

SEPARATION PROCESSES

ILHA. ULTRAFILTRATION MEMBRANES FOR DEGREASING REGENERATION

ILHA CERAMIC MEMBRANES

HOUSING

Material	Stainless Steel AISI 304 Pickled optional AISI 316 L Pickled
Seals housing	PTFE
N° of elements	1 - 3 - 7 - 19 - 37
Coupling	tri-clamp type

These membrane elements are ideal for applications that involve extreme processes, such as high solids bulk presence, high temperatures, strong alkaline or acidic solutions or aggressive solvents and where significant long-term durability is required.

The membrane has a tubular shape with several channels. The surface in contact with the fluids has an active layer which determinate the porosity (cut off) of the filter. The range of cut off is: from 300 kd up to 0,14 microns (fine ultrafiltration, ultrafiltration, microfiltration).

Features:

- Reliability
- Ease to use
- High flux (around 150 l/hm² for alkaline solution at 80°C)
- Proven long operational life
- Wide chemical and pH (0-14) compatibility
- Solvent resistant
- Excellent thermal stability
- Sanitizable and sterilizable
- Element burst pressure > 50 bar
- Ability to withstand high frequency backpulsing for mechanical cleaning
- Reduction of industries environmental impact .

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Application field: Regeneration of degreasing solutions silicates and hydrofluoric acid free

ELEMENT DATA

Configuration	Cylindrical
Selective membrane material	Ceramic
Carrier material	Ceramic
Temperature tolerance	Up to 800°C

APPLICATION DATA

Operating pressure	Max 10 bar TMP
Maximum operating temperature	140°C
Maximum chlorine concentration	Unlimited
pH tolerance	0 - 14
Clearing	Chlorine, acid, caustic, solvents, oxidizers
Maximum negative TMP	5 bar

SPECIFICATION SHEET

Model	Lenght	N° channel	Ø channel (mm)	Membrane area (m ²)	Porosity (microns)
ILHA CM1	1200	23	2,5	0,35	0,14 µm (MF)
ILHA CM2	1200	23	2,5	0,35	300 kd (UF)

ACCESSORIES

Conical seal in EPDM, Chloroprene, Viton.

