



WHITEWATER endoscopy

THERMAL DISINFECTION PROGRAMME

Purified water for automated endoscope reprocessors



WHITEWATER

quality in purity



“We installed a new water purification system for our Endoscopy unit and chose to use an automated RO thermal disinfection system this year from Whitewater, which disinfects the entire loop main with hot water to 85°C. Because the new system is automatic, the thermal disinfection cycles are logged and recorded. Monitoring and validation is much more reliable than manual logging which is the only method with chemical dosing.”

Decontamination Department, Altnagelvin Hospital,



Photo: Langer

Whitewater are specialists in the provision of purified water systems for 'critical' healthcare applications, including endoscopy, haemodialysis, sterile services, clinical chemical analysers, laboratory and pathology.

We are the largest supplier of endoscopy water systems in Ireland, providing purified water for disinfection and final rinse to automated endoscope reprocessors (AERs).

Designed to meet HSE Code of Practice for Decontamination of RIMD, CFPP01-06 and EN ISO15883- 1&4

Whitewater Endoscopy – Fully Automatic Validated Hot Disinfection Programme

- The Whitewater Endoscopy unit is designed for ease of use by hospital staff and incorporates state of the art thermal disinfection.
- Fully automatic control for daily thermal disinfection
- Ensures consistent compliance with endotoxin and TVC requirements.
- No chemicals are used:
 - no chemical handling
 - no chemical storage
 - no chemical compatibility issues
 - no chemical disposal.
- Lower operating costs than chemical.
- Mimics the thermal disinfection cycle of the endoscope washer to provide consistently secure water source.

Complete Service Capability

We understand that ongoing validation and service support is an essential requirement and ensure your 'critical path' equipment is maintained on a regular, preventative basis to achieve maximum system reliability, cost effective and consistent operation and technical compliance.

Our highly trained support team of service technicians provide an unrivalled service.

Through this extensive level of resource, we offer a comprehensive range of service contracts, including our **24 / 7 on-call support*** and guaranteed service level agreements to the majority of Irish hospitals and private healthcare institutes.

User Friendly Maintenance

Maintenance on the Mediwater Endoscopy unit is easy.

All consumables are easily replaced, and directly accessible.

Total maintenance accessibility is completed by lift-off panels for all round access.

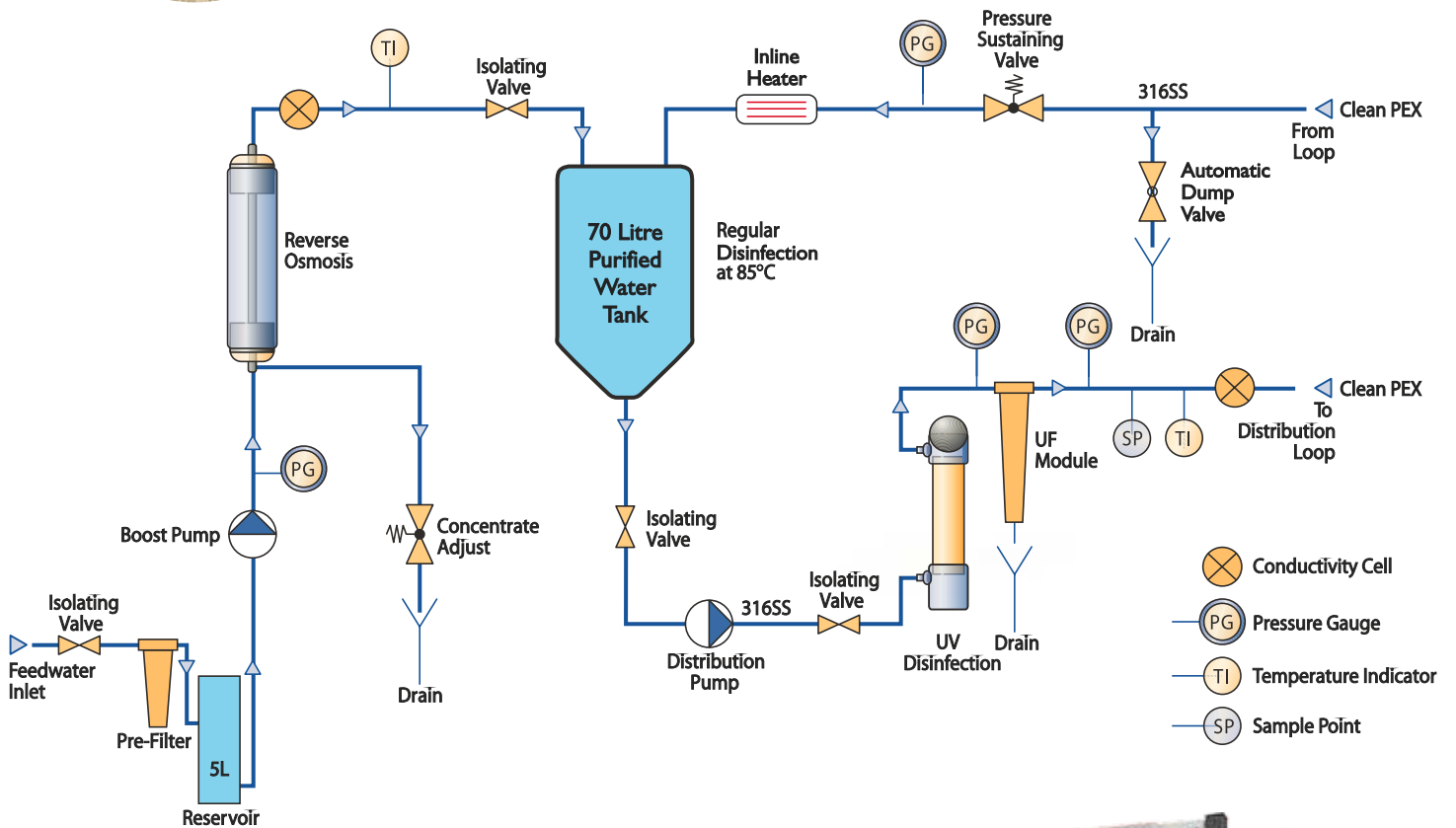
Trending and Data Analysis

Whitewater Endoscopy provides RS232 ports for chart recorder / printer hook up to make a permanent archive of historic and real time data or for BMS interface.



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Features and benefits

- Class 'A' air break tank on feedwater supply
- High efficiency reverse osmosis membrane
- Integral 70 ltr PW** water reservoir with bacterial vent filter to ensure microbiological integrity
- Re-circulation pump provides instantaneous delivery flow
- Operates quietly at very low noise levels
- Ultra-violet steriliser for continual bacteria destruction and maintenance of low microbiological levels
- Ultrafiltration membrane provides final security against microbiological and particulate contamination
- Comprehensive micro-processor monitoring and control system
- Aseptic sample point to validate and verify product water quality
- Complete range of alarm systems which alert user to critical parameters
- Automatic fully programmable HOT disinfection programme

** purified water



*** 24 / 7 on-call support.** For clients who take out 12 month service contracts and whose systems are regularly maintained, we offer a 24 hour emergency on-call service by the largest team of qualified and experienced engineers in Ireland.

WHITEWATER

endoscopy

HERMAL DISINFECTION PROGRAMME

Purified Water Specification

Model	Endoscopy 300	Endoscopy 500
Pure Water Production	300 l/hr @ 15°C	500 l/hr @ 15°C
Loop Flowrate	30 l/min @ 4.5 bar	50 l/min @ 4.5 bar
Inorganic	<30 µS/cm	<30 µS/cm
Bacteria	<10cfu/100ml	<10cfu/100ml
Endotoxin	<0.25 Eu/ml	<0.25 Eu/ml
Particles	<0.05 micron	<0.05 micron

Feedwater Requirements

Item	Measure	Range	Range
Hardness	Total hardness mg/l as CaCO ₃	<400	<400
Total Chlorine	Cl mg/l	<0.1	<0.1
Fouling Index	SDI	<3	<3
Iron / Manganese	Fe/Mn mg/l	<0.05	<0.05
Conductivity	µS/cm	<700	<700
Temperature		Recommended 15–20°C	
Drain requirements (gravity fall with air gap)		2 Inch Stand Pipe Suitable for 85°C	
Feedwater Pressure		6 bar maximum 3 bar minimum	6 bar maximum 3 bar minimum

Weights, Dimensions and Installation

Height	1970 mm	1970 mm
Depth	740 mm	740 mm
Width	660 mm	660 mm
Supply weight	180 kg	210 kg
Operational weight	240 kg	270 kg
Installation	Floor mounted*	Floor mounted*

* safety wheels fitted as standard

Electrical Requirements

Mains input	380V AC, 50 Hz	380V AC, 50 Hz
Systems control voltage (not including pumps & UV)	24V DC	24V DC
Power consumption (peak demand)	10 kW	11 kW
Electrical protection rating	25 amps	25 amps
Noise level during recirculation	<50 dBA	<50 dBA

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