



<b>PRODUCT DESCRIPTION</b>	Membrane Material	Proprietary Terpolymer
	Membrane Configuration	Capillary
	MWCO ( Molecular Weight Cut Off)	80,000 Dalton
	Potting Material	Epoxy
	Housing Material	UPVC
	Preservative	Glycerin (35%)

<b>MODULE SPECIFICATIONS</b>	MODEL	Membrane ID/OD	Membrane Area
	OLTRE <sub>CAP</sub> -1030 – T- B	1.0/1.7 mm ( 0.039/ 0.059" )	19 m <sup>2</sup> ( 204.5 ft <sup>2</sup> )
	OLTRE <sub>CAP</sub> -1060 – T- B	1.0/1.7 mm ( 0.039/ 0.059" )	40 m <sup>2</sup> ( 430.5 ft <sup>2</sup> )
	OLTRE <sub>CAP</sub> -1080 – T- B	1.0/1.7 mm ( 0.039/ 0.059" )	55 m <sup>2</sup> ( 590.0 ft <sup>2</sup> )

<b>APPLICATION DATA</b>	Typical Filtrate Flux	50 -130 L/m <sup>2</sup> · h ( 30 -77 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	100 - 200 ppm
	Instantaneous H <sub>2</sub> O <sub>2</sub> Tolerance	200 ppm
	Operating Temperature	5 - 40 ( 41 -104 )
	Operating pH Range	1~13
	Operation Mode	Dead-end or cross flow, cross flow preferred

<b>TYPICAL PROCESS CONDITIONS</b>	Backwash Flux	180 - 240 L/m <sup>2</sup> · h ( 106 - 141 GFD )
	Backwash Duration	30 - 60 seconds
	Backwash Frequency	15 - 120 minutes
	CEB Frequency	0 - 4 times per day
	CEB Duration	1 -10 minutes
	Cleaning Chemicals	NaClO or H <sub>2</sub> O <sub>2</sub> , NaOH, HCl, citric acid or oxalic acid



**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 membrane hydrophilic by polymer reconfiguration. OLTRE<sub>CAP</sub> UF membranes ensures steady flux by fixing the hydrophilicity permanently, using a cross - linked technology.

**Lower Molecular Weight Cut Off**

Typically OLTRE<sub>CAP</sub> UF membrane offers very fine filtration at a MWCO at 80,000 Dalton, which is the very high end of UF filtration grade in water treatment.

**Larger Diameter Capillaries**

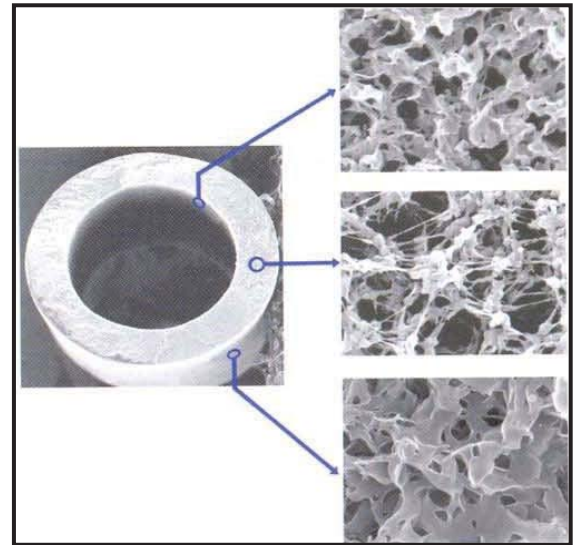
Larger diameters of the capillaries endow better anti-fouling properties to the membranes. OLTRE<sub>CAP</sub> UF presents larger diameter UF capillary membranes (ID/OD=1.0/1.7mm) for better performances.

**Even Arrangement of the Membranes (patented technology)**

A large number of membrane capillaries are evenly distributed inside a pressure vessel by a so-called sub-grouping technology so that each membrane capillary works in very similar environments.

**Soft Potting (patented technology)**

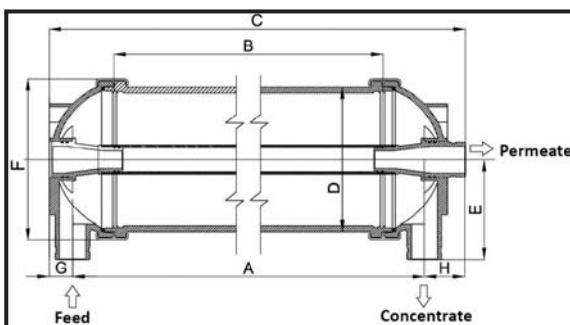
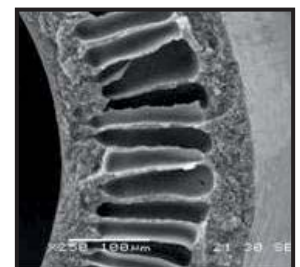
The "roots" of the capillaries are the weakest portions in membrane modules, and may break during operation. These portions of membranes in OLTRE<sub>CAP</sub> UF modules are protected by a soft layer of potting material.



**APPLICATIONS**

OLTRE<sub>CAP</sub> - T 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 - T - B	850mm (33.5")	750mm (29.6")	965mm (38")	Φ250mm (Φ9.8")	172mm (6.8")	Φ286mm (Φ11.3")	40mm (1.6")	75mm (3.0")
OLTRE <sub>CAP</sub> -1060 - T - B	1600mm (63.0")	1500mm (59.1")	1715mm (67.5")	Φ250mm (Φ9.8")	172mm (6.8")	Φ286mm (Φ11.3")	40mm (1.6")	75mm (3.0")
OLTRE <sub>CAP</sub> -1080 - T - B	2100mm (82.7")	2000mm (78.7")	2215mm (87.2")	Φ250mm (Φ9.8")	172mm (6.8")	Φ286mm (Φ11.3")	40mm (1.6")	75mm (3.0")