

## EcoSepro™ Flat Sheet Membrane Module

Using PVDF and PES 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 two of membrane sheet, two non-woven space layer and ABS support plate in the middle. This designed make membrane panel self-supporting and compact.

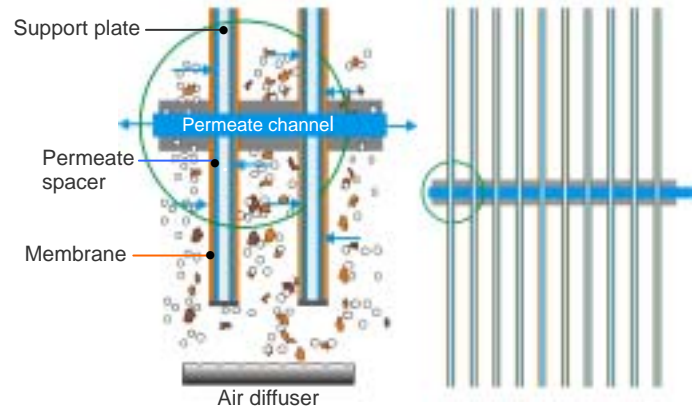
Designed open channel reduced module fouling from human hair and other obstructive substance. Therefore, it results in fewer chemical cleaning.

EcoSepro™ membrane cartridge



Membrane & Operation condition

- Membrane: PVDF, PES. Origin: U.S.A
- EcoSepro™ membrane cartridge
  - 6m<sup>2</sup> effective area/cartridge
  - W. 330mm x H. 1,000mm x T. 100mm
- Pore size: 0.08µm, 0.4µm available
- Transmembrane pressure(TMP):  
Filtration ~20kPa
- Max. operation temp.: 40°C
- pH range: 6-8 at activated sludge tank
- Design flux: 0.4~0.85m<sup>3</sup>/m<sup>2</sup>/day
- Operating cycle: Filtration 9min, Pause 1min.
- Scouring air rate:0.5m<sup>3</sup>/hr/m<sup>2</sup>



- Only 3mm membrane panel construction thickness is 1/2 of others membrane plate construction. Therefore the packing density can be much higher than others flat-plate modules.
- Higher density packing will be reduce the airflow rate for membrane cleaning.

EcoSepro™ Membrane module unit



**EcoSepro™ ES series Compact Module Specifications**

Compact Module Type	ES-60W	ES-120W	ES-180W	ES-240W	ES-300W	ES-360W
Membrane area,m <sup>2</sup>	36.0	72.0	108.0	144.0	180.0	216.0
Dimensions: L.x W.xH (cm)	31x70x180	61x70x180	91x70x180	121x70x180	151x70x180	181x70x180

Compact Module Type	ES-120D	ES-240D	ES-360D	ES-480D	ES-600D	ES-720D
Membrane area,m <sup>2</sup>	72.0	144.0	216.0	288.0	360.0	432.0
Dimensions: L.x W.xH (cm)	31x70x282	61x70x282	91x70x282	121x70x282	151x70x282	181x70x282

■ Specifications subject without notice due to technical modifications or production changes. ■ Custom module size available