3M | Liqui-Flux™ Filtration Modules

LENNTECH Water Treatment Solutions

3M™ Liqui-Flux™ Membrane Module UF-PES Series, Type W20-08N

Typical Properties

Applications	
Intended Use	Ultrafiltration

Membrane Characteristics	
Membrane Type	Hollow fiber, inside - out
Membrane Material	Polyethersulfone
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	PVC
Potting Material	Polyurethane
Sealing End Caps	EPDM
Connectors	Variable, see back side
Weight, Dry	60 kg (132 lbs)
Weight Filled with Liquid	157 kg (346 lbs)
Effective Membrane Surface Area	91 m² (979 ft²)
Maximum Working Pressure	600 kPa (87 psi) @ 20°C (68°F)
Maximum Working Temperature	40°C (104°F) @ 400 kPa (58 psi)

Regulatory Compliance	
Germany	KTW
USA	ANSI/NSF61

Typical Application / Operating Data	
Operating Mode	Dead-End/Cross-Flow
Typical Flux Range, Filtration	50 - 150 l/m²*h (29 - 88 gal/ft²*day)
Typical Flux, Backwash	250 l/m²*h (147 gal/ft²*day) (-10% / +20%)
Filtrate Flow Rate Range	5 - 14 m³/h (22 - 62 gpm)
Typical Transmembrane Pressure, Filtration	10 - 70 kPa (1.5 - 10 psi)
Typical Transmembrane Pressure, Backwash	50 - 200 kPa (7 - 30 psi)
Maximum Transmembrane Pressure	250 kPa (36 psi)
Typical Cleaning Chemicals	NaOH, HCl, NaOCl
pH-range During Cleaning	1 - 13
Maximum Instantaneous Free Chlorine Concentration	200 ppm @ pH ≥9.5
Maximum Free Chlorine Exposure	200000 ppm h @ pH ≥9.5

Variable Connect Concept - VCC

3M™ Liqui-Flux™ Membrane Module UF-PES Series, Type W20-08N are optionally equipped with one or two filtrate ports and end caps with axial or radial port. The connection of those ports is available as Victaulic® 76 mm or 73 mm.

Those options are defined by the following code:

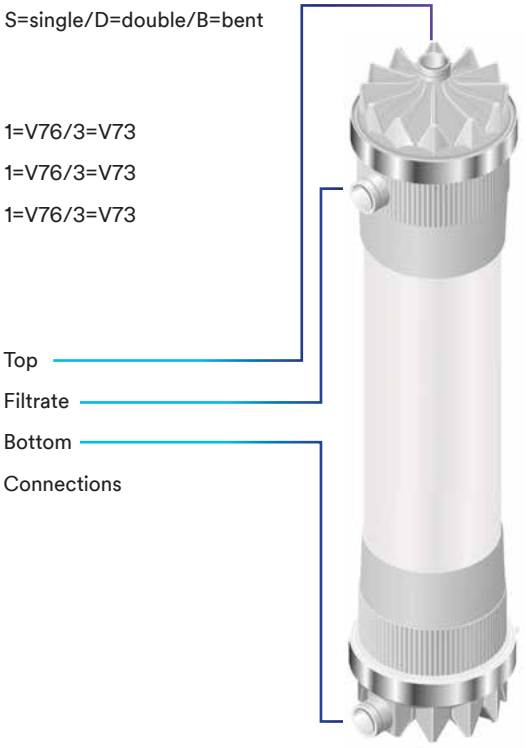
Example:

W20-08N-R A S 111

Type of bottom connection	R=radial/A=axial
Type of top connection	R=radial/A=axial
Type of filtrate connection	S=single/D=double/B=bent
Dimension of filtrate connection	1=V76/3=V73
Dimension of top connection	1=V76/3=V73
Dimension of bottom connection	1=V76/3=V73

All end caps are prepared to fasten the module directly on the skid or to connect it to other modules.

To obtain information on product configurations and dimensions, please refer to the separate 3M™ Liqui-Flux™ Membrane Module VCC Dimensions document available upon demand and on our website at **3M.com/Liqui-Flux**.



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