



ZYRAMIC, INC.

Product Catalog

2026

Looking for polymer, or ceramic?

On-Board Scour polymer flat-sheet modules. Silicon carbide and alumina ceramic modules.
Built in Poughkeepsie.

BABA MBR · BABA MEMBRANE BIOREACTOR · MODULES

10 Tucker Dr, Poughkeepsie, NY 12603 USA · +1 845 402 6318 · tom@zyramic.com

August 2026

COMPANY · POUGHKEEPSIE, NEW YORK

The factory on Tucker Drive

In Poughkeepsie we cut membrane to size, weld it to injection-molded plates, assemble plates into modules, and pack them. That is the work of the factory. Zyramic supplies membrane modules as a component.

We inventory parts so we can make different sizes of MBR plates and service customers running other-brand plate sizes. Field work uses those plates when the job needs them.

BABA MBR

On-Board Scour is a BABA MBR module — a BABA membrane bioreactor cassette manufactured in the United States from US and imported parts. BABA (Build America, Buy America) compliant at the module level. Federally funded municipal projects stay in scope without a waiver process.

Ceramic modules are supplied from certified sources. Origin is on the quotation. An R&D program is underway to manufacture ceramic here in the future. American-built skids can meet AIS and BABA, integrating the highest-quality ceramic membranes.

FACTORY	INVENTORY	BABA MBR	MODULES
Cut, weld, assemble, pack	Other-brand MBR plate sizes	On-Board Scour, module level	The cassette. Not the plant.

Plant design, screening, blowers, tanks, and controls remain with the designer, integrator, contractor, or owner unless a separate agreement says otherwise. We sell modules.

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THE LINE

Looking for polymer, or ceramic?

Start with the material. Then see what we have. Two catalogs, one factory, one place to inquire.

POLYMER FLAT SHEET

On-Board Scour

Patent pending. Every plate stays open. Uniform water velocity between each plate. PES sheet on a polypropylene plate. 130-plate and 260-plate modules. BABA compliant module. No PFAS. Municipal membrane bioreactor service.

THE PES FLAGSHIP

CERAMIC

SiC and alumina

Each as flat sheet and tubular. People pick ceramic because it can be backwashed and can take aggressive chemicals and oils. SiC: high flux, compact, almost indestructible. Alumina: long-term value, municipal included. Elements from certified sources.

BOTH MATERIALS, BOTH GEOMETRIES

American-built ceramic skids can meet AIS and BABA. Origin is on the quotation. An R&D program is underway to manufacture ceramic in the future.

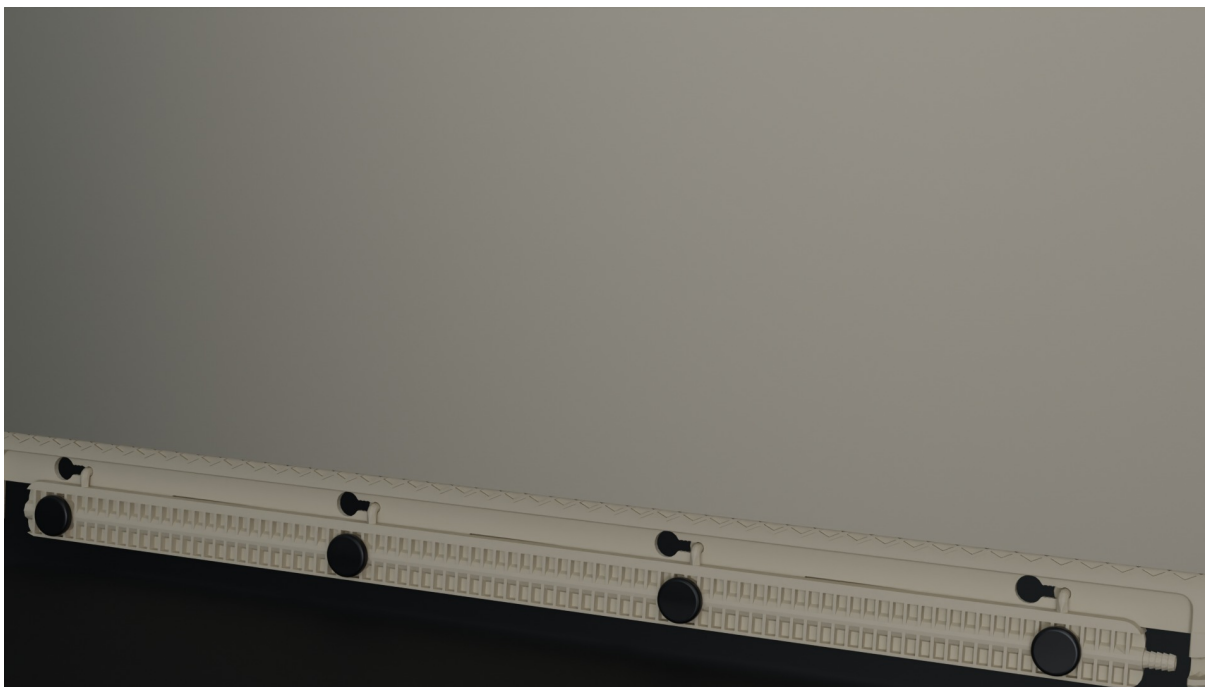
POLYMER FLAT SHEET · PATENT PENDING

**On-Board Scour**

Every plate stays open.

On-Board Scour is a detachable modular scour manifold. It attaches to the bottom of the plate. Check valves keep sludge and mixed liquor out of the air path. Dedicated scour, 24/7, every plate. Uniform water velocity between each plate. Secure in the tank. Change on the bench. Channels stay open. More time for the plant.

The plate is 41.2 in (1,047 mm), so the top still cleans. Real spacing — plates are not packed too close. The polypropylene support plate holds the Thermo Fisher PES sheet. No PFAS. BABA compliant module.



On-Board Scour plate. PES sheet on the faces, manifold and orifices at the base. Rendering.

EVERY PLATE

Same velocity, same scour

OPEN CHANNELS

Every plate stays open

SHORT PLATE

41.2 in — the top still cleans

BABA MODULE

Build America, Buy America

Zyramic sells the module. Plant design stays with the designer unless a separate agreement says otherwise.

ON-BOARD SCOUR · SPECIFICATIONS

130-plate and 260-plate modules



On-Board Scour cassette. Rendering.

Two sizes. Same plate. Same scour. $\approx 1.05 \text{ m}^2$ per plate. 130 plates $\approx 136.5 \text{ m}^2$. 260 plates $\approx 273 \text{ m}^2$. Scour 10 L/min per m^2 (0.35 SCFM/ m^2). 48 SCFM on the 130-plate module. 96 SCFM on the 260-plate module. Connections 2.5 in Sch 40. Orifice $\varnothing 1.25 \text{ mm}$.

Geometry and scour

Panel	41.2 in / 1,047 mm high · 19.8 in / 502 mm wide · 7.60 mm thick
Channel	6.40 mm plate to plate
130-plate module	$\approx 136.5 \text{ m}^2$ · scour 48 SCFM · permeate 7.5–12.6 gpm
260-plate module	$\approx 273 \text{ m}^2$ · scour 96 SCFM · permeate 15–25.2 gpm
Permeate — PRELIMINARY	At 7.4–12.3 gfd. Design guidance, not plant data.
Scour air	0.35 SCFM/ m^2 (10 L/min per m^2). Continuous standard.
Connections	Permeate and scour air: 2.5 in Sch 40
Orifice	$\varnothing 1.25 \text{ mm}$ at the channel root, dual-sided
Membrane	PES, Thermo Fisher, 0.04 μm . Polyolefin 80 μm . No PFAS. No glycol.
Support plate	Injection-molded polypropylene. American-made polymer.
Frame	304 stainless (316 optional). Dual headers.
BABA	Compliant module. Manufactured in the USA from US and imported parts.

Permeate flows are PRELIMINARY — 7.4–12.3 gfd design guidance, not plant data. Full geometry, membrane, and process basis: On-Board Scour datasheet on Downloads.

CERAMIC · SILICON CARBIDE AND ALUMINA

Flat sheet and tubular. Both materials.

People pick ceramic because it can be backwashed and can take aggressive chemicals and oils. Silicon carbide is high flux, compact, and almost indestructible. Alumina is long-term value, municipal included.

**SiC · Flat sheet**

Silicon carbide plates. Permeate ports on the end frames.

**SiC · Tubular**

Multi-channel tubular elements. Dark ceramic, white channel ends.

**Alumina · Flat sheet**

Ivory flat-sheet plates. End frames with permeate ports.

**Alumina · Tubular**

Multi-channel tubular elements. Ivory sintered channel faces.

Elements are sourced from certified sources. Origin is on the quotation. An R&D program is underway to manufacture ceramic in the future. American-built skids can meet AIS and BABA.

CERAMIC · WHAT ZYRAMIC SELLS

Modules, quoted on the stream

Silicon carbide and alumina — flat sheet, multi-channel tubular, and column geometries. Quoted against the stream. Certified sources. Class figures, not stock SKUs. Pore, area, housing, and pressure are issued on the quotation.

Why ceramic

Backwash it. Clean it with aggressive chemicals. That is the long-term value — municipal plants included. SiC first when oil or pH would punish a polymer sheet. Alumina when the cut is tight and the feed is not oily. Flux is typically about 2–4× alumina at a similar pore — a material-class comparison, not a SKU guarantee.

Application classes

Oily and chemical	Produced and frac water. Refinery oily streams. Brine and chlor-alkali. Catalyst and nanoparticle recovery. Cutting fluid. Acid and caustic slurries.
Reuse and process	Municipal reuse. NF and RO pretreatment. Mine water. Thermal-plant process water. Semiconductor and photovoltaic rinse.
Food and beverage	Juice, wine, and beer clarification. Yeast recovery. Corn syrup and other sweeteners. Pectin and stevia extracts. Proteins and fermentation broths.
Also sourced	Zeolite pervaporation elements for solvent dehydration (ethanol and similar). Ask if the stream is a solvent.

Origin

Certified ceramic sources. Origin on the module quotation. R&D underway to manufacture ceramic in the future. We build skids in America that meet AIS and BABA, integrating the highest-quality ceramic membranes.

Class datasheets for flat-sheet and tubular ceramic modules are on Downloads. Both materials come in both geometries.

FIELD SERVICES · 2026

Module and plate work in the tank.

Field services are available. Arranged through Zyramic. Ask on the quote.

What we do on site

Module work in the tank. Plate changeout. Related site support around the cassette. Zyramic supplies the module. Plant design, tanks, blowers, and controls stay with the designer, integrator, contractor, or owner unless a separate agreement says otherwise.

Other-brand plates

The Poughkeepsie factory inventories parts so we can cut and weld different sizes of MBR plates and service customers running other brands. Field work can use those plates. Ask on the quote.

IN THE TANK Module and plate work	INVENTORY Other-brand plate sizes	ARRANGED Through Zyramic	ON THE QUOTE Write or call
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Field services are arranged through Zyramic. Write tom@zyramic.com or call +1 845 402 6318 and we will put it on the quotation.

Lifting attachments, guide rails, and adjustable feet are quoted options on the module. The cassette runs submerged.

[DOWNLOADS](#) · [HOW TO INQUIRE](#)

Ask for a quotation.

Send the stream, the duty, and the material you have in mind — polymer or ceramic. Fill the Application & Request for Quote, or write tom@zyramic.com. Call +1 845 402 6318.

Public documents

Product catalog	This booklet. Polymer On-Board Scour and ceramic modules.
On-Board Scour datasheet	Geometry, membrane, scour, materials, preliminary process basis.
On-Board Scour O&M	Installation, operation, and maintenance for the module.
On-Board Scour CIP	Cleaning in place for the PES cassette. The PES cassette is not backwashed.
Membrane module warranty	Two-year, non-prorated municipal warranty on module integrity.
Ceramic class datasheets	Flat-sheet and tubular. SiC and alumina. Class figures, not SKUs.
Ceramic backwash note	Why people pick ceramic. Recipe issued on the quotation.
Application & RFQ	Polymer and ceramic. Fill online or return the PDF.
Terms of sale	Effective August 2026. Quotations, EX WORKS.

Contact

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Specifications subject to change without notice. Independent CFD figures are hydrodynamics, not plant data. Permeate flows on the polymer cassette are preliminary design guidance. © 2026 Zyramic, Inc.