BWT
BEST WATER TECHNOLOGY



REVERSE OSMOSIS

BWT THERO 90PRO





- » HIGH FLOWRATE OF 1.5 L/MIN
- » HIGH EFFICIENCY – ONLY 50% WASTEWATER
- » LOW NOISE DUE TO ALUMINIUM HOUSING
- » EASY TO INSTALL
- » EASY TO CHANGE FILTER
- » NO STORAGE TANK REQUIRED
- » DURABLE
- » CONTAMINANTS SUCH AS MICROPLASTICS AND NANOPARTICLES ARE REMOVED

POWERFUL WATER TREATMENT SOLUTION WITH APP CONTROL FOR ESPECIALLY DIFFICULT CASES

The BWT THERO 90PRO can be used wherever conventional water filters reach their limits. With its special filter technology – a 'reverse osmosis' filter system – it provides pure H_2O on demand. Heavy metals, microplastics, bacteria, viruses, hormones, nitrates, limescale and other contaminants are washed away and at least 98% of salts are removed. Highly efficient and reliable, the BWT THERO 90PRO can produce 1.5 litres of water per minute, with no storage tank required. For even greater hygienic safety, the membrane is flushed for 10 seconds after each production or every 3 hours if no production occurs. The aluminium housing contains a filter head with an automatic 'Aqua-Stop' feature, making filter replacement simple. Using the single-lever tap supplied, the THERO 90PRO can be used alongside a standard hot and cold kitchen tap.

BWT THERO 90PRO app

The THERO 90PRO features an app connection via Bluetooth for easy control and monitoring of water quality via a smartphone or tablet.

PURE WATER ON DEMAND

FLOWRATE OF 1.5 L/MIN

ONLY 50% WASTEWATER

BLUETOOTH CONNECTION

BWT THERO 90PRO app

With the aid of the BWT THERO 90PRO app, the device can be easily controlled and monitored. The app is connected to the end device, tablet or smartphone, via Bluetooth. This is a purely offline application. No data is transferred to BWT.

Your benefits:

» Monitoring of the output water quality (permeate) by means of conductivity monitoring
» Input water meter for monitoring water consumption
» Setting the service intervals (180/365 days)
» Operating hours counter
» Status and alarm overview

The app at a glance






Status	ready	working	rinsing	failure
Device status	Device is in standby	RO device in production	Automatic membrane flushing	Error message as displayed in the app

Service menu:



Setting the service days and prefilter capacity



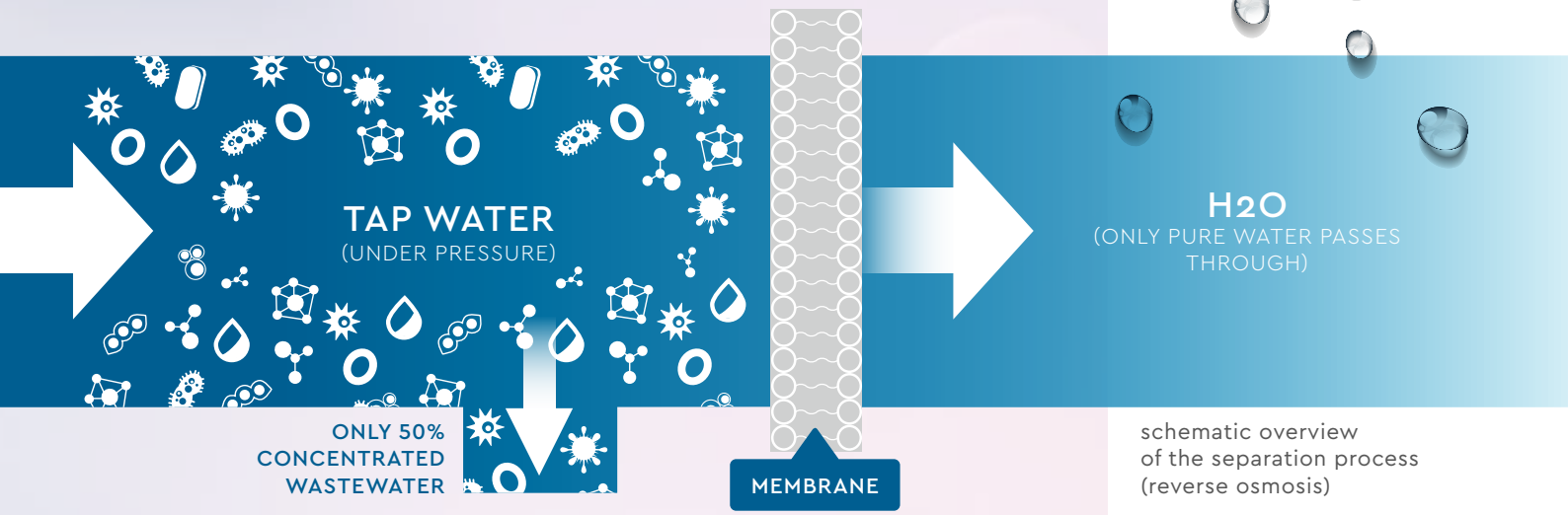
Input water meter and pump operating hours status report

Direct download

RO SYSTEMS

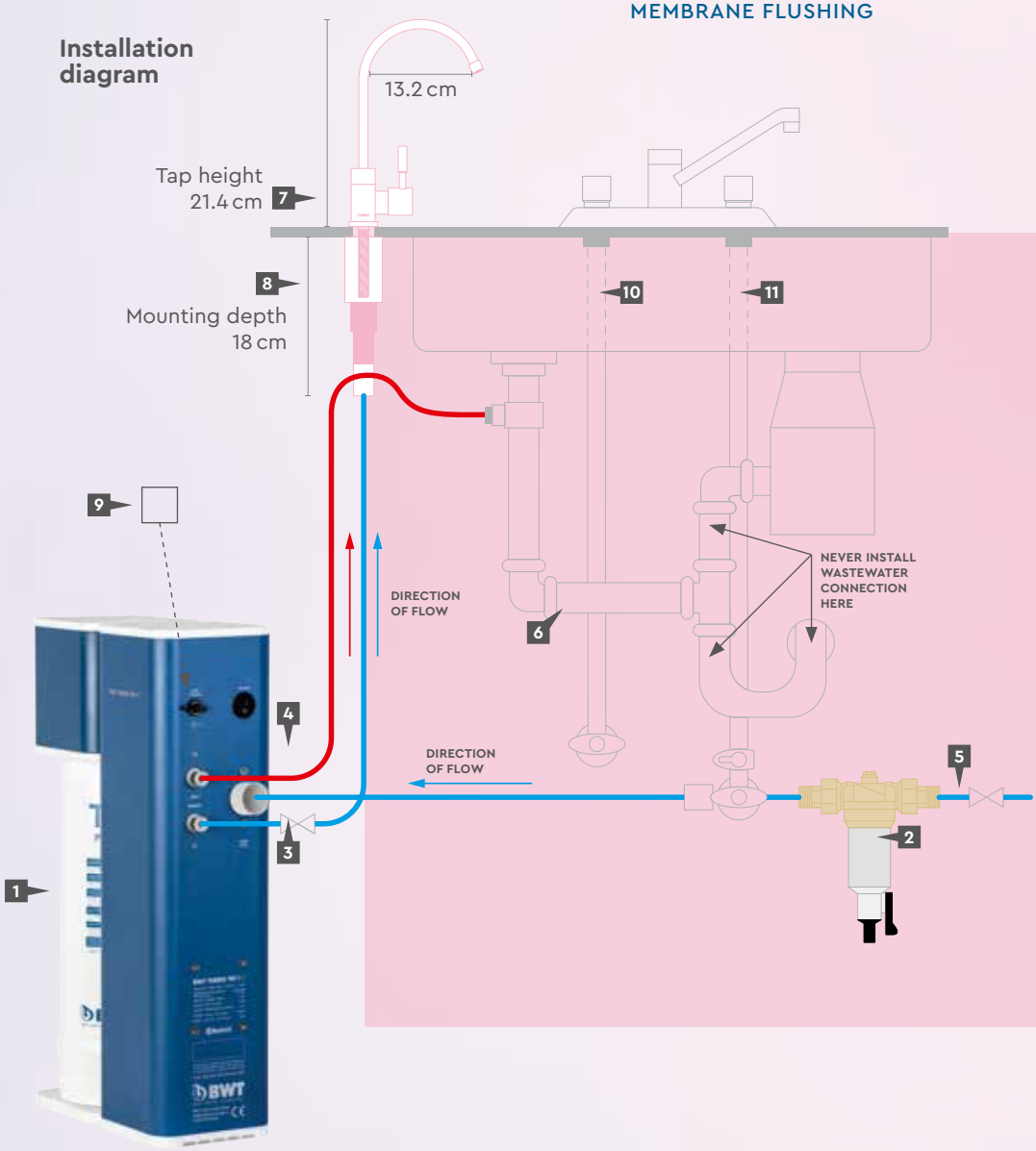
Separation process

The separation process uses a membrane to purify tap water under pressure. Only pure water can pass through the membrane, while all substances dissolved in tap water are retained and discharged as concentrated wastewater. And the best part: the BWT THERO 90PRO has a wastewater rate of just 50%.



schematic overview
of the separation process
(reverse osmosis)

Installation diagram



Suggested installations

1. BWT THERO 90PRO reverse osmosis
2. Particle filter (not included but recommended to protect the RO membrane)
3. 1/4" permeate outlet to tap connection
4. 1/4"concentrate outlet (for connection to drainpipe)
5. 3/4" feedwater inlet
6. Alternative placement of drain connection
7. Tap (supplied)
8. Note: mounting depth 18 cm
9. IEC 320-type PE mains plug
10. Hot water
11. Cold water

OVERVIEW DATA

GENERAL INFORMATION		THERO 90PRO
ARTICLE NUMBER		821105
AVAILABLE COLOURS		blue
POWER CONNECTION		yes
TAP MATERIAL		metal
TAP COLOUR		chrome
HEIGHT OF TAP	cm	21.4
TAP INSTALLATION		single-hole installation
DIAMETER OF WORKTOP HOLE	cm	1.2

TECHNICAL DATA

OPERATING CONDITIONS		THERO 90PRO
PERMEATE PRODUCTION[1] (amount produced)	l/min	1.5
SALT REJECTION	%	>98
WCF (WATER CONVERSION FACTOR)[2,3] (factory setting) at 15 °C	%	approx. 50
INLET FLOW (input) min.	l/min | l/h	3.4 | 200
CONCENTRATE (output) approx.	l/min	1.5
FEED PRESSURE	bar	1–4
FEEDWATER/AMBIENT TEMPERATURE min. | max.	°C	5–30 | 5–40
IRON (Fe) AND MANGANESE (Mn)	mg/l	<0.05
SILICATE (SiO_2)	mg/l	<15
SALTS (TDS)	mg/l	<1,000
BLOCKING INDEX (SDI)	%/min	<3
OXIDIZING SUBSTANCES	mg/l	<0.05
DEGREE OF PROTECTION	IP	54
INTERVAL MEMBRANE FLUSHING	h	every 3[4]
CONNECTIONS		
ELECTRICAL CONNECTION	V	100–230
FUSE	Hz	50
INTERNAL FUSE	A	10 / 1.25 (type T/slow burn)
POWER CONSUMPTION (operation | standby)	W	90 | <3
PLUG (PE mains plug)		IEC 320 socket
FEEDWATER	inch	3/4 M
PERMEATE	inch	1/4 JG
CONCENTRATE	inch	1/4 JG
DIMENSIONS & WEIGHTS		
DIMENSIONS (W x H x D)	cm	12.1 x 45.1 x 26.4
NET WEIGHT	kg	8.8
GROSS WEIGHT	kg	10.6

[1] Actual nominal flow rate may vary slightly from that specified in the table due to fluctuations in input water quality, flow pressure and water temperature (e. g.: in case of higher permeate delivery head).

[2] In general, the manufacturer recommends that feedwater is pretreated.

[3] RO is factory set to a WCF of approx. 50%.

[4] Calculated from last consumption

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BWT UK Limited
Suite G, Artisan, Hillbottom Road,
High Wycombe, Buckinghamshire,
HP12 4HJ
enquiries@bwt-uk.co.uk
+44 1494 838100