

SERECO MBR cassettes

Submerged hollow-fibre membrane filtration

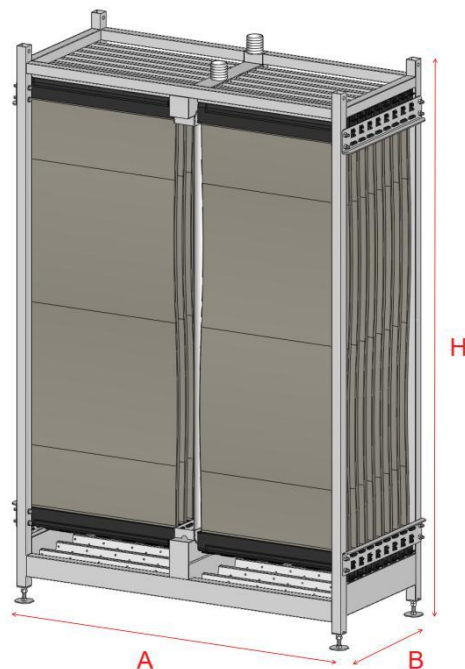
500D SERIES

Cassette dimensions and configurations

6 cassette models

SP1-500D / SP1-500Ds modules

A / B / H: see dimensioned drawing.



Cassette dimensions

Model	A (mm)	B (mm)	H (mm)
8M	944	730	2,625
8Ms	944	730	2,262
16M	1,788	730	2,625
16Ms	1,788	730	2,262
52M	1,886	2,148	2,760
52Ms	1,886	2,148	2,397

Cassette specifications

Model	Modules max / min	Permeate connection	Air connection	Shipping weight (kg)	Area (m²) max / min
8M	8 / 4	Ø76.1	Ø76.1	270	320 / 160
8Ms	8 / 4	Ø76.1	Ø76.1	233	320 / 160
16M	16 / 8	Ø76.1	Ø76.1	490	640 / 320
16Ms	16 / 8	Ø76.1	Ø76.1	416	640 / 320
52M	52 / 26	Ø114.3	Ø114.3	1,510	2,080 / 1,040
52Ms	52 / 26	Ø114.3	Ø114.3	1,282	2,080 / 1,040

Membrane module specifications

SP1-500D and SP1-500Ds

Parameter	SP1-500D	SP1-500Ds
Overall height	2,198 mm	1,835 mm
Overall width	844 mm	844 mm
Overall depth	49 mm	49 mm
Membrane type	Submerged hollow fibre for MBR	Submerged hollow fibre for MBR
Nominal membrane area	40.0 m ²	27.9 m ²
Maximum shipping weight (including packaging)	20 kg	16 kg
Module lifting weight	20 - 75 kg	16 - 60 kg
Membrane material	Reinforced PVDF	Reinforced PVDF
Membrane potting configuration	Cluster with confinement layer	Cluster with confinement layer
Nominal pore size	0.04 µm	0.04 µm
Membrane surface properties	Non-ionic, hydrophilic	Non-ionic, hydrophilic
Activated sludge concentration	1 - 15 g/L	1 - 15 g/L
Number of fibres per module	3,326	3,326
Exposed fibre length	1,912 mm	1,649 mm
Fibre diameter (outside / inside)	2.0 mm / 0.9 mm	2.0 mm / 0.9 mm
Filtration direction	Outside-in	Outside-in
Tensile strength	≥ 200 N	≥ 200 N
Transmembrane pressure (TMP) range	-55 to +55 kPa	-55 to +55 kPa
Maximum operating temperature	40 °C	40 °C
Operating pH range	5 - 9.5	5 - 9.5
Maximum cleaning temperature	40 °C	40 °C
Cleaning pH range	2 - 10.5 (< 30 °C)	2 - 10.5 (< 30 °C)
Maximum chlorine concentration	1,200 ppm	1,200 ppm