Swing-9-4-12

Swing MBR module · 1104 m² · thin-film composite flat sheet

Product overview

The Swing-9-4-12 is a Zyramic Swing flat-sheet MBR module: 48 Swing-9 cartridges in a SUS304 frame, built for coarse-bubble scour and cartridge-level service. Footprint is close to hollow fiber, so existing tanks often take Swing one-for-one with new permeate plumbing and guide rails.

Key features

- Thin-film composite flat-sheet membranes (permanently wetted dry film)
- PVDF or PVDF with graphene
- Heavy-duty thick membrane, reinforced weld area and small sheet size: very safe from delamination
- Footprint close to hollow fiber; often a 1:1 retrofit with new plumbing and guide rails
- Coarse-bubble air scour (not fine bubble)
- CIP with NaClO + citric acid in reverse flow + relaxation; no pressurized backwash
- Service a cartridge, not a module: swap in about two hours
- Can be BABA compliant at the module · SUS304 frame

Technical specifications

Parameter	Value	Unit
Cartridge type	Swing-9 (23 m², 208 sheets, 528 × 920 × 252 mm, 17.4 kg)	
Decks × columns	4 × 12	
Cartridges	48	
Membrane area	1,104	m²
Envelope L × W × H	3,300 × 1,100 × 3,000	mm
Dry weight (uncrated)	On quotation	
Municipal net capacity	386	m³/d
Membrane	PVDF or PVDF + graphene, thin-film composite flat sheet	
Specific air (approx.)	~5.5–6	L/min·m²
Air scour	Coarse bubble, continuous (MBR)	
Design flux, municipal	15–25 (15 long life / 20 average / 25 peak; ~20% net derate)	LMH
Industrial flux	Sized to the feed, typically <15	LMH
Filtration cycle	8 min on / 2 min relaxation	
CIP maintenance, municipal	NaClO 300–500 mg/L or citric 500–1,000 mg/L · 2.0 L/m² · >30 min · every 7–10 d	
CIP recovery, municipal	NaClO 3,000–5,000 mg/L then citric 1–2% · each 2.5 L/m² · >4 h · ~20 kPa TMP or 6 mo	
Submergence	>50 cm liquid above membrane top (>30 cm small modules)	
Module spacing	40–60 (outer legs)	cm

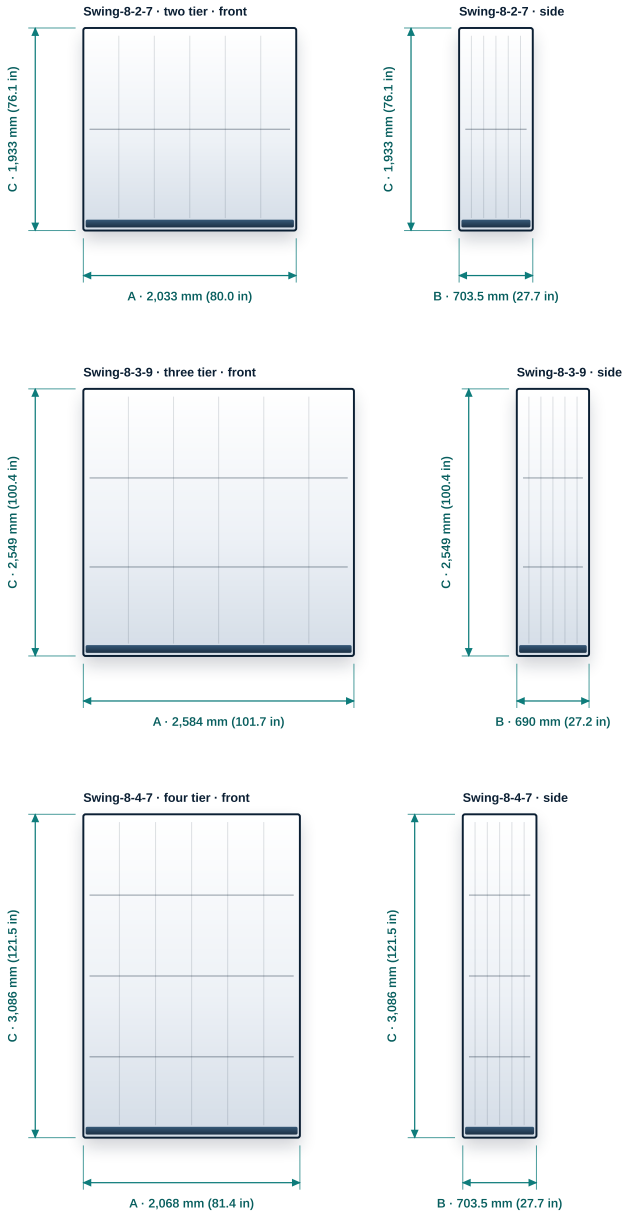
Manufacturer: Zyramic, Inc., Poughkeepsie, NY. Flux and capacity are Zyramic design values; your proposal sets the design point for your feed. Call 845-402-6318.

Swing-9-4-12

Swing family dimensional drawing (Swing-8-2-7 and 8-3-9 shown; model envelope in spec table)

Swing MBR module dimensions

Cartridge-only net dry weights. See data sheet.



Overall dimensions for planning. A overall length, B overall width, C overall height. Certified dimensional drawings are issued with the project quotation and submittal package.

Zyramic, Inc. www.zyramic.com