



HEADWORKS
BIOLOGY
SEPARATION
▶ MEMBRANE
DISINFECTION
BIOSOLIDS
SYSTEMS

RELIABLE

USER FRIENDLY

ENV-FRIENDLY

KNOW-HOW
FEED BACK

▶ Applications

- Drinking water:
 - ground water
 - surface water
 - polishing
- Process water

▶ Main characteristics

- From 1 to 125 m² of filtration area



LIFEA™ is the first cellulose triacetate membrane developed by Degremont Technologies - Aquasource. Triacetate material is naturally hydrophilic and therefore offers limited clogging. This membrane is available in a wide range sizes: from 1 to 125 m² of filtration area per module.

MAIN FEATURES

- Bacteria and Cysts removal > 7 log
- Viruses removal > 6 log
- More than 15 years of know-how feedback
- Excellent mechanical resistance

- Only few chemical cleaning required
- Drinking water certification in France (DGS), USA (NSF), Japan (AMST)

MEMBRANE TECHNOLOGY: LIFEA™

LIFEA™ is a Degremont technologies-Aquasource Ultrafiltration membrane with one of the lowest cut off value of the market (0.01 µm).

Ultrafiltration is simply a physical process where clarification and filtration stages are both carried out simultaneously. Ultrafiltration is a low pressure process.

HOW IT WORKS

LIFEA™ is a hollow fibre membrane filtering from the inside to the outside. The fibres are assembled in bundles and then placed inside a composite 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 virus retention.

Ultrafiltration is a barrier to all particles larger than 0.01 micron: pollen, algae, parasites, bacteria, viruses, germ and large organic molecules. The result is a perfectly pure water, with a balance of mineral salts maintained 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

LIFEAT™ Model	Internal Diameter	Pores Diameter	MWCO	Water Permeability ⁽¹⁾	Filtration Area	Net Average Production ⁽²⁾	pH Range	Maximal Transmembrane Pressure		
								Backwash	Dead end	Cross Flow
								bar	bar	bar
SM1A35	0.93	0.01	80	300+/-50	1	0.1	3.5 < pH < 8.5	2.5	1	1.5
A1A35	0.93	0.01	80	300+/-50	7	0.7	3.5 < pH < 8.5	2.5	1	1.5
L1B35-55	0.93	0.01	80	300+/-50	55	5.5	3.5 < pH < 8.5	2.5	1	1.5
L1B35-64	0.93	0.01	80	300+/-50	64	6.4	3.5 < pH < 8.5	2.5	1	1.5
AC1125	0.93	0.01	80	300+/-50	125	12.5	3.5 < pH < 8.5	2.5	1	1.5

(1) at 20°C with Ultrafiltered Water

(2) production at 20°C

► Standard

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

► Areas of applications*

- **Raw Water pH:** 3.5 to 8.5
- **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:** cellulose triacetate
- **Housing:** composite
- **Drinking water certifications:** France (DGS), USA (NSF), Japan (AMST)

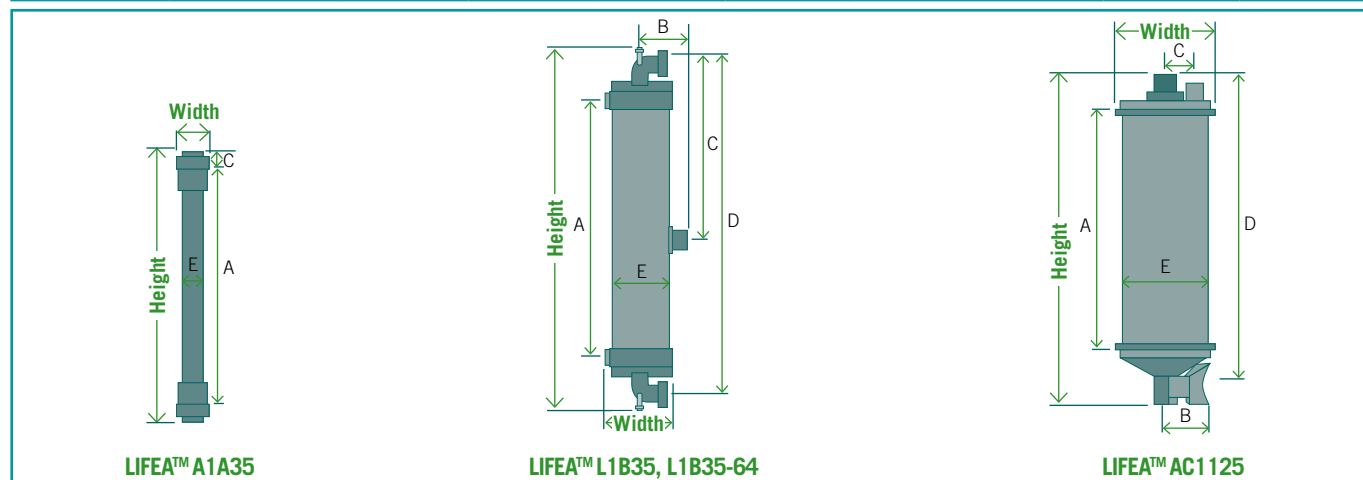
► Options

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

- Integritytest for modules integrity check,
- Aquarepair for membrane reparation,
- Specific handling equipment.

DIMENSIONS

LIFEAT™ Model	Module (mm)					h x w	Weight	
	External Diameter(E)	A	B	C	D		Empty	Filled
SM1A35	40					790 x 63	2.5	4
A1A35	100	1153	-	115.0	-	1384 x 114.0	14.0	22
L1B35-55	300	1300	260	837.5	1675	1884 x 323.9	50.0	115
L1B35-64	300	1300	260	837.5	1675	1884 x 323.9	50.0	115
AC1125	450	1320	340	155.0	1634	1634 x 524.0	110.0	230



Contacts www.degrement-technologies.com

Degrémont Technologies - Aquasource
20, avenue Didier Daurat - BP 64050
31029 TOULOUSE Cedex 4
FRANCE

Tel: + 33 5 61 36 30 36

Fax: + 33 5 61 36 30 60

e-mail: info-aquasource@degtec.com

Your local distributor: