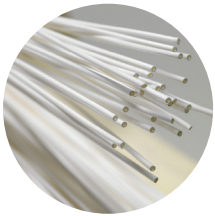




Ultrafiltration Membrane Module

HFU-B2315AN

Toray's HFU-B2315AN pressurized hollow-fiber ultrafiltration (UF) membrane module applies advanced PVDF membrane chemistry and thermally-induced phase separation (TIPS) spinning method that carefully controls the pore size and evenly distributes the number of pores on the membrane surface. The result is a hollow-fiber membrane with fine separation of viruses, bacteria, and suspended solids, low fouling, and high permeability all to help optimize and extend plant performance.



TORAYFIL™
ENHANCED FIBER TECHNOLOGY



KEY ADVANTAGES

- Tightest pore size (0.01 μm) in the industry
- High mechanical tensile strength of hollow-fiber for minimal fiber breakage
- Chemically-tolerant for operational longevity
- High packing density (60 m^2) per module allows for compact system design and room for future expansion
- Technical support and expertise within your reach



This component is tested and certified under NSF/ANSI 61 Standards for drinking water system components.



TORAYFIL™ Pressurized Hollow-fiber Membrane Module Specifications

Table 1: Membrane Properties

Membrane material	PVDF (Polyvinylidene fluoride)
Nominal pore size μm	0.01

Table 2: Cleaning Limits

Cleaning pH Range	0-12
Maximum cleaning temperature	40°C (104°F)
Maximum concentration of NaClO cleaning as Cl_2	3,000 mg/L ($10 \leq \text{pH} \leq 12$)
Maximum NaClO exposure (lifetime contact time) as Cl_2	1,000,000 mg/L hours
Maximum acid exposure contact time	1,000 hours ($\text{pH} < 1$)

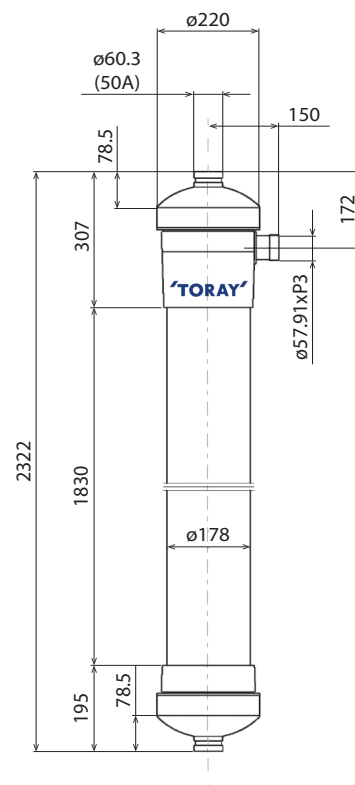
Table 3: Module Specifications

Module Part Number		HFU-B2315AN
Outer Membrane Surface Area $\text{ft}^2 (\text{m}^2)$		646 (60)
Dimensions	Diameter in (mm)	7.01 (178)
	Length ft (mm)	7.651 (2,322)
Weight lbs (kg)	Full of water	143 (65)
	After draining	77 (35)
Material	Casing / Protective Cylinder	PVC and/or equivalent
	Potting	Epoxy and/or equivalent
Operating Conditions	Filtration method	Outside to inside, dead end
	Maximum inlet pressure psi (kPa)	43.5 (300)
	Max. trans-membrane pressure psi (kPa)	43.5 (300)
	Normal operating TMP psi (kPa)	< 29.0 (< 200)
	Operating temperature range	32–104°F (0–40°C)
	Operating pH range	1–10

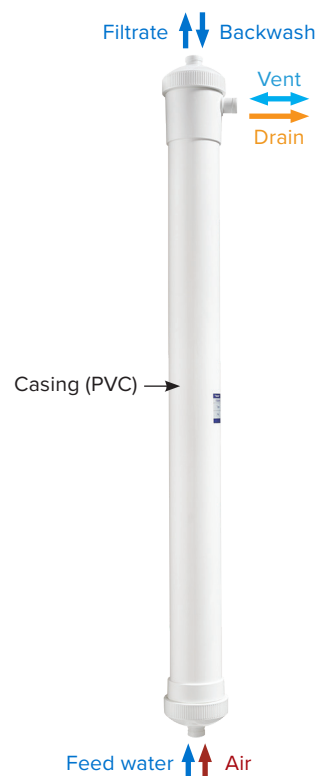
*Specifications subject to change without notice

Contact a Toray representative for additional product information and technical support in choosing the right product for optimizing your plant's performance.

Technical drawings
HFU-B2315AN



Port connections



TORAY Innovation by Chemistry

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