

Datasheet AquaBplus HF

Heat disinfection for AquaBplus & AquaBplus B2



Compliance with ISO Standards

The option **AquaBplus HF** (heat disinfection system) streamlines compliance with ISO dialysis water quality standards

ISO 23500-1 Part 1: **addresses** guidance 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 for hemodialysis and related therapies

The automatic dialysis water distribution loop heat disinfection enables you to fulfil the disinfection strategy specified in ISO 23500-1

Key features & functionality

- Thermal heat disinfection based on the A_0 concept according to ISO 15883-1
- Heat disinfection of up to three dialysis water distribution loops
- Integrated heat disinfection for hemodialysis devices
- Leakage monitoring during heating-up process
- Detailed heat disinfection reporting with A_0 value documentation
- Monitoring of performance data / heat disinfection quality records and trend monitoring
- Dead space-free design
- Variable target temperature configuration for the dialysis water distribution loop heat disinfection
- Variable configuration of the duration of the different heat disinfection program phases
- Individually programmable heat disinfection timer

Specifications

Hemodialysis devices	Up to 6 devices Depending on the temperature and consumption flow per hemodialysis system
Hot dialysis water capacity	120 - 140 L/h Flow capacity may differ depending on the dialysis water temperature
Disinfection temp. distribution loop	70 - 90°C; adjustable
Disinfection time max.	750 min
Heater output	Max. 19.5 kW temperature-controlled heater in different heating levels
Weight in kg (empty / filled)	70 / 75 kg
Dimensions in mm (h × w × d)	1500 mm × 220 mm × 600 mm
Footprint in m ²	0.132 m ²
Inlet & outlet connection	Clamp stainless steel
Operating output pressure	Max. 6 bar
Operating flow	Up to 2500 L/h @ 5 bar counterpressure
Noise level	Depends on the noise level of the master system AquaBplus

Electrical supply

Electrical supply / three-phase current	380 - 400 V	50 Hz; 3 / N / PE	CEE socket 32 A
	415 V	50 Hz; 3 / N / PE	CEE socket 32 A
	380 - 400 V	60 Hz; 3 / N / PE	CEE socket 32 A
	220 - 230 V	60 Hz; 3 / N / PE	CEE socket 63 A
	Electrical supply depends on the country and must be properly determined and selected.		
Power consumption max.	22 kVA		
Radiated heat / loss	0.0 kW @ standby 2.65 kW @ heat disinfection		
Overcurrent protection	3 x 32 A @ 380 - 400 V and 415 V		
	3 x 63 A @ 220 - 230 V		
	Tripping characteristic D, K or comparable (due to high motor starting currents) Residual current circuit breaker RCD 30 mA recommended		
Type of protection against electric shock	Protection class I		
Applied parts classification	Type B		
Degree of water protection	Drip-proof (IPX1)		
Leakage currents	According to IEC/EN 60601-1		
Overvoltage category	II		
Pollution severity	II		
Material group	III b		
Operating mode	Continuous operation (standby)		

Operating conditions

Inlet water	Dialysis water
Atmospheric pressure	Ambient pressure: 700 - 1150 hPa
Ambient temperature range	+5°C to +35°C
Relative humidity	5 to 80% @ 20°C (non-condensing)
Installation altitude	up to 3000 m (above sea level)

Transport and storage conditions

Storage temperature range	+5°C to +40°C (protect from frost)
Atmospheric pressure	500 - 1150 hPa
Relative humidity	5 to 80% @ 20°C (non-condensing)

Materials in contact with dialysis water

Materials used	Biological evaluation of medical devices according to ISO 10993–1
-----------------------	---

Certificates

Medical Device Regulation (MDR)	Classified as an accessory according to the European Medical Device Regulation (EU) 2017/745, covered by the Declaration of Conformity of the AquaBplus reverse osmosis system
--	--

Product codes

AquaBplus HF heat disinfection	AquaBplus HF: F00003310
---------------------------------------	--------------------------------