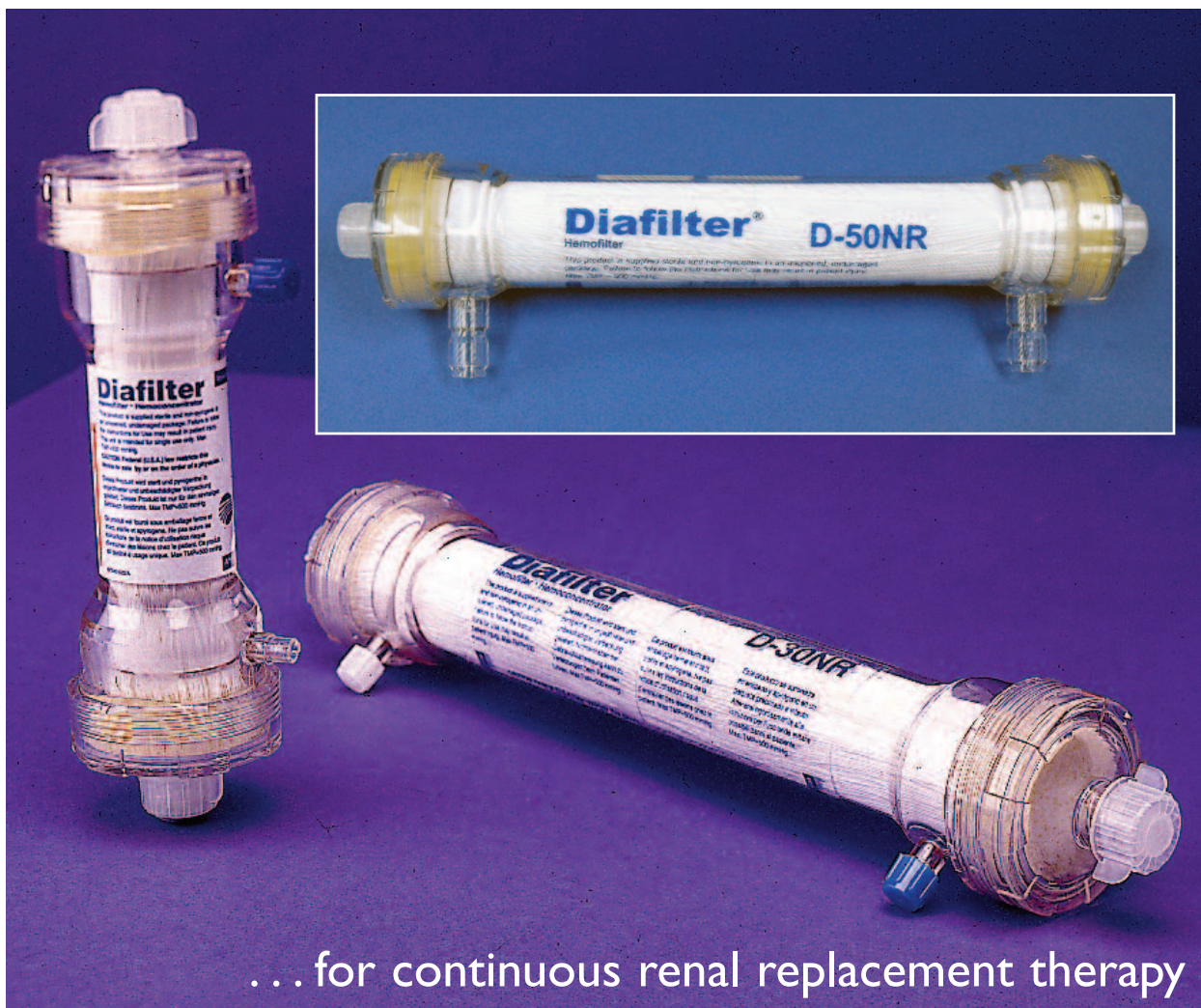


THE DIAFILTER™

Hemoconcentrator/Hemofilter



... for continuous renal replacement therapy

The D-20NR, D-30NR and D-50NR Hemoconcentrator/Hemofilter

Minntech offers the most convenient and efficient system available for your patient's hemofiltration needs. The Diafilter Hemoconcentrator/Hemofilter fibers are crafted from glycerin-free polysulfone membranes, a unique material that has demonstrated exceptional biocompatibility. The glycerin-free membrane offers the convenience of a no-rinse procedure. Set-up of the Minntech D-20NR, D-30NR and D-50NR Hemoconcentrator/Hemofilter involves only priming the unit to remove air.

Clinical Benefits

- **Low priming volume** helps maintain low volume in the extracorporeal circuit
- **Polysulfone membrane** offers excellent biocompatibility
- **Meets the biocompatibility requirements** of ISO 10993-4 selection of tests, for interactions with blood
- **No rinse fiber** for convenient set up
- **Excellent ultrafiltration rates** for reliable fluid removal
- **Low pressure drop** ensures continuous operation



MINNTECH®
THERAPEUTIC TECHNOLOGIES

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Product Information

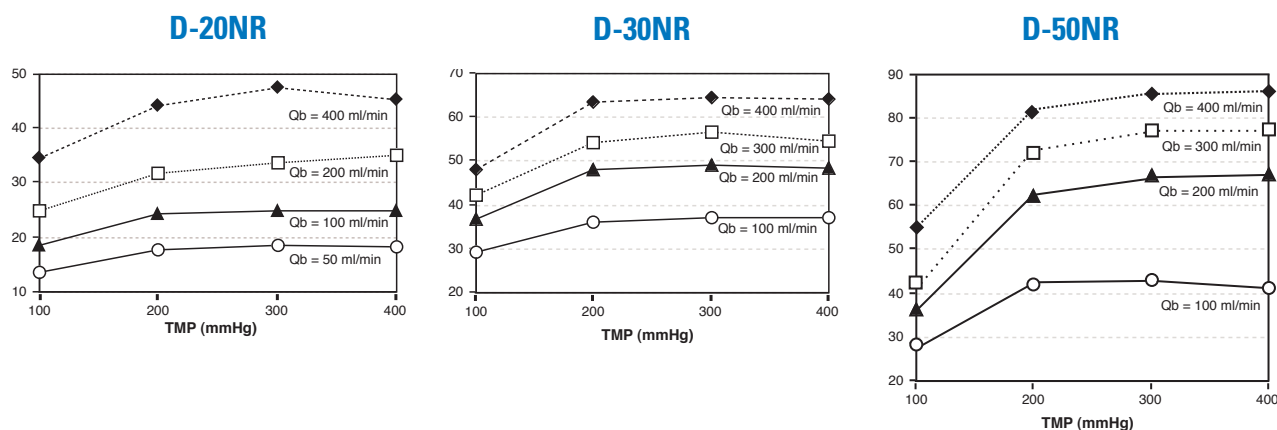
Specifications and Technical Characteristics

Category	D-20NR	D-30NR	D-50NR
Membrane Surface Area (nominal)(m ²)	0.26	0.66	1.0
Membrane Material	Polysulfone	Polysulfone	Polysulfone
Prime Volume (ml)	38	65	81
Overall Unit Length (cm)	13.8	25.3	25.3
Fiber Internal Diameter (microns)	260	260	260
Fiber Outer Diameter (microns)	400	400	400
Fiber Wall Thickness (microns)	70	70	70
Blood Side Pressure Drop ¹ (mmHg)	20	32	53
Maximum TMP (mmHg)	500	500	500

¹- End-to-end pressure drop: Hct. 26%; Protein 6.0 gm/dl; Temp. 37°C (in vitro). Qb: 100ml/min TMP: 200mmHg.

Ultrafiltration Rates

In vitro test results with bovine blood. Inlet conditions: Hct = 26%; Total Protein = 6 gm/dl; Temperature = 37°C



Sieving Coefficients

In vitro results (aqueous solutions) Qb - 200 ml/min, TMP = 100 mmHg

	Molecular Weight Daltons	Sieving Coefficients
Urea	60	1.0
Creatinine	113	1.0
Vitamin B12	1,355	0.98

In vitro results (bovine blood) Qb - 400 ml/min, TMP = 400 mmHg, Hct. = 26%, Protein = g/dl, Temperature 37°C per ISO 8637 standards

	Molecular Weight Daltons	Sieving Coefficients
Albumin	65,000	0.014
Myoglobin	17,000	0.187
Vitamin B12	1,366	0.743



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