

The background of the entire page is a photograph of a calm lake at sunrise. The sky is a mix of deep blue and soft orange, with wispy clouds. The sun is low on the horizon, creating a bright glow that reflects on the water. In the distance, there are forested hills and mountains. The water in the foreground is very still, acting as a perfect mirror for the sky and the landscape above.

# SALES CATALOGUE 2019

WATER TREATMENT IN  
TECHNICAL PERFECTION

# Water is our mission



## *Our Success story continues* **Innovative solutions from BWT**

**BWT – Best Water Technology** considers it our challenge to develop the best products and services for water treatment. What's more: BWT ensures hygiene, safety and health in your daily contact with water. BWT is constantly researching innovative solutions to further develop products. Whether for your Home, Hotels & Hospitality, Swimming Pools &

Spas, Buildings & Industry, Pharma & Biotech or Membrane Technology – BWT has the expertise and perfect solution for every application. Our aim is to be able to offer you, as BWT customers, the best systems, technologies and services for water treatment while at the same time conserving the resources of our blue planet.

## About us:

BWT has a long tradition with many years experience in manufacturing state-of-the-art water filtration, purification and treatment products, along with a passion to preserve the global resources of our blue planet.

Today BWT group is doing business in more than 80 countries on five main production sites, counting 4,000 employees and an additional partner network worldwide. Our ground-breaking water treatment technology and products guarantee the highest levels of safety, hygiene and comfort in your daily relationship with water – our elixir of life.



### 1 BWT, EUROPE'S NO. 1 FOR WATER TECHNOLOGY

Our leading know-how in all areas of water treatment combines innovative technology and the highest quality standards as well as outstanding functionality with a modern design. Which explains why we are the leading player in the European water technology market.

### 2 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 fully operational and safe.

### 3 BRANDS & STRONG MARKETING

Marketing power is the key to accelerate our brand and increase BWT's popularity. That's why we invest in eye-catching sports sponsoring such as F1, Ski jumping, motorsport as well as in trade fairs, strong TV advertising, POS concepts and much more.

### 4 TRAINING AND SERVICE

We believe in strong partnership – together with our worldwide dealers and customers we are successful for many years. Supporting their needs offering trainings and best service – improving what we do day by day.

# Best Water Technology

FOR A SAFE AND HEALTHY HOME



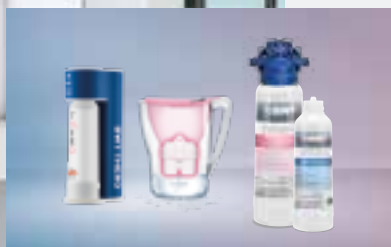
## *Best Water throughout the house* Enjoy 24/7 perfect water quality

From the basement to the attic, from the kitchen to the bathroom and from the heating system to the pool – BWT water technology ensures perfect water quality anywhere in your home. Our high-quality products provide excellent protection for installations and taps, heating systems and household appliances against limescale and other undesirable substances. We offer professional water treatment step-by-step with products working seamlessly together, supporting different capacities and needs: residential to apartment houses, commercial building or industrial

application. BWT applications ensure a high level of hygiene and safety, but also offer an incomparable sense of wellbeing with silky-soft BWT peal water when bathing or showering, through noticeably softer water, more velvety skin and glossy hair. BWT also enhances the quality of your drinking water – Magnesium Mineralized Water is a mouth-watering taste experience, whether you're merely quenching your thirst with pure tap water, or making a cup of tea and coffee.

## Flexible solutions for different tasks

BWT offers a broad water treatment portfolio with the appropriate and proven products – whether at the entrance of the municipal water pipe to your building (Point of Entry) or at the tapping point (Point of Use). BWT leads the market with innovative technology, expertise, and know-how. This was acquired over many years of pioneering hard work based on our strict German water standards (DVGW). Our ground-breaking water treatment technology and products guarantee the highest levels of safety, hygiene and comfort in your daily relationship with water – our elixir of life.



1

### POINT OF USE SOLUTIONS

There are many solutions for safe, tasty water in your kitchen and you can choose between Woda-Pure Inline Filtration installed under the sink, BWT THERO, compact Magnesium Mineralizer table water filter or convenient drinking water dispenser, all depending on your budget and preferences.



2

### BWT FILTER TECHNOLOGY

You're in safe hands with a BWT water filter, representing a kind of 'protective barrier' at the PoE against foreign particles, dirt or rust, which are an ideal breeding ground for germs. Invest in your drinking water throughout the house.



3

### SILKY SOFT BWT PEARL WATER

BWT Pearl Water systems will provide moments of true wellbeing as you are pampered from morning 'til night with silky-soft Pearl Water. BWT Pearl Water brings more benefits: protecting pipes, taps and appliances against limescale on the one hand, and saving money on the other.



4

### HYGIENE AND UV-DISINFECTION

UV disinfection and RO systems from BWT keep your water free of harmful bacteria, viruses and germs – for a maximum of hygiene safety. Reliable and environmentally friendly – providing perfect water quality for drinking, industrial applications or relaxing hours in the pool.

# For You and Planet Blue

BWT'S GLOBAL MISSION



## Water is both: *Our lifeblood and a scarce resource*

**The responsible use of water – our 21st century gold  
- is BWT's top priority.**

We consider our challenge as developing the best products and services for water treatment. What's more, water is our mission. We ensure hygiene, safety and health in daily contact with water. We are constantly researching innovative solutions to further develop our expertise and our products.

Our aim is to be able to offer our customers facilities, technologies and services for water treatment while at the same time conserving the resources of our blue planet.

### **For You and Planet Blue.**

Our slogan 'For You and Planet Blue' sums up our mission: to strive to be sustainable and responsible as a company – both for the needs of the individual and for their preservation of our earth as a unique habitat. After all, it's about people enjoying their blue planet and the vital element of water in the future as well.

# INTRODUCTION

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# BWT Filter Technology

BASIC PROTECTION FOR DRINKING WATER SYSTEMS





## Protection Filter up to DN 150 SELECTION TABLE



Type of device	E1 EHF / HWS	Infinity M, A and AP RF / HWS	R1 RF / HWS	Bolero RF / HWS
	Single lever filter	Manual + Automatic backwash filter	Manual backwash filter	Manual backwash filter
<b>Dimensions</b>	3/4" - 1"	3/4" - 2"	3/4" - 1 1/4"	3/4" - 2"
<b>Connection method</b>	integrated	HydroModul/ 4-hole connection	HydroModul	HydroModul/ 4-hole connection
<b>Type of filter</b>	EHF / HWS	RF / HWS	RF / HWS	RF / HWS
<b>DVGW</b>	■	■	■	■
<b>Protection against damage of installations and household appliances by dirt particles</b>	■	■	■	■
<b>Protection against pitting corrosion</b>	■	■	■	■
<b>Technical features</b>				
<b>Comfort maintenance</b>	■	-	-	-
<b>Nominal pressure PN (bar) (PSI)</b>	16 232	16 232	16 232	16 232
<b>With pressure reducer</b>	- / ■	- / ■	- / ■	- / ■
<b>Time or differential pressure controlled</b>	-	-	-	-
<b>Page number</b>	12	14	16	15

■ 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	Avanti RF	Multipur M		Multipur AP	
		65/80/100	125/150	65/80/100	125/150
Manual backwash filter	Cartridge filter	Manual backwash filter		Automatic backwash filter	
3/4" – 1"	3/4" – 2"	DN 65/80/100	DN 125/150	DN 65/80/100	DN 125/150
integrated	integrated	Flange	Flange	Flange	Flange
-	■	■	-	■	-
-	■	■	■	■	■
-	■	■	■	■	■
-	-	-	-	-	-
10 145	16 232	10 145	10 145	10 145	10 145
-	-	-	-	-	-
-	-	-	-	■	■
15	15	18	18	19	19

# E1 Single-Lever Filter

HYGIENIC, COMFORTABLE  
AND SAFE



The E1 Single-Lever filter from BWT is a masterpiece of precision and fully compliant with all standards for hygienic and safe drinking water. Installed directly at the point of entry – where the municipal pipeline enters the house, it protects your entire domestic water installation against foreign particles such as rust and reducing also the risk of mould and bacteria

growth. Very easy filter exchange in a matter of seconds. Innovative technical know-how combined with contemporary design to create a new generation of filter technology: Manufactured according to highest hygienic production conditions, extremely user friendly and award winning technology.



01  
Unlock the safeguard, simultaneously shutting off the water in both directions.



02  
Lift the single lever – automatically ejecting the hygiene safe / filter element.



03  
Insert the new hygiene safe / filter element. Close lever. Lock. Finished.

## E1 Single-Lever Filter

FUNCTIONAL AND AWARD-WINNING MODERN DESIGN

Filter complete with brass head and high-tech materials, individually packed, including connecting technology.

**Technical specifications:** Nominal pressure PN 16, operating pressure, min.-max. 2 -16 bar (29-232 psi), water-/ambient temperature, max. 30/40 °C (86/104 °F)

### E1 Single-Lever Filter HWS\*

Type E1 HWS 100µm		¾"	1"
DVGW		Yes	
Nominal connection width	DN	20	25
Nominal pressure	bar (psi)	16 (232)	16 (232)
Length	mm	100	100
Total height	mm	398	398
Flow rate DIN EN 1567	m <sup>3</sup> /h (gpm)	2.3 (10.1)	3.6 (15.8)
<b>Order no.</b>		<b>40384</b>	<b>40385</b>

\*HWS includes a pressure reducer module

### E1 Single-Lever Filter EHF\*\*

Type E1 EHF 100µm		¾" NEW
DVGW		Yes
Nominal connection width	DN	20/25
Nominal pressure	bar (psi)	16 (232)
Length	mm	100
Total height	mm	381
Flow rate DIN EN 1567	m <sup>3</sup> /h (gpm)	2.3 (10.1)
<b>Order no.</b>		<b>40382</b>

\*\*EHF without pressure reducer module

## Refill – Filter Elements

Hygiene Safe including 1 Filter element	30µm	100µm
<b>Order no.</b>	<b>20375</b>	<b>20393</b>

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

Filter Element for E1 Filter (double pack)	100µm
<b>Order no.</b>	<b>10386</b>

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



E1 SINGLE-LEVER FILTER NEW HWS



E1 SINGLE-LEVER FILTER EHF



E1 HYGIENE SAFE



E1 FILTER ELEMENT

INFINITY – WATER FILTERS THAT WILL LAST FOR GENERATIONS

BWT has developed its expertise over many years and can offer an extensive portfolio of filtration products specifically designed for a wide variety of needs. Our long-standing experience in this area guarantees that your water filter is efficient, effective and has an absolutely safe operation. Of course the materials used can withstand extreme stresses. Safety has never been so long-lasting as with the BWT Infinity which offers operational perfection as a backwash filter with a pressure reducer or as a domestic water station. This backwash technology is characterised by high levels of comfort.

**Infinity M** BACKWASH FILTER

Filter complete with red brass head and high-tech materials, incl. backwash system, waste drain connection DN 40, individually packed.

**Technical specifications:** Nominal pressure PN 16, operating pressure, min.- max. 2.0 – 16 bar (29 – 232 psi) (during backwashing), water/ambient temperature, max. 30/40 °C (86/104°F)



INFINITY M

- 3/4" - 1 1/4" rapid connection technology
- High-tech materials
- Low operating and investment costs



INFINITY A / AP

- 3/4" - 1 1/4" rapid connection technology
- Automatic backwash controlled by pressure differential (Infinity AP)
- Efficient power failure protection system
- Low power consumption

Type Infinity M 90µm		3/4"	1"	1 1/4"	1 1/2"	2"
DVGW				Yes		
Nominal connection width	DN	20	25	32	40	50
Nominal pressure	bar (psi)	16 (232)				
Flow rate at Δp 0.2 bar/0.5 bar Δp 2.9 psi/7.3 psi	m <sup>3</sup> /h	3.5/6.0	4.5/6.5	5.5/9.0	10.0/15.5	10.0/15.5
	gpm	15.4/26.4	19.8/28.6	24.2/39.6	44.0/68.2	44.0/68.2
Installation length without connection equipment	mm	100	100	105	125	125
Installation length with connection equipment	mm	184	184	198	240	260
Total height	mm	550	550	550	550	550
<b>Order no.</b>		<b>10305</b>			<b>10306</b>	

**Infinity A and AP** BACKWASH FILTER

Filter complete with red brass head and high-tech materials, incl. backwash system, waste drain connection DN 50, individually packed.

Type A and AP: automatic backwash filter with 24V-connection, electronic control unit for controlling of the 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.

Types 3/4" – 1 1/4", size 1, for HydroModul-connection  
Types 1 1/2" – 2", size 2, with 4-hole-flange-connection

**Technical specifications:** Nominal pressure PN 16, operating pressure, min. – max. 2.0 – 16 bar (29 – 232 psi) (during backwashing), water/ambient temperature, max. 30/40 °C (86/104°F).

Type Infinity A and AP 90µm		3/4"	1"	1 1/4"	1 1/2"	2"
DVGW				Yes		
Nominal connection width	DN	20	25	32	40	50
Nominal pressure	bar (psi)	16 (232)				
Flow rate at Δp 0.2 bar/0.5 bar Δp 2.9 psi/7.3 psi	m <sup>3</sup> /h	4.0/7.0	5.0/7.5	5.5/9.0	10.0/16.0	10.0/16.0
	gpm	17.6/30.8	22.0/33	24.2/39.6	44.0/70.4	44.0/70.4
Installation length without connection equipment	mm	100	100	105	125	125
Installation length with connection equipment	mm	184	184	198	240	260
Total height	mm	550	550	550	550	550
<b>Order no. A</b>		<b>10194</b>			<b>10191</b>	
<b>Order no. AP</b>		<b>10258</b>			<b>10259</b>	

\*INFINITY A and AP also available as HWS version with pressure reducer module.

**CONNECTION EQUIPMENT FOR ALL INFINITY FILTERS HAS TO BE ORDERED SEPARATELY!**

REQUIRED CONNECTION MODULES

Type	Description	Size	Order no.	Page
<b>Connection module</b>	For the rapid connection of water treatment units. Suitable for the filter unit Infinity size 1	3/4"	<b>30012</b>	34
		1"	<b>30014</b>	
		1 1/4"	<b>30020</b>	
<b>Connection module DR /HWS</b>	If you want a filter with pressure reducer, select the connection module DR /HWS. Suitable for the filter unit Infinity size 1	3/4"	<b>30016</b>	34
		1"	<b>30018</b>	
		1 1/4"	<b>30022</b>	
<b>Connection piece basic</b>	For connection of the filter unit Infinity size 2.	1 1/2" 2"	<b>50961</b> <b>50962</b>	34
<b>Connection piece HWS</b>	For connection of the filter unit Infinity size 2. The connection piece HWS also includes an integrated pressure reducer	1 1/2" 2"	<b>50954</b> <b>50955</b>	34

## Bolero RF BACKWASH FILTER

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. Type 3/4" + 1 1/4" with HydroModul rapid connections for high-speed installation.

**Technical specifications:** Nominal pressure PN 16, operating pressure min.-max. 2 - 16 bar (29 - 232 psi) (during backwashing), water/ambient temperature, min-max. 5-30/5-40 °C, (86/104 °F).

Type Bolero RF 90µm		3/4"	1"	1 1/4"	1 1/2"	2"
DVGW				Yes		
Nominal connection width	DN	20	25	32	40	50
Nominal pressure	bar (psi)			16 (232)		
Flow rate at Δp 0.2 bar/0.5 bar	m³/h	3.0 (13.2)	3.5 (15.4)	4.0 (17.6)	10.5 (46.2)	11.0 (48.4)
	Δp 2.9 psi/7.3 psi	gpm	4.0 (17.6)	5.0 (22.0)	6.0 (26.4)	15.5 (68.2)
Installation length without connection equipment	mm	100	100	100	125	125
Installation length with connection equipment	mm	184	184	203	240	260
Total height	mm	330	330	330	460	460
<b>Order no.</b>		<b>10364</b>	<b>10365</b>	<b>10366</b>	<b>10367</b>	<b>10368</b>

\*Also available as HWS version with pressure reducer module

## Avanti RF BACKWASH FILTER

Filter series for drinking water purposes with flow rates up to 15,5 m³/h (68,24 gpm) (2<sup>nd</sup> step system) available as backwash filter (RF series) or cartridge filter (WF series) with varying micron ratings. High quality head made of red brass and cup with a nominal pressure of PN 10. Comfortable mounting with connection threads. Backwash element with easy single manual backwash system. Filter cartridge and backwash element with extremely large filter area for longer operation.

- filter size 3/4" - 2"
- available as cartridge filter or backwash filter
- incl. connection module with threaded unions

**Technical specifications:** Nominal pressure PN 10/16, operating pressure min.-max. 2 - 16 bar (29 - 232 psi) (during backwashing), water-/ambient temperature min./max. 30/40°C (86/104 °F).

Type Avanti RF 90µm		3/4"	1"	1 1/4"	1 1/2"	2"
Nominal connection width	DN	20	25	32	40	50
Nominal pressure	bar (psi)		10 (145)		16 (232)	
Flow rate at Δp 0.2 bar/0.5 bar	m³/h	3.0/5.5	3.5/6.0	4.0/6.5	9.5/14.5	10.0/15.5
	Δp 2.9 psi/7.3 psi	gpm	13.2/24.2	15.4/26.4	17.6/28.6	39.6/63.8
Installation length without connection equipment	mm	100	100	105	140	140
Installation length with connection equipment	mm	184	184	203	254	274
Total height	mm	278	278	278	370	370
<b>Order no.</b>		<b>10174</b>	<b>10175</b>	<b>10176</b>	<b>10204</b>	<b>10205</b>

## Protector 3/4" - 1" BW BACKWASH FILTER

Cost efficient backwash filter for the filtration of drinking and service water. Operating pressure, min.-max. 2 -16 bar (29-232 psi).

Type Protector BW 90µm		3/4"	1"
Nominal connection width	DN	20	25
Nominal pressure	bar (psi)		16 (232)
Flow rate at Δp 0.2 bar (2.9 psi)	m³/h (gpm)	3.0 (13.2)	3.5 (15.4)
Operating pressure min./max.	bar (psi)		2/16 (29/232)
Water temperature min./max.	°C (°F)		5/30 (41/86)
Installation length	mm	106	100
Total height	mm	280	280
<b>Order no.</b>		<b>10547</b>	



BOLERO RF

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



AVANTI RF



PROTECTOR 3/4" - 1" BW

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

# 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 your customers' water installations and prevent dripping faucets throughout the home or malfunction of household appliances. New connections or maintenance outside your customers' home may be responsible for these contaminants, such as sand or rust particles. But installation is only half the job. The maintenance

of the protective filter is important and crucial for hygienic drinking water. 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 for your customers.

## Advantages at a glance

- Durable, robust, powerful pioneering design
- Quick installation with HydroMODUL (3/4" to 5/4")
- For horizontal and vertical installation
- Particularly intensive cleaning with 2-phase backwash technology





## R1 Backwash Filter

### INCL. HYDROMODUL CONNECTION EQUIPMENT

Compact backwash unit with a large filter area. 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.

Type ¾" - 1 ¼" with HydroModul rapid connections for high-speed installation.

**Technical specifications:** Nominal pressure PN 16, operating pressure min.-max. 2.0 - 16 bar (29 - 232 psi) (during backwashing) water/ambient temperature min.-max. 5-30/5-40 °C (86/104 °F).

### R1 Backwash Filter HWS

Type R1 HWS 90µm		¾"	1"	1 ¼"
DVGW			Yes	
Nominal connection width	DN	20	25	32
Nominal pressure	bar (psi)		16 (232)	
Flow rate DIN EN 1567	m³/h (gpm)	2.3 (10.0)	3.6 (15.8)	5.8 (25.5)
Installation length with connection equipment	mm	186	184	203
Installation length without connection equipment	mm	100	100	105
<b>Order no.</b>		<b>40369</b>	<b>40370</b>	<b>40371</b>

\*HWS includes a pressure reducer module

### R1 Backwash Filter RSF

Type R1 RSF 90µm		¾"	1"	1 ¼"
DVGW			Yes	
Nominal connection width	DN	20	25	32
Nominal pressure	bar (psi)		16 (232)	
Flow rate				
at Δ p = 0.2 bar (psi)	m³/h (gpm)	3.4 (15.0)	3.7 (16.3)	4.1 (18.0)
at Δ p = 0.5 bar (psi)	m³/h (gpm)	5.4 (23.8)	6.0 (26.4)	6.7 (29.5)
Installation length with connection equipment	mm	186	184	203
Installation length without connection equipment	mm	100	100	105
<b>Order no.</b>		<b>40364</b>	<b>40365</b>	<b>40366</b>

\*RSF includes no pressure reducer module



R1 BACKWASH FILTER HWS



R1 BACKWASH FILTER RSF



filter element with 50µm & 200µm available



MULTIPUR M 65/80/100

filter element with 50µm & 200µm available



MULTIPUR M 125/150

- hygienic filter cleaning due to high rinsing speed with suction ring rinsing system, 12 times faster than other systems, operates within seconds without interrupting filtration process
- economic filter cleaning due to low consumption of backwashing water
- integrated rinsing water connection according to DIN 1988

### Multipur M 65 – 150 MANUAL BACKWASH FILTER

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. Backwashing is done manually.

**Technical specifications:** Nominal pressure PN 10, operating pressure pure water side min./max. 2.5/10 bar (36/145 psi) (during backwashing), water/ambient temperature max. 30/40 °C (86/104 °F).

Type Multipur		65 M	80 M	100 M
DVGW			Yes	
Nominal connection width	DN	65	80	100
Nominal pressure	PN (psi)	10 (145)		
Flow rate at Δp 0.2 bar/0.5 bar Δp 2.9 Psi/7.3 psi	m <sup>3</sup> /h	35/58.0	35/58.0	56/82
	gpm	154.1/255.4	154.1/255.4	246.6/361
Operating pressure, min./max.	bar	2.5/10		
Operating pressure, min./max.	psi	36 (during backwashing) /145		
Length	mm	220		
Total height	mm	600	600	660
<b>Order no.</b>	<b>type 100 µm</b>	<b>10185</b>	<b>10186</b>	<b>10562</b>
<b>Order no.</b>	<b>type 200 µm</b>	<b>10187</b>	<b>10188</b>	-

Type Multipur		125 M	150 M
DVGW			-
Nominal connection width	DN	125	150
Nominal pressure	PN (psi)	10 (145)	
Flow rate at Δp 0.2 bar/0.5 bar Δp 2.9 Psi/7.3 psi	m <sup>3</sup> /h	57/91	61/105
	gpm	251/400.7	268.6/462.3
Operating pressure, min./max.	bar	2.5/10	
Operating pressure, min./max.	psi	36 (during backwashing) /145	
Length	mm	220	
Total height	mm	740	740
<b>Order no.</b>	<b>type 100 µm</b>	<b>10563</b>	<b>10564</b>

## Multipur AP 65 – 150 AUTOMATIC BACKWASH FILTER

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.

Backwashing 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.

**Technical specifications:** Nominal pressure PN 10, operating pressure pure water side min.- max. 2.5 bar (36 psi) (during backwashing) – 10 bar (145 psi), water/ambient temperature min./max. 5–30/5–40 °C (86/104 °F).

Type Multipur		65 AP	80 AP	100 AP
DVGW			Yes	
Nominal connection width	DN	65	80	100
Nominal pressure	bar (psi)	PN 10 (145)	PN 10 (145)	PN 10 (145)
Flow rate at Δp 0.2 bar/0.5 bar Δp 2.9 Psi/7.3 psi	m <sup>3</sup> /h	35/58	35/58	56/82
	gpm	154.1/255.4	154.1/255.4	246.6/361
Operating pressure, min./max.	bar		2.5/10	
Operating pressure, min./max.	psi	36 (during backwashing) /145		
Length	mm		220	
Total height	mm	630	630	680
<b>Order no.</b>	<b>type 100 µm</b>	<b>10181</b>	<b>10182</b>	<b>10565</b>
<b>Order no.</b>	<b>type 200 µm</b>	<b>10183</b>	<b>10184</b>	-

Type Multipur		125 AP	150 AP
DVGW			-
Nominal connection width	DN	125	150
Nominal pressure	PN (psi)	10 (145)	10 (145)
Flow rate at Δp 0.2 bar/0.5 bar Δp 2.9 Psi/7.3 psi	m <sup>3</sup> /h	57/91	61/105
	gpm	251/400,66	268,6/462,3
Operating pressure, min./max.	bar		2.5/10
Operating pressure, min./max.	psi	36 (during backwashing) /145	
Length	mm		220
Total height	mm	770	770
<b>Order no.</b>	<b>type 100 µm</b>	<b>10566</b>	<b>10567</b>

### SPECIAL ACCESSORY

## Differential pressure manometer FOR TYPE MULTIPUR

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.

Type	RFM / RFA
<b>Order no.</b>	<b>10989</b>



MULTIPUR AP 65/80/100



MULTIPUR AP 125/150



DIFFERENTIAL PRESSURE  
MANOMETER



CARTRIDGE FILTER AVANTI WF



PROTECTION FILTER MINI 1/2"



BWT FILTER 1/2"



FOLDED FILTER ELEMENT

## Avanti WF CARTRIDGE FILTER

Type Avanti WF 90µm		3/4"	1"	1 1/4"	1 1/2"	2"
Nominal connection width	DN	20	25	32	40	50
Flow rate at Δp 0.2 bar Δp 2.9 psi	m <sup>3</sup> /h	3.0	3.5	4.0	9.0	12.0
	gpm	13.2	15.4	17.6	39.6	52.8
Installation length incl. unions	mm	184	184	203	254	274
Total height	mm	239	239	239	290	290
<b>Order no.</b>		<b>50062</b>	<b>50063</b>	<b>50064</b>	<b>10199</b>	<b>10200</b>

## Avanti WF REPLACEMENT FILTER ELEMENT

Contents: 6 in a box.

Type	DN 20 – 32	DN 40 and 50
<b>Order no.</b>	<b>10932E</b>	<b>10941E</b>

## Protection filter mini 1/2"

For the use in dentists surgeries, for protection of coffee machines, soda machines, laboratories, canteens, filling of heating systems, building machinery, ice cube makers, humidifying equipment, etc. head made of brass, bleeding screw in the head.

**Technical specifications:** Nominal pressure PN 10 (145 psi), water/ambient temperature 30/40°C (86–104°F).

Type Protection filter mini 90µm		1/2"
Nominal connection width	DN	15
Length	mm	80
Total height	mm	150
<b>Order no.</b>		<b>10018</b>

## BWT filter 1/2"

For the use in dentists surgeries, for protection of coffee machines, soda machines, laboratories, canteens, filling of heating systems, building machinery, ice cube makers, humidifying equipment, etc. bleeding screw in the head made of brass.

**Technical specifications:** Nominal pressure PN 10 (145 psi), water/ambient temperature 30/40°C (86–104°F).

Type BWT filter 1/2" 5µm		1/2"
Nominal connection width	DN	15
<b>Order no.</b>		<b>10500</b>

## String-wound filter element

FOR BWT FILTER 5µM

Content: 2 pieces

Type for Clarity Filter		
Micron rating	µm	5
<b>Order no.</b>		<b>13971</b>

## Folded filter element

FOR PROTECTION FILTER MINI 1/2"

Only available in one box incl. 10 filter elements.

Type		fleece	fabric
Micron rating	µm	30	90
<b>Order no.</b>		<b>10995E</b>	<b>10996E</b>

## Celsius 80 DN 20 – 50

The filters are used for filtration of drinking and industrial water up to 80 °C (176 °F). Hot water filter consists of brass head, filter housing, draining valve, flat seal, filter element.  
**For all types:** Nominal pressure PN 10, water-/ambient temperature max. 80 °C (176 °F).  
 Differential pressure max. 1.5 bar.

Type Celsius 80 90µm		3/4"	1"	1 1/4"	1 1/2"	2"
Nominal connection width	DN	20	25	32	40	50
Flow rate at $\Delta p$ 0.2 bar	m <sup>3</sup> /h	3.0	3.5	4.0	9.0	12.0
	gpm	17.6	24.2	28.6	39.6	52.8
Installation length with connection equipment	mm	184	184	203	254	274
	mm	100	100	105	140	140
Total height	mm	242	242	242	300	300
	<b>Order no.</b>	<b>mm</b>	<b>10063</b>	<b>10064</b>	<b>10065</b>	<b>10066</b>

## Filter element

FOR CELSIUS 80 DN 20 - 50

Content: 6 pieces

Type Filter element	DN	20 – 32	40 – 50
<b>Order no.</b>		<b>10932E</b>	<b>10875E</b>

## Replacement filter cartridge

FOR FILTER DN 50, 65 - 80

Delivery only in packaging unit: 12 pieces per carton. Cartridge length 290 mm.

Type Replacement filter cartridge	
<b>Order no.</b>	<b>10865E</b>



CELSIUS 80



REPLACEMENT FILTER  
CARTRIDGE DN 65 - 80

# BWT Multis

THE EXPERTS FOR SPECIAL CASES



## *Taking nature as a role model* **Multi-layer filtration – our proven process know-how**

Many modern filtering methods have their origins in nature, for example the multi-layer filters. During seepage, the water flows through different layers of soil from sand, gravel or other rocks and is filtered slowly into clear ground water on its journey.

BWT has developed its expertise over many years in the large scale process business for municipalities and the industry. This proven process know-how has now been transferred and condensed in a domestic filter system: The BWT Multi filter range! If it comes down

to remove dirt particles, bad odour and tastes, such as chlorine compounds, but also iron, manganese or even heavy metals e.g. lead copper, nickel and arsen. BWT can offer the right filtration product specifically designed for your needs. The excellent water quality is achieved by the ideal combination of the correct filter media appropriately operated.

Depending on the type of target and water issue we offer different high-end filter media compliant to German DIN standards – for safe and perfect results.



## The Multi series – A family of specialists dealing with various challenges of water.

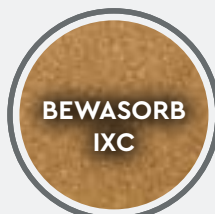
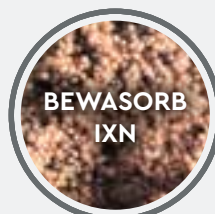
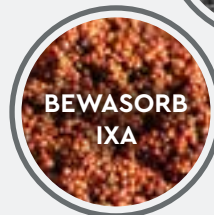
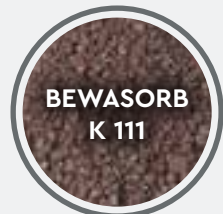
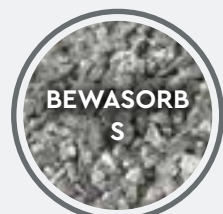
Type	1000	2000	3000	7000	Intended Use	Filter Media
<b>Multi C</b>	■	■	■	■	Removal of dirt particles, chlorine, toxic chlorination by products, bad taste, colour, smell, organics	Bewasorb K 111
<b>Multi S</b>	-	■	■	-	Removal of dirt particles, chlorine, bad taste, colour, smell, organics, iron and manganese	Bewasorb K111 Bewasorb IXC Minox S Filter element ACF
<b>Multi G</b>	-	-	■	-	Removal of sediments and huge amounts of dirt particles	Bewasorb S
<b>Multi AS</b>	-	■	■	-	Removal of arsenic, chlorine, colour, smell, organics and particles	Bewasorb K111 Bewasorb IXA
<b>Multi HM</b>	-	■	■	-	Removal of heavy metals, lead, copper, nickel, chlorine, colour, smell, organics and particles	Bewasorb K111 Bewasorb IXN



## BWT filter materials for water treatment

MEETING THE HIGHEST STANDARDS.  
TESTED UNDER THE TOUGHEST CONDITIONS.  
PROVEN BY MANY YEARS OF OPERATION

- Highest media purity compliant with the strict standards of the German DIN
- High process safety and reliable results over their complete period of use
- Great material resistance that ensures perfect filtering results without adding substances to the water
- Reliable and proven quality 'Made in Germany'





MULTI C

- Proven process know-how condensed into a domestic filter system
- High quality filter media Bewasorb K111
- Automatic volume controlled backwash



MULTI S

- Proven process know-how condensed into a domestic filter system
- High quality multi media filtration system
- Filter Media Bewasorb K111, Minox S & Bewasorb IXC

## Multi C

### HIGH EFFICIENCY REMOVAL OF CHLORINE

The BWT Multi series offer the unmatched BWT quality standards, high removal efficiency, active monitoring and automatically controlled cleaning cycle, while offering a compact design and user-friendly operation. Effectively removes chlorine, contaminants, sediments, suspended solids and other pollutants. Filter for the removal of dirt particles, colour, bad odour and tastes, such as chlorine compounds etc. Additional removal of iron. Clean water from the first litre onwards. Automatic volume controlled efficient backwash.

**Technical specifications:** Nominal pressure 10 bar (145 psi), operating pressure 2–8 bar (29–116 psi), water-/ambient temperature, max. 30/40 °C (86/104 °F), electrical connection 230 V/50 Hz, unit voltage 18 V.

Type Multilayer filter C		1000	2000	3000	7000
Nominal connection width	DN	32 (1 1/4 ")			
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	bar/ psi	2–8 / 29–116			
Capacity	l	1000	1800	2400	6400
Height	mm	625	1080	1280	1820
<b>Order no.</b>		<b>13912</b>	<b>13921</b>	<b>13922</b>	<b>13901</b>

For Multi C we offer this replacement kit also- containing support gravel plus Bewasorb K111.

#### Refill Multi C

Order no.	10863	2-060966	2-060967	2-061060
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## Multi S

### REMOVAL OF DIRT PARTICLES, CHLORINE & IRON/MANGANESE

Provide reliable protection against dirt particles in the water. They remove dirt sediments and substances from water, contaminants such as iron (up to 1 ppm) and manganese, as well as turbidity, colouring and unpleasant odours and taste e.g. chlorine.

**Technical specifications:** Nominal pressure 10 bar (145 psi), operating pressure 2–8 bar (29–116 psi), water-/ambient temperature, max 30/40 °C (86/104 °F), electrical connection 230 V/50 Hz, unit voltage 18 V.

Type Multilayer filter S		2000	3000
Nominal connection width	DN	32 (1 1/4 ")	
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	bar/ psi	2–8 / 29–116	
Capacity	l	1800	2400
Height	mm	1080	1280
<b>Order no.</b>		<b>13919</b>	<b>13920</b>

For Replacement, activated carbon filter element (ACF) and/or re-filling filter material is available. Regarding filling material, BWT offers special replacement kits containing all different filter media's in the exactly quantity you will need to refill Multi S2000 and Multi S3000. Each kit contains in detail these filter media: a) support gravel, b) Minox and c) multi filter media. We would strongly recommend to replace via replacement kit and filter element.

Refill Multi S	2000	3000
<b>Order no.</b>	<b>2-060995</b>	<b>2-060996</b>
Filter element ACF	2000	3000
<b>Order no.</b>	<b>2-060926</b>	<b>2-060927</b>

### OPTIONAL CONNECTION EQUIPMENT

#### Multiblock X

Type Multiblock X	1"
<b>Order no.</b>	<b>30999</b>

#### Connection set DN 32/32

Type Connection set	DN 32/32
<b>Order no.</b>	<b>11877</b>



## Multi G

### HIGH EFFICIENCY REMOVAL OF DIRT PARTICLES

These G series filters are developed for the efficient removal of particles, e.g. sand, rust and loads of sediments from water. Best filter efficacy of 10–20µm is ensured – due to its exactly matching grain size, hardness and angularity of filter gravel. Even with a significant absorption of dirt, the pressure loss remains low and the automatic volume controlled filter head guarantees high level of performance.

**Technical specifications:** Nominal pressure 10 bar (145 psi), operating pressure 2–8 bar (29–116 psi), water-/ambient temperature, max. 30/40 °C (86/104 °F), electrical connection 230 V/50 Hz, unit voltage 18 V.

Type Multilayer filter G		3000
Nominal connection width	DN	32 (1 1/4 ")
Max. flow rate	m <sup>3</sup> /h (gpm)	3.0 (13.2)
Nominal flow rate	m <sup>3</sup> /h (gpm)	1.5 (6.6)
Operating pressure	bar/ psi	2–8 / 29–116
Capacity	l	2400
Height	mm	1280
<b>Order no.</b>		<b>13892</b>

For Multi G we offer this replacement kit also- containing support gravel plus Bewasorb S.

#### Refill Multi G

<b>Order no.</b>	<b>2-061117</b>
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## Multi AS

### HIGH EFFICIENCY REMOVAL OF ARSENIC

The Multi series offer the unmatched BWT quality standards, high removal efficiency, active automatic volume controlled filter with arsenic removal media – Bewasorb IXA. Line extension of the successful Multi-Filter range by a further multivalent. The BWT Multi AS removes arsenic, chlorine, colour, smell, organics and particles

**Technical specifications:** Nominal pressure 10 bar (145 psi), operating pressure 2–8 bar (29–116 psi), water-/ambient temperature, max 30/40 °C (86/104 °F), electrical connection 230 V/50 Hz, unit voltage 18 V.

Type Multilayer filter AS		2000	3000
Nominal connection width	DN	32 (1 1/4 ")	
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	bar/ psi	2–8 / 29–116	
Arsenic removal Capacity	mg	40,000	60,000
Height	mm	1080	1280
<b>Order no.</b>		<b>13887</b>	<b>13886</b>

Regarding filling material, BWT offers special replacement kits containing all different filter media's in the exactly quantity you will need to refill Multi AS 2000 and Multi AS 3000. Each kit contains in detail these filter media:

a) support gravel, b) Bewasorb K111 c) Bewasorb IXA filter media.  
We would strongly recommend to replace via replacement kit.

#### Refill Multi AS

<b>Order no.</b>	<b>2-061155</b>	<b>2-061156</b>
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### OPTIONAL CONNECTION EQUIPMENT

#### Multiblock X

Type Multiblock X	1"
<b>Order no.</b>	<b>30999</b>

#### Connection set DN 32/32

Type Connection set	DN 32/32
<b>Order no.</b>	<b>11877</b>



MULTI G

- High quality gravel filter media for poor water qualities
- For water with high loads of particles <15 µm
- Low pressure loss and high level performance



MULTI AS

- Multi AS – the range extension of the successful Multi-Family
- High efficient arsenic removal
- Filter Media Bewasorb IXA - Bewasorb K111



MULTI HM

- Multi HM – line extension of successful Multi-Family
- High efficiency heavy metal removal
- Filter Media Bewasorb IXN – Bewasorb K111



DE-IRONING & DE-MANGANIZATION FILTER ERF

## Multi HM

### HIGH EFFICIENCY HEAVY METAL REMOVAL

The HM series filters, a new BWT product for reliable removal of heavy metals (e.g. copper, nickel and lead), chlorine, colour, smell and organics. Highest BWT quality standards in combination with our new filter Media Bewasorb IXN. The filters are not suitable for oils, grease, solvents, soaps and other lubricating media.. These units are the perfect supplement to complete the BWT Multi Series.

**Technical specifications:** Nominal pressure 10 bar (145 psi), operating pressure 2–8 bar (29–116 psi) water-/ambient temperature, max. 30/40 °C (86/104 °F) electrical connection 230 V/50 Hz, unit voltage 18 V.

Type Multilayer filter HM		2000	3000
Nominal connection width	DN	32 (1 ¼ ")	
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	bar/ psi	2-8 / 29-116	
Heavy metal removal Capacity	mg	50,000	75,000
Height	mm	1080	1280
<b>Order no.</b>		<b>13885</b>	<b>13884</b>

Regarding filter material, BWT offers special replacement kits containing all different filter media's in the exactly quantity you will need to refill Multi HM 2000 and 3000. Each kit contains in detail this filter media:

a) support gravel b) Bewasorb K111 c) Bewasorb IXN

We would strongly recommend to replace via replacement kit.

#### Refill Multi HM

<b>Order no.</b>	<b>2-061209</b>	<b>2-061210</b>
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### OPTIONAL CONNECTION EQUIPMENT

#### Multiblock X

Type Multiblock X	1"
<b>Order no.</b>	<b>30999</b>

#### Connection set DN 32/32

Type Connection set	DN 32/32
<b>Order no.</b>	<b>11877</b>

## DE-IRONING & DE-MANGANIZATION FILTER ERF

**- PROFESSIONAL CONSULTATION IS REQUIRED FOR THE DESIGN OF THIS UNIT. DETAILED INSTALLATION SITE WATER ANALYSIS IS OBLIGATORY.**

The filter units of this range are used for the removal of iron in the building services application area. When used according to the instructions, pure water qualities of less than 0.5 mg/l iron and 0.2 mg/l manganese are achievable. Filter casing made of GFK with built in water distribution and attached central control valve. Including filter filling.

**Technical specifications:** Nominal pressure 8 bar (116 psi), water-/ambient temperature, max 30/40 °C (86/104 °F), electrical connection 230 V/50 Hz, unit voltage 24 V.

Type		ERF 1	ERF 2	ERF 3	ERF 5
Nominal connection width	DN	32	32	32	32
Flow performance max (depend. on Fe/Mn content)	approx. m <sup>3</sup> /h (gpm)	1.0 (4.4)	2.0 (8.8)	3.0 (13.2)	5.0 (22.0)
Filter casing Ø/height	mm	305/1500	405/1930	545/1880	615/2135
Process 1 Order no.		50134	50135	50136	50137
Process 2 Order no. with dosing + dosing unit for KMnO <sub>4</sub>		50134 +50958	50135 +50958	50136 +50958	50137 +50958
Process 3 Order number with oxidation air + compressor		50134 +50959	50135 +50959	50136 +50959	50137 +50959
+ oxidation connection 1/2" AG		+50960	+50960	+50960	+50960
+ automatic ventilation		+50956	+50956	+50956	+50956
<b>Order no.</b>		<b>50953</b>			

# POINT-OF-USE

100 PERCENT JOY FOR LIFE



1

## BWT THERO

Ultra compact cartridge reverse osmosis for commercial and domestic applications – to be installed under sink or counter top. 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.



2

## WODA-PURE

The BWT Woda-Pure series turns ordinary tap water into high quality drinking water. Get safe drinking water directly from the tap. Pure water free of particles odour, chlorine, bacteria, etc. at your home. Available also with Mg<sup>2+</sup> Mineralizer technology.



3

## PERMAQ® COMPACT

Ultra-compact RO product range of 60–180 l/h – for industry and domestic under 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.



4

## BWT BEWADES BLUE

BWT provides the ultimate in UV protection for your home with the inclusion of a true 254nm Teflon® based UV sensor that continuously monitors the performance of the UV system.

# Woda-Pure

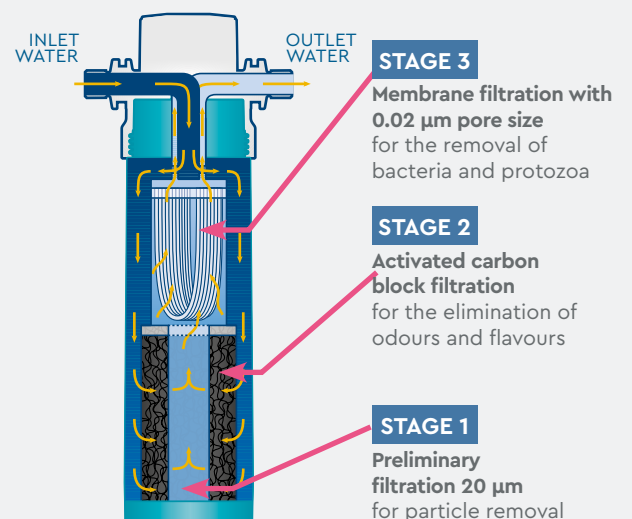
MODULAR HYGIENIC SYSTEM



## Clean and perfectly hygienic

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

- Pure water - free from particles, odour, chlorine, bacteria, etc.
- Innovative Mg<sup>2+</sup> Mineralizer technology for perfect coffee and tea
- Flexible solution - proven by experts



Woda- Pure S-CUF: 3-stage water filtration



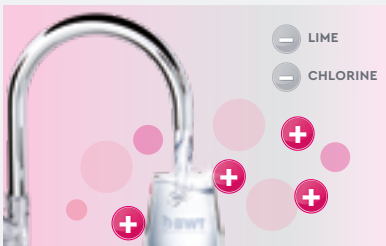
BWT WODA-PURE



1

### BACTERIA-FREE DRINKING WATER

BWT Ultra safe filtration technology removes pathogens and eliminates the 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 – perfect for you and your loved ones.



2

### ENJOY FILTERED WATER WITH MINERALS

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



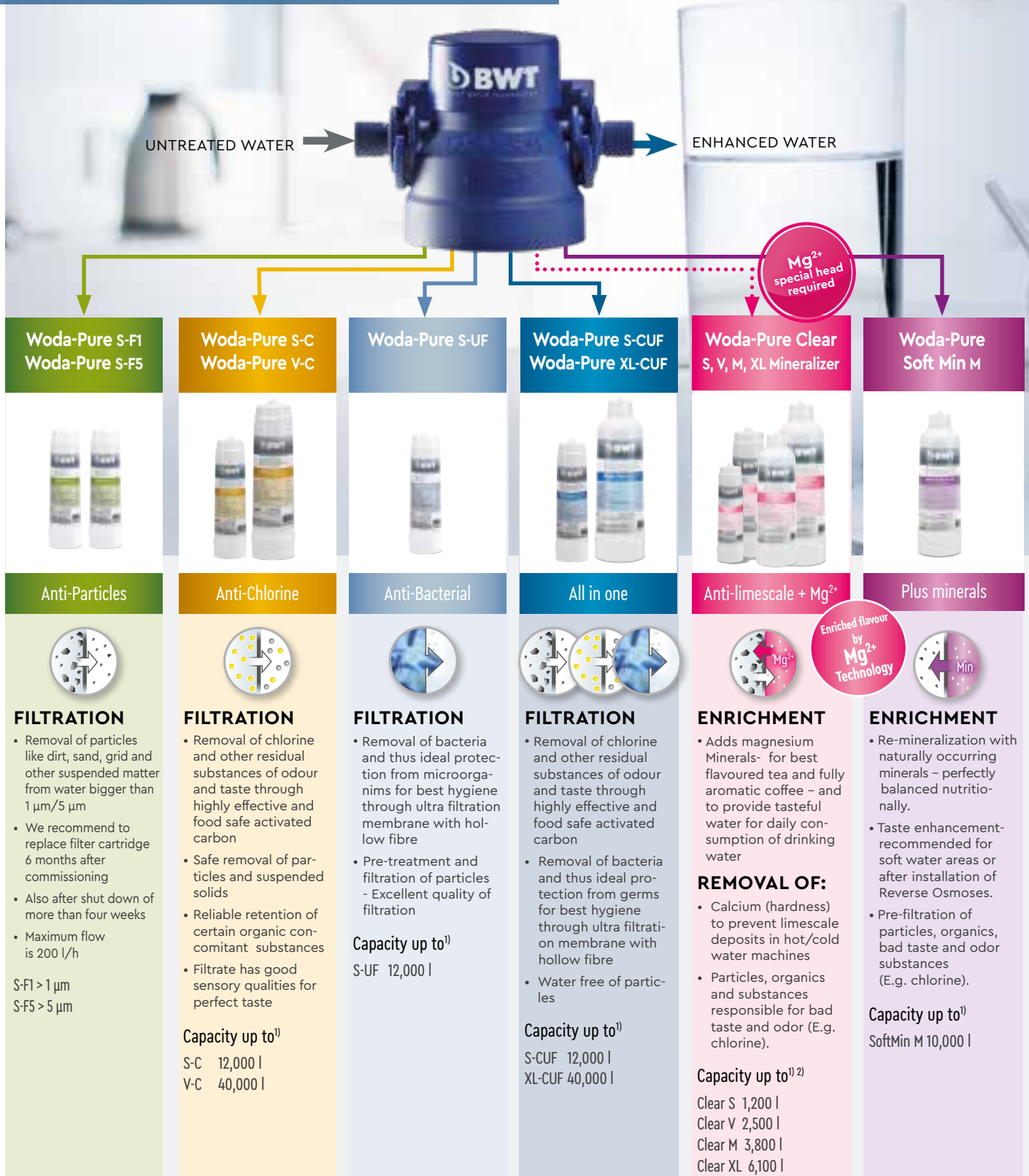
3

### MAGNESIUM MINERALIZED WATER

With BWT SoftMin you can always enjoy top quality water, regardless whether your water originates from a reservoir or a reverse osmoses system. The BWT Woda-Pure filter range can be installed easily below the sink to save space. In a combination of 1, 2 or 3 filter cartridges – equivalent to your individual water issues.

# Woda-Pure

MODULAR HYGIENIC SYSTEM



- 1) We recommend to replace filter cartridge 6 months after commissioning – 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 5µm or 1µm.
- 2) For Woda-Pure Clear a special filter head/Bypass is required. Capacity depends on water hardness.



### Woda-Pure Clear Mineralizer

Perfect for coffee, tea and daily drinking pleasure



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

## Technical data

Woda-Pure		S-F1	S-F5	S-C	S-UF	S-CUF	V-C	XL-CUF	S	MINERALIZER			SOFT MIN
		V	M	XL							M		
Overall height without fixture (A)	mm	360			420			502	360	420	475	502	475
Overall height with fixture (B)	mm	385			445			530	385	445	500	527	500
Connection height (C)	mm	310			366			450	306	366	421	448	421
Distance from bottle base (D)	mm	65											
Fitting length (E)	mm	125											
Filter Ø (F)	mm	88			110			150	88	110	130	147	130
Weight filter dry	kg	0.65	0.65	0.80	0.70	0.80	1.80	2.40	0,9	2.10	2.40	3.80	2.50
Connecting thread (inlet/outlet)	3/8"												
Capacity up to <sup>1) 2) 3)</sup>		-	-	12,000 l	12,000 l	12,000 l	40,000 l	40,000 l	1.200 l	2,500 l	3,800 l	6,100 l	10,000 l
Maximum flow rate		200 l/h						60 l/h			200 l/h		
Nominal pressure, min. – max.		2 – 8 bar (29–116 psi)											
Flow pressure		> 1.0 bar (14.5 psi)						> 1.2 bar (17.4 psi)			> 1.0 bar (14.5 psi)		
approx. pressure loss at 200 l/h		0.8 bar (11.6 psi)						0,6 bar	0.5 bar (7.25 psi)		1.3 bar (18.8 psi)		
Operating temperature water, min.		+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>12540</b>	<b>12560</b>	<b>12567</b>	<b>12568</b>	<b>12569</b>	<b>12563</b>
<b>Order No. Filter Head Wodapure</b>		<b>12533</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>	<b>12580</b>	-

- 1) Replacement of 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.
- 2) For Woda-Pure Clear a special filter head/Bypass is required. Capacity depends on water hardness.
- 3) Mineralizer capacity at 6 °dH

# BWT Connection Equipment

FOR QUICK AND EASY INSTALLATION







CONNECTION MODULE



CONNECTION MODULE DR



CONNECTION PIECE BASIC



CONNECTION PIECE HWS

## Connection module

For the rapid connection of water treatment units such as filters, softeners and dosing units. Can be installed horizontally or vertically. Top quality brass part, seal, union nut, locking ring, connecting union, nominal pressure PN 16.

Type		¾"	1"	1 ¼"
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>30012</b>	<b>30014</b>	<b>30020</b>

## Connection module DR / HWS

If you want a filter with pressure reducer, select the connection module DR.DVGW-/ soundproofed with integrated pressure reducer and pressure gauge. For rapid connection. 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		¾"	1"	1 ¼"
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>30016</b>	<b>30018</b>	<b>30022</b>

## Connection piece basic

For connection the 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		1 ½"	2"
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 connection the 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		1 ½"	2"
Nominal connection width	DN	40	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		1" (DN 25)	1 ¼" (DN 32)
Installation length	mm	122	122
Thread of the union nut		1 1/4"	1 1/2"
External thread		1 1/4"	1 1/2"
<b>Order no.</b>		<b>30002</b>	<b>30058</b>



BASIC MODULE

## 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		1" (DN 25)	1 ¼" (DN 32)
Installation length	mm	122	122
Thread of the union nut		1 1/4"	1 1/2"
External thread		1 1/4"	1 1/2"
<b>Order no.</b>		<b>30004</b>	<b>30060</b>



PRESSURE REDUCER MODULE

## HM double connection

The HydroModul double connection of two water treatment devices on one connection module or connection module DR. The HM double connection is used when a lack of space prevents the assembly of a second connection module.

Type	
<b>Order no.</b>	<b>30063</b>



HM DOUBLE CONNECTION

## HM cover

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

Type	
<b>Order no.</b>	<b>30996</b>



HM COVER

## HM module

### CLAMP WITH SCREW

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

Type		1"	1 ¼"
<b>Order no.</b>		<b>30980</b>	<b>30960</b>




HM MODULE CLAMP

# BWT Soft Water Technology

SILKY-SOFT BWT PEARL WATER





# BWT Pearl Water Systems

BEAUTY STARTS WITH WATER

## Silky-soft Pearl Water transforms your home into a wellness oasis

This is a modern symbiosis of functional limescale protection and a modern design with a real sensual quality – for the skin and the eyes. Soft water pampers you, it feels pleasantly soft on the skin. Every shower, every bath becomes a real pleasure. Soft water is also gentle

to everything it touches: Laundry washed in soft water feels fresh, clean and soft. Towels become cuddly, soft and fluffy. Cutlery and crockery are given a real shine. It is a striking design which catches the eye.

### *Advantages at a glance*

- **SAFELY PROTECT:** Pipes and, therefore, fittings, tiles, household appliances, kettles and boilers are effectively protected against limescale. This means lower energy consumption, a longer life span and long-lasting shine.
- **PRESERVE VALUE:** Less limescale is deposited in pipes so shower walls and other installations shine brightly for longer.
- **LOWER COSTS:** Reduced energy costs and less expenditure for washing detergents and cleaning agents relieves your household budget – and our environment.
- **SAVE TIME:** Cleaning takes considerably less time.
- **SIMPLY FEEL GOOD:** Silky smooth pearl water ensures soft skin, shiny hair and fluffy soft laundry.



1

### FOR INCREASED WELLBEING

Imagine turning on the tap and a gentle stream of silky-soft BWT Pearl Water pours forth, stroking your hand, feeling pleasantly soft. Every shower and bath becomes a wellness experience – with shiny hair and tender skin. BWT water softening systems will enhance your feeling of wellbeing in the bathroom.



2

### TO 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.



3

### FOR FLUFFY, CUDDLY LAUNDRY

Your weekly washes will become softer with silky-soft BWT Pearl Water – you can feel the difference. Softened water is kinder to your laundry, fabrics feel softer and colours last longer. Also less soap and detergents is needed – a benefit for sensitive babies or mature skin.

## Drinking water softeners

### SELECTION TABLE

DOMESTIC TECHNOLOGY



Type of device	AQA perla XL	AQA perla	AQA life
Duplex-system	■	■	■
Operation mode	alternating	alternating	alternating
DVGW certified	-	■	■
Special feature	safety PLUS package. touch-screen. hygieneflushing	safety PLUS package. touch-screen. hygieneflushing	alternating undersink mounting operation "
Accommodation units	4 – 8	1 – 4	1 – 2
Flow rate in m <sup>3</sup> /h (at 1 bar pressure drop) in accordance with EN 14743	1.60	1.80	1.80
Nominal capacity in accordance with EN 14743 m <sup>3</sup> ×dH (mol)	2 × 18 (2 × 3.2)	2 × 7 (2 × 1.1)	2 × 7 (2 × 1.1)
Salt consumption per regeneration	0.80 kg	0.25 kg	0.25 kg
Water consumption in L per regeneration at 4 bar water pressure liter	40	21	21
Height / Width / Depth (mm)	890 / 500 / 520	890 / 500 / 520	610 / 410 / 505
Overflow connection height of overflow hose	580 mm	580 mm	295 mm
Max. supply of regenerative	50 kg	50 kg	32 kg
Precision mineralisation	■	■	■
Salt-reserve indicator	■	■	-
Solar module	□	□	□
Direct input for metering units	■	■	■
Efficiency operation	■	■	■
Multi info touch display	■	■	-
Installer integration	■	■	-
AQA safe valve	■	■	■
Filter service reminder	■	■	-
Easy to service	■	■	■
<b>Order no.</b>	<b>11414</b>	<b>11345</b>	<b>11349</b>
Page	42	43	43

\*Non-binding guiding values

■ included

□ optional

- not available





Bewamat 75 A	Bewamat 25 A	BWT Perla silk	Aquadial softlife
-	-	-	-
intelligent	intelligent	intelligent	intelligent
-	-	-	-
high capacity system	-	economic solution for small residential units	economic solution for small residential units
3 - 4	1 - 2	1 - 4	1 - 4
1.80	1.40	1.44/1.56/1.68	1.44/1.56/1.68
75 (13.4)	25 (4.5)	26 - 75 (4.6 - 13.4)	26 - 75 (4.6 - 13.4)
3.50 kg	1.20 kg	1.5/2/3 kg	1.5/2/3 kg
128	55	85 - 145	85 - 145
1090 / 390 / 560	640 / 390 / 560	see page 50	see page 50
650 mm	280 mm		
50 kg	15 kg	12/16/24 kg	12/16/24 kg
-	-	-	-
-	-	-	-
■	■	-	-
-	-	-	-
■	■	-	-
-	-	-	-
-	-	-	-
-	-	-	-
■	■	■	■
<b>11325</b>	<b>11324</b>	<b>on request</b>	<b>11360/11361/11362</b>
46	46	49	47



AQA PERLA XL

- Soft Control – the intelligent operating system
- Multi-info touch screen for more operating comfort
- Smart metering – keeping an eye on consumption
- Precision mineralisation for or cost-effective regeneration
- Lower energy requirement (electronic mains device)

## AQA perla XL

FOR HIGH VOLUMES 24H/7DAYS

The AQA perla XL is developed for high flow operation and steadily high water consumptions. The system features a high capacity mode with an adapted salting rate for a significantly increased capacity – for steadily high water consumptions as seen in asian markets. Therefore, bigger resin bottles are used as in the standard model for an increased capacity.

The AQA perla XL is suitable for the softening of drinking and domestic water for the protection of water pipes and their fixtures and connection equipment, boilers, etc. against malfunctions and damage resulting from limescale deposits.

The AQA Perla XL is a duplex water softener based on the ion exchange principle. The system is operated with columns which permanently change at short intervals. On the one hand, this method ensures that soft water is also available during a regeneration process, while on the other hand the frequent column switches minimise stagnation times. Based on chemical and microbiological parameters, this method results in a significantly higher water quality than with conventional duplex softeners. Regeneration is triggered based on the volume of water.

AQA perla- duplex softener with soft control touch screen and intelligent brine suction  
Following new features are available now:

- The intelligent operating system soft control 3
- Multi- Info touch screen for more convenient operation
- Screen saver with contact e.g. plumber's telephone numbers
- Smart metering – consumption levels always in view
- Aqua-Watch-Alarm function for untypical water consumption

- USB connection for transfer to your consumption data
- Precision mineralisation for economic regeneration
- Low energy requirements thanks to the electronic power supply unit

### AQA Perla XL Duplex soft water system including

- 2 m rinsing water hose
- 2 m overrun hose 18 x 24
- AQUATEST hardness testing device

**Technical specifications:** Mains connection 230 V/50 Hz, nominal pressure PN 10, water / ambient temperature, max. 30/40 °C (86/104 °F).

Type AQA perla XL		
DVGW		-
Nominal connection width	DN	32 (G 1 1/4")
Nominal flow rate in m <sup>3</sup> (at 1 bar pressure drop) in accordance with EN 14743	m <sup>3</sup>	1.6
Nominal capacity according to EN 14743	m <sup>3</sup> x °d (mol)	2x18 (2x3,2)
Dimensions (H x W x D)	mm	890 x 500 x 520
Salt consumption per regeneration	kg	0.8
<b>Order no.</b>		<b>11414</b>

### OPTIONAL CONNECTION EQUIPMENT

## 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 bypass, so that maintenance work can be carried out without any problems.

Type Multiblock X	1"
<b>Order no.</b>	<b>30999</b>

## 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.

Type Connection set	DN 32/32
<b>Order no.</b>	<b>11877</b>

## AQA perla

### 24H/7DAYS SOFT WATER

AQA perla is suitable for the softening of drinking and domestic water (DIN 1988, parts 2 and 7), for the protection of water pipes and their fixtures and connection equipment, boilers, etc. against malfunctions and damage resulting from limescale deposits.

AQA Perla is a duplex water softener based on the ion exchange principle. The system is operated with columns which permanently change at short intervals. On the one hand, this method ensures that soft water is also available during a regeneration process, while on the other hand the frequent column switches minimise stagnation times. Based on chemical and microbiological parameters, this method results in a significantly higher water quality than with conventional duplex softeners. Regeneration is triggered based on the volume of water.

#### AQA perla- duplex softener with soft control touch screen and intelligent brine suction

##### Following new features are available now:

- The intelligent operating system soft control 3
- Multi- Info touch screen for more convenient operation
- Screen saver with contact e.g. plumber's telephone numbers
- Smart metering – consumption levels always in view
- Aqua-Watch-Alarm function for untypical water consumption

- USB connection for transfer to your consumption data
- Precision mineralisation for economic regeneration
- Low energy requirements thanks to the electronic power supply unit

#### AQA Perla Duplex soft water system including

- DN 32/32 connection set
- 2 m rinsing water hose
- 2 m overrun hose 18 × 24
- AQUATEST hardness testing device
- incl. Multiblock X

**Technical specifications:** Mains connection 230 V/50 Hz, nominal pressure PN 10, water / ambient temperature, max. 30/40 °C (86/104 °F).

Type AQA perla		
DVGW		Yes
Nominal connection width	DN	32 (G 1 1/4")
Nominal flow rate in m <sup>3</sup> (at 1 bar pressure drop) in accordance with EN 14743	m <sup>3</sup>	1.8
Nominal capacity according to EN 14743	m <sup>3</sup> x °d (mol)	2x7 (2x1,1)
Dimensions (H x W x D)	mm	890 × 500 × 520
Salt consumption per regeneration	kg	0.25
<b>Order no.</b>		<b>11345</b>

## AQA life

### COMPACT DUPLEX SOFTWATER UNIT

AQA life is a Duplex soft water unit for the smallest of spaces. AQA life operates with AQA perla technology, the heart of AQA life is the tried and -tested AQA perla valve.

Regeneration takes place in continuous current. By doing this, relatively higher capacities can be achieved using less regeneration medium and the regeneration water requirement is also minimised.

The control of the operation and regeneration is carried out with the easy-to-operate electronic control Soft-Control. Thanks to innovative precision mineralisation with electronic meter, an exact brine admeasurement with a high degree of reproducibility is ensured. The internal hydraulic as well as the alternating operating mode allow high flow rates. Simultaneously, the alternating operating mode guarantees optimal levels of hygiene.

#### AQA life Duplex soft water system including

- DN 32/32 connection set
- 2 m rinsing water hose
- 2 m overrun hose 18 × 24
- AQUATEST hardness testing device
- incl. Multiblock X

**Technical specifications:** Mains power supply 230 V/50 Hz, nominal pressure PN 10, operating pressure 2.5–8 bar (36–116 psi), water-/ambient temperature max. 30/40 °C (86/104 °F)

Type AQA life		
DVGW		Yes
Nominal connection width	DN	32 (G 1 1/4")
Nominal flow rate in m <sup>3</sup> (at 1 bar pressure drop) in accordance with EN 14743	m <sup>3</sup>	1.8
Nominal capacity according to EN 14743	m <sup>3</sup> x °d (mol)	2x7 (2x1,1)
Dimensions (H x W x D)	mm	610 × 410 × 505
Salt consumption per regeneration	kg	0.25
<b>Order no.</b>		<b>11349</b>



AQA PERLA

- Duplex unit
- Soft Control – the intelligent operating system
- Multi-info touch screen for more operating comfort
- Smart metering – keeping an eye on consumption
- Precision mineralisation for cost-effective regeneration
- Lower energy requirement (electronic mains device)
- Dosing unit can be retro-fitted easily at any time



AQA LIFE

- The most compact in its class
- Duplex unit
- Round the clock soft water
- With the most modern technology
- Low salt and water requirement
- With optional solar module suitable for solar heating

# BEWAMAT 25 A & 75 A

THE RUGGED BEST PERFORMERS



## *Save money with soft water:* Our high-performance units

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 and state-of-the-art*

Bewamat 25 A and 75 A with efficient operation and supply your entire household with wonderfully soft water.

- Consumption-controlled with automatic disinfection
- Individually adjustable water hardness level – completely in line with your needs
- With intelligent automatic regeneration that adapts to your wishes
- The valves and electronic components offer you state-of-the-art technology – that you can only get from BWT, Europe's leading water treatment company
- Our products are developed in accordance with European quality and authorisation standards, which are the strictest in the world and exceed the usual international standards



BEWAMAT 75 A & 25 A

### 1 SOFT WATER IS THE NEW LUXURY

Today's bathrooms are often private Wellness temples as well as kitchens turning to 'luxury objects'. Home owners are spending enormous sums on exclusive brands and design products. Installing BWT products – working 24/7 as 'hidden champions' in the background can prevent and help to maintain value and your investments.



### 2 SEE - FEEL AND ENJOY THE DIFFERENCE

Silky-soft BWT Pearl Water cares for your sensitive skin and hair in a wonderfully gentle way, turning showering and bathing into a wellness experience. Your loved ones will feel the difference of softer laundry, long lasting colours and less detergents.



### 3 RELIABLE PROTECTION WITH SOFT WATER

Soft water also means reliable limescale protection for your complete pipework and all connected appliances. The service life of washing machines, dishwashers, coffee machines and kettles, as well as the maintenance intervals of aerators, are extended significantly.





BEWAMAT 75 A



BEWAMAT 25 A

- 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 75 A

### INTELLIGENT QUANTITY-DEPENDENT REGENERATION

The unit is 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 system complies with all relevant national and international standards.

Type Bewamat 75A		
DVGW		-
Nominal connection width	DN	32 (G 1 1/4")
Nominal flow rate in m <sup>3</sup> (at 1 bar pressure drop) in accordance with EN 14743	m <sup>3</sup>	1.8
Nominal capacity according to EN 14743	m <sup>3</sup> x °d (mol)	75 (3.4)
Dimensions (H x W x D)	mm	1090 x 390 x 560
Salt consumption per regeneration	kg	3.50
<b>Order no.</b>		<b>11325</b>

## Bewamat 25 A

### INTELLIGENT QUANTITY-DEPENDENT REGENERATION

The unit is 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 system complies with all relevant national and international standards.

Type Bewamat 25A		
DVGW		-
Nominal connection width	DN	32 (G 1 1/4")
Nominal flow rate in (at 1 bar pressure drop) in accordance with EN 14743	m <sup>3</sup>	1.4
Nominal capacity according to EN 14743	m <sup>3</sup> x °d (mol)	25 (4.5)
Dimensions (H x W x D)	mm	640 x 390 x 560
Salt consumption per regeneration	kg	1.20
<b>Order no.</b>		<b>11324</b>

### OPTIONAL CONNECTION EQUIPMENT FOR BEWAMAT 75 A & 25 A

## 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 bypass, so that maintenance work can be carried out without any problems.

Type Multiblock X	1"
<b>Order no.</b>	<b>30999</b>

## 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.

Type Connection set	DN 32/32
<b>Order no.</b>	<b>11877</b>

## 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.

#### Technical features and special characteristics

- Able to operate under low pressure conditions (>1,5 bar)
- Compact design
- Solid design for high sediment conditions
- Smart computerized regeneration management for max. performance

Type Aquadial Softlife		10 Bio	15 Bio	25 Bio
DVGW		-	-	-
Nominal connection width	DN		20 (G 3/4")	
Nominal flow rate in (at 1 bar pressure drop) in accordance with EN 14743	m <sup>3</sup>	1.44	1.56	1.68
Nominal capacity according to EN 14743	m <sup>3</sup> x °d (mol)	26 (4.6)	43 (7.7)	75 (13.4)
Dimensions (W/D/H)	mm	270/480/532	270/480/602	270/480/804
Salt consumption per regeneration	kg	1.5	2.0	3.0
<b>Order no.</b>		<b>11360</b>	<b>11361</b>	<b>11362</b>

AQUADIAL Softlife Bio including electrolysis cell as a standard

**Please note:** AQUADIAL Softlife is delivered without connection equipment!



AQUADIAL SOFTLINE 10 BIO



AQUADIAL SOFTLINE 15 BIO



AQUADIAL SOFTLINE 25 BIO

# 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 complement today's busy lifestyles, and to deliver copious amounts of perfect softened water efficiently with very low levels of water and salt consumption.

### Main Features:

- Hardness regulation by BWT blending valve
- Automatic self disinfection
- Consumption-controlled with automatic disinfection
- Individually adjustable water hardness level – completely in line with your needs
- With intelligent automatic regeneration that adapts to your wishes
- Our valves and electronic components offer you state-of-the-art technology – that you can only get from BWT, Europe's leading water treatment company
- Our products are developed in accordance with European quality and authorisation standards, which are the strictest in the world and exceed the usual international standards

### 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



## BWT Perla silk

SMART ENABLED DOMESTIC WATER SOFTENER –  
THE PERFECT LIFESTYLE CHOICE

### Technical features and special characteristics

- Fully automatic operation and easy to use with new 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 overfilling

Type BWT Perla silk		10	15	25
DVGW		-	-	-
Nominal connection width	DN		20 (G 3/4")	
Nominal flow rate in (at 1 bar pressure drop) in accordance with EN 14743	m <sup>3</sup>	1.44	1.56	1.68
Nominal capacity according to EN 14743	m <sup>3</sup> x °d (mol)	26 (4.6)	43 (7.7)	75 (13.4)
Dimensions (W/D/H)	mm	270/480/532	270/480/602	270/480/804
Salt consumption per regeneration	kg	1.5	2.0	3.0
<b>Order no.</b>		<b>on request</b>	<b>on request</b>	<b>on request</b>

BWT Perla silk including electrolysis cell as a standard

**Please note:** BWT Perla silk is delivered without connection equipment!

### OPTIONAL CONNECTION EQUIPMENT

## 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 bypass, so that maintenance work can be carried out without any problems.

Type Multiblock X	1"
<b>Order no.</b>	<b>30999</b>



**BWT PERLA SILK 10**



**BWT PERLA SILK 15**



**BWT PERLA SILK 25**

## Drinking water softeners

### SELECTION TABLE

COMMERCIAL AND INDUSTRIAL TECHNOLOGY



Type of device	AQA perla Professional		Rondomat Duo S International	
	2	3	2	3
Duplex system	■	■	■	■
Operation mode	parallel		parallel	
DVGW certified	yes	yes	-	-
Special feature	HionEx			
Accommodation units*	6-11	11-25	6-11	11-25
Flow rate in m <sup>3</sup> /h (at 1 bar pressure drop) in accordance with EN 14743	3.5 m <sup>3</sup> /h	3.5 m <sup>3</sup> /h	3.5 m <sup>3</sup> /h	3.5 m <sup>3</sup> /h
Nominal capacity in accordance with EN 14743 m <sup>3</sup> ×dH (mol)	32 (5.6)	68 (12.0)	84 (15.2)	150 (27.0)
Salt consumption per regeneration	0.67	1.43	1.20	2.50
Water consumption per regeneration at 4 bar water pressure liter	80	125	60	80
Height / Width / Depth(mm)	1310/740/670	1530/790/700	1310/740/670	1530/790/700
Overflow connection height	560 mm	560 mm	560 mm	560 mm
Max. supply of regenerative	125 kg	125 kg	125 kg	125 kg
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 Nr.:	11394	11395	11410	11411
Page	52	52	52	52

■ included

□ optional

- not available



Rondomat Duo 2

Rondomat Duo 3

Rondomat Duo 6

Rondomat Duo 10

■	■	■	■
alternating	alternating	alternating	alternating
yes	yes	yes	yes
high performance	high performance	high performance	high performance
12-40	40-60	50-100	up to 200
2.0 m <sup>3</sup> /h	3.0 m <sup>3</sup> /h	6.0 m <sup>3</sup> /h	10.0 m <sup>3</sup> /h
36 (6.4)	96 (17.2)	250 (44,7)	360 (64,4)
1.44	3.40	8.00	12.50
75	140	350	440
880/1200/900 mm	1400/1200/900 mm	1650/1900/1200 mm	1550/2050/1200 mm
475 mm	475 mm	620 mm	620 mm
75 - 150 kg	75 - 150 kg	150-300 kg	150-300 kg
-	-	-	-
■	■	■	■
-	-	-	-
■	■	■	■
■	■	■	■
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
■	■	■	■
<b>11151</b>	<b>11152</b>	<b>11153</b>	<b>11154</b>
53	53	53	53



**AQA PERLA PROFESSIONAL 2 & 3**

- HionEx – Anorganic ion exchanger for maximum hygiene
- Parallel operation for minimal pressure loss and the highest level of availability
- Smart metering function with USB interface and evaluating software
- Integration of all BUS systems possible
- Efficient operation: Through precision salting and intelligent brine removal



**HIONEX**  
ANORGANIC ION EXCHANGER



**RONDOMAT DUO S INTERNATIONAL 2 & 3**

- Efficient operation: Through precision mineralisation and intelligent brine pumping
- Adapted flow switchover to top capacity or basic load pillar
- Smart metering function and evaluation software enables the optimisation of the operating conditions
- Integration in all BUS systems possible

**AQA perla Professional 2 & 3 – DVGW**

Quantity dependent controlled soft water Duplex unit, energy efficient touch screen panel control with smart metering function: Consumption log can be read on the device and via USB interface on a PC, potential-free connections, for CIB and network integration on request; electronic mixing; efficiency optimised regeneration. Scope of delivery: complete unit, hardness testing device.

**Technical data: AQA perla Professional**

Nominal pressure 10 bar, operating pressure 2 – 8.0 bar (29–116 psi), mains power supply 230 V/50–60 Hz, protection class IP 54, water/ambient temperature min-max. 5–30 °C/5–40 °C (41–86 °F / 41–104 °C)

Type AQA perla Professional		2	3
DVGW		Yes	
Nominal connection width	DN	32 (1 ¼" male thread)	
Nominal flow rate EN 14743	m³/h	3.5	3.5
Nominal capacity according to EN 14743	m³ x °d (mol)	2x16 (2x2.8)	2x34 (2x6.0)
Pressure loss at operating flow rate EN 14743	bar (psi)	0.5 (7.3)	0.9 (13.1)
Total height/ width/ depth	mm	1310/740/670	1530/790/700
<b>Order no.</b>		<b>11394</b>	<b>11395</b>

**Rondomat Duo S International 2 & 3**

Quantity dependent controlled soft water Duplex unit, energy efficient touch screen panel control with smart metering function: Consumption log can be read on the device and via USB interface on a PC, potential-free connections, for CIB and network integration on request; electronic mixing; efficiency optimised regeneration. Scope of delivery: complete unit, hardness testing device.

**Technical data: Rondomat Duo S International**

Nominal pressure 10 bar, operating pressure 2 – 8.0 bar (29–116 psi), mains power supply 230 V/50–60 Hz, protection class IP 54, water/ambient temperature min-max. 5–30 °C/5–40 °C (41–86 °F / 41–104 °C)

Type Rondomat Duo S International		2	3
DVGW		-	
Nominal connection width	DN	32 (1 ¼" male thread)	
Nominal flow rate EN 14743	m³/h	3.5	3.5
Nominal capacity according to EN 14743	m³ x °d (mol)	2x42 (2x7.6)	2x75 (2x13.5)
Pressure loss at operating flow rate EN 14743	bar (psi)	0.5 (7.3)	0.9 (13.1)
Total height/ width/ depth	mm	1310/740/670	1530/790/700
<b>Order no.</b>		<b>11410</b>	<b>11411</b>

**OPTIONAL CONNECTION EQUIPMENT**

FOR AQA PERLA PROFESSIONAL, RONDOMAT DUO S INTERNATIONAL, RONDOMAT DUO DVGW & RONDOMAT DUO I

Type	2	3	6	10
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**Univalve block**

Drinking water and industrial units

<b>Order no.</b>	<b>11821</b>	<b>11821</b>	<b>11822</b>	<b>11803</b>
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**Connection set drinking water**

Connection width	DN	40 / 32	40 / 32	50 / 50	50 / 50
<b>Order no.</b>		<b>11877</b>	<b>11877</b>	<b>11876</b>	<b>11876</b>

**Connection set Industry**

Connection width	DN	40 / 32	40 / 32	50 / 50	50 / 50
<b>Order no.</b>		<b>11832</b>	<b>11832</b>	<b>11929</b>	<b>11929</b>

## Rondomat 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.

### Technical specifications: Rondomat Duo – DVGW

Nominal pressure 10 bar, operating pressure 2.5 – 8.0 bar, flow pressure min. 2.5 bar, mains connection 230 V/50 – 60 Hz, safety class IP 54, water/ambient temperature, max. 25/30 °C for DVGW; 30/40 °C for industry.

Type Rondomat Duo		Type 2	Type 3	Type 6	Type 10
DVGW				Yes	
Nominal connection width	DN	32 ( 1" ¼ male )		50 ( 2" female )	
Nominal flow rate (at 1 bar pressure drop) in accordance with EN 14743	m³/h	2.0	3.0	6.0	10.0
Nominal capacity according to EN 14743	m³×d (mol)	2×18 (2×3.2)	2×48 (2×8.6)	2×125 (2×22.3)	2×180 (2×32.2)
Salt consumption per regeneration	kg	1.44	3.4	8.0	12.5
Total height	mm	880	880	1650	1550
Total depth	mm	900	900	1200	1200
Total width	mm	1200	1200	1900	2050
<b>Order no.</b>		<b>11151</b>	<b>11152</b>	<b>11153</b>	<b>11154</b>



RONDOMAT DUO 2 - 3



BWT RONDOMAT DUO TYPE 2 - Flow scheme

## INDUSTRIAL SOFTENER



RONDOMAT DUO I TYPE 10

### Rondomat Duo – I (industrial softener)

The ideal softener for use in the field of industrial service water.

Quantity dependent controlled duplex unit, without disinfection equipment, with soft water short cycle generator, intelligent control electronics with control head and control device with BMS-connection, individual setting of the raw water hardness at the press of a button, regeneration ends shortly before switching cycle, noticeable space-saving, integrated germ protection system, short and fast regeneration, optimal salt and flushing water consumption – irrespective of the prescribed water pressure.

Scope of delivery: complete unit, 5 m flushing water hose 13x2 and AQUATEST-hardness testing device.

#### Technical specifications: Rondomat Duo-I

Nominal pressure 10 bar, operating pressure 2.0 – 8.0 bar (29–116 psi), flow pressure min. 2.5 bar (36 psi), mains connection 230 V/50 – 60 Hz, safety class IP 54, water/ambient temperature, max. 25/30 °C for DVGW; 30/40 °C (86/104 °F) for industry.

Type Rondomat Duo I	Type 2	Type 3	Type 6	Type 10	
DVGW			–		
Nominal connection width	DN	32 (1 ¼" male )		50 ( 2" female )	
Nominal flow rate (at 1 bar pressure drop) in accordance with EN 14743	m³/h	2.0	3.0	6.0	10.0
Nominal capacity according to EN 14743	m³x°d (mol)	2x18 (2x3.2)	2x48 (2x8.6)	2x125 (2x22.3)	2x180 (2x32.2)
Salt consumption per regeneration	kg	1.44	3.4	8.0	12.5
Total height	mm	880	880	1650	1550
Total depth	mm	900	900	1200	1200
Total width	mm	1200	1200	1900	2050
<b>Order no.</b>		<b>11178</b>	<b>11179</b>	<b>11180</b>	<b>11181</b>

Rondomat DUO-I is without electrolysis cell

#### OPTIONAL CONNECTION EQUIPMENT

FOR AQU PERLA PROFESSIONAL, RONDOMAT DUO S INTERNATIONAL, RONDOMAT DUO DVGW & RONDOMAT DUO I

Type	2	3	6	10	
<b>Univalve block</b>					
Drinking water and industrial units					
<b>Order no.</b>	<b>11821*</b>	<b>11821</b>	<b>11822</b>	<b>11803</b>	
<b>Connection set drinking water</b>					
Connection width	DN	40 / 32	40 / 32	50 / 50	50 / 50
<b>Order no.</b>	<b>11877</b>	<b>11877</b>	<b>11876</b>	<b>11876</b>	
<b>Connection set Industry</b>					
Connection width	DN	40 / 32	40 / 32	50 / 50	50 / 50
<b>Order no.</b>	<b>11832</b>	<b>11832</b>	<b>11929</b>	<b>11929</b>	

\*Data refer to a raw water hardness of 20 °dH.

## Regeneration salt with hygienic effect

SANITABS and SANISAL are 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 or SANISAL. In this way, impurities and deposits in the softening system are removed alongside the regeneration.

In the last regeneration step, the flush, 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.



### SANITABS

Sanitabs were developed by BWT for the regeneration of water softeners in private households. SANITABS is a regeneration salt with an effective cleaning component in tablet form with impressive hygienic effect. In convenient 8 kg sacks.

Type Sanitabs	8 kg
Order no.	94241

### SANISAL FB

Sanisal FB was developed by BWT for the regeneration of water softeners in commercial situations. It conforms with the requirements of the food and beverage industry. High quantity available.

Type Sanisal FB	20 kg
Order no.	94242

### SANISAL H

Sanisal H was developed by BWT for the regeneration of water softeners in commercial situations. It conforms with the requirements for hospitals, schools and public buildings. For large consumptions.

Type Sanisal H	20 kg
Order no.	94243

### PERLA TABS / ASIA SPECIAL

#### REGENERATION TABS - STANDARD

Tablets in accordance DIN EN 973, 25 kg bag

Type	Regeneration tabs	ASIA SPECIAL Regeneration tabs
Order size	25 kg	40 bags x 25 kg/ Pallet
Order no.	94239	51953



SANITABS



SANISAL FB



SANISAL H



PERLA TABS



MULTIBLOCK MODULE GIT



OVERFLOW VALVE



SALT LACK INDICATOR



UNI-VALVE BLOCK



MULTIBLOCK X



AQA TEST

## Multiblock Module GIT

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

### Type Multiblock Module GIT

Maximum nominal diameter	DN	32
<b>Order no.</b>		<b>51969</b>

## Overflow valve

For installed flush valves or flood showers.

### Type Overflow valve

Connection pressure rating	DN	32
<b>Order no.</b>		<b>11980</b>

## Salt lack indicator

For Rndomat 50 - 300 Z / WZ /DWZ / E-DWZ

For installation into the sieve tray with indicator device for wall mounting.

### Type Salt lack indication

Maximum nominal diameter	DN	DN 25
<b>Order no.</b>		<b>11973</b>

## Uni-valve block

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

Type for Rndomat Duo	1/2/3	6	10
Maximum nominal diameter	DN 32	DN 50	DN 50
<b>Order no.</b>	<b>11821</b>	<b>11822</b>	<b>11803</b>

## 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.

Type Multiblock X	1"	1 1/4"
<b>Order no.</b>	<b>30999</b>	<b>31000</b>

## AQA test (pack of 10 pcs.)

Type	
<b>Order no.</b>	<b>18997E</b>



### Connection set DN 50 – Drinking water

2 flexible armoured hoses, length 800 mm, one side with cap nut 2", other side with male thread 2", including seals.

Type Connection set	DN 50
Nominal connection width	DN 50
Order no.	11876

### Connection set DN 50 – Industrial use

2 flexible armoured hoses, length 800 mm, one side with cap nut 2", other side with male thread 2", including seals.

Type Connection set	DN 50
Nominal connection width	DN 50
Order no.	11929

### GIT hose set DN 32/32

2 flexible armoured hoses with formed angles and DN 32 cap nuts on both ends, TÜV tested, with 4 seals, 1 m.

Type GIT hose set	DN 32/32
Order no.	11832

### 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.

Type Connection set	DN 32/32
Order no.	11877

### AQA stop including humidity sensor

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

Type		¾" female	1" female	1¼" female
Nominal connection width	DN	20	25	32
Nomial pressure	bar (psi)		0.5-10 (7.3 - 145)	
Order no.		11825	11826	11827

### 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 (1 1/4" + 3/4")

Type Bewasol	
Order no.	11808



CONNECTION SET  
DN 50 DRINKING WATER



CONNECTION SET  
DN 50 - GIT



GIT HOSE



CONNECTION SET  
DN 23/32 DRINKING WATER



AQA STOP



BEWASOL

## MULTIMAT BACKFLOW PREVENTOR

- 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 – 32

Type 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 (°F)		60 (140)	
Installation length	mm	260	280	370
<b>Order no.</b>		<b>11932</b>	<b>11933</b>	<b>11934</b>



MULTIMAT DN 40 - 50

### Multimat DN 40 – 80

Type Multimat	DN	40	50	65	80
Nominal pressure	PN (psi)		10 (14.5)		
Connection thread	R	1 1/2"	2"	flange connection according DIN	
Nominal pressure	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 (°F)		60 (140)		
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

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.

**Technical specifications:** operating pressure 0.1 – 8 bar (1.45 – 116 psi), operating temperature, max. 40 °C (104°F), automatic interval 0–99 min., indicator solution/analysis 0.09 cm<sup>3</sup>, electrical connection 230 V/50Hz, H/W/D 380/480/280 mm.



TESTOMAT 2000

Type Testomat	2000
<b>Order no.</b>	<b>11833</b>

## Indicator solution

FOR TESTOMAT 2000 500 ML

Type 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

Type 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>

## Internal pipe sealing by means of mineral substance dosing

Whenever water is taken off the DVGW-tested mineral dosing equipment Bewados E Modul releases less than 0.005 g (5 mg/l) per litre of the 'mineral substance combinations'. The mineral substance combinations react at the inner surface of the pipes and gradually build up a protective layer which separates the water from the tube (internal pipes sealing). Existing rust and deposits sources are sealed and neutralised. In this way corroded pipes are sanitised. In cases of formation of corrosive sludge, it is recommended that the installation is cleaned with BWT rinsing equipment first to ensure solid internal surfaces for the subsequent mineral substance dosing. BWT mineral dosing substance, used for 'internal pipe sealing', are 'mineral substance combinations' that are specially adjusted to take the individual water and material properties into account.

### Bewados Dosing units

Electronically controlled mineral substance dosing unit with integrated diagnostic system, coding switch, optical reserve display and optical/acoustical container change indication. Mounting is possible in pipes made of all materials in horizontally or vertically. Mineral F substance container is not included in the scope delivery.

**Technical specifications:** permanent flow rate about 50 % of the maximum flow rate, dosing starts at 30 l/h, dosing interval 0.53 l, operating pressure max. 10 bar, water and ambient temperature max. 25/30 °C, mains connection 230 V/50 Hz, power consumption 12 V/7 VA, safety class IP 41.

### Bewados E 3 Modul

Type Bewados		E 3 ¾"	E 3 1"
Nominal connection width	DN	20	25
Flow range	m³/h (gpm)	0.03–3.5 (0.13–15.4)	
Pressure drop for max flow rate	bar (psi)	0.8 (11.6)	
Container water treated per box	m³ (gal)	30 (7920)	
<b>Order no.</b>		<b>17041</b>	

### Bewados E 20 Modul

Type Bewados		E 20 1"	E 20 1 ¼"
Nominal connection width	DN	25	32
Flow range	m³/h (gpm)	0.03–5 (0.13–22.5)	
Pressure drop for max flow rate	bar (psi)	0.8 (11.6)	
Container water treated per box	m³ (gal)	200 (52 800)	
<b>Order no.</b>		<b>17042</b>	

Required connection module on Page 34

## For a long-term efficient solar system!

UPGRADE YOUR AQA PERLA, AQA LIFE AND BEWAMAT A SERIES - WITH THE AQA SOLAR MODUL

Anyone who already owns one of the above mentioned water softeners can now easily upgrade it with the AQA solar Modul. The module, which is directly connected to the soft water system, offers two different water qualities: on the one hand, it offers perfect water (1–4 °dH) for efficient solar heating. AQA perla or Bewamat also provides soft water in drinking water quality, water softened to 4–8 °dH, from a second outlet.

### CONNECTION MODULE FOR SOLAR SYSTEM

## AQA solar, connection module retro-fitting kit

FOR AQA PERLA, AQA LIFE, BEWAMAT 25 A & BEWAMAT 75 A

Module for upgrading the soft water systems AQA perla and Bewamat for operation with solar heating.

Solar connection module	
<b>Order no.</b>	<b>11807</b>



BEWADOS E3



BEWADOS E20



SOLAR CONNECTION MODULE



MEDOTRONIC® P



MEDOMAT® FP



SEEDING POINT MEDO®

### Dosing unit Medotronic® P

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). Technical data: Operating pressure 10 bar, pressure loss at max. Flow rate 0.8 bar, Mains connection 230 V / 50 Hz, water temperature max. 30 ° C, ambient temperature Max. 40 ° C.

Type Medotronic® P		20	30	110	180
Nominal connection width	DN	40	50	80	100
Operating pressure max.	bar	10	10	10	10
Working range	m³/h	0,1-20	0,1-30	0,6-75	0,8-90
Permissible continuous flow		100% of the max. flow rate			
Lower start-up limit	approx l/h	100	100	600	800
Dosing distance	l	2	5	10	10
Dosing tank Contents	l	60	100	100	200
amount of water to be treated per container filling	approx m³	460	770	770	1540
Installation length	mm	438	270	225	250
<b>Order no.</b>		<b>17012</b>	<b>17013</b>	<b>17014</b>	<b>17015</b>

### Dosing unit Medomat® FP

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).

**For all types:** Operating pressure 10/7 bar (145/101.5 psi), water/ ambient temperature max. 30/40 °C (86/104 °F), pump power can be continuously adjusted, mains connection 230 V/50 Hz.

Type Medotronic® FP		60	100	200
Dosing performance max.	l/h (gpm)	6 (0.03)	12 (0.05)	12 (0.05)
Dosing container contents	l (gal)	60 (15.8)	100 (26.4)	200 (52.8)
Operating pressure	bar (psi)	10 (145)	7 (101.5)	7 (101.5)
<b>Order no.</b>		<b>17069</b>	<b>17070</b>	<b>17071</b>

#### DOSING TECHNOLOGY COMPONENTS

### Cold water seeding point Medo®

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

Type	3/4"	1"	1 1/2"	2"	2 1/2"
	4 x 6	6 x 8,4	4 x 6	4 x 6	4 x 6
			bleedable		cleanable
<b>Order no.</b>	<b>17998</b>	<b>17997</b>	<b>17996</b>	<b>17923</b>	<b>57991</b>

### Alarm cable

For dosing pumps GC/GA 2m 4pole

Type	ALARM CABLE
<b>Order no.</b>	<b>17803</b>

### Signal cable

For dosing pumps GC/GA 2m 4pole

Type	SIGNAL CABLE
<b>Order no.</b>	<b>17804</b>

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

## COMPONENT: 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.
BWT CW-S 300	Ozone resistant hardness stabilizer, corrosion inhibitor	for open cooling systems	20 kg-canister	<b>18146</b>
RONDOPHOS KWN-2	Corrosion inhibitor and hardness stabilizer, contains zinc and phosphate	for open cooling systems	20 litre-canister	<b>18147</b>
BENAMIN D *	Chlorine based biocide	cooling circuit	20 litres	<b>58055</b>
BENAMIN Fresh	Hydrogen peroxide-based biocide		20 kg-canister	<b>87379</b>

## COMPONENT: DOSING ADDITIVES

Depending on the area of application, you can find the corresponding dosing active agent

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

Product-name	Treatment performance	Application	Container size	Order no.
RONDOPHOS PIK 5	Oxygen binding powder, non vapour volatile, catalyzed	for hot water and heating systems	10 kg-bucket	<b>18037</b>
RONDOPHOS PIK 5	Oxygen binding powder, non vapour volatile, catalyzed	for hot water and heating systems	20 litre-canister	<b>18058</b>
RONDOPHOS PIK 9	Oxygen binding powder, pH-increasing, reduces residual hardness, non vapour volatile	for hot water and heating systems	10 kg-bucket	<b>18038</b>
RONDOPHOS PIK 11	Oxygen binding powder, non vapour volatile, pH-decreasing, reduces residual hardness	for hot water and heating systems	10 kg-bucket	<b>18040</b>
RONDOPHOS PIK 40	Powder product to increase pH and reduce residual hardness, non vapour volatile	for hot water and heating systems	10 kg-bucket	<b>18043</b>
RONDOPHOS PIK 50	Powder product to reduce pH, non vapour volatile	for hot water and heating systems	10 kg-bucket	<b>18045</b>
BWT BW-PL 40	Liquid product to increase pH and reduce residual hardness	for heating systems	20 litre-canister	<b>18114</b>
BWT BW-PL 40	Liquid product to increase pH and reduce residual hardness	for heating systems	6 × 1 litre	<b>18130E</b>
BWT SH-7004	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 BOXMINERAL SUBSTANCE  
COMBINATION QUANTOPHOS®  
WITH GERM PROTECTIONMINERAL SUBSTANCE  
COMBINATION QUANTOPHOS®  
SOLD IN BAGS**MINERALS:****F, Cu<sup>2</sup>/CS**

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
<b>Order no.</b>	<b>18022E</b>	<b>18026E</b>	<b>18024E</b>	<b>18025E</b>

**Bewatubin**

Available in 20 l box.

Type Bewatubin	UNIVERSAL
<b>Order no.</b>	<b>58081</b>

**MINERALS: F + CU<sup>2</sup>/CS**

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

Quantophos®/Impulsan	F1	F2/FE	F3	F4	Cu <sup>2</sup> /CS
Packing unit	20-l	20-l	20-l	20-l	20-l-cani-
<b>Order no.</b>	<b>18027</b>	<b>18031</b>	<b>18029</b>	<b>18030</b>	<b>18032</b>
Packaging unit	10-l	10-l	10-l	10-l	
<b>Order no.</b>	<b>18091</b>	<b>18095</b>	<b>18093</b>	<b>18094</b>	

**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 × 1000g bag in cardboard box.

Type Quantophos®	P 1	P 2/ PE	P 3	P 4	CUP
<b>Order no.</b>	<b>18059E</b>	<b>18063E</b>	<b>18061E</b>	<b>18062E</b>	<b>18021E</b>

**GERM PROTECTION COMPONENT**

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

Type CC 1000 P	
<b>Order no.</b>	<b>18065</b>

**MINERAL SUBSTANCE COMBINATION QUANTOPHOS® P**

For large consumers 25 kg bags with plastic inliner.

Type Quantophos®	P 1	P 2/ PE	P 3	P 4
<b>Order no.</b>	<b>18011</b>	<b>18015</b>	<b>18013</b>	<b>18014</b>

## Mineral substance combinations / additives F / P / Cu2 / CuP

Area of application	Function		'Mineral substance' in the environmentally friendly Bag-in-Box
Total hardness of 1-7 °dH or 0.3 - 1.3 mol/m <sup>3</sup> Soft water or water with aggressive characteristics. Hardness range acc. WRMG: Soft	Formation of a protective layer in galvanised and already partially corroded galvanised pipes.		Mineral substance Quantophos® F 1 / P1
Total hardness of 7-14 °dH or 1.3 - 2.5 mol/m <sup>3</sup> Medium hard water or softened water with aggressive characteristics. Hardness range acc. to WRMG: Soft to medium	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 or 2.5 - 3.8 mol/m <sup>3</sup> Hard water. Hardness range acc. to WRMG: Hard	Formation of a protective layer and limescale protection in galvanised and already partially corroded galvanised pipes.		Mineral substance Quantophos® F 3 / P3
Total hardness of 14 -21 °dH or 2.5 - 3.8 mol/m <sup>3</sup> Hard water. Hardness range acc. to WRMG: Hard	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	<b>18997E</b>
Indicator sticks	pH 0 - 14	Various test and application areas of pH-value checking	10 × 100 pieces in a box	<b>18988E</b>
pH-value testing device	pH 1 - 11	Setting the alkaline treatment	Single piece	<b>18987</b>
<b>Cooling water</b>				
Aquatest hardness testing device	1 - 40 °dH	Determination of total hardness	10 pieces in a box	<b>18997E</b>
Indicator sticks	pH 0 - 14	Various test and application areas of pH-value checking	10 pieces in a box	<b>18988E</b>
pH-value testing device	pH 1 - 11	Setting the alkaline treatment	10 pieces in a box	<b>18987</b>

# BWT Limescale Protection

EFFICIENT CORROSION AND LIMESCALE PROTECTION





# 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 – New cartridge technology with disposable refill**

The completely new cartridge technology ensures optimal hygiene and simple handling when exchanging cartridges: Standardised cartridge-based con-

struction: always designed with HydroModul quick connection, so that the active unit can be separated quickly and easily from the device.

# AQA total Energy

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



## 1 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.

## 2 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.

## 3 EFFICIENT CORROSION PROTECTION

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

## 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



AQA TOTAL ENERGY 2500

- Optimum protection against limescale
- Efficient corrosion protection
- Drinking water rich in vital substances
- Made in Austria

### AQA total Energy 1500

**Scope of supply:** Compact unit with integrated electronic control and cartridge/refill system.  
**Technical specifications:** Nominal pressure PN 10 (145 psi), water/ambient temperature max. 30/40 °C (86/104 °F), mains connection 230 V/50 Hz, electrical power rating 60 W, power consumption 0.055 kWh/m<sup>3</sup>, enclosure type IP 54.

Typ AQA total Energy		1500
Nominal connection width	DN	25
Nominal connection		1" AG
Accommodation units		1
DVGW certified		yes
No. of unit moduls		1
Flow rate	l/h	1500
Total height	mm	1100
Total width	mm	320
Total depth	mm	200
<b>Order-No.</b>		<b>80007</b>

### AQA total Energy 2500

**Scope of supply:** Compact unit with integrated electronic control and cartridge/refill system, with connection set DN 32/32.

**Technical specifications:** Nominal pressure PN 10 (145 psi), water/ambient temperature max. 30/40°C (86/104°F), mains connection 230 V/50 Hz, electrical power rating 60 W, power consumption 0.055 kWh/m<sup>3</sup>, enclosure type IP 54.

Typ AQA total Energy		2500
Nominal connection width	DN	25
Nominal connection		1 1/4" AG
Accommodation units		2 - 4
DVGW certified		yes
No. of unit moduls		1
Flow rate	l/h	2500
Total height	mm	1130
Total width	mm	310
Total depth	mm	280
<b>Order-No.</b>		<b>80008</b>

**Connection equipment Multiblock X for AQA total Energy 2500 required – see page 56.**

### Cartridge refill

FOR AQA TOTAL ENERGY 1500 - 4500

**Technical specifications:** capacity 350 – 600 m<sup>3</sup> (1541 – 1761 gpm) about 3 years (depends on water quality and consumption).

Typ Cartridge-Refill AQA total Energy		1500 - 4500
<b>Order-No.</b>		<b>84130</b>

## AQA total Energy 4500

**Scope of delivery:** Wall-mounted compact unit with integrated, electronic control and cartridge / refill system. L= Flow direction from left to right, R= Flow direction from right to left. **Technical specifications:** Nominal pressure PN 10 (145 psi), water/ambient temperature max. 30/40 °C (86/104 °F), mains connection 230 V/50 Hz, electrical power rating 60 W, power consumption 0.055 kWh/m<sup>3</sup>, safety class IP 54.

Typ AQA total Energy		4500 L	4500 R
Nominal connection width	DN	40	40
Nominal connection		1 1/2" AG	1 1/2" AG
Accommodation units		5 - 12	5 - 12
DVGW certified		yes	yes
No. of unit moduls		2	2
Flow rate	l/h	4500	4500
Total height	mm	1105	1105
Total width	mm	320	320
Total depth	mm	320	320
<b>Order-No.</b>		<b>80009</b>	<b>80006</b>



### AQA TOTAL ENERGY 4500

- Optimum protection against limescale
- Efficient corrosion protection
- Drinking water rich in vital substances
- Made in Austria



### CARTRIDGE REFILL

## Cartridge refill

FOR AQA TOTAL ENERGY 1500 - 4500

**Technical specifications:** capacity 350 – 600 m<sup>3</sup> (1541 – 1761 gpm) about 3 years (depends on water quality and consumption).

Typ Cartridge-Refill AQA total Energy	1500 - 4500
<b>Order-No.</b>	<b>84130</b>

## AQA total Energy 5600 – 14000



AQA TOTAL ENERGY  
5600 - 14000

- Optimum protection against limescale
- Efficient corrosion protection
- Drinking water rich in vital substances
- Made in Austria



CARTRIDGE REFILL

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.

Connection for building automation (pre-warning in case of cartridge exchange and fault indication)

Control lamps on the fuse cabinet door.

**For all types:** Nominal pressure PN10 (145 psi), water/ambient temperature max. 30/40 °C (86/104 °F), mains connection 230 V/50 Hz, electrical power rating 60 W, power consumption 0.055 kWh/m<sup>3</sup>, safety class IP 54.

Type AQA total Energy		5600	8400	11200	14000
Nominal connection width	DN	40	40	50	50
Nominal connection		1 1/2" AG	1 1/2" AG	2" AG	2" AG
Accommodation units		13 – 18	19 – 24	25 – 36	30 – 50
DVGW certified		Yes			
No. of unit moduls		2	3	4	5
Flow rate	l/h	5600	8400	11200	14000
Total height	mm	1280	1280	1280	1280
Total width	mm	560	560	825	825
Total depth	mm	470	470	470	470
<b>Order-No.</b>		<b>80010</b>	<b>80011</b>	<b>80012</b>	<b>80013</b>

## Cartridge-Refill

### FOR AQA TOTAL ENERGY 5600 - 14000

With the new generation AQA total Energy, the cartridge replacement, which is required for hygienic reasons, is simplified. From now on, only the working unit, so-called cartridge refill, must be changed. This new cartridge refill for AQA total Energy ensures permanent constant efficiency, that means:

- phase 1 for limescale protection – through stabilisation of the lime particles in the water
- phase 2 for corrosion protection – through the natural formation of an effective protective coating
- phase 3 for vitality – through optimisation of magnesium and oxygen

**Technical specifications:** capacity 350 – 600 m<sup>3</sup> (1541 – 1761 gpm) about 3 years (depends on water quality and consumption).

Typ Cartridge-Refill AQA total Energy	5600 – 14000
<b>Order-No.</b>	<b>84131</b>

## AQA nano – Limescale protection

- **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.
- **Effective limescale protection up to 20 °dH**

### AQA nano

The alternative limescale protection system to prevent and avoid limescale deposits in pipes and boilers up to 20 °dH. Scope of delivery: Connection piece with integrated backwash preventer and connection threads in 1", packed ready for installation including mounting bracket and mounting materials (wall-plugs, screws). Suitable for installation in horizontal and vertical pipes.

Mains connection 230 V/50 Hz, water / ambient temperature, max. 30/40 °C (86/104 °F).

Type AQA nano		
Nominal connection width	DN	25
Nominal connection	AG	1"
Flow rate	l/h	1500
Limescale protection capacity to max. 20 °dH	m <sup>3</sup> /h	1,5
PN operating pressure	bar (psi)	16 (232.1)
Dimensions (H x W x D)	mm	710 x 300 x 220
<b>Order-No.</b>	<b>23301</b>	

### AQA nano

#### LIMESCALE PROTECTION UNIT

Type AQA nano	
<b>Order-No.</b>	<b>23937</b>

1 limescale protection unit and 1 pair hygiene gloves. Used limescale protection systems can be disposed of with domestic waste or recycled with plastics.



AQA NANO

- Optimum protection against limescale up to 20 °dH
- Efficient corrosion protection
- Drinking water rich in vital substances

# BWT Hygiene Management

THE BWT SAFETY CONCEPT





# BWT SAFETY FILTER

## LEGIONELLA PROTECTION IN SHOWERS AND BATHROOMS

Legionella are gram-negative, aerobic rod-shaped typically flagellated bacteria. Over 40 different species with over 60 serogroups are identified. The illness caused by Legionella bacteria is attributed to Legionella pneumophila serogroup 1. Infection is caused by inhalation of Legionella contaminated airborne water droplets or Legionella contaminated water by-passing the natural gag-reflexes and entering the lungs instead of the stomach.

### The two most common forms of illness are:

- Legionnaires' disease: a bacterial pneumonia. If the infection is not treated the mortality is up to 80 %, if it is treated the mortality is approximately 20 %.
- Pontiac fever: a milder, non-pneumonic, flu-like illness that does not require hospitalization. Legionella bacteria is not completely removed during drinking water treatment (drinking water is not sterile). At water temperature below 20 °C (68 °F) they can survive but not reproduce.

### Everybody can be affected by legionellosis but some people are more likely affected:

- stressed people
- athletes
- travellers
- elderly people (> 50 years)
- patients, especially those patients with suppressed immune system (HIV-patients, bone-marrow or organ transplant patients, sufferers)
- smokers
- people who consume a lot of alcohol
- people with lung diseases

### The optimum conditions for Legionella growth are:

- Water temperatures between 20 and 50 °C (68 and 122 °F) and a pH value between 5.0 and 8.5. Optimal growth occurs at water temperature between 35 and 45 °C (95 and 113 °F).
- Biofilms in water distribution systems. Legionella live and reproduce in protozoa e.g. amoeba. Other organisms living in biofilms supply Legionella with important nutrients.
- Presence of nutrients such as calcium, magnesium (limescale), iron and zinc compounds (corrosion products) and organic substances.

## Perfect solution for the health and care sector

The **BWT safety filter B-SAFE protects** against legionella. It was specially developed for showering and is mounted between the shower hose and sanitary fitting:

- It offers highly efficient protection against legionella bacteria.
- It filters even the finest particles out of the drinking water
- It is suitable for flow volumes of up to 800 l per hour.

When using the BWT safety filter B-Safe, you have the possibility to install an additional protective barrier against legionella. This retro-installable technology is just as cost-effective as it is efficient and contributes considerably to protecting one's health. The B-SAFE safety filter should not be employed as the only protection against legionella in shower water in the long-term. It is necessary to employ water treatment processes for 'the disinfection of warm water systems in addition to the B-SAFE safety filter. This will kill legionella in the whole water system. The B-SAFE safety filter is not suitable for installation in sterile areas in hospitals.

## B-SAFE

The B-SAFE filter is used for the removal of legionella, amoeba and other germs from the water at taps in showers and also bathrooms.

With contaminated hot water circulating systems the filter at the taps is used in addition to a disinfection procedure.

After the preliminary filtration, legionella, germs and amoeba are separated in the B-SAFE filter by means of a dead-end hollow fibre micro-filtration diaphragm. The micro-filtration diaphragm has a pore diameter of 0.02 µm, so that germs and amoeba are separated safely. A ball valve that is installed at the inflow of the filter prevents the regrowth of the systems pipework.

The peak flow rate through the filter is 800 l/h (3.52 gpm) at the maximum pressure of 6 bar (87 psi). The B-SAFE filter media has to be exchanged every 3–4 weeks.

Type B-SAFE	universal	
Placement	shower, bath	
Thread dimensions	1/2"	
Max. flow rate	l/h (gpm)	800 (3.52)
Max. system pressure	bar (psi)	6 (87)
Pressure drop, new filter at 800 l/h (3.52 gpm), approx.	bar (psi)	0.8 (11.6)
Max. water temperature	°C (°F)	65 (149)
Max. water temperature for short times (< 5 min.)	°C (°F)	80 (176)
Filter service time, max.	4 weeks	
<b>Order no.</b>	<b>23206E</b>	

NOTE: Loss of pressure increases as the operating period continues; replacement of the filter is necessary, if the loss of pressure is excessive, even when the recommended time is not exceeded.

NOTE: Generally dependent on the quality of the water; sand, rust and limescale particles, biofilm particles and other turbidity may lead to a shortening of the operational life.

### B-SAFE universal shower hose, short

Connection hose for the connection of the B-SAFE universal filter directly to the shower hose.

Type	B-SAFE universal shower hose, short	
Length	mm	250
<b>Order no.</b>	<b>23945</b>	



B-SAFE SAFETY FILTER



INSTALLATION EXAMPLE

# BEWADES UV SYSTEMS

SAFE AND HYGIENIC WATER



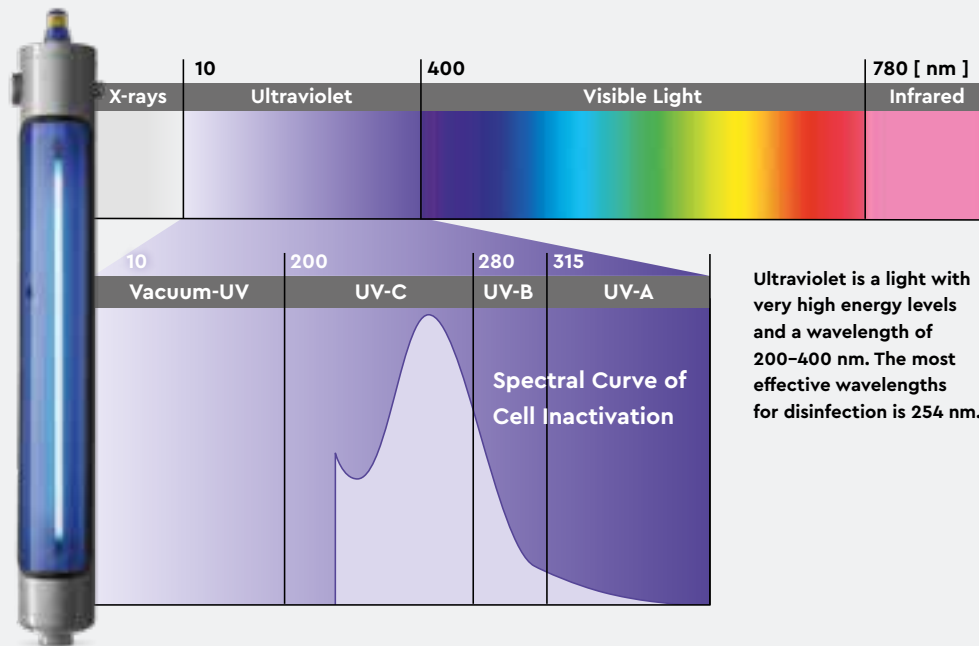
*Without chemicals*

## 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 pose 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  $400 \text{ J/m}^2$  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!





**1 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.



**2 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.



**3 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.



**4 PROCESS WATER**

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

**Bewades  
UV Systems**  
SELECTION TABLE



Type		Bewades blue	Bewades LC	Bewades N	Bewades T
		0.5 - 3.5	70W70/08 LC - 400W200/17 LC	80W80/11 N - 1080W270/50 N	80W80/14 N - 2100W350/41 N
<b>Description</b>		The ultimate in UV protection for your home – POE or POU	With all the features required by German DVGW for poor water qualities with low UV transmittance.	Certified disinfection performance confirmed by microbiological tests for all drinking water applications.	Certified drinking water disinfection for a broad field of applications.
<b>Nominal connection width</b>	DN	15 – 25	20 – 80	32 – 200	50 – 250
<b>Maximum flow rate *</b>	m <sup>3</sup> /h	0.5 – 3.5	2.4 – 38	4.0 – 251	5.9 – 342,10
<b>Generated amount of ozone</b>	mg/h	–	–	–	–
<b>Max. operating pressure</b>	bar	10	10	10	10/16
<b>Expected lamp life (depends on operating conditions)</b>	h	9,000	12,000	12,000	12,000
<b>Connection power</b>	Watt	20 – 51	75 – 450	80 – 1130	110-2455
<b>Number of UV lamps</b>		1	1 – 2	1 – 4	1-6
<b>Page</b>		80	82	82	83

\* @ T100 =70% UVT, 400J/m<sup>2</sup>, End of lamplife      – not available



Bewades HI	Bewades HP	BWT RO <sub>3</sub> UV	Bewades MQ
<b>70W70/08 HI – 2000W200/40 HI</b>	<b>400W200/17 HP – 800W200/22 HP</b>	<b>10 – 50</b>	<b>400–8000 MQ</b>
Reactor design taken from the Bewades N series and reduced to the essential features: Simplicity, Robustness and Reliability for all areas of water disinfection.	Enforced construction for high pressure applications up to 25 bar – E.g. high-rise buildings	2 in one solution: rack mounted unit combining two disinfection technologies UV and ozone	For perfect pool water without the typical chlorine smell and any eye or skin irritation
20 – 200	80 – 125	40	80 – 300
2.4 – 328	38 – 90	2–10	24 – 1122
–	–	400–2,000	–
10	25	10	10
12,000	12,000	12,000	8,000
100 – 2100	450 – 850	205	450 – 8,050
1 – 10	2- 4	1	1 – 4
86	86	87	87

# 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 source 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 PoU or PoE!**

### Technical specifications:

- Future proof expandability for future upgrades & options
- Axial flow polished reactor, designed & 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
Nominal connection width		1/2"	3/4"	3/4"	1"	1"
Max. flow rate [400 J/m <sup>2</sup> ] @T <sub>10</sub> =95%	m <sup>3</sup> /h	0.5	1.0	2.0	2.5	3.5
Lamp Power	W	15	22	39	50	42
Connection power	W	20	30	49	62	51
Reactor dimensions	mm	64×364	64×542	64×895	64×1016	89×917
Expected lamp service life*	h	9,000				
Controler dimensions	mm	172×92×102				
Operating pressure min./max.	bar	0.7/10.0				
<b>Order no. basic unit</b>		<b>23391</b>	<b>23392</b>	<b>23393</b>	<b>23394</b>	<b>23395</b>
<b>Order no. option: sensor</b>		<b>23850</b>	<b>23850</b>	<b>23850</b>	<b>23850</b>	<b>23851</b>

\*depends on operating conditions



Available for PoU<sup>1</sup> and PoE<sup>2</sup>



BEWADES BLUE



BEWADES BLUE  
Control unit

Economical  
& Reliable  
Water Hygiene



BEWADES LC

Certified  
Premium  
Water Quality



BEWADES N

## 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	100W100/11LC	200W200/11LC	400W200/17 LC
Nominal connection width	DN	20	50	50	80
Max. volume flow 400 J/m <sup>2</sup> at T <sub>100</sub> = 70 %	m <sup>3</sup> /h	2.4	6.8	13	38
Max. operating pressure	bar	10			
Expected lamp service life*	h	12,000			
Connection power	W	90	110	220	450
Number of UV lamps		1	1	1	2
<b>Order no.</b>		<b>23374</b>	<b>23085</b>	<b>23059</b>	<b>23346</b>

## Bewades N

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

### Technical specifications:

- According to the stringent, internationally recognized standards of the German Technical and Scientific Association for Gas and Water (DVGW)
- 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

Type Bewades N		80W80/11N	200W200/11N	390W130/22N	600W200/22N
Nominal connection width	DN	32	50	80	80
Max. volume flow 400 J/m <sup>2</sup> at T <sub>100</sub> = 80 %	m <sup>3</sup> /h	4	8.5	24	57
Max. operating pressure	bar	10			
Expected lamp service life*	h	12,000			
Connection power	W	180	220	450	650
Number of UV lamps		1	1	3	3
<b>Order no.</b>		<b>23282</b>	<b>23283</b>	<b>23288</b>	<b>23343</b>

Type Bewades N		200W200/17N	390W130/27N	810W270/40N	1080W270/50N
Nominal connection width	DN	50	80	150	200
Max. volume flow 400 J/m <sup>2</sup> at T <sub>100</sub> = 80 %	m <sup>3</sup> /h	16.7	47.8	181.9	251
Max. operating pressure	bar	10			
Expected lamp service life*	h	12,000			
Connection power	W	220	450	850	1130
Number of UV lamps		1	3	3	4
<b>Order no.</b>		<b>23353</b>	<b>23354</b>	<b>23289</b>	<b>23299</b>

\*depends on operating conditions

## Bewades T

Certified drinking water disinfection and state of the art technology. Bewades T for a broad field of applications for efficient, safe and chemical-free water disinfection.

### Technical specifications:

- Unique dynamic lamp heating adjusts the lamp output in seconds and provides for optimum disinfection even 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
- User-friendly and intuitive control for the display of operating statuses and adjustment of operating parameters
- 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
Nominal connection width	DN	50	80	100	150
Max. volume flow 400 J/m <sup>2</sup> at T <sub>100</sub> = 70 %	m <sup>3</sup> /h	5.9	21.8	37.9	93.5
Max. operating pressure	bar		10		10/16
Expected lamp service life*	h		12,000		
Connection power	W	110	310	430	835
Number of UV lamps		1	1	1	2
<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
Nominal connection width	DN	150	200	200	250
Max. volume flow 400 J/m <sup>2</sup> at T <sub>100</sub> = 70 %	m <sup>3</sup> /h	71.1	148.4	210.4	342.1
Max. operating pressure	bar		10/16		
Expected lamp service life*	h		12,000		
Connection power	W	825	1240	1645	2455
Number of UV lamps		3	3	4	6
<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>

\*depends on operating conditions



BEWADES T

# 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 even just inhaling water while showering or brushing teeth contaminated with pathogens or bacteria.

### **What happens in a Roof top tank? Three factors can cause problems**

Formerly clean water becomes unable for drinking. Dangerous germs, such as legionella can multiply themselves over time and the water transports them to the PoU.

**Stagnation:** Particles that are carried with the water settle in the tank. A perfect breeding ground for microorganism. 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

## BWT 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.



BWT RO<sub>3</sub>UV



1

### COST-EFFECTIVE AND UNPROBLEMATIC

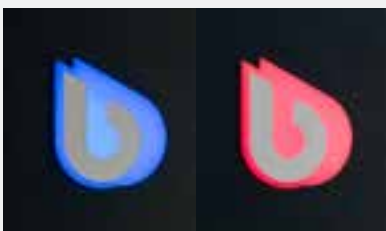
BWT RO<sub>3</sub>UV consumes only little power and wastes no water. No annoying handling or storage of chemicals is required, as Ozone is produced safely in the unit on demand. The unit is quickly installed by connecting the water inlet and outlet connection and power.



2

### VERSATILE AND EFFICIENT

BWT 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 3,000 times faster than chlorine as a bactericide. This though without creating any hazardous disinfection by products, but keeping the water naturally clean.



3

### RELIABLE AND EASY

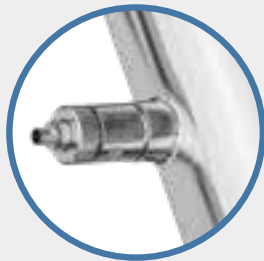
BWT RO<sub>3</sub>UV works automatically and unattended and provides you 24/7 with safe and healthy water for your home – and that basically maintenance free: only an annual service is needed. In operation the status of the unit is shown at a quick glance by the color of the illuminated BWT drop.



High intensity  
UV for poor  
water qualities



BEWADES HI



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



Reinforced design  
for up to 25 bar



BEWADES HP

## 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
Nominal connection width	DN	20	80	125	125	150
Max. volume flow 400 J/ m <sup>2</sup> at T <sub>100</sub> = 70 %	m <sup>3</sup> /h	2.4	38	90	109	158
Max. operating pressure	bar	10				
Expected lamp service life*	h	12,000				
Connection power	W	100	450	850	1100	1300
Number of UV lamps		1	2	4	5	6
<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
Nominal connection width	DN	150	200	200	200
Max. volume flow 400 J/ m <sup>2</sup> at T <sub>100</sub> = 70 %	m <sup>3</sup> /h	207	248	276	328
Max. operating pressure	bar	10			
Expected lamp service life*	h	12,000			
Connection power	W	1500	1700	1900	2100
Number of UV lamps		7	8	9	10
<b>Order no.</b>		<b>23055</b>	<b>23056</b>	<b>23057</b>	<b>23058</b>

## 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
- Meets all requirements of National Standard of Republic of China

Type Bewades HP		400W200/17HP	600W200/22HP	800W200/22HP
Nominal connection width	DN	80	100	125
Max. volume flow 400 J/m <sup>2</sup> at T <sub>100</sub> = 70 %	m <sup>3</sup> /h	38	65	90
Max. operating pressure	bar	25		
Expected lamp service life*	h	12,000		
Connection power	W	450	650	850
Number of UV lamps		2	3	4
<b>Order no.</b>		<b>23367</b>	<b>23368</b>	<b>23369</b>

\*depends on operating conditions

Subject to alterations and errors excepted

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

The most effective teamwork of two technologies: Ozone and UV

### Technical specifications:

- 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 or upgradable by an **optional** rack for freestanding installations

Type BWT RO <sub>3</sub> UV		10	25	50
Nominal connection width	DN	40	40	40
Max. flow over system				
Quick status feedback via the color of the illuminated BWT drop	m <sup>3</sup> /h	2	5	10
General amount of ozone	mg O <sub>3</sub> /h	400	1000	2000
Max. operating pressure	bar		10	
Expected lamp service life*	h		12,000	
Connection power	W	250	180	250
Number of UV lamps		1	1	1
<b>Order no.</b>		<b>on request</b>	<b>on request</b>	<b>on request</b>

## Bewades MQ

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

### Technical specifications:

- 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	
Nominal connection width	DN	80 - 300
Max. volume flow 400 J/m <sup>2</sup> at T <sub>100</sub> = 70 %	m <sup>3</sup> /h	24 - 1,122
Max. operating pressure	bar	10
Expected lamp service life*	h	8,000
Connection power	W	450 - 8,050
Number of UV lamps		1-4
<b>Order no.</b>		<b>on request</b>

Also available as cost effective basic version Bewades MQ.LC. Further information on request.

\*depends on operating conditions

Hygiene and safety for your storage tank



BWT RO<sub>3</sub> UV

Pure 'spring' water for your pool



BEWADES MQ

# BWT Special Programme

RO SYSTEMS & DESCALING UNITS





# 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.

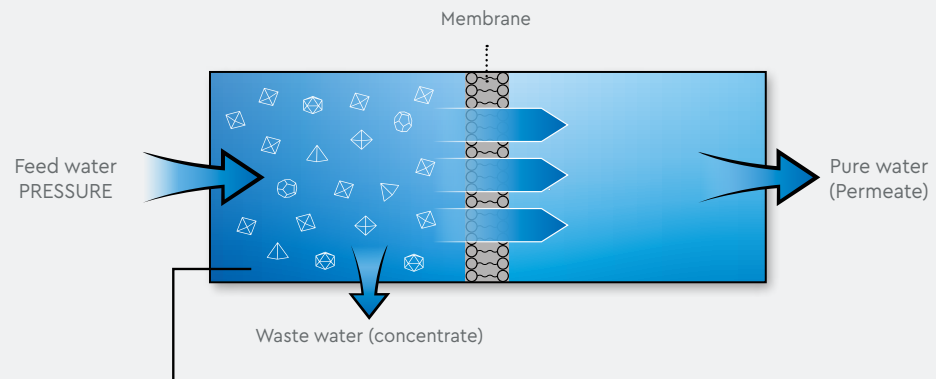
Pure water molecules can pass through this without problems due to their molecular size. Dissolved salts, such as nitrates, sulphates and

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.



Dissolved substances such as nitrate, sulphate, chloride, heavy metals, microorganisms, etc

### 1 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.



### 2 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).



### 3 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.



### 4 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.



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

- Technically high value with high performance membranes (salt retention rate >97 %)
- Interval flush for optimised hygiene
- Integrated high precision mixing valve

**PERMAQ® Pico**

REVERSE OSMOSIS

Ultra-compact operation through integrated dead volume-free connection technology type 10-90, suitable for „under table“ installation, "online" operation possible as an option.

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**

Type		10	20	30	40	50
Permeate output in l/h	l/h					
online (at approx. 3.0 bar counterpressure)		140	200	280	450	900
Permeate output in l/h	l/h					
offline (free flow)		180	270	440	580	1,150
Permeate recovery	%	80				
Salt retention rate	%	98				
<b>Order-no. Online</b>		<b>13043</b>	<b>13044</b>	<b>13045</b>	<b>13046</b>	<b>13047</b>
<b>Order-no. Offline</b>		<b>13050</b>	<b>13051</b>	<b>13052</b>	<b>13053</b>	<b>13054</b>
Type		AS dosing unit				
<b>Order-no.</b>		<b>13914</b>				

Note: Feed water 0 °dH

Type		60	70	80	90
Permeate output in l/h	l/h				
online (at approx. 3.0 bar counterpressure)		1,300	1,500	1,750	2,100
Permeate output in l/h	l/h				
offline (free flow)		1,620	1,950	2,160	2,520
Permeate recovery	%	80			
Salt retention rate	%	98			
<b>Order-no. Online</b>		<b>13048</b>	<b>13049</b>	<b>13222</b>	<b>13223</b>
<b>Order-no. Offline</b>		<b>13055</b>	<b>13056</b>	<b>13220</b>	<b>13221</b>
Type		AS dosing unit			
<b>Order-no.</b>		<b>13914</b>			

Note: Feed water 0 °dH

Feed water in drinking water quality of 15 °C, TDS ≤ 1,000 mg/l, SDI ≤3 %, Oxidants ≤ 0.05 mg/l inlet pressure 2.5 bar.

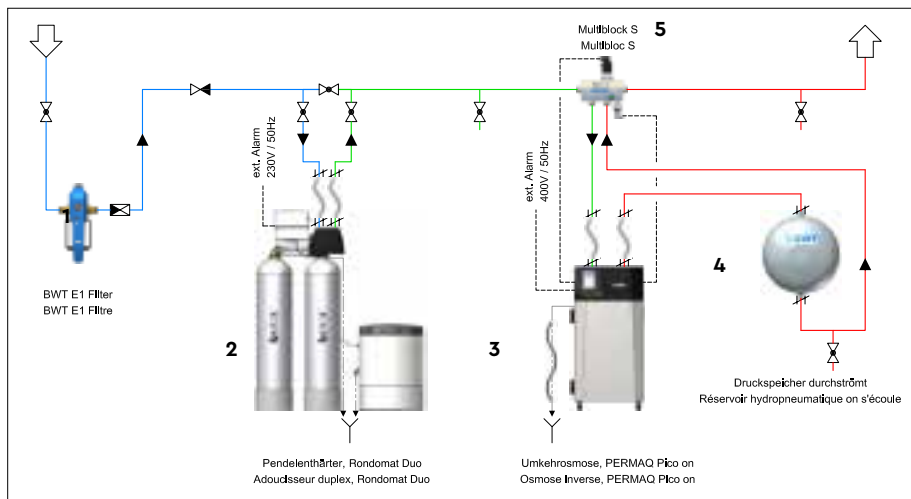
**ON REQUEST:**

**PERMAQ® PICO VARIO**

The PERMAQ® Pico Vario does not need a membrane pressure tank for permeate and is designed for a direct connection to one or several point-of-use.

- The pressure tank is history! -

## PERMAQ® – Reverse Osmosis

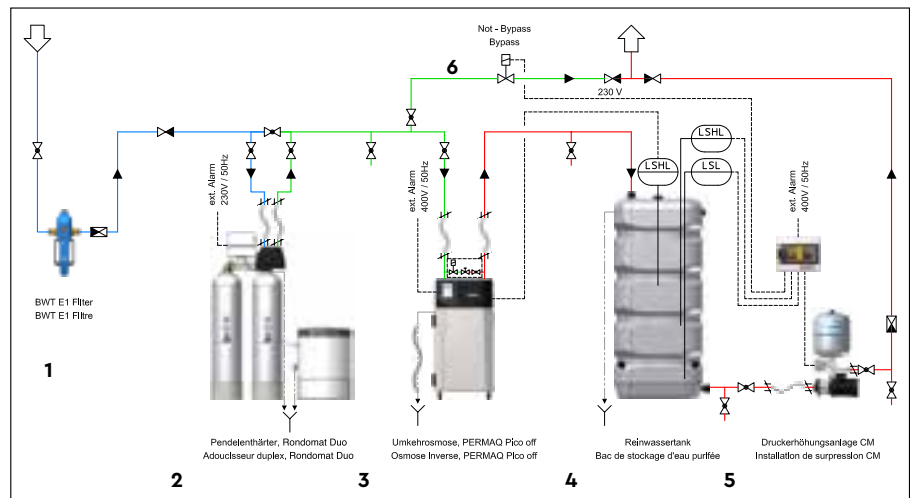


### PERMAQ® Pico in online mode

- 1 Filter
- 2 Softener
- 3 Reverse osmosis
- 4 Pressure storage tank
- 5 Multiblock with built-in bypass

### PERMAQ® Pico in offline mode

- 1 Filter
- 2 Softener
- 3 Reverse osmosis
- 4 Tank
- 5 Pressure increase
- 6 Bypass valve



REQUIRED FOR ONLINE OPERATION:

### Multiblock S4

Type	Multiblock S4
Order no.	13913

### Pressure tank

Type	35L	50 L	80 L	140 L	200 L	300 L	400 L
Order no.	13958	13957	13956	13955	13954	13953	13952

### PERMAQ® Pro S

The ultra-compact unit for more performance

Type	6 S	7 S	8 S
Permeate volume in l/h	4000	5500	6500
Permeate recovery, approx. %		75	
Salt retention rate %		98	
Length (mm)	1200	1200	1200
Depth (mm)	720	720	720
Height (mm)	1480	2630	2630
Order no.	13057	13058	13059

The values apply under the following conditions: Water temperature 15 °C, Salt content as NaCl max. 1,000 ppm – inlet pressure 4.0 bar (psi17.6)

More large systems and compact models – on request.





BWT THERO

- A new generation of RO – developed by BWT
- Excellent water purifying system with an output of up to 120 l/h for domestic applications
- Core element of the BWT Thero is a cartridge RO – easiest replacement
- Minimum foot print – very compact
- High-grade aluminum housing



PERMAQ® COMPACT 2-6

- Ultra-compact RO product range of 60 - 180 l/h
- Technically high value with high performance membranes (salt retention rate >97 %)
- Interval flush for optimised hygiene
- Integrated high precision mixing valve
- Applicable with or without pressure tank
- Easy to use

## BWT Thero

Ultra compact cartridge reverse osmosis 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		BWT Thero
Nominal capacity (output flow rate)	l/min; (l/h)	2.0 l/min; (120l/h)
Salt retention rate	%	>96
Permeate output/yield (WCF)	%	approx. 50
Feed water pressure	MPa; (bar)	0.2...0.4 MPa ; (2.0 ...4.0 bar)
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	200 / <3
Standard connector		Socket IEC-320
Feed water, permeate, concentrate connection	inch	¾" M; ¼" JG; ¼" JG
Dimensions (W x D x H)	mm	152 x 254 x 508
Weight	kg	12.8
<b>Order no.</b>		<b>12827</b>

## PERMAQ® compact 2-6

NEW ULTRA-COMPACT SYSTEMS - FOR GREAT PERFORMANCES

New: Ultra-compact RO product range of 60-180l/h – for industry and domestic under 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. Integrated high precision mixing valve allows individual adjustment – suitable for different applications of requested pure water quality . Easy to use and control via the display (plug and play). Applicable with or without pressure tank

Type		2	4	6
Nominal capacity (max. permeate)	l/h	60	120	180
Salt retention rate (max.)	%	> 97	> 97	> 97
Standard WCF @ 15°C	%	40	40	40
Electrical power consumption (operation/stand-by)	W	375 / < 3	390 / < 3	405 / < 3
Dimensions: Width x depth x height	mm	230x250x380	230x335x380	230x425x380
Weight	kg	17	21	24
<b>Order no.</b>		<b>12822</b>	<b>12824</b>	<b>12826</b>

## Pressure tank

Scope of application: Online operating of reverse osmosis

Type Pressure tank		
Container volume	l	11
Connection of water hoses flexible	inch/mm	3/8" – AG / 8mm
Dimensions	mm	245 x 355
<b>Order no.</b>		<b>12852</b>

## Connection Set

Scope of application: Flexible and safe connection – easy to install. This professional BWT connection set is customized to the interfaces of the BWT RO compact series.

Type for Compact ROs Connection-Set 2		
	Hose type / length	Connection adapter
<b>Feed water</b>	stainless steel flex tubes DN 10, L= 1,500 mm	2 x ¾" UN (union nut)
<b>Permeate</b>	stainless steel flex tubes DN 10, L= 1,500 mm	¾" UN (union nut) Ø 8 mm plug connector
<b>Concentrate</b>	PE, Ø 8x1 mm, black, L = 3,000 mm	Ø 8 mm plug connector
<b>Order no.</b>		<b>12762</b>

## Filter element 5 µm

Type	40 – 80	150 – 1000 / 40 k – 80 k	PERMAQ® Pro
Order no.	13971	13999	53986

## Filter element 5 µm

Type	Profil, Profil AS, PERMAQ pico 10-40
Order no.	53985

## Permeate storage container

**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> (gpm)	0.4 (1.76)	0.95 (1.76)	1.75 (7.7)	2.75 (12.1)	3.7 (16.28)
Length	mm	880	1500	2110	2330	2540
Width	mm	770	750	750	1010	1010
Total height	mm	1450	1600	1900	1860	2150
Order no.		13966	13967	13968	13930	13931

## Removal fitting for permeate tank

Type	for A 500	for A 1100 – 4000
Order no.	13963	13964

## Aquaris RM

Highly effective cleaning substance, biodegradable, 1000 ml

Type	Aquaris RM
Order no.	13940

## Aquaris DES

For safe disinfection, 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 UO inlet line, 100 membrane filter, tweezers and measuring cylinder.

Type	Colloid index measuring device
Order no.	13996



PERMEATE STORAGE  
CONTAINER

## 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



SEK 28

### 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 gal)
Pump head (max.)	8 mWS
Circulation rate (max.)	1500 l/h (6.6 gpm)
Temperature resistance	up to 60 °C (140 °F)
Electrical connection	230 V/50 Hz
<b>Order no.</b>	<b>60008</b>



KALKEX-MOBIL

### 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 gal)
Pump head (max.)	15 m WS
Circulation rate (max.)	2100 l/h (9.3 gpm)
Temperature resistance	up to 60 °C (140 °F)
Electrical connection	230 V/50 Hz
<b>Order no.</b>	<b>60007</b>



## 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

### SOLVENTS AND NEUTRALISING AGENTS

Pallet order size (800 × 1200 mm)	28
Packaging unit	20 kg container

### FFW / TW – FOR DRINKING WATER

Material resistant according to VDI 2035

Descaling capacity: 2.5 kg FFW/TW dissolve 1 kg of scale

Type FFW/TW	
Order no.	60977

### ZN / I – FOR INDUSTRIAL USE

Material resistant according to VDI 2035

Descaling capacity: 2.5 kg ZNIT dissolve 1 kg of scale

Type ZN/I	
Order no.	60976

### 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 VA	
Order no.	60980

### NAW

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

Type NAW	
Order no.	60993

### Neutra

For neutralisation of used solvents

Type Neutra	
Order no.	60991



LIMESCALE SOLVENT

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

## 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

- 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 IN POWDERED FORM

### 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

## SELECTION TABLE FOR SOLVENTS

Application field	solvents				solvents		passivation
	for the removal of scale, rust deposits and other inorganic layers				for the removal of scale and inorganic layers (except rust)		after treatment of metal surfaces
Material	Limescale solvent P up to 60	Limescale solvent	Limescale solvent VA	Limescale solvent Ecosafe	FFW / TW	ZN / I	NAW
Grey cast iron	x	x	-	x	-	x	x
Steel, unalloyed and low-alloy steel	x	x	-	x	x	x	x
Copper and copper alloys (brass and other nonferrous metals)	x	x	-	x	x	x	x
Enamelled steel (acid-resisting)	x	x	-	x	x	x	x
Tin coated materials	x	x	-	x	x	x	x
Galvanized steel according to DIN	x	x	-	x	x	x	x
Aluminium	x	x	-	x	-	-	-
Stainless steel	x	x	x	x	-	-	x
Polysulfon RO-membranes	x	-	-	-	-	-	-
UV units	x	-	-	x	-	-	-
Drinking water application	x	x	x	x	x	-	x

Neutralization of used solvents by means of Neutra, resp. Neutra P.

# BWT - FOR YOU AND PLANET BLUE

## EUROPE'S NO. 1 IN WATER TREATMENT



The Best Water Technology Group is Europe's leading water technology company. Through our water partner network, comprising BWT's 4,000 employees and thousands of plumbers, planners, architects and hygiene experts, we aim to supply private, industrial, business, hotel and public sector customers with innovative, economical and ecological technologies that guarantee maximum safety, hygiene and health in the daily use of water – that precious elixir of life.

BWT provides state-of-the-art water treatment technologies and services for drinking water, pharmaceutical water, process water, heating water, boiler water, cooling water, water for air-conditioning systems and water for swimming pools.

In order for BWT to achieve and maintain technological superiority in all areas of water treatment, our innovation centres continuously research, develop and optimise processes for: filtration; filter media; ion exchange systems for demineralisation; softening; decarbonisation; membrane technologies; microfiltration; ultrafiltration; nanofiltration; reverse osmosis; pure-steam generators; high-purity water distillation; UV systems; ozone generators; ion exchange membranes; electrolysis systems; electrodialysis; electrodeionisation; chlorine dioxide generators; metering pumps. All are used throughout the world to achieve excellent water quality.

Thousands of partners, service teams, plumbers, architects and hygiene experts are part of the BWT network of water professionals. BWT's trend-setting 'Made in Europe' products have proved their quality millions of times over, both where

the water enters a building ('point of entry') and at its tapping point ('point of use'), regardless of whether it is tap water, sea water or water from a well. They include: new table water filters for best drinking water and preparing coffee or tea; filters for optimising coffee machine water; water filters for baking, steam ovens and vending machines; under-sink particle filters; water dispensers; reverse osmosis and UV devices. BWT also offers compact, innovative products to provide top quality water for end-consumers.

Through its unique, high efficiency membranes for fuel cells and batteries, BWT is creating a cleaner, more sustainable energy supply for the 21st century.

Our Research & Development teams, using state-of-the-art methods, work on new processes and materials to create products that are both ecological and economical. Looking ahead, a key development issue is a reduction in the products' use of operating resources and energy consumption and the resulting minimisation of CO<sub>2</sub> emissions.

**BWT – For You and Planet Blue** signifies that our mission to take ecological, economical and social responsibility, to provide our customers with the best products, systems, technologies and services in all areas of water treatment and, at the same time, to make a valuable contribution to preserving the global resources of our blue planet.

**Our vision:**

**BWT – the internationally leading water technology group**



**BWT Wassertechnik GmbH**  
Industriestraße 7, 69198 Schriesheim, Germany  
☎ +49 6203 730 📠 +49 6203 73208  
✉ [export@bwt.de](mailto:export@bwt.de)

*[bwt.com](http://bwt.com)*

FOR YOU AND PLANET BLUE.