

SCOTTCART AQUA MEMBRANE PES

30" CODE 7 FILTER CARTRIDGE

DESCRIPTION

The ScottCart Aqua Membrane PES cartridges are integrity testable membrane filters especially developed for filtration of water in the food & beverage industry. They are characterized by a unique hydrophilic Polyethersulfone membrane offering a broad chemical compatibility, exceptional high flow rates and total throughputs and highest microbiological safety.

APPLICATIONS

ScottCart Aqua Membrane PES cartridges can be used in applications which require a chemical disinfectant or cleaning with alkaline or acid, due to the broad chemical compatibility from pH 1 to pH 4.

TOTAL THROUGHPUT

The asymmetric pore structure of the Polyethersulfone membrane provides outstanding total throughputs and high flow rates. Economic system design for filtration processes is assured. The total throughput of the final filters can be significantly increased by an optimized prefilter system reducing the overall costs.

FLOW RATES

The highly effective filtration area of the ScottCart Aqua Membrane PES allows highest flow rates and economic filtration system design.

STABILITY

These cartridges withstand more than 5,000 pulsation cycles with differential pressure up to 5 bar (75 psi) and multiple steam sterilization cycles up to 134°C (273°F) without loss of filter integrity.

SAFETY

ScottCart Water Membrane cartridges guarantee the highest microbiological safety, which can be checked before and after every use with an integrity test. The microorganism removal efficiency is $>10^7/\text{cm}^2$ (*Brevundimonas diminuta*).

QUALITY CONTROL

Each individual element is tested for integrity during production by Bubble Point and Diffusion Testing to assure the highest product quality.

DOCUMENTATION

Cartridges are designed, developed and produced under a ISO 9001 certified Quality Management System.

SPECIFICATIONS

MATERIALS OF CONSTRUCTION

CARTRIDGE AREA	MATERIAL
FILTRATION MEMBRANE:	Polyethersulphone, asymmetric
FLEECES:	Polypropylene
OUTER PROTECTION CAGE:	Polypropylene
INNER CORE:	Polypropylene
END CAPS:	Polypropylene
O-RINGS:	Silicone

TECHNICAL SPECIFICATIONS

FILTER MATERIAL	Highly asymmetric, single layer, hydrophilic Polyethersulfone membrane
PORE SIZE	0.2 μm
FILTRATION AREA	0.7 - 0.8m ² (per 10")
ADAPTER	Code 7
MAX ALLOWABLE DIFFERENTIAL PRESSURE	5 bar (72.5 psi) at 20°C (68°F) 2 bar (29 psi) at 80°C (176°F)
MAX ALLOWABLE BACK PRESSURE	2 bar (29 psi) at 20°C (68°F)
STERILIZATION	Hot Water: 85–95°C (185–203°F), 30 min, Δp max. 0.5 bar (7 psi) Steaming: at 110°C (230°F) 30 min, Δp max. 0.5 bar (7 psi)



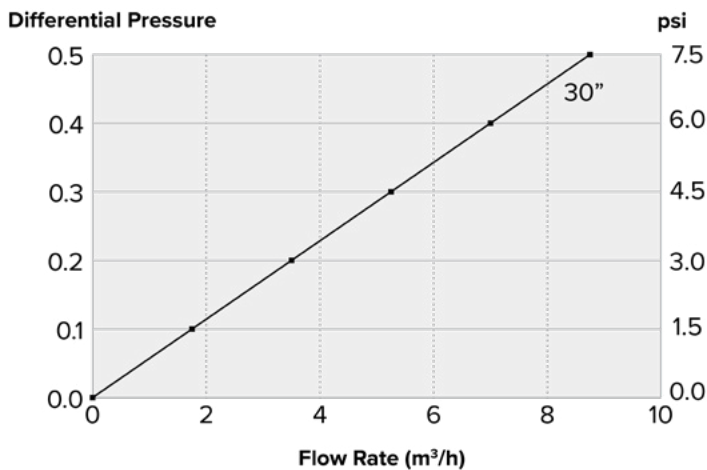
INTEGRITY TEST DATA

Each individual element is tested for integrity during production by Bubble Point and Diffusion Testing to assure the highest product quality.

All filters are flushed with pharmaceutical grade purified water prior to dispatch. They are integrity tested to the following limits:

PORE SIZE (µm)	0.2 µm
FILTRATION AREA (m²)	2.1 m²
MIN BUBBLE POINT (BAR/PSI)	3.2 bar/46 psi
TEST PRESSURE (BAR/PSI)	2.5 bar/36 psi
MAX DIFFUSION (ML/MIN)	63 ml/min

WATER FLOW RATES FOR 30" CARTRIDGE



Standardized at 20°C (68°F)

COMPATIBILITY

ScottCart Aqua Membrane PES cartridges are fully suitable for use in the food and beverage industry. They have a pH compatibility from pH 1 to pH 4.

MANUFACTURING TRACEABILITY

Each filter cartridge displays the product name, product code and lot number. Additionally, each module displays a unique serial number providing full manufacturing traceability.

ORDERING INFORMATION

- 0.2 micron, 30" Code 7, item number: 6500203