ULTRESSA®

SUSTAINABLE WATER SOLUTIONS FOR LIFE

CFS Ceramic Flat Sheet Membrane Module

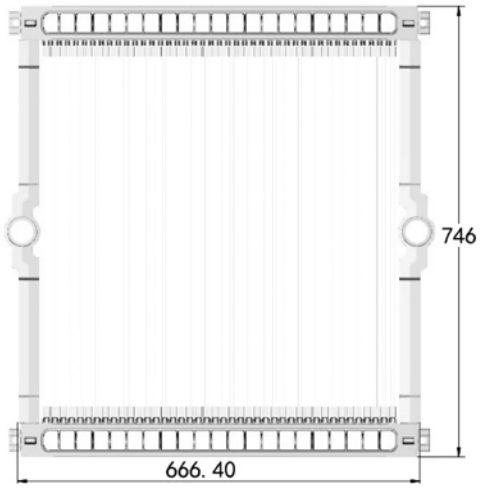
Ultressa delivers robust membrane solutions to treat the most challenging water and wastewater. The Ultressa CFS unique submerged ceramic membrane provides stackable modules that are formulated for treating (1) water: upgrade media filters for flow and to meet the highest standards including NSF compliance; (2) wastewater: MBRs are imparted with high reliability.

Ultressa CFS pore size and materials are optimized to remove fine particles, bacteria, coagulated materials and even oil droplets, thereby providing pristine filtrate, while maintaining attractive flux rates by way of its hydrophilic membrane material. This results in a solution with a small footprint, attractive capital and life cycle cost, reduced fouling and reliable effluent quality. Contact us to find out more about Ultressa CFS submerged ceramic microfiltration membranes and our complete solutions for water and wastewater treatment.

ULTRESSA CERAMIC SUBMERGED MEMBRANE OPERATING RANGES AND KEY SPECIFICATIONS

Pore size	100 nanometer / 0.1 micron
pH Range: continuous // CIP	2.5 – 9.5 pHU // 1.5 – 11.5 pHU
Temperature: continuous and CIP	1 – 45°C, 34 – 113°F
Maximum Operating Pressure	Backwash: 1.2bar, 17.4psig; Production: -0.7bar, -10.2psig
Typical Operating Flux, MBR	15 – 68 LMH, 9 – 40 GFD (contact CrossTek for design flux)
Typical Operating Flux, Water	100 – 600 LMH, 59 – 353 GFD (contact CrossTek for design flux)
Channel spacing	6.7 mm / 0.26”
Feed O&G limit	<50 mg/l for alumina; <200 mg/l for SiC *
Feed TSS limit	< 1,000 mg/l for water/wastewater* < 15,000 mg/l for MBR*
Pre-Filter Required	< 2 mm for MBR < 1 mm for Water/Wastewater
Element membrane area	7.4 m^2, 79.6 ft^2
Weight (dry)	100 lbs / 45 kg
Certifications	NSF 61

***note:** correct aeration, flux, recovery/RAS rate and pre-treatment employed, Ultressa to advise



Dimensions in millimeters:
160 mm = 6.29”
746 mm = 29.4”
666.4mm = 26.2”

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