

Swing MBR

Thin film composite flat sheet in a compact modular cassette. Dense packing answers tight footprints and retrofit constraints.

0.1 µm avg 0.03 µm minimum. PVDF or PES thin film	12.5 LMH Manual capacity basis. 20 LMH stated for domestic design	0.32 scfm per m² Conventional air scour, two deck basis	Reverse flow CIP Chemical fed in reverse flow plus relaxation
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SELECTED MODULAR RANGE

Capacity follows the published manual

MODEL	AREA	ENVELOPE	MUNICIPAL CAPACITY
SWING 8, 1×1	12.5 m² 135 ft²	400 × 700 × 1,230 mm 15.7 × 27.6 × 48.4 in	3.7 m³/d ≈980 gal/d
SWING 8, 2×4	100 m² 1,076 ft²	1,250 × 700 × 1,830 mm 49.2 × 27.6 × 72.0 in	30.0 m³/d ≈7,925 gal/d
SWING 8, 3×8	300 m² 3,229 ft²	2,250 × 700 × 2,440 mm 88.6 × 27.6 × 96.1 in	90.0 m³/d ≈23,776 gal/d
SWING 9, 1×1	23 m² 248 ft²	400 × 1,100 × 1,230 mm 15.7 × 43.3 × 48.4 in	6.9 m³/d ≈1,823 gal/d
SWING 9, 4×12	1,104 m² 11,883 ft²	3,300 × 1,100 × 3,000 mm 129.9 × 43.3 × 118.1 in	331.2 m³/d ≈87,500 gal/d

Listed range 12.5 to 1,104 m² (135 to 11,883 ft²). 114 or 208 sheets per base cassette. The project quotation sets final values.

SHEET AND OPERATING BASIS

Thin film composite flat sheet

PARAMETER	SWING 8	SWING 9
BASE CASSETTE	114 sheets, 12.5 m² 135 ft²	208 sheets, 23 m² 248 ft²
SHEET SIZE	250 × 250 mm (9.84 × 9.84 in). 0.11 m² (1.18 ft²) per sheet. Same sheet geometry.	
SHEET THICKNESS	0.7 mm (0.028 in). Technical Manual basis.	
PORE SIZE	0.1 µm average, 0.03 µm minimum. PVDF or PES option.	
DESIGN FLUX	12.5 LMH manual capacity basis. The same manual also states 20 LMH for domestic design. Industrial basis typically below 15 LMH, set against feed. Flux stated in LMH only.	
TMP	5 to 40 kPa (0.73 to 5.80 psi).	
AIR SCOUR, TWO DECK	9.0 L/min per m² (0.32 scfm per m²). Manual Table 4 basis. Conventional air scour by deck.	
FILTRATION CYCLE	8 min filtration and 2 min relaxation.	

CLEANING

CIP cleaned with chemical fed in reverse flow, plus relaxation. Not a pressurized backwash.

The final chemical recipe and frequency belong in the project O&M.

WEIGHTS

Estimated net dry weight, cartridges only

BASIS	METRIC	US
EPS8 CARTRIDGE	11.3 kg	25 lb
EPS9 CARTRIDGE	17.4 kg	38 lb

Module dry weight is cartridges only, without frame. Frame weight is project specific. Net weight basis. Crating is a project detail.

DIMENSIONAL TABLE

Module envelopes, A through E

MODULE	A	B	C	D	E
EPS8-2-7, 2 TIER	2,033 mm 80.0 in	703.5 mm 27.7 in	1,933 mm 76.1 in	175 m ² 1,884 ft ²	158.2 kg 349 lb
EPS8-3-8, 3 TIER	2,332 mm 91.8 in	703.5 mm 27.7 in	2,549 mm 100.4 in	300 m ² 3,229 ft ²	271.2 kg 598 lb
EPS8-3-9, 3 TIER	2,584 mm 101.7 in	690 mm 27.2 in	2,549 mm 100.4 in	337.5 m ² 3,633 ft ²	305.1 kg 673 lb
EPS8-4-6, 4 TIER	1,837 mm 72.3 in	690 mm 27.2 in	3,089 mm 121.6 in	300 m ² 3,229 ft ²	271.2 kg 598 lb
EPS8-4-7, 4 TIER	2,068 mm 81.4 in	703.5 mm 27.7 in	3,086 mm 121.5 in	350 m ² 3,767 ft ²	316.4 kg 698 lb

A overall length. B overall width. C overall height. D membrane area. E estimated net weight of cartridges only, without frame. Compact tank arrangements for new installations and retrofits. Certified dimensional drawings are issued with the project quotation and submittal package.

Zyramic manufactures the modules.

Choose Swing when membrane packing controls the tank. Its thin film sheets pack densely, and decks and columns build a wide modular range from small cassettes to 1,104 m². Duty: submerged MBR. Content: project specific.

Capacity note: the Technical Manual values above are published as supplied. The manual capacity column uses 0.3 m³ per m² per day, equal to 12.5 LMH continuous. At 20 LMH and 24 hours, 100 m² calculates to 48 m³/d rather than the manual column value of 30 m³/d. Zyramic uses the manual capacity column for this sheet and confirms design capacity on the project.