



# 3M™ Liqui-Flux™ Membrane Module MF-PP Series, Type B21

## Typical Properties

| Applications                                      |                                  |
|---------------------------------------------------|----------------------------------|
| Intended Use                                      | Wine Filtration                  |
| Module Characteristics                            |                                  |
| Membrane Surface Area                             | 9.6 m <sup>2</sup>               |
| Membrane Type                                     | MF-PP                            |
| Membrane Material                                 | Polypropylene                    |
| Pore Size (nominal)                               | 0.2 µm                           |
| Capillary Inner Diameter                          | 1.8 mm                           |
| Operating Mode                                    | Cross-Flow Filtration Inside-Out |
| Housing Material                                  | Stainless steel/PVC-U            |
| Potting Material                                  | Polyurethane                     |
| Connection Concentrate                            | Flange connection 6.6" DIN 32676 |
| Connection Filtrate                               | Clamp connection 2" DIN 32676    |
| Maximum Housing Pressure                          | 16.0 bar                         |
| Operating Conditions                              |                                  |
| Maximum Transmembrane Pressure Inside - Outside   | 2.5 bar at 20°C                  |
|                                                   | 1.5 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)  | ~ 16.5 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 50°C                  |
| Regulatory Compliance                             |                                  |
| According (EU) 10/2011 & (EC) 1935/2004           |                                  |



All dimensions are nominal.

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