

Asahi**KASEI**



ACF-180W



ACF-130W

CUREFLO™

*ASAHI POLYSULFONE HEMOFILTER For
Continuous Renal Replacement Therapy (CRRT)*

ASAHI KASEI MEDICAL CO., LTD.
A Pioneer in Blood Purification

Applications of CUREFLO

CUREFLO is intended for patients with renal failure who also suffer from severe complications, such as multiple organ failure or cardiac and circulatory problems, including cardiac insufficiency and edema, who are not adequately treated by intermittent dialysis therapy. CUREFLO is used to correct and purify body fluid through continuous hemofiltration (normally in excess of 10 hrs.).

Features of CUREFLO

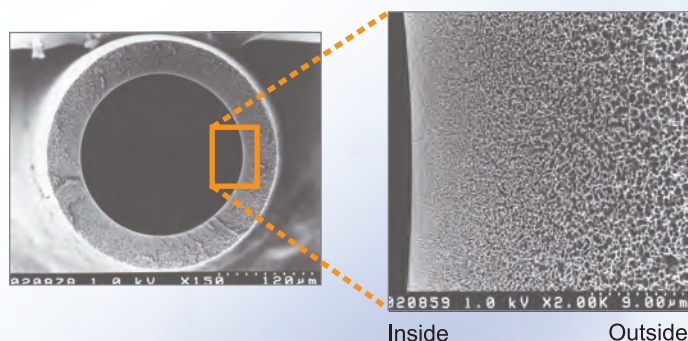
Asahi's high flux polysulfone membrane specially developed for CRRT with:

- High permeability and sharp cut-off curve from microporous gradient structure
- Superior biocompatibility
- Low albumin loss
- Long patency of filter during treatment

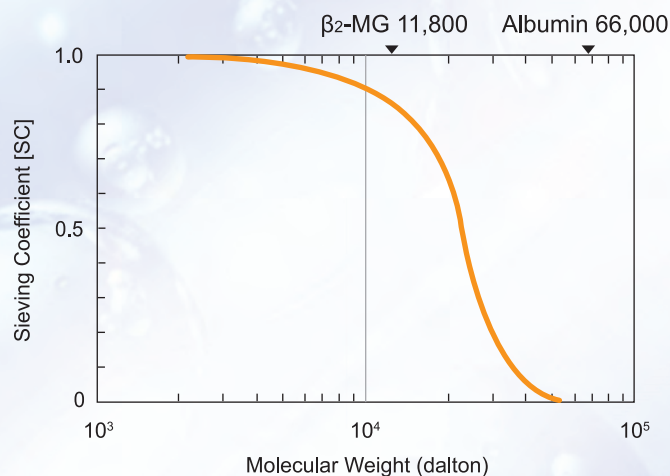
High permeability and sharp cut-off curve

Microporous gradient structure (dense and homogeneous inside surface and porous outside area) provides "High permeability" and "Sharp cut-off" features.

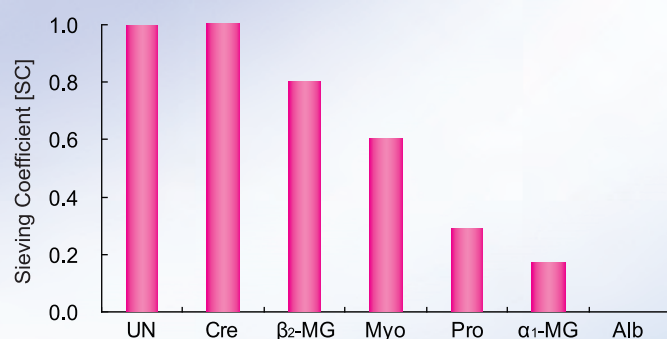
Membrane structure



Cut-off curve

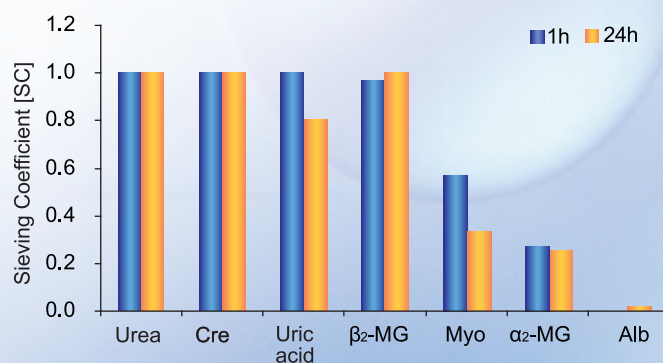


Excellent SC of low molecular weight proteins



In-house data: Product: ACF-130W
Bovine plasma, TP=6.5g/dL, QB=100mL/min, Qf=10mL/min, Temp 37°C

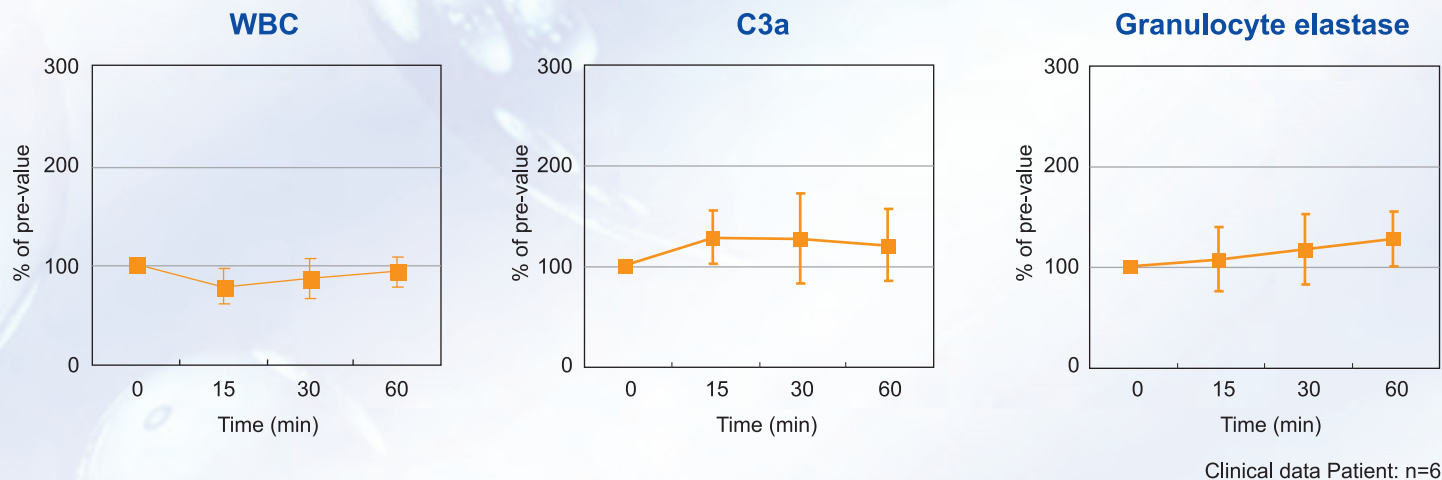
Mean values of sieving coefficients of solutes measured during the CVVH sessions



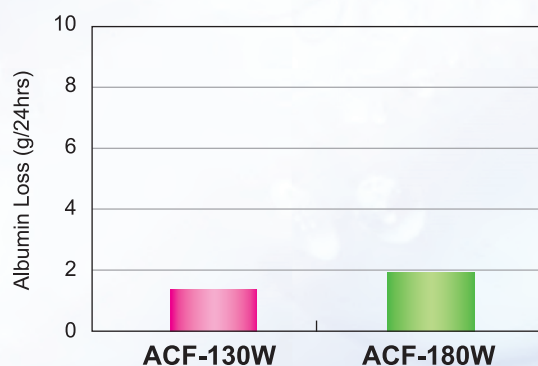
Ronco et al. Blood Purif. 32:133-8, 2011

Superior biocompatibility

The change of WBC, C3a and granulocyte elastase is very small during treatment.

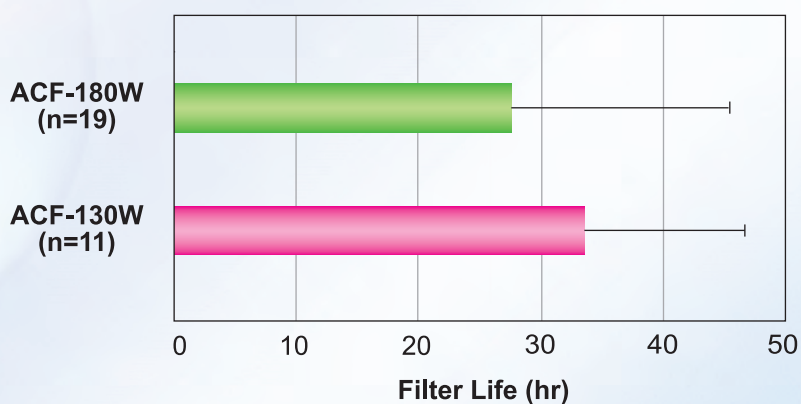


Low albumin loss



In-house data
Bovine blood, Ht=35%, TP=6.5g/dL, QB=100mL/min, Qf=10mL/min
24 hrs circulation

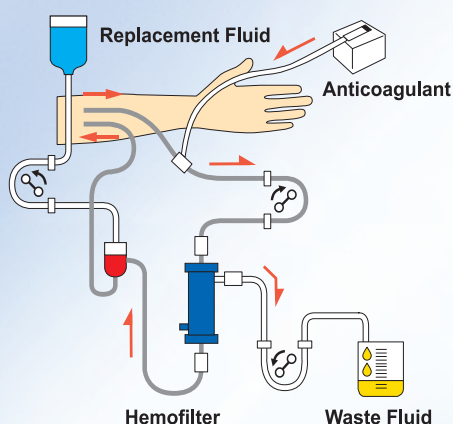
Long filter life



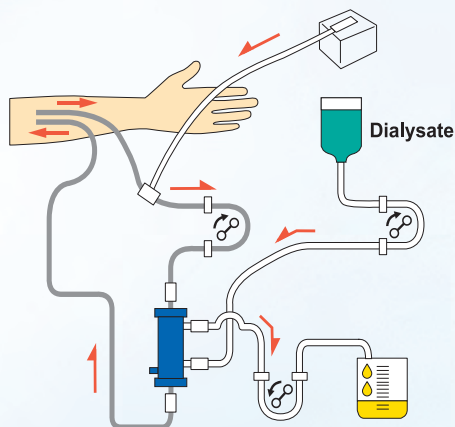
Clinical data
N=30, QB=100-250mL/min, Qf=1.2-3.2L/hr

Circuit diagram

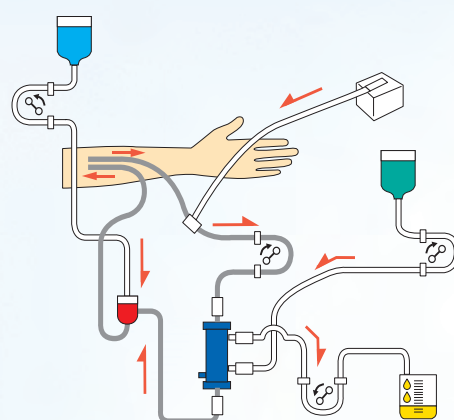
CVVH



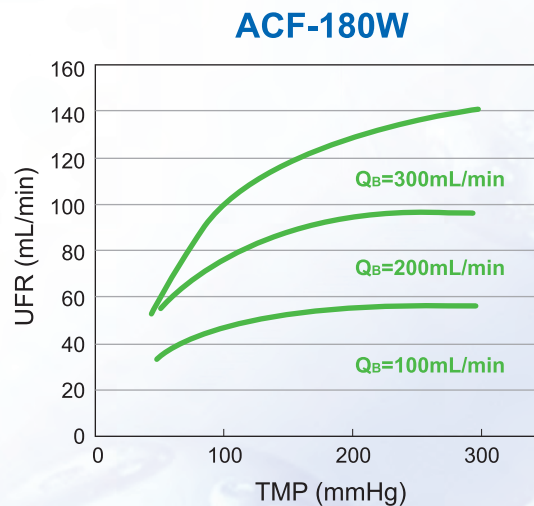
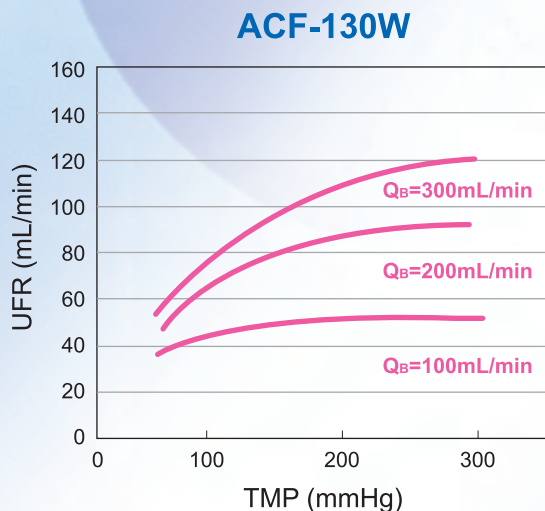
CVVHD



CVVHDF



Ultrafiltration



In-house data
Bovine blood, Ht=32%, TP=6.0 g/dL

Specifications

		ACF-130W	ACF-180W
Hollow fiber	Material	Polysulfone	
	Inside Diameter (μm)	200	
	Wall Thickness (μm)	45	
Effective Surface Area (m ²)		1.3	1.8
Priming Volume (mL)		80	108
Maximum TMP (mmHg (kPa))		500 (66)	
Sterilization		Gamma-ray	

Reference

Floris M, Marchionna N, Clementi A, Kim JC, Cruz DN, Nalesso F, Zanella M, Garzotto F, de Cal M, Virzi GM, Brendolan A, Ronco C. Evaluation of a new polysulfone hemofilter for continuous renal replacement therapy. Blood Purif. 32:133-8,2011.

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