U9000™ ultrafilter

For ultrapure dialysis fluid

The U9000™ ultrafilter is central to the dialysis fluid delivery system:

- Purification of water for dialysis
- Preparation of ultrapure dialysis fluid
- Preparation of substitution fluid for on-line HDF/HF*
- High bacterial and endotoxin retention capabilities
- Convenient disinfection**

* In combination with an additional single use ultrafilter with Gambro dialysis machines.

** When the U9000 ultrafilter is used in combination with Gambro dialysis machines, only the disinfectants recommended in the machine operator manuals should be used. Furthermore, disinfection should follow the procedure described in the operator's manual.

GAMBRO®

U9000™ ultrafilter

Specifications	
Components	**Material**
Membrane	PAES/PVP
Potting material	Polyurethane (PUR)
Housing and caps	Polycarbonate (PC)
Sealing	Silicone rubber
Protection caps	Polypropylene (PP) Polyetylene (PE)
Effective membrane area (m^2)	2.4
Inner diameter (µm)	190
Wall thickness (µm)	45
Product code	N 50 480

Performance		
Filtration flow	**At inlet pressure p_{in} [mmHg]**	
Q_F (ml/min)	37°C	5°C
300	59	111
600	117	221
900	176	332
1200	235	443
Determined with 0.9% sodium chloride solution. Inlet pressure p_{in} is measured at fluid entry Results may vary ± 10%		
Field of application		
Bacteria, pyrogen and particle filter for water and dialysis fluid		
Priming volume (ml)		
Lumen		135
Filtrate side		280
Typical retention values for bacteria and endotoxins		LRV*
Bacterial challenge: Pseudomonas diminuta ATCC 19146 in saline lactose broth. Cell diameter approx. 0.3 µm		>7
Endotoxin challenge: E. coli O55:B5 endotoxin (Whittaker, USA)		>3.5
Disinfection**		
Chemical disinfection agents recommended for U9000 ultrafilter		
Peracetic acid (≤0.1%)		
Sodium carbonate (≤0.5%)		
Sodium hypochlorite (≤0.5%)		
Citric acid (≤2.0%)		

* LRV = Logarithmic retention value
LRV = $\log_{10}$ (number of organisms in challenge suspension/number of organisms in filtrate)

** The disinfection routine recommended in the dialysis machine operator manuals should be followed.

CE 0086 This product is CE-marked in accordance with the requirements in EC Council Directive 93/42/EEC of 14 June 1993 concerning medical devices.

Gambro Lundia AB
PO Box 10101
SE-22010 Lund
Sweden
Phone + 46 46 16 90 00
partner@gambro.com
www.gambro.com

GAMBRO®