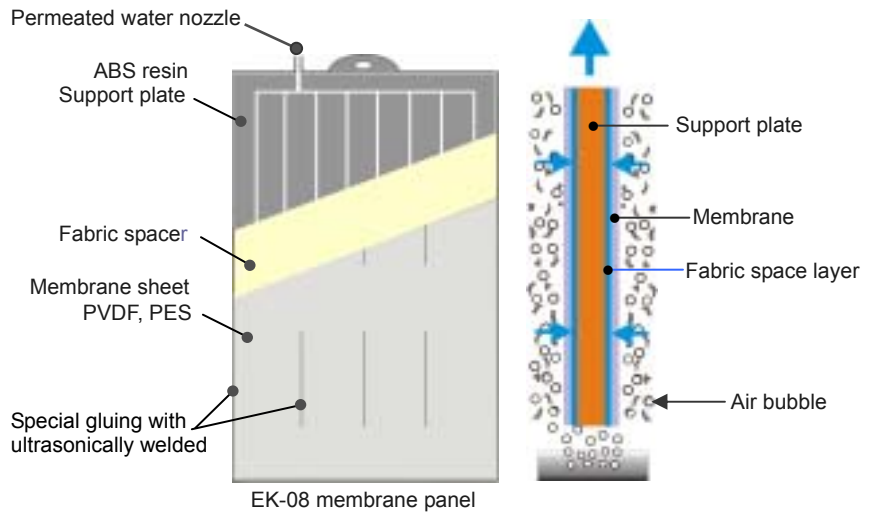


EcoPlate™ Flat plate Membrane Module

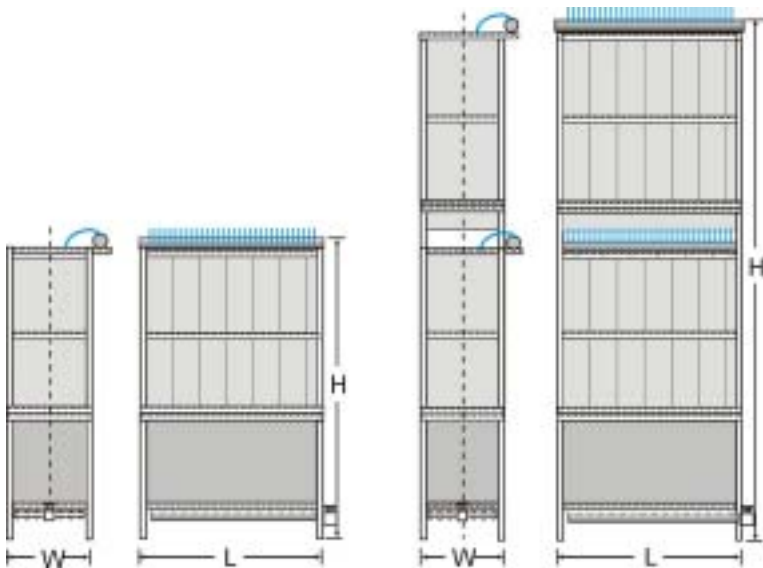
Using PES and PVDF for the functional layer of the membrane and PET non-woven fabric as the base layer allows the membrane to exhibit superior physical strength and chemical stability. Uniform 0.08µm pore size results in consistently high water permeability with minimal pore clogging. Each membrane panel is constructed by special adhesive gluing and ultrasonically welding a membrane sheet to the ABS resin support plate. This designed make membrane panel compact and chemical in-line cleaning in place (CIP). The EcoPlate™ module configuration comprises a panel block and an aeration block. The panel block contains a number of membrane panel stacked at equal intervals. Between the membrane panels, a spacer is laid to distribute filtered water into a series of channels that lead to a nozzle on top of the plate. The aeration block consists of air diffusers to provide adequate oxygen for biological treatment and scour the membrane surface to prevent fouling. This structure ensures higher treated water quality and minimizes membrane fouling and pore clogging for consistently high water permeability.

EcoPlate™ membrane panel



Membrane & Operations condition

- Membrane: PVDF,PES
Origin: U.S.A.
- Pore size: 0.08µm, 0.4µm available
- Membrane panel: P/N EK-08
W.490mm x H.1,000mm x T. 6mm
Effective area 0.8m²/panel
- Transmembrane pressure(TMP):
Filtration ~20kPa
- Max. operation temp.: 40°C
- pH range: 6~8 at activated sludge tank
- Design flux: 0.4~0.85m³/m²/day
- Operating cycle:
Filtration 9min., Pause 1min.
- Scouring air rate: 0.75m³/hr/m²



EcoPlate™ EK series Compact Module Specifications

Single deck module	EK-50S	EK-80S	EK-100S	EK-120S	EK-150S	EK-200S
Membrane area,m ²	40.0	64.0	80.0	96	120.0	160.0
Dimensions:Lx W.xH, cm	82 x 61 x 190	110 x 61 x 190	152 x 61x 190	180 x 61 x 190	222 x 61 x190	292 x 61 x 190
Double deck module	EK-100D	EK-160D	EK-200D	EK-240D	EK-300D	EK-400D
Membrane area,m ²	80.0	120.0	160.0	196	240.0	320.0
Dimensions:Lx W.xH, cm	82 x 61 x 350	110 x 63 x 350	152 x 63 x 350	180 x 66 x 350	222 x 66 x 350	292 x 66 x 350

- Specifications subject without notice due to technical modifications or production changes
- Custom size of module available