

**Baxter**

**WRO 300 H**

WATER SYSTEM

# WRO 300 H

Water purity for single patients

## AUTOMATED PROCEDURES MINIMIZE PATIENT AND CAREGIVER INVOLVEMENT

- Dialysis machine can start and stop the **WRO 300 H** unit
- Automatic shut-off at completion of disinfection process
- The **WRO 300 H** unit can be programmed to automatically start heat disinfection at specified intervals

## HOT WATER DISINFECTION

LOW NOISE LEVEL<sup>1</sup>



# THE WRO 300 H UNIT

## WATER FOR DIALYSIS

The quality of the water used in the preparation of dialysis fluid is very important. Even water considered as acceptable according to existing tap water regulations may have chronic as well as acute effects on the dialysis patient<sup>2,3</sup> The Baxter single patient reverse osmosis monitor **WRO 300 H** is designed to provide the high quality water needed for dialysis!

## REVERSE OSMOSIS

Reverse osmosis is today the preferred method for the purification of water for dialysis. This method removes more than 96% of dissolved salts and more than 99% of all particles, bacteria and pyrogens in the water. Most tap waters can therefore be purified to a standard, which complies with existing recommendations for water for dialysis.<sup>2,3</sup>

PRODUCT WATER	
Output	Minimum 1.1 l/min at +10°C and 0.15 MPa (1.5 bar) outlet pressure
Quality	Depends on inlet water quality. If potable water is used, and <b>WRO 300 H</b> is maintained according to the manual, the following minimum rejection rates will be obtained: Total dissolved salts: > 96% Bacteria and pyrogens: > 99%
FEED WATER SUPPLY	
Input	Min. 3.0 l/min
Pressure	150-800 KPa (1.5-8 bar)
Temperature	+ 5 to + 30°C
Quality	Potable water shall be used. Softener followed by carbon/particle filter ensures optimum performance To insure maximum membrane life expectancy, the following limits should not be exceeded:
Hardness	< 0.3° dH (6 ppm as CaCO <sub>3</sub> )
Iron	< 0.1 mg/l
Manganese	< 0.1 mg/l
Jackson Turbidity Unit (JTU)	< 1 JTU
Total dissolved salts (TDS)	< 1500 mg/l
Silt Density Index (SDI)	< 5
Chlorine (total)	< 0.1 mg/l
DRAIN REQUIREMENTS	
Operation	1.2 ±0.1 l/min
Peak flow (rinse)	Min. 3.0 l/min required
CONNECTIONS	
Supply and drain lines	Designed for flexible, reinforced tubing, 8 mm x 2.5 mm
Product water loop	Designed for flexible, reinforced tubing, 5 mm x 3 mm

The **WRO 300 H** unit is a reverse osmosis unit designed specifically for dialysis. It combines simplicity, reliability and ease of use and is based on the long time experience of water treatment equipment within Baxter.

## INTEGRATED HEAT OR CHEMICAL DISINFECTION

When a **WRO 300 H** unit is fitted to a Baxter dialysis machine, one of the disinfection programs will allow an integrated heat, alternatively chemical disinfection of the reverse osmosis unit, the connection line to the dialysis machine and the dialysis machine itself. This "end-to-end" action will help ensure that the hygienic chain remains unbroken.

USER INTERFACE DISPLAYS	
Product water conductivity	Temperature compensated product water conductivity, operating range 1-500 µS/cm
Feed water conductivity	Temperature compensated feed water conductivity, operating range 10-2000 µS/cm
Rejection rate	Rejection rate, operating range 0-100%
Time	Date and time, total run time, time since last disinfection, cleaning, etc
TEMPERATURE MEASUREMENT	
Operating range	0-105°C
REVERSE OSMOSIS MEMBRANE	
Material	Polyamide, thin film composite
Configuration	Spiral wound
pH-tolerance	2-11
DISINFECTION & CLEANING	
Heat disinfection	User initiated or automatic start of heat disinfection
Chemical disinfection	Automatic dilution of disinfectant. Rinse memory forcing the rinse program to start after chemical disinfection
Cleaning	Customized programs for different needs
POWER SUPPLY	
Mains voltage	100-115 or 220-240 V +/-10%, 50 or 60 Hz
Power	220-240 V: max 1920 W 115 V: max 1380 W 100 V: max 1500 W
AMBIENT	
Temperature	+ 10 to + 40 °C
A-weighted sound level	Less than 50 dB(A) during normal operation
DIMENSIONS	
Depth	Max: 520 mm      Footprint: 380 mm
Width	Max: 205 mm      Footprint: 185 mm
Height	563 mm
Weight	33 kg

**For safe and proper use of the device, please refer to the Instructions for Use**



1. Operator manual HCEN128490120
2. Hoenick N. et al. *The importance of water quality and Haemodialysis fluid composition.* Blood Purification, 2006; 24: 11-18
3. ISO 23500-3 2019

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Any medical device product quality complaints (including medical device adverse incidents) relating to Baxter products can be reported directly to the Baxter Country Quality Assurance Team: In the UK on +44 (0)1604 704603, or by email to UK\_SHS\_QA\_Complaints@baxter.com

In Ireland +353 (0)1 2065500 or by email to shs\_complaints\_dublin@baxter.com

Alternatively please report directly to your Baxter Representative, who will take the details and forward to the Baxter Country Quality Assurance Team.

Medical device adverse incidents should also be reported:

In the UK to the MHRA. Reporting forms and information can be found at: [www.mhra.gov.uk/safetyinformation/reportingsafetyproblems/index.htm](http://www.mhra.gov.uk/safetyinformation/reportingsafetyproblems/index.htm)

In Ireland to the Hpra. Reporting forms and information can be found at: <http://www.hpra.ie/homepage/about-us/report-an-issue>

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