



HEADWORKS
BIOLOGY
SEPARATION
▶ MEMBRANE
DISINFECTION
BIOSOLIDS
SYSTEMS

USER FRIENDLY

HIGH
PERMEABILITY

TOUGHNESS

RESISTANCE

▶ Applications

- Surface water
- Process water
- Recycling (Municipal and Industrial)
- Sea water desalination
(Reverse Osmosis pretreatment)

▶ Main characteristics

- From 7 to 150 m² of filtration area



ALTEON™ is the hydrophilic polysulfone membrane developed by Degrémont Technologies-Aquasource. ALTEON™ membranes are available in a wide range of modules, from 7 to 150 m² of filtration area.

MAIN FEATURES

- Bacteria and Cysts removal > 6 log
- Viruses removal 2 to 3 log
- High resistance to chemicals and wide range of pH

- Reduction of chlorine residual rate
- Conventional chemicals used
- Drinking water certifications in France (DGS) and USA (NSF)

MEMBRANE TECHNOLOGY: ALTEON™

ALTEON™ is a Degrémont Technologies-Aquasource ultrafiltration membrane with one of the lowest cut off value of the market. Ultrafiltration is simply a physical process where clarification and filtration stages are both carried out simultaneously.

HOW IT WORKS

ALTEON™ are hollow fibres membranes filtering from the inside to the outside. The fibres are assembled in bundles and then placed inside a composite material tube. The bundles are held together using resin, providing perfect and permanent sealing of the module, thus achieving very high efficiency rates with respect to viruses retention.

Ultrafiltration is a low pressure process.

The wall acts as a filter for all particles larger than 0.02 micron: pollen, algae, parasites, bacteria, viruses, germ and large organic molecules. The result is perfectly pure water, with a turbidity lower than 0.1 NFU.

The retained particles accumulate on the surface of the skin and are therefore easily removed when cleaning in reverse flow.

TECHNICAL DATA

ALTEON™ Model	Internal Diameter	Pores Diameter	MWC0	Water Permeability ⁽¹⁾	Filtration Area	Net Average Production ⁽²⁾	pH Range	Maximal Transmembrane Pressure		
								Backwash	Dead end	Cross Flow
								bar	bar	bar
M PSF	0.80	0.02	150	650 +/- 100	8.7	0.9	2 < pH < 12	2	0.7	1
M PSF	1.08	0.02	150	550 +/- 100	7.1	0.7	2 < pH < 12	2	0.7	1
LPSF 75	0.80	0.02	150	650 +/- 100	75.0	7.5	2 < pH < 12	2	0.7	1
LPSF 60	1.08	0.02	150	550 +/- 100	60.0	6.0	2 < pH < 12	2	0.7	1
PS1150	0.80	0.02	150	650 +/- 100	150.0	15.0	2 < pH < 12	2	0.7	1
PS1120	1.08	0.02	150	550 +/- 100	120.0	12.0	2 < pH < 12	2	0.7	1

(1) at 20°C with Ultrafiltered Water,
(2) net production: depending of raw water quality

► Standard

- **Membrane configuration:** hollow fiber
- **Flow:** inside out
- **Temperature:** 1 to 35°C/34 to 95° F

► Areas of applications*

- **Raw Water pH:** 2 to 12
- **Maximum Turbidity:** < 200 NTU
- **UV254 mm/TOC:** < 4
- **Algae:** < 1 500/ml
- **Dissolved Iron:** < 200 µg/L
- **NH4+:** < 0.2 mg/L
- **Manganese:** < 50 µg/L
- **Co,Cu,Cr:** < 50 µg/L

*Values are given as an indication.
Out of this range please consult Degrémont Technologies-Aquasource

► Materials

- **Membrane:** hydrophilic polysulfone
- **Housing:** composite
- **Drinking water certifications:** France (DGS), USA (NSF)

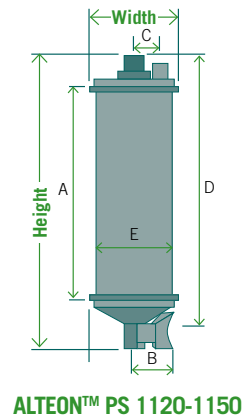
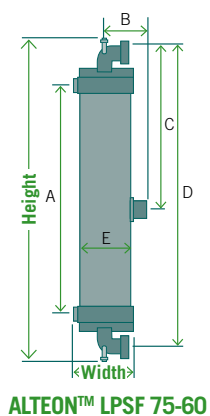
► Options

All the equipments required for the operation and maintenance of the module:

- Integritest for module integrity check,
- Aquarepair for membrane reparation,
- Specific handling equipment.

DIMENSIONS

ALTEON™ Model	Module (mm)					h x w	Weight	
	External Diameter (E)	B	C	D	A		Empty	Filled
							kg	kg
M PSF	100	260	837.5	1675	1300	1884 x 114.0	2.5	4
M PSF	100	260	837.5	1675	1300	1884 x 114.0	2.5	4
LPSF 75	300	260	837.5	1675	1300	1884 x 323.9	50.0	115
LPSF 60	300	260	837.5	1675	1300	1884 x 323.9	50.0	115
PS1120	450	340	155.0	1634	1320	1880 x 524.0	110.0	230
PS1150	450	340	155.0	1634	1320	1880 x 524.0	110.0	230



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