

DATA SHEET Liqui-Flux® W05



All dimensions are nominal

Intended Use:	Ultrafiltration
Sheet no.:	W05 – 12/2011 E
Supersedes sheet no.:	W05 – 05/2011 E

UltraPES™ Membrane Characteristics	
Membrane type	Hollow fiber, inside - out
Membrane material	Polyethersulfone
MWCO, nominal	80 kDa
Outer / Inner diameter	1.2 mm / 0.8 mm
Burst pressure	≥ 1200 kPa (174 psi)
Membrane configuration	Multifiber P.E.T.® Technology

Housing Characteristics	
Housing material	Polyvinylchloride
Potting material	Polyurethane
Sealing material	EPDM
Connectors	Screw connection R 2 inch
Dry weight	9 kg (20 lbs.)
Weight filled with liquid	13 kg (29 lbs.)
Effective membrane surface area	8.7 m ² (94 ft ²)
Max. working pressure	600 kPa (87 psi) @ 20°C (68°F)
Max. working temperature	40°C (104°F) @ 150 kPa (22 psi)
pH-range during cleaning	1 - 13

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Typical Application / Operating Data:		
Operating mode		Dead-End / Cross-Flow
Typical flux range, filtration	l/m ² *h (gal./ft ² *day)	50 - 130 (0.34 - 0.88)
Typical flux range, backwash	l/m ² *h (gal./ft ² *day)	250 (1.7)
Filtrate flow rate range	m ³ /h (gpm)	0.4 - 1.1 (1.8 - 4.8)
Typical transmembrane pressure, filtration	kPa (psi)	10 - 70 (1.5 - 10)
Typical transmembrane pressure, backwash	kPa (psi)	20 - 200 (3 - 30)
Max. transmembrane pressure, filtration	kPa (psi)	150 (22)
Backwash frequency	h ⁻¹	0.5 - 4
Backwash duration	sec.	30 - 75
CEB frequency (maximum)*	d ⁻¹	0.5 - 8
CEB duration*	min	5 - 10
Typical instantaneous chlorine tolerance	ppm	200
Typical free chlorine exposure	ppm h	200,000
Typical instantaneous hydrogen peroxide tolerance	ppm	200
Typical cleaning chemicals		NaOCl, HCl, NaOH, H ₂ O ₂ , Citric Acid, Enzymatic Compounds

* CEB = Chemical Enhanced Backwash

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