

OLTRE_{CAP}-V Series Outside-In AIR SCOUR ULTRAFILTRATION MEMBRANES

PRODUCT DESCRIPTION	Membrane Material	PVDF
	Membrane Configuration	Capillary
	Normalized Filtration Pore Size	0.075µm
	Potting Material	Epoxy
	Housing Material	PVC/ABS
	Membrane ID/OD	0.9/1.4mm (0.035/0.055")
	Preservative	Glycerin (35%)

MODULE SPECIFICATIONS	Model	Membrane area
	OLTRE _{CAP} -1030-V	32.5m ² (403.6 ft ²)
	OLTRE _{CAP} -1060-V	70m ² (753.2 ft ²)
	OLTRE _{CAP} -1080-V	95m ² (1022.5ft ²)

APPLICATION DATA	Typical Filtrate Flux	50-120 L/m ² h (29-71 GFD)
	Maximum Applied Feed Pressure	0.5 MPa (73psi)
	Maximum TMP	0.2 MPa (30psi)
	Maximum Backwash Pressure	0.2 MPa (30psi)
	CIP Chlorine Concentration	2000ppm
	Operating Temperature	5-45°C (41-113°F)
	Operating pH Range	1-10
	Operation Mode	Dead-end or Cross flow, Interval or continues air scrubbing

TYPICAL PROCESS CONDITIONS	Backwash Flux	70-150L/m ² h (41 - 88 GFD)
	Backwash Duration	30-120 seconds
	Backwash Frequency	15-60 minutes
	CEB Frequency	Minimum one time per day
	CEB Duration	2-20 minutes
	Cleaning Chemicals©	NaClO or H ₂ O ₂ , NaOH, HCL, citric acid or oxalic acid



SPECIAL FEATURE

Robust Membrane (State of Art Technology)

OLTRECAP membrane is made by unique technology called as “complex Thermally Induced Phase Separation” (c-TIPS) technology which endows to membrane with high crystallinity. As result the membrane is good at chemical resistance, mechanical strength and longer life time.

Permanently Hydrophilic Membrane (State of Art Technology)

The operation flux of most of UF or MF membrane products is much lower than their initial flux resulting from the loss of membrane hydrophilicity by polymer reconfiguration. OLTRECAP PVDF UF membrane remains hydrophilic permanently and thus offers steady flux.

Low operation pressure

Typically, OLTRECAP membrane is designed to be run at pressure as low as 0.02MPa (3.0psi) to produce enough water.

Oxidation-inert Membrane

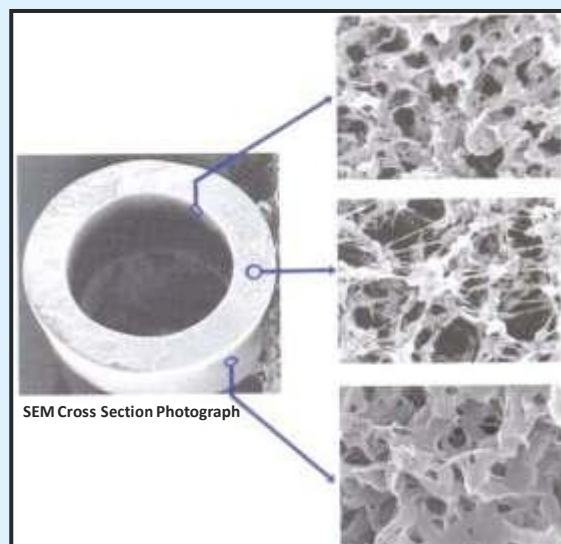
OLTRECAP Series membrane modules can be cleaned thoroughly by strong oxidant because of the chemical inertness of PVDF polymer

Internal Air Channels (State of Art Technology)

An individual air diffuser is installed blow each of the membrane modules so that air can be evenly bubbled through the membrane bundle. The pollutants may effectively be scrubbed away by air bubbles.

Soft Potting (State of Art Technology)

The “roots” of the capillaries are the weakest portions in membrane modules and may be broken during operation. These portions of membranes in OLTRECAP UF modules are protected by a soft layer of potting material.



APPLICATION

OLTRECAP -V membrane modules can be used to purify well and surface water for drinking applications, to filter sewage and waste water for water recycle, and to treat surface or sea water for RO and NF systems.

SEM Cross-Section Photograph



LENNTech

info@lenntech.com Tel. +31-152-610-900

www.lenntech.com Fax. +31-152-616-289

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MODULE DIMENSIONS

	A	B	C	D	E	F	G	H
OLTRE _{CAP} -1030-V	800mm (31.5")	750mm (29.6")	858mm (33.8")	φ250mm (φ9.8")	172mm (6.8")	φ277mm (φ10.9)	40mm (φ1.6")	75mm (3.0")
OLTRE _{CAP} -1060-V	1600mm (63.0")	1500mm (59.1")	1715mm (67.5")	φ250mm (φ9.8")	172mm (6.8")	φ277mm (φ10.9")	40mm (φ1.6")	75mm (3.0")
OLTRE _{CAP} -1080-V	2100mm (82.7")	2000mm (78.7")	2215mm (87.2")	φ250mm (φ9.8")	172mm (6.8")	φ277mm (φ10.9")	40mm (φ1.6")	75mm (3.0")

Illustrate: Feed, Permeate and Concentrate pipe connections are all VICTAULIC 2 .

LENNTech

Tel. +31-15-261.09.00 info@lenntech.com

Fax. +31-15-261.62.89 www.lenntech.com

