

AquaBplus HF Data Sheet

Heat Disinfection System



Compliance with ISO Standards

The AquaBplus HF heat disinfection system streamlines compliance with ISO dialysis water quality standards.

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| ISO 23500-1 | Part 1: addresses general requirements for the preparation and quality management of fluids for hemodialysis and related therapies |
| ISO 23500-2 | Part 2: covers water treatment equipment for hemodialysis applications and related therapies |
| ISO 23500-3 | Part 3: specifies minimum requirements for water used in hemodialysis and related therapies |

AquaBplus HF system delivers the operational benefits and technical advantages that renal care facilities demand. Thermal heat disinfection is based on the A₀ Concept according to ISO 15883-1 (Washers-disinfectors: Part 1: General requirements, definitions, and tests).

Features

Economical

- Modular design to fit individual needs

Protective

- High permeate quality facilitated by dead-space free tubing connection

Convenient

- Monitoring of operating data with active online and FTP connections

Functional

- Integrated heat disinfection for hemodialysis devices
- Heat disinfection of the permeate ring main
- Initial self-testing of all safety-relevant actuators and sensors
- Leakage monitoring during the heating phase
- Monitoring of performance data/heat disinfection reporting and quality documentation
- Ring base for safety

Technical Data

Specifications

Hot Permeate Capacity	Heat disinfection of four dialysis machines in parallel or up to 2.4 L/m of consumption
Dimensions (h x w x d)	150 x 22 x 60 cm
Weight (filled)	75 kg
Maximum Pressure	6 BAR
Temperature Heat Disinfection	70-92°C (adjustable)
Heater Output	Max. 19.5 kVA
Noise Level	Noise level in SUPPLY mode: 65-76 dB (distance of 1 m) (depending on system capacity and features)

Electrical Supply

Electrical Supply/Three-phase Current	208 V~, 60 Hz; 3/N/PE
Power Consumption	22 kVA
Radiated Heat Loss (heat disinfection)	2.3 kW
Overcurrent Protection	80 A tripping characteristic (depending on voltage/version); D or K or similar recommended (due to high starting currents) Residual current circuit breaker RCD 30 mA recommended
Socket	208 V: hardwired/CEE socket
Type of Protection Against Electric Shock	Protection Class I
Applied Parts Classification	Type B
Degree of Ingress Protection Against Liquids	Drip-proof
Leakage Currents	According to EN 60601-1
Overvoltage Category	II
Pollution Severity	II
Material Group	III b
Operating Mode	Continuous operation (standby)

Technical Data

Water Supply

Permeate Connection

Direct PE-Xa connector 25 x 3.5 mm (feed and return)

Operating Conditions

Atmospheric Pressure

Ambient pressure: 700-1150 hPa

Ambient Temperature Range

+5°C to +35°C

Relative Humidity

Up to 80% at 20°C (non-condensing)

Inlet Water

Dialysis water



Technical Data

Transport and Storage Conditions

Storage Temperature Range	+5°C to +40°C (protect from freezing)
Atmospheric Pressure	Ambient pressure: 500-1,150 hPa
Relative Humidity	Up to 80% at 20°C (non-condensing)

Materials in Contact with Dialysis Water

Type	Material	
Polymers	PP	Polypropylene
	PE	Polyethylene
	PSU	Polysulfone
	PPO	Polyphenylene oxide
	PVDF	Polyvinylidene fluoride
Rubber	EPDM	Ethylene propylene diene monomer
Metals		Silicone
	1.4571	Stainless steel
	1.4404	Stainless steel
Ceramics	TI	Titanium
	Al2O3	Ceramic

Indications for Use

The **AquaBplus** Water Purification Systems are reverse osmosis units intended for use with hemodialysis systems to remove organic and inorganic substances and microbial contaminants from the water used for treating hemodialysis patients or other related therapies. These devices are intended to be a component in a complete water purification system, and are not complete water treatment systems. Each reverse osmosis unit must be preceded by pre-treatment devices, and may need to be followed by post-treatment devices as well, to meet current AAMI/ANSI/ISO and federal (U.S.) standards.

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