

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 LEVEL¹



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.^{2,3} The Baxter single patient reverse osmosis monitor **WRO 300 H** is designed to provide the high quality water needed for dialysis!¹

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.^{2,3}

| 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 WRO 300 H 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 ₃) |
| 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 |

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

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 |