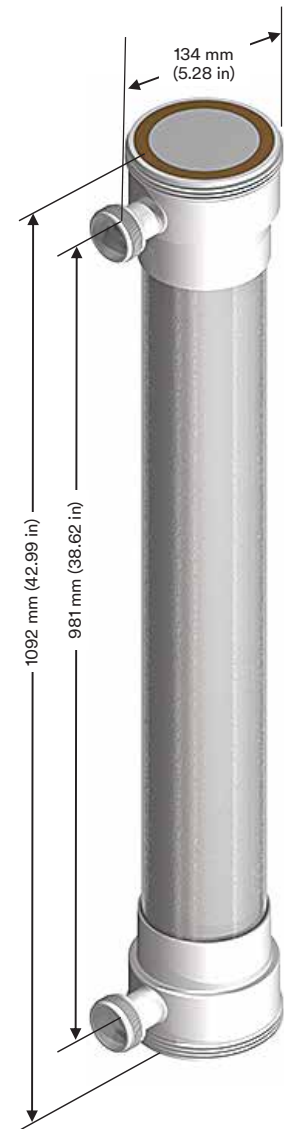




# 3M™ Liqui-Flux™ Membrane Module MF-PP Series, Type B221

## Typical Properties

Applications	
Intended Use	Wine Filtration
Module Characteristics	
Membrane Surface Area	9.1 m <sup>2</sup>
Membrane Type	MF-PP
Membrane Material	Polypropylene
Pore Size (nominal)	0.2 μm
Capillary Inner Diameter	1.2 mm
Operating Mode	Cross-Flow Filtration Inside-Out
Housing Material	Polysulfone
Potting Material	Polyurethane
Connection Concentrate	Screw connection 6" NPSM
Connection Filtrate	Screw connection 1½" NPSM
Maximum Housing Pressure at Temperature	4.0 bar at 20°C
Operating Conditions	
Maximum Transmembrane Pressure Inside - Outside	2.0 bar at 20°C 1.0 bar at 40°C
Maximum Back Flush Pressure Above Outlet Pressure	1.0 bar at 20°C 0.5 bar at 40°C
Inlet Liquid Volume Flow (for velocity of 1 m/s)	~10 m <sup>3</sup> /h
pH-range During Operation	2 – 10
pH-range During Short Term Cleaning	2 – 13
Cleaning Conditions	
Maximum Inlet Pressure at Temperature	1.0 bar at 70°C
Regulatory Compliance	
According (EU) 10/2011 & (EC) 1935/2004	



All dimensions are nominal.

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