

# SEPRODYN® SE 020 TP 1N

## Crossflow Microfiltration Modules

SEPRODYN® crossflow microfiltration modules are used to separate suspended solids larger than 1.0 micron. The highly porous polyethylene membrane is backwashable, allowing for stable and efficient filtration with continuously high product flux. The smart construction techniques employed in the module manufacture allow them to be used in applications which require highly stable polymer materials, pH stability (0 to 14), and high resistance against abrasive substances. Feed streams with a high solids content are no problem for SEPRODYN due to the self-supporting and extremely robust tubular membranes with a large inner diameter of 5.5 mm. These tubular membranes are made of ultra-high molecular weight polyethylene, in a process patented by MANN-HUMMEL.

### MEMBRANE CHARACTERISTICS

<b>Membrane Material</b>	Polyethylene (PE)
<b>Membrane Tube Inner Diameter</b>	5.5 mm (0.2 inches)
<b>Nominal Pore Size</b>	1.0 µm

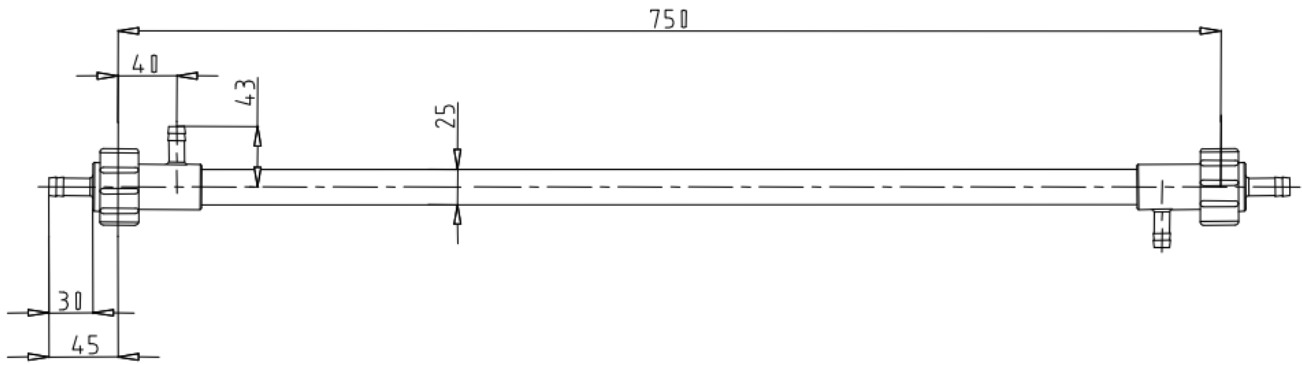
### MODULE SPECIFICATIONS

<b>Housing Material</b>	Polypropylene (PP)
<b>Sealing Material</b>	EPDM
<b>Number of Tubes</b>	46
<b>Nominal Membrane Area</b>	0.01 m <sup>2</sup> (0.1 ft <sup>2</sup> )
<b>Free Flow Area</b>	0.2 cm <sup>2</sup>

### OPERATING PARAMETERS

<b>Temperature Range</b>	5 - 40°C (41 - 104°F)
<b>Maximum TMP - Inside to Outside</b>	3.0 bar (43.5 psi) at 25°C (77°F) 2.0 bar (29.0 psi) at 40 °C (104 °F)
<b>Maximum Backpulse Pressure above Outlet Pressure</b>	2.0 bar (29.0 psi) at 25°C (77°F) 1.5 bar (21.8 psi) at 40°C (104°F)
<b>Feed Flow Rate at Axial Velocity of 1 m/s</b>	71 l/h
<b>pH Range</b>	0 - 14
<b>Housing Maximum Pressure</b>	<b>3.0 bar (43.5 psi)</b>

**PHYSICAL DIMENSIONS**



all dimensions in mm

<b>Length</b>	750 mm (29.5 inches)
<b>Diameter</b>	25 mm (1.0 inches)
<b>Connection for Concentrate</b>	Hose Nozzle, diameter 12 mm (0.5 inches)
<b>Connection for Permeate</b>	Hose Nozzle, diameter 10 mm (0.4 inches)

**IMPORTANT INFORMATION**

**Storage & Handling:** SEPRODYN Tubular Modules must be handled and stored appropriately to ensure proper operation and to prevent membrane damage. Please see SEPRODYN Tubular Modules – User Manual and SEPRODYN Tubular Modules – Handling Instructions.

MANN+HUMMEL Water & Fluid Solutions reserves the right to change specifications without prior notification.

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