



<b>PRODUCT DESCRIPTION</b>	Membrane Material	PVDF
	Membrane Configuration	Capillary
	MWCO ( Molecular Weight Cut Off)	0.075 µm
	Potting Material	Epoxy
	Housing Material	UPVC
	Preservative	Glycerin (35%)

<b>MODULE SPECIFICATIONS</b>	MODEL	Membrane ID/OD	Membrane Area
	OLTRE <sub>CAP</sub> -1030 - V	0.7/1.3 mm ( 0.028/ 0.051" )	35 m <sup>2</sup> ( 376.6 ft <sup>2</sup> )
	OLTRE <sub>CAP</sub> -1060 - V	0.7/1.3 mm ( 0.028/ 0.051" )	75 m <sup>2</sup> ( 807.0 ft <sup>2</sup> )
	OLTRE <sub>CAP</sub> -1080 - V	0.7/1.3 mm ( 0.028/ 0.051" )	105 m <sup>2</sup> ( 1130.2 ft <sup>2</sup> )

<b>APPLICATION DATA</b>	Typical Filtrate Flux	50 -120 L/m <sup>2</sup> · h ( 29 -71 GFD )
	Maximum Applied Feed Pressure	0.5 MPa ( 73 psi )
	Maximum TMP	0.2 MPa ( 30 psi )
	Maximum Backwash Pressure	0.2 MPa ( 30 psi )
	CIP Chlorine Concentrate	3000 ppm
	Operating Temperature	5 - 40 ( 41 -104 )
	Operating pH Range	1-12
	Operation Mode	Dead-end or cross flow, interval or continuous air scrubbling

<b>TYPICAL PROCESS CONDITIONS</b>	Air Scrubbling Rate	5 - 12 N m <sup>3</sup> /h per module
	Backwash Flux	90 - 110 L/m <sup>2</sup> · h ( 53 - 65 GFD )
	Backwash Duration	30 - 120 seconds
	Backwash Frequency	15 - 60 minutes
	CEB Frequency	0 - 4 times per day
	CEB Duration	2-20 minutes
	Cleaning Chemicals	NaClO or H <sub>2</sub> O <sub>2</sub> , NaOH, HCl, citric acid or oxalic acid



**Robust Membrane ( State of Art Technology )**

OLTRE<sub>CAP</sub> membrane is made by unique technology called as "complex thermally induced phase separation " (c-TIPS) technology Which endows to membrane with high cristallinity. As result the membrane has good chemical resistance, mechanical strength and longer life time.

**SPECIAL FEATURES**

**Permanently Hydrophilic Membrane (proprietary technology)**

The stabilized operating flux for most of UF or MF membrane products is much lower than their initial flux resulting from loss of membrane hydrophilicity by polymer reconfiguration. OLTRE<sub>CAP</sub> UF PVDF membranes ensures steady flux by fixing the hydrophilicity permanently.

**Low Operation pressure**

Typically OLTRE<sub>CAP</sub> UF membrane is designed to run at pressure As low as 0.02 MPa ( 3.0 psi ) to produce enough water

**Oxidation – Inert Membrane**

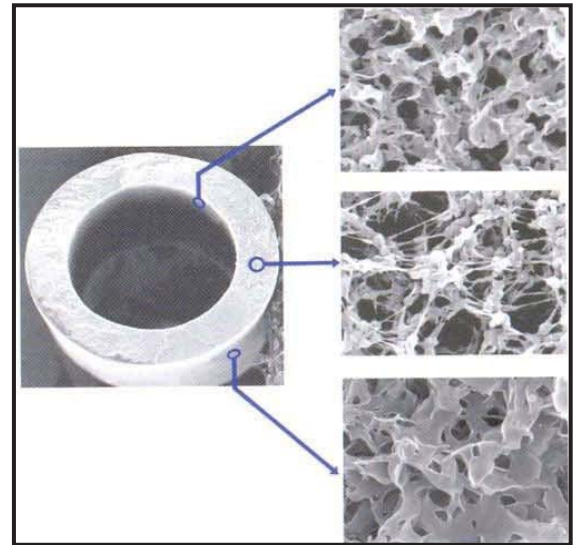
OLTRE<sub>CAP</sub> V serie membrane modules can be cleaned thoroughly by strong oxidant because of the chemical inertness of the PVDF polymer.

**Internal Air Channel (State of Art Technology )**

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

**Soft Potting (Patented Technology)**

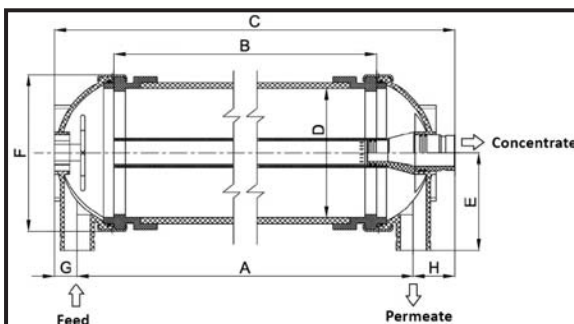
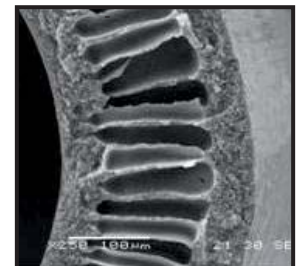
The "roots" of the capillaries are the weakest portions in membrane modules, and may break during operation. These portions of membranes in OLTRE<sub>CAP</sub> UF modules are protected by a soft layer of potting material.



**APPLICATIONS**

OLTRE<sub>CAP</sub> - V membrane modules can be used to purify well and surface water for drinking water, to filter treated waste water for reuse, or filter surface or sea water before RO or NF systems.

SEM Cross Section Photograph



**MODULE DIMENSION**

	A	B	C	D	E	F	G	H
OLTRE <sub>CAP</sub> -1030 - V	850mm (33.5")	750mm (29.6")	965mm (38")	Ø250mm (Ø9.8")	172mm (6.8")	Ø286mm (Ø11.3")	40mm (1.6")	75mm (3.0")
OLTRE <sub>CAP</sub> -1060 - V	1600mm (63.0")	1500mm (59.1")	1715mm (67.5")	Ø250mm (Ø9.8")	172mm (6.8")	Ø286mm (Ø11.3")	40mm (1.6")	75mm (3.0")
OLTRE <sub>CAP</sub> -1080 - V	2100mm (82.7")	2000mm (78.7")	2215mm (87.2")	Ø250mm (Ø9.8")	172mm (6.8")	Ø286mm (Ø11.3")	40mm (1.6")	75mm (3.0")