



HEADWORKS
BIOLOGY
SEPARATION
▶ MEMBRANE
DISINFECTION
BIOSOLIDS
SYSTEMS

USER FRIENDLY

ENV-FRIENDLY

RELIABLE

PRODUCTIVITY

▶ Applications

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

▶ Main characteristics

- From 70 to 140 m² of filtration area



INEA™ is the latest cellulose triacetate membrane developed by Degremont Technologies-Aquasource. The triacetate material is naturally hydrophilic and is therefore less subject to clogging. This membrane is available in a wide range of sizes, from 70 to 140 m² of filtration area per module.

MAIN FEATURES

- Bacteria and Cysts removal > 7 log
- Viruses removal > 6 log
- High productivity membrane
- Excellent mechanical resistance
- Only few chemical cleaning required
- Drinking water certification in France (DGS), USA (NSF), Japan (AMST), ...

MEMBRANE TECHNOLOGY: INEA™

INEA™ is a Degremont Technologies-Aquasource Ultrafiltration membrane with one of the lowest cut off value on 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

INEA™ 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, and a turbidity lower than 0.1 NFU.

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

TECHNICAL DATA

INEA™ 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
L1B35-70	0.85	0.01	80	350+/-50	70	7	3.5 < pH < 8.5	2.5	1	1.5
AC1140	0.85	0.01	80	350+/-50	140	14	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:** < 100 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)

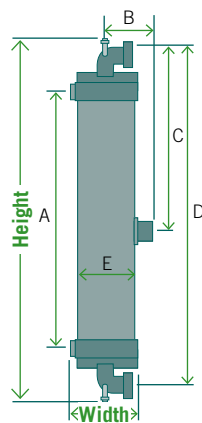
► Options

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

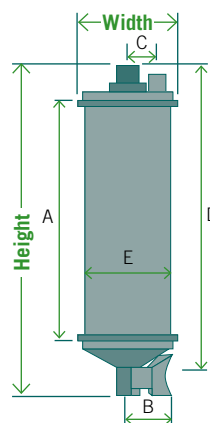
- Integritytest for modules integrity check,
- Aquarepair for membrane reparation,
- Specific handling equipment.

DIMENSIONS

INEA™ Model	Module (mm)					h x w mm	Weight	
	External Diameter (E)	A	B	C	D		Empty	Filled
							kg	kg
L1B35-70	300	1300	260	837.5	1675	1884 x 323.9	50	115
AC1140	450	1320	340	155.0	1634	1634 x 524.0	110	230



INEA™ L 1B35-70



INEA™ AC1140



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