errors in the description of the goods and services in the offer.

2.5. The contractual partner is obliged to immediately notify the supplier in writing of any deviations from the message he has sent. Otherwise, it is assumed that a valid contract has been concluded between the parties, which includes these general terms and conditions, with the content confirmed in the BWT order confirmation.

### 3. Cost estimates

3.1. Cost estimates are only binding if they are issued in writing and designated as binding.

3.2. Cost estimates are chargeable, unless otherwise agreed. The supplier does not guarantee the accuracy of cost estimates that were prepared to the best of his knowledge and based on the information available to him at the time the cost estimate was made.

3.3. The cost estimates issued by BWT and the underlying plans, sketches and drawings may not be made accessible to third parties without the express written consent of BWT. Intellectual property remains with BWT.

3.4. If it becomes apparent on site that additional, cost-increasing services are required for the proper performance of the service, BWT is entitled to carry out these services without a separate order from the contractual partner, provided that the final amount of the original cost estimate is not exceeded by more than 15 %.

3.5. If an appraisal or disassembly of the item and a check of the individual parts is necessary for the preparation of the cost estimate, the contractual partner must reimburse the costs involved.

### 4. Delivery

4.1. Unless otherwise agreed in writing, deliveries of goods shall be made „ex works“ (INCOTERMS 2020) from one of the supplier's warehouses.

4.2. The customer or a third party commissioned by the customer (e.g., a freight forwarder) must ensure that the goods are properly loaded and/or secured. The supplier shall not be liable for any defects in loading or securing.

### 5. Scope of the delivery

5.1. The scope of the deliveries and services shall be definitively fixed in the supplier's order confirmation. Supplements, changes, etc. require written confirmation by the supplier. Dimensions, weights, illustrations and drawings for water treatment plants are only binding for the execution if this is expressly confirmed in writing. Advice given by our office and field staff is given to the best of their knowledge and in accordance with the state of the art and is based on normal operating conditions. Should the operating conditions, e.g. water quality, machines used or other on-site components change in the period between our offer and delivery, the customer is obliged to inform us immediately.

### 6. Delivery period

6.1. If no special conditions have been agreed with the customer, our usual delivery and performance deadlines shall apply. Deadlines are only binding if they have been expressly agreed as binding. The period for deliveries and services (delivery period) begins as soon as all details of execution have been clarified and both parties have agreed on all terms of the contract and refers to completion at the factory. Compliance with the delivery period is conditional upon the timely fulfillment of the customer's contractual obligations, in particular the terms of payment. If these conditions are not fulfilled in good time, the deadline shall be extended accordingly. The defense of non-performance of the contract remains reserved.

6.2. A reasonable grace period shall also be granted if the failure to meet the deadline is demonstrably due to events of force majeure, even if they occur during a delay in delivery, such as epidemic or pandemic-related business interruptions or business or supply chain interruptions due to official or legal orders. Force majeure events are unforeseen obstacles in accordance with point 17.

6.3. The same shall apply if official approvals or other approvals or information from the customer required for the execution of the delivery are not received in good time; the same shall apply in the event of subsequent changes to the order.

If the Supplier is in default through its own fault, the Purchaser may, provided it can prove that it has suffered damage as a result of the delay, demand compensation of a maximum of 0.5 % of the gross order amount in arrears for each full week of the delay, but no more than a total of 5 % of the gross order amount in arrears. Other or further claims for compensation by the Purchaser are excluded in all cases of delayed deliveries, even after expiry of a grace period granted to the Supplier, unless the Supplier's delay is due to intent or gross negligence.

6.4. The Purchaser's right to withdraw from the contract after the fruitless expiry of a grace period granted to the Supplier shall remain unaffected. Withdrawal must be asserted by registered letter.

6.5. If the delivery date is delayed at the request of the Purchaser, the Purchaser shall pay a storage fee of 1 % of the invoice amount for each month or part thereof (for interest, storage costs and insurance) from the date of notification of readiness. Consumers are permitted to prove that no damage has been incurred or that the damage is less than the estimated lump sum of 1 % of the invoice amount for each month or part thereof.

6.6. In the case of consumer transactions, the applicable statutory provisions shall apply.

### 7. Transfer of risk

7.1. In the case of delivery without installation or assembly, the risk, in particular for loss of or damage to the goods, shall pass to the customer as soon as the goods have been handed over to the carrier or other shipping person, in the case of default of acceptance by the customer from notification of readiness for dispatch. This shall also apply if partial deliveries are made or if the supplier has assumed other services.

7.2. This shall not apply if the customer is a consumer. In the case of consumer transactions, if the Supplier sends the goods, the risk of loss of or damage to the goods shall not pass to the Purchaser until the goods have been delivered to the Purchaser or to a third party designated by the Purchaser other than the carrier. However, if the customer himself has concluded the contract of carriage without making use of a selection option proposed by the supplier, the risk, in particular for loss of or damage to the goods, shall pass to the carrier as soon as the goods are handed over.

7.3. In the case of delivery with installation and/or assembly, the risk, in particular for loss of or damage to the goods, shall pass to the contractual partner on the day of acceptance in operation or, if trial operation has been agreed, after faultless trial operation. This is subject to the condition that the trial operation or takeover at the contractual partner's own premises immediately follows the operational installation and assembly. If the contractual partner does not accept the offer of a trial run or acceptance at its own premises, the risk, in particular for loss of or damage to the goods, shall pass to the contractual partner 7 days after the expiry of this offer. The risk, in particular for the loss or damage of the goods, is transferred in any case with the commissioning and/or use of the water treatment plant either by the contract partner, a third party commissioned by the contract partner or by BWT. If the shipment, the delivery or the start or the execution of the installation or assembly is delayed at the request of the contract partner or for reasons for which he is responsible, the risk is transferred to the contract partner. Corresponding insurance coverage in such cases will only be provided upon written request and at the expense of the contracting party.

### 8. Shipping

8.1. If the delivery is not EXW, the transport route and mode of transportation shall be determined by the supplier.

### 9. Delay of acceptance

9.1. If the item provided is not accepted as agreed, the supplier may demand compensation instead of performance after setting a reasonable grace period.

9.2. In the event of return or non-acceptance by the Purchaser, we shall charge entrepreneurs a lump sum of 15 % of the order value for administrative activities and loss of profit in addition to the costs incurred to be precisely recorded by the Supplier.

9.3. If the customer exchanges serial items or other goods within our program, we shall charge 5 % in addition to the purchase price for the supplier's services if the order value is the same. Returns are only possible if the goods are in a resalable condition.

9.4. In the case of an exchange of other goods (in particular custom-made products), the customer shall bear the full amount of any damage incurred during reuse, taking into account the lump sum.

9.5. Consumers are entitled to prove that no damage has occurred or that the damage is less than the estimated flat rate.

### 10. Warranty and liability for defects

10.1. The agreed deliveries and services are rendered according to the specifications of BWT on which the order confirmation is based.

10.2. Minor deviations from a sample and/or brochure on which the offer or the order confirmation is based (e.g. in terms of dimensions, weight, quality and color), which do not affect the intended use, are irrelevant defects and are considered approved in advance.

10.3. The statutory warranty provisions and warranty periods of the country in which the consumer has his habitual residence shall apply to consumers.

10.4. In all other respects, the following provisions shall apply: The supplier shall provide a warranty for defects in such a way that he shall, at his discretion, either repair, replace or provide again free of charge all those parts or services which become unusable or whose usability has been significantly impaired within the statutory or agreed warranty period as a result of a circumstance occurring before the transfer of risk or for which the supplier is responsible.

10.5. Damage that significantly restricts the functionality of the goods or impairs the safety of the goods shall be deemed to be significantly impaired.

10.6. Claims for defects require the fulfillment of the statutory inspection and complaint obligations. The discovery of such defects must be reported to the supplier immediately in writing or in text form. The supplier must be given the opportunity to inspect the rejected parts. The obligation to give notice of defects does not apply to consumers. The Purchaser must grant the Supplier reasonable time and opportunity for subsequent performance. If the Supplier allows a reasonable grace period set for it to expire without remedying the defect, or if it unjustifiably refuses subsequent performance, the Purchaser shall be entitled, at its discretion, to withdraw from the contract or to reduce the agreed remuneration. Excluded from the warranty and liability are damages due to natural wear and tear as well as damages that occur after the transfer of risk as a result of incorrect or negligent handling, excessive use and unsuitable operating materials.

10.7. Damage caused by modification or repair work carried out by the customer or an unauthorized third party is excluded from the warranty. The limitation period for claims for defects against entrepreneurs is 12 months from delivery. This shortening of the limitation period shall not apply to damages resulting from injury to life, body or health which are based on a negligent breach of duty by the supplier or on an intentional or negligent breach of duty by a legal representative or vicarious agent of the supplier. It also does not apply to damage caused by a grossly negligent breach of duty by the Supplier or a grossly negligent breach of duty by a legal representative or vicarious agent of the Supplier.

10.8. Further claims of the Purchaser against the Supplier and its vicarious agents, in particular compensation for damage that has not occurred to the delivery item itself, are excluded. The above limitation of liability shall not apply in cases of intent, gross negligence or the absence of guaranteed characteristics or in the event of injury to life, limb or health. If the supplier negligently breaches a material contractual obligation, its obligation to pay compensation for property damage or personal injury shall be limited to the amount covered by the supplier's liability insurance.

10.9. The limitations and exclusions of claims and liability in Clauses 10 and 11 shall not apply to claims of the Purchaser for reimbursement of installation and removal costs and the Purchaser's rights of recourse as seller.

### 11. Liability

11.1. Insofar as this does not violate mandatory law and unless otherwise stipulated in these GTCs, the Supplier shall only be liable for compensation for damages caused by gross negligence or willful misconduct. In the event of gross negligence, liability shall be limited to the value of the contract, up to a maximum of the amount covered by the Supplier's business liability insurance.

11.2. The Supplier shall not be liable for indirect or consequential damages, including incidental and consequential damages, loss of profit, loss of interest, failure to make savings, consequential and financial losses and damages arising from third-party claims, or for damages caused by unsuitable or improper use, natural wear and tear, faulty or negligent handling or storage, regardless of whether or not the Supplier has indicated the possibility of such damage.

11.3. Any further liability for damages other than that provided for in the last paragraph of clause 10 shall be excluded, irrespective of the legal nature of the claim asserted.

11.4. The above provision does not apply to claims under the Product Liability Act.

11.5. The exclusions of liability in clauses 8 and 9 of these terms and conditions shall also apply accordingly to claims arising from advice, information, statements in printed matter or breach of contractual ancillary obligations prior to or after conclusion of the contract.

11.6. Insofar as the Supplier's liability is excluded or limited, this shall also apply to the personal liability of the Supplier's employees, workers, staff, representatives and vicarious agents.

11.7. The limitations of liability set out in these terms and conditions shall not apply to damages resulting from injury to life, body or health which are based on a negligent breach of duty by the supplier or on an intentional or negligent breach of duty by a legal representative or vicarious agent of the supplier. It also does not apply to damage caused by a grossly negligent breach of



duty by the supplier or a grossly negligent breach of duty by a legal representative or vicarious agent of the supplier.

11.8 In the case of consumer transactions, the applicable statutory provisions shall apply.

## 12. Prices and payment

12.1 Unless otherwise stated, all prices in dealings with entrepreneurs are exclusive of the statutory value added tax applicable on the day of invoicing.

12.2 The prices are „ex works“ (as defined by INCOTERMS 2020) excluding costs for transportation, assembly or installation, unless otherwise agreed. Prices are subject to change and are quoted in EURO unless otherwise agreed.

12.3 Payments shall be made free Supplier's paying agent within 10 (ten) days of the invoice date less 2 % discount or within 30 (thirty) days net, unless otherwise agreed.

12.4 Bills of exchange or checks shall only be accepted on account of payment; the costs of discounting and collection shall be borne by the Buyer.

12.5 The customer may only offset claims that are undisputed or have been legally established. In addition, he is only authorized to exercise a right of retention to the extent that his counterclaim is based on the same contractual relationship. The prohibition of set-off and the exclusion of the right of retention shall not apply to consumer transactions.

12.6 Sales representatives or customer service employees are not authorized to collect unless they are expressly authorized in writing.

12.7 In the event of default of payment by the Customer, the Supplier shall be entitled, at its discretion, to demand compensation for the actual damage or default interest at the statutory rate. In the case of entrepreneurs, this is 9 percentage points above the base interest rate announced by the Deutsche Bundesbank. The Supplier shall also be entitled to demand compound interest in the event of default of payment by the Purchaser from the date of delivery of the goods. In the event of default in payment, the Purchaser undertakes to reimburse the Supplier for any reminder and collection charges incurred, including all legal fees and costs. For business transactions, this includes a lump sum of EUR 40 as compensation for collection costs. The assertion of further rights and claims shall remain unaffected. If the Customer is in default with a (partial) payment, the Supplier shall be entitled to demand immediate payment of outstanding but not yet due invoice amounts and/or to demand advance payment or the provision of security for future deliveries and services.

## 13. Retention of title / Installation

13.1 The Supplier shall retain title to the delivery item vis-à-vis entrepreneurs until receipt of all payments from the delivery contract and the entire business relationship, including interest and costs of any legal action. In relation to consumers, title to the delivery item is reserved until receipt of all payments under the delivery contract.

13.2 The Buyer shall carefully store the delivered goods for the Supplier until the transfer of ownership to the Buyer. The Purchaser shall bear the entire risk for the goods subject to retention of title, in particular the risk of destruction, loss or deterioration.

13.3 The Supplier and the Purchaser agree that the installation of series-produced equipment is not permanent and that the equipment and its accessories do not become an integral part of a building.

13.4 The Purchaser is authorized to sell the delivered goods in the ordinary course of business. In the event of resale, the Purchaser's claim shall be assigned upon conclusion of the resale contract in the amount of the Supplier's outstanding claims, even if the Purchaser has transformed, processed or installed the delivered goods. In the case of processing of the delivered goods, this shall apply in accordance with the proportion of the value that the Supplier's goods represent in the end product. The customer may neither pledge the delivered goods nor assign them as security and must store and insure them properly. In the event of seizure, confiscation or other dispositions by third parties, the Purchaser shall notify the Supplier immediately.

At the request of the purchaser, the supplier shall release securities to the extent that their value exceeds the value of the secured claims by more than 20 %.

## 14. Impossibility, contract adjustment

14.1 If the performance incumbent on the Supplier becomes impossible due to his own fault, the Purchaser shall be entitled to claim damages or reimbursement of expenses up to a maximum of 10 % of the value of that part of the delivery or service which cannot be put to the intended use due to the impossibility. This limitation of liability shall not apply in cases of intent or gross negligence. The right of the customer to withdraw from the contract remains unaffected.

## 15. Jurisdiction and applicable law

15.1 If the Purchaser is a merchant, a legal entity under public law or a special fund under public law, the sole place of jurisdiction for all disputes arising directly or indirectly from the contractual relationship shall be the court responsible for the Supplier's registered office. The supplier shall also be entitled to bring an action at the customer's headquarters. This shall not apply to consumers, for whom the court responsible for the consumer's place of residence or habitual abode shall be decisive in accordance with the applicable statutory provisions. Consumers with their habitual residence in the EU enjoy additional protection in this respect in accordance with the mandatory provisions of the law of their country of residence.

15.2 The contractual relationship between entrepreneurs shall be governed by German law to the exclusion of the United Nations Convention on Contracts for the International Sale of Goods (CISG) and the conflict of laws. The exclusion of the conflict of laws does not apply to the contractual relationship between entrepreneurs and consumers.

## 16. Data protection

16.1 The Supplier is obliged to comply with the provisions of the German Data Protection Act (DSG), the General Data Protection Regulation (GDPR) and any other statutory confidentiality obligations.

16.2 As an entrepreneur, the Customer is obliged to impose the above obligations on its employees and all other persons whom it is entitled to involve on the basis of the contractual agreement.

16.3 The Supplier shall process the personal data required for the purpose of fulfilling the contract. The detailed data protection information in accordance with Art. 13 ff GDPR can be found on our homepage at: <https://www.bwt.com/de-at/datenschutz/>.

## 17. Exports

17.1 These terms and conditions shall only apply unless special export business conditions have been agreed. The German version of the agreement shall prevail.

17.2 The statutory provisions shall apply to consumer contracts concluded by distance selling.

## 18. Miscellaneous

### 18.1 Written form

All agreements, subsequent amendments, supplements, collateral agreements, etc. must be made in writing to be valid.

### 18.2 Offsetting, retention and retention of liability

The contract partner is not entitled to offset against the claims of BWT with counterclaims of any kind, as well as the exercise of a right of retention without a legally binding title or due to claims from other legal transactions. The withholding of a retention by the contractual partner is not permitted.

### 18.3 Transfer of rights and obligations

The Customer is not entitled to transfer, assign or otherwise transfer rights and obligations arising from the contractual relationship to third parties without the prior written consent of the Supplier.

### 18.4 Force majeure

Force majeure events (such as strikes, lockouts, natural disasters or extraordinary natural events, pandemics, epidemics, war, riots, fire, floods, earthquakes, energy shortages or government or official acts that prohibit the Supplier from fulfilling its obligations), labor disputes, operational disruptions through no fault of its own, problems or delays in the procurement of raw materials, labor, fuel, energy, spare parts or machinery; disruptions in the performance of suppliers or sub-suppliers, civil unrest, quarantine restrictions and other events that cannot reasonably be avoided shall release the Supplier from its contractual obligations for the duration of the events. In addition, the supplier is entitled – without prejudice to other rights – to withdraw from the contract in whole or in part if such an event lasts for more than two months.

In the case of consumer transactions, the applicable statutory provisions shall apply.

## 18.5 Severability clause

Should provisions of these General Terms and Conditions be legally ineffective, invalid and/or void or become so in the course of their duration, this shall not affect the legal effectiveness and validity of the remaining provisions. In this case, the legally ineffective, invalid and/or void provision (which has become legally ineffective, invalid and/or void) shall be replaced by a provision which is legally effective and valid and which corresponds in its economic effect to the replaced provision – as far as possible and legally permissible.

18.6 If a party is in default with the exercise of a right or parts thereof under this contract or fails to exercise such a right, this shall not result in a waiver of this or any other right under this contract.

18.7 These GTC and the related contract between the Supplier and the Customer constitute the entire agreement between the parties. There are no other oral or written understandings, agreements or representations that are not set out in these GTCs or the related contract.

In the case of consumer transactions, the applicable statutory provisions shall apply.

## 19. Right of withdrawal

19.1 The following provisions apply exclusively to consumers and only to contracts concluded outside the Supplier's business premises or by telephone.

19.2 The consumer has the right to withdraw from the contract within fourteen days without giving any reason. The withdrawal period begins on the day on which the consumer or a third party designated by the consumer, who is not the carrier, has taken possession of the goods; in the case of a service contract, the period begins on the day the contract is concluded. In order to exercise the right of withdrawal, the consumer must inform us of their decision to withdraw from this contract by means of a clear statement (e.g. a letter sent by post or email). The consumer can use the sample withdrawal form provided on the BWT website, but this is not mandatory. In order to comply with the withdrawal period, it is sufficient for the consumer to send the notification of the exercise of the right of withdrawal before the expiry of the withdrawal period. There is no right of withdrawal for:

- Goods that are delivered sealed and are not suitable for return for reasons of health protection or hygiene, provided that the seal has been removed after delivery.

- Goods that have been inseparably mixed with other goods after delivery due to their nature.

- Goods that are manufactured according to customer specifications or are clearly tailored to personal requirements.

19.3. The declaration of withdrawal is to be sent to the following address:

BWT Wassertechnik GmbH, Industriestraße 7, 69198 Schriesheim, Germany  
E-Mail: [bwt@bwt.de](mailto:bwt@bwt.de), T.: +49 (0) 602373-0, Company register number: HRB 430676  
Commercial register court: Local court Mannheim

### 19.4 Consequences of withdrawal:

If the consumer withdraws from this contract, the supplier shall reimburse all payments received from the consumer, including delivery costs (with the exception of additional costs resulting from the consumer choosing a type of delivery other than the cheapest standard delivery offered by the supplier), immediately and at the latest within fourteen days from the day on which the supplier receives notification of the withdrawal from this contract. For this repayment, the supplier shall use the same means of payment that the consumer used for the original transaction, unless expressly agreed otherwise with the consumer; in no case shall the consumer be charged any fees for this repayment. The supplier may refuse repayment until he has received the goods back or until the consumer has provided proof that he/she has returned the goods, whichever is the earlier.

The consumer must return or hand over the goods to the supplier immediately and in any case within fourteen days at the latest from the day on which the consumer informs the supplier of the revocation of this contract. The deadline is met if the consumer sends the goods before the expiry of the fourteen-day period. The supplier shall bear the costs of returning the goods.

The consumer shall only be liable for any diminished value of the goods resulting from the handling other than what is necessary to establish the nature, characteristics and functioning of the goods.

19.5 If the statutory provisions of the country in which the consumer has his habitual residence are stricter than those in point 19 of this agreement, these shall apply to the consumer.

## 20. Special conditions for the provision of customer service, installation and maintenance

### 20.1 General

The provisions of the above General Terms and Conditions of Delivery and Payment shall apply accordingly, unless otherwise specified below.

### 20.2 Cost estimates

Cost estimates are only binding if they are submitted in writing and designated as binding.

Cost estimates are subject to a charge, unless expressly agreed otherwise. The Supplier does not guarantee the accuracy of cost estimates that were prepared to the best of its knowledge and belief on the basis of the information made available to the Supplier at the time of the cost estimate.

### 20.3 Invoice and payment

Work performed, parts used, materials and refill agents shall be invoiced separately, unless a lump sum price was agreed in writing when the order was placed. Where applicable, our respective customer service and spare parts price list shall apply.

Payments shall be made net cash directly to us or to our authorized representative immediately after the work has been carried out and the invoice has been issued, provided that the latter can provide evidence of written authority to collect.

### 20.4 Acceptance

Acceptance and recognition of our performance shall be effected by signature on the customer service order or corresponding form.

If no such acceptance takes place, the service shall be deemed to have been accepted 12 (twelve) working days after written notification of completion of the service or from commissioning of the system, whichever occurs first.

### 20.5 Replaced components

Replaced parts shall become our property unless otherwise agreed when the order was placed.



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