

Compliance with ISO Standards

The AquaA dialysis water 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



Technical Data

Specifications

Hemodialysis devices	Up to 75 devices @ 800 mL/min consumption flow of each hemodialysis machine			
Dialysis water outlet capacity	+ 15 °C			
Heat membrane module 1:	900 L/h			
Heat membrane module 2:	1800 L/h			
Heat membrane module 3:	2700 L/h			
Heat membrane module 4:	3600 L/h			
	Minimum capacity in liters/hour at a product water outlet pressure of 2 bar			
Dimensions in mm (h × w × d)	2x (1840 mm × 610 mm × 1200 mm) Distance between AquaA and AquaA2 is 500 mm; AquaA2 and AquaHT is 500 mm			
Footprint in m ²	2x (0.75 m ²)			
Weight (first stage) filled	AquaA 1800: 620 kg	AquaA 1800: 620 kg	AquaA 2700: 690 kg	AquaA 3600: 760 kg
Weight (second stage) filled	A2 900: 280 kg	A2 1800: 350 kg	A2 2700: 400 kg	A2 3600: 510 kg
Operating output pressure	Max. 6 bar			
Membrane concentrate pressure	Max. 19.9 bar			
Inlet water connection	1 ¼" external thread, stainless steel			
Distribution loop connection	Direct PE-Xa connector 25 × 3.5 (feed and return) Up to three dialysis water distribution loops. Up to two using Fluid Fly loops The dialysis water distribution system should have a maximum pressure loss of 2.5 bar			
Noise level	Noise level in SUPPLY mode: 68–72 dB (A); (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 max. (first stage)	AquaA 1800: 6.0 kVA @ 208 V	AquaA 1800: 6.0 kVA @ 208 V	AquaA 2700 / 3600: 9.6 kVA @ 208 V	AquaA 2700 / 3600: 9.6 kVA @ 208 V
Power consumption max. (second stage)	AquaA2 900 / 1800: 6.0 kVA @ 208 V	AquaA2 900 / 1800: 6.0 kVA @ 208 V	AquaA2 2700 / 3600: 7.2 kVA @ 208 V	AquaA2 2700 / 3600: 7.2 kVA @ 208 V
Radiated heat / loss	AquaAA2 900: AquaAA2 1800:			

7)20 (00 / 3600) JETEMC /P <</Lang (en-US)/M78.0 kVA @ 208 V130 (017-n-UTJ/Span<</Ac27alText<FEpanBT/SC () JEMC 11.245 0 T60Hz

External connection options

Ethernet (TCP / IP)	Electrically isolated interface for data exchange. Port: RJ45 The system can be connected to the in-house network Devices complying with the regulations of (DIN) EN 60950 or IEC 60950 may be connected to the Ethernet (TCP/IP).
Service / diagnostics	For in-house computer diagnosis. Port: RJ45
External start / stop	Starting and stopping reverse osmosis via control inputs.
Volt-free contacts	24 V / 1 A for the connection of external status information Alarm, Warning, Supply, Standby, Rinse, Emergency operation, Disinfection
External failure	Electrically isolated input as "collective alarm" from ext. equipment
External locking input	Inlet for external locking of the water supply by an external unit; e.g., water pretreatment
External leakage	Connection of an external leakage alert system; e.g. AquaDETECTOR

Transport and storage conditions

Storage temperature range	+5 °C to +40 °C (protect from frost)
Storage time	Storage time of preserved system: maximum 12 months
Atmospheric pressure	500–1150 hPa
Relative humidity	20-70% @ 20 °C (non-condensing)

Materials in contact with dialysis water

Materials used