

HFUG-2020AN

Pressurized Outside to In / Dead-end Filtration Ultrafiltration (UF) Membrane Module

The HFUG-2020AN module is Toray's latest UF innovation that features hollow fibers with a smaller diameter but with improved membrane durability and performance. The result is an increased surface area per module for more production output.

Membrane Characteristics		Unit	Value
Membrane Material			PVDF (Polyvinylidene fluoride)
Nominal Pore Size		μm	0.01
Outer Membrane Surface Area (module)		m ² (ft ²)	90 (969)
Operating Parameters		Unit	Value
Maximum Feed water / Filtrate Flow		m ³ /h (gpm)	15 (66)
Maximum Backwash Flow		m ³ /h (gpm)	16.8 (74)
Maximum Air Flow		Nm ³ /h (scfm)	9.0 (5.3)
Maximum Inlet Pressure		kPa (psi)	300 (43.5)
Maximum Backwash Pressure		kPa (psi)	300 (43.5)
Normal Operating Trans-membrane Pressure		kPa (psi)	0–200 (0–29)
Operating Temperature Range		°C (°F)	0–40 (32–104)
pH Range	During Filtration		1–10
	During Cleaning		0–12

*Please contact Toray for operating manual and preliminary design, as capacity per module is highly dependent on feed water quality.



Product Certifications & Compliances

- NSF/ANSI 61 for drinking water applications
- NSF/ANSI 419 to comply with the U.S. EPA's Long Term 2 Enhanced Surface Water Treatment Rule (LT2ESWTR), which allows membrane manufacturers to prove Cryptosporidium reduction.
- Association of Membrane Separation Technology of Japan



Applications

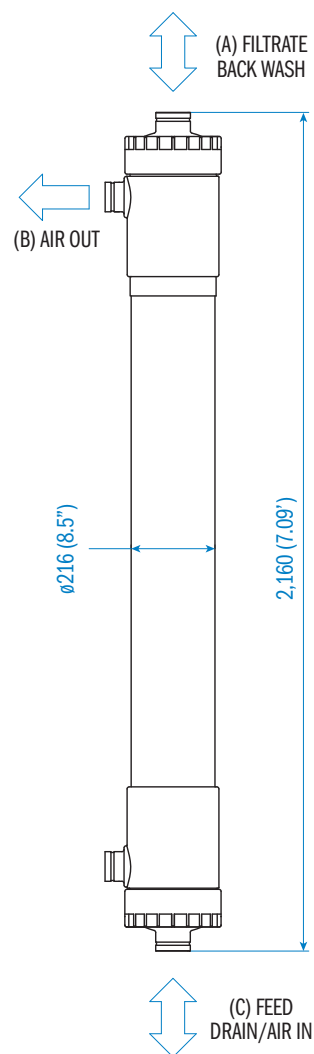
Drinking water, Industrial process water, Pretreatment for seawater RO desalination, Secondary and Tertiary wastewater

HFUG-2020AN

Pressurized Outside to In / Dead-end Filtration Ultrafiltration (UF) Membrane Module

Dimensions and Weight		Unit	Value
Diameter		mm (in)	216 (8.5)
Length		mm (ft)	2,160 (7.087)
Weight	Full of Water	kg (lbs)	92 (203)
	After Draining	kg (lbs)	59 (131)
Connections			Value
(A) Filtrate Outlet			80A
(B) Air Outlet			65A
(C) Feed Water / Air Inlet			80A
Material Specifications			
Description			Material
Casing			uPVC
Cap			uPVC
Potting			Epoxy resin
O-ring			EPDM

Please contact Toray for more detailed drawing and dimensions.



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HFU-2020AN

Pressurized Outside to In / Dead-end Filtration Ultrafiltration (UF) Membrane Module

Toray's PVDF membrane construction is highly resistant to chlorine and strong acids, which allows for better cleaning and optimization of filtration flux rates after cleaning. The hollow fiber modules effectively remove suspended solids, viruses, and bacteria and are certified for drinking water applications.

Membrane Characteristics		Unit	Value
Membrane Material			PVDF (Polyvinylidene fluoride)
Nominal Pore Size		μm	0.01
Outer Membrane Surface Area		m ² (ft ²)	72 (775)
Operating Parameters		Unit	Value
Maximum Feed water / Filtrate Flow		m ³ /h (gpm)	12 (53)
Maximum Backwash Flow		m ³ /h (gpm)	13.5 (59)
Maximum Air Flow		Nm ³ /h (scfm)	9.0 (5.3)
Maximum Inlet Pressure		kPa (psi)	300 (43.5)
Maximum Backwash Pressure		kPa (psi)	300 (43.5)
Normal Operating Transmembrane Pressure		kPa (psi)	0–200 (0–29)
Operating Temperature Range		°C (°F)	0–40 (32–104)
pH Range	During Filtration		1–10
	During Cleaning		0–12

*Please contact Toray for operating manual and preliminary design, as capacity per module is highly dependent on feed water quality.



Product Certifications and Compliances

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- NSF/ANSI 419 to comply with the U.S. EPA's Long Term 2 Enhanced Surface Water Treatment Rule (LT2ESWTR), which allows membrane manufacturers to prove Cryptosporidium reduction.
- Association of Membrane Separation Technology of Japan

Applications

Drinking water, Industrial process water, Pretreatment for seawater RO desalination, Secondary and Tertiary wastewater

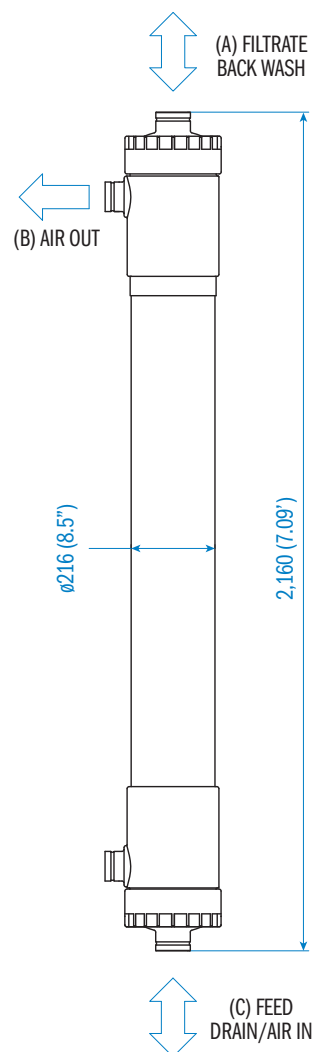


HFU-2020AN

Pressurized Outside to In / Dead-end Filtration Ultrafiltration (UF) Membrane Module

Dimensions and Weight		Unit	Value
Diameter		mm (in)	216 (8.5)
Length		mm (ft)	2,160 (7.087)
Weight	Full of Water	kg (lbs)	92 (203)
	After Draining	kg (lbs)	59 (131)
Connections			Value
(A) Filtrate Outlet			80A
(B) Air Outlet			65A
(C) Feed Water / Air Inlet			80A
Material Specifications			
Description			Material
Casing			uPVC
Cap			uPVC
Potting			Epoxy resin
O-ring			EPDM

Please contact Toray for more detailed drawing and dimensions.



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HFU-2020HN

Pressurized Outside to In / Dead-end Filtration Ultrafiltration (UF) Membrane Module

Toray's hollow fiber PVDF UF membrane module effectively removes suspended solids and microorganisms such as pathogens when used for various types of water treatment. The HFU-2020HN module is a high-pressure resistant UF membrane module ideal for direct coupling to a RO system.

Membrane Characteristics		Unit	Value
Membrane Material			PVDF (Polyvinylidene fluoride)
Nominal Pore Size		μm	0.01
Outer Membrane Surface Area		m ² (ft ²)	72 (775)
Operating Parameters		Unit	Value
Maximum Feed water / Filtrate Flow		m ³ /h (gpm)	12 (53)
Maximum Backwash Flow		m ³ /h (gpm)	13.5 (59)
Maximum Air Flow		Nm ³ /h (scfm)	9.0 (5.3)
Maximum Inlet Pressure		kPa (psi)	600 (87.0)
Maximum Backwash Pressure		kPa (psi)	300 (43.5)
Normal Operating Transmembrane Pressure		kPa (psi)	0–200 (0–29)
Operating Temperature Range		°C (°F)	0–40 (32–104)
pH Range	During Filtration		1–10
	During Cleaning		0–12

*Please contact Toray for operating manual and preliminary design, as capacity per module is highly dependent on feed water quality.



Applications

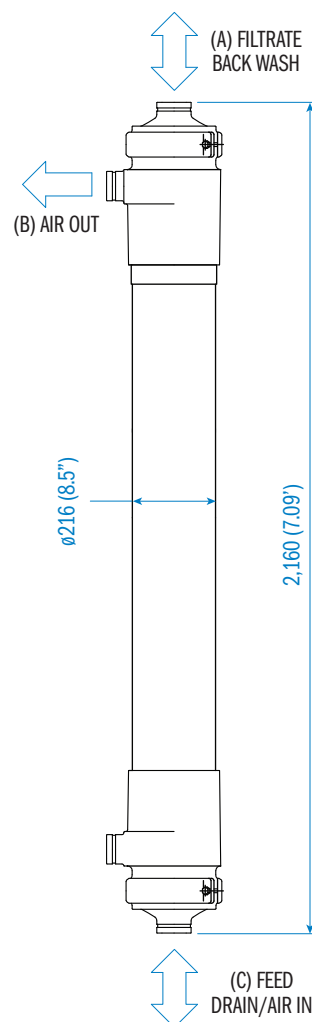
Drinking water, Industrial process water, Pretreatment for seawater RO desalination, Secondary and Tertiary wastewater

HFU-2020HN

Pressurized Outside to In / Dead-end Filtration Ultrafiltration (UF) Membrane Module

Dimensions and Weight		Unit	Value
Diameter		mm (in)	216 (8.5)
Length		mm (ft)	2,160 (7.087)
Weight	Full of Water	kg (lbs)	110 (243)
	After Draining	kg (lbs)	67 (148)
Connections		Value	
(A) Filtrate Outlet		80A	
(B) Air Outlet		65A	
(C) Feed Water / Air Inlet		80A	
Material Specifications			
Description		Material	
Casing		uPVC	
Cap		uPVC	
Potting		Epoxy resin	
O-ring		EPDM	

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HFU-1020AN

Pressurized Outside to In / Dead-end Filtration Ultrafiltration (UF) Membrane Module

Toray's hollow fiber PVDF UF membrane module effectively removes suspended solids and microorganisms such as pathogens when used for various types of water treatment. The flux rates of HFU-1020AN modules are ideal for smaller commercial systems.

Membrane Characteristics	Unit	Value
Membrane Material		PVDF (Polyvinylidene fluoride)
Nominal Pore Size	μm	0.01
Outer Membrane Surface Area	m ² (ft ²)	29 (312)
Operating Parameters	Unit	Value
Maximum Feed water / Filtrate Flow	m ³ /h (gpm)	4.8 (21)
Maximum Backwash Flow	m ³ /h (gpm)	5.4 (23)
Maximum Air Flow	Nm ³ /h (scfm)	9.0 (5.3)
Maximum Inlet Pressure	kPa (psi)	300 (43.5)
Maximum Backwash Pressure	kPa (psi)	300 (43.5)
Normal Operating Transmembrane Pressure	kPa (psi)	0–200 (0–29)
Operating Temperature Range	°C (°F)	0–40 (32–104)
pH Range	During Filtration	1–10
	During Cleaning	0–12

*Please contact Toray for operating manual and preliminary design, as capacity per module is highly dependent on feed water quality.



Product Certifications & Compliances

- NSF/ANSI 61 for drinking water applications
- NSF/ANSI 419 to comply with the U.S. EPA's Long Term 2 Enhanced Surface Water Treatment Rule (LT2ESWTR), which allows membrane manufacturers to prove Cryptosporidium reduction.
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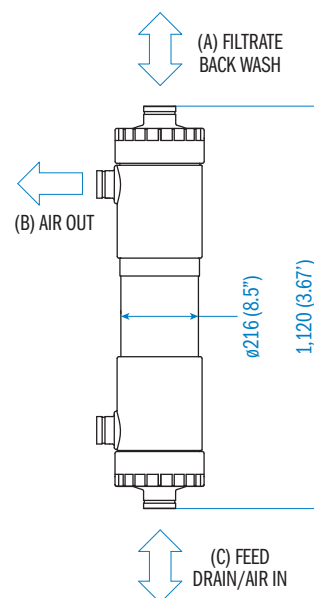
Applications

Drinking water, Industrial process water, Pretreatment for seawater RO desalination, Tertiary wastewater

HFU-1020AN

Pressurized Outside to In / Dead-end Filtration Ultrafiltration (UF) Membrane Module

Dimensions and Weight		Unit	Value
Diameter		mm (in)	216 (8.5)
Length		mm (ft)	1,120 (3.675)
Weight	Full of Water	kg (lbs)	51 (112)
	After Draining	kg (lbs)	32 (71)
Connections		Value	
(A) Filtrate Outlet		80A	
(B) Air Outlet		65A	
(C) Feed Water / Air Inlet		80A	
Material Specifications			
Description		Material	
Casing		uPVC	
Cap		uPVC	
Potting		Epoxy resin	
O-ring		EPDM	



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HFU-1010N

Pressurized Outside to In / Dead-end Filtration Ultrafiltration (UF) Membrane Module

Toray's PVDF membrane construction is highly resistant to chlorine and strong acids, which allows for better cleaning and optimization of filtration flux rates after cleaning. The hollow fiber modules effectively remove suspended solids, viruses, and bacteria and are certified for drinking water applications. The HFU-1010N model is ideal for small capacity equipment.

Membrane Characteristics	Units	Value
Membrane Material		PVDF (Polyvinylidene fluoride)
Nominal Pore Size	μm	0.01
Outer Membrane Surface Area	m ² (ft ²)	7 (75)
Operating Parameters	Units	Value
Maximum Feed water / Filtrate Flow	m ³ /h (gpm)	1.2 (5.1)
Maximum Backwash Flow	m ³ /h (gpm)	1.3 (5.7)
Maximum Air Flow	Nm ³ /h (scfm)	2.2 (1.3)
Maximum Inlet Pressure	kPa (psi)	300 (43.5)
Maximum Backwash Pressure	kPa (psi)	300 (43.5)
Normal Operating Transmembrane Pressure	kPa (psi)	0–200 (0–29)
Operating Temperature Range	°C (°F)	0–40 (32–104)
pH Range	During Filtration	1–10
	During Cleaning	0–12

*Please contact Toray for operating manual and preliminary design, as capacity per module is highly dependent on feed water quality.

Product Certifications & Compliances

- Association of Membrane Separation Technology of Japan

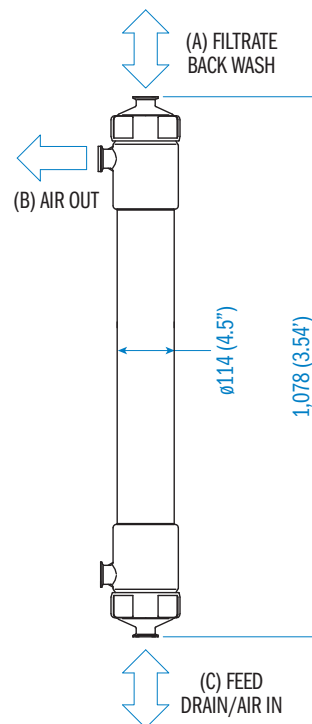
Applications

Drinking water, Industrial process water, Pretreatment for seawater RO desalination, Tertiary wastewater

HFU-1010N

Pressurized Outside to In / Dead-end Filtration Ultrafiltration (UF) Membrane Module

Dimensions and Weight		Unit	Value
Diameter		mm (in)	114 (4.49)
Length		mm (ft)	1,078 (3.537)
Weight	Full of Water	kg (lbs)	15 (33)
	After Draining	kg (lbs)	9 (20)
Connections		Value	
(A) Filtrate Outlet		IDF/ISO Clamp Union Fitting	1.5S
(B) Air Outlet		IDF/ISO Clamp Union Fitting	1.5S
(C) Feed Water / Air Inlet		IDF/ISO Clamp Union Fitting	1.5S
Material Specifications			
Description		Material	
Casing		uPVC	
Cap		uPVC	
Potting		Epoxy	
O-ring		NBR	



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HFU-B2315AN

Pressurized Outside to In / Dead-end Filtration Ultrafiltration (UF) Membrane Module

The HFU-B2315AN module features Toray's proven durable PVDF hollow fiber membrane with a high packing density per module resulting in a compact system design and lower capital footprint.

Membrane Characteristics		Units	Value
Membrane Material			PVDF (Polyvinylidene fluoride)
Nominal Pore Size		μm	0.01
Outer Membrane Surface Area		m ² (ft ²)	60 (646)
Operating Parameters		Units	Value
Maximum Feed water / Filtrate Flow		m ³ /h (gpm)	10.0 (44)
Maximum Backwash Flow		m ³ /h (gpm)	11.2 (49)
Maximum Air Flow		Nm ³ /h (scfm)	6.7 (3.9)
Maximum Inlet Pressure		kPa (psi)	300 (43.5)
Maximum Backwash Pressure		kPa (psi)	300 (43.5)
Normal Operating Transmembrane Pressure		kPa (psi)	0–200 (0–29)
Operating Temperature Range		°C (°F)	0–40 (32–104)
pH Range	During Filtration		1–10
	During Cleaning		0–12

*Please contact Toray for operating manual and preliminary design, as capacity per module is highly dependent on feed water quality.



Product Certifications & Compliances

- NSF/ANSI 61 for drinking water applications
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Applications

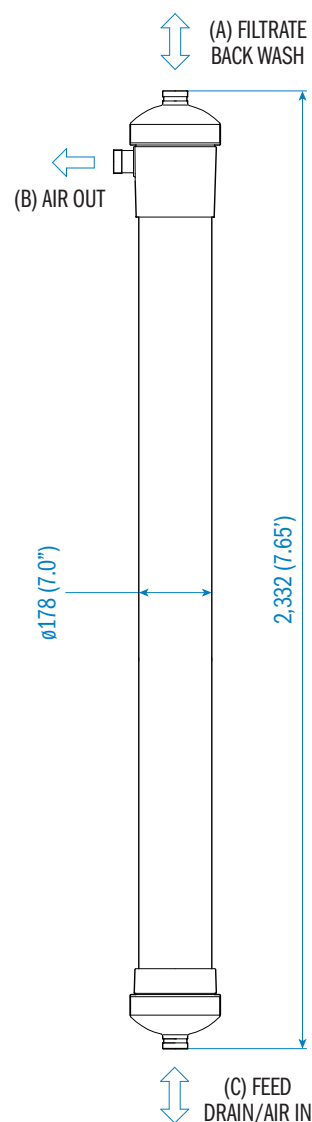
Drinking water, Industrial process water, Pretreatment for seawater RO desalination, Tertiary wastewater

HFU-B2315AN

Pressurized Outside to In / Dead-end Filtration Ultrafiltration (UF) Membrane Module

Dimensions and Weight		Unit	Value
Diameter		mm (in)	178 (7.01)
Length		mm (ft)	2,332 (7.651)
Weight	Full of Water	kg (lbs)	65 (143)
	After Draining	kg (lbs)	35 (77)
Connections		Value	
(A) Filtrate Outlet		50A	
(B) Air Outlet		Φ57.91 mm x P3	
(C) Feed Water / Air Inlet		50A	
Material Specifications			
Description		Material	
Casing		uPVC	
Cap & Sockets		uPVC	
Potting (Adhesive)		Epoxy	
O-ring		EPDM	

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HFUG-B2315AN

High Area Pressurized Outside to In / Dead-end Filtration Ultrafiltration (UF) Membrane Module

The HFUG-B2315AN module features Toray's proven durable PVDF hollow fiber membrane with a high packing density per module resulting in a compact system design and lower capital footprint.

Membrane Characteristics		Units	Value
Membrane Material			PVDF (Polyvinylidene fluoride)
Nominal Pore Size		μm	0.01
Outer Membrane Surface Area		m ² (ft ²)	75 (807)
Operating Parameters		Units	Value
Maximum Feed water / Filtrate Flow		m ³ /h (gpm)	12.5 (55)
Maximum Backwash Flow		m ³ /h (gpm)	14 (61)
Maximum Air Flow		Nm ³ /h (scfm)	6.7 (3.9)
Maximum Inlet Pressure		kPa (psi)	300 (43.5)
Maximum Backwash Pressure		kPa (psi)	300 (43.5)
Normal Operating Transmembrane Pressure		kPa (psi)	0–200 (0–29)
Operating Temperature Range		°C (°F)	0–40 (32–104)
pH Range	During Filtration		1–10
	During Cleaning		0–12

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Product Certifications & Compliances

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Applications

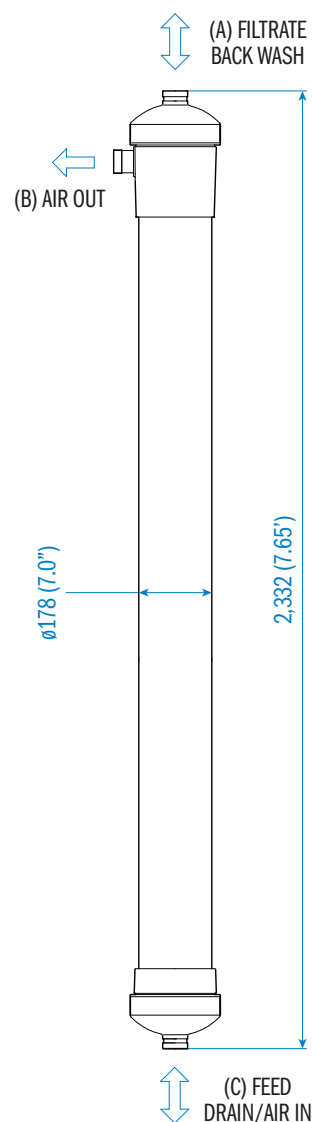
Drinking water, Industrial process water, Pretreatment for seawater RO desalination, Tertiary wastewater

HFUG-B2315AN

High Area Pressurized Outside to In / Dead-end Filtration
Ultrafiltration (UF) Membrane Module

Dimensions and Weight		Unit	Value
Diameter		mm (in)	178 (7.01)
Length		mm (ft)	2,332 (7.651)
Weight	Full of Water	kg (lbs)	65 (143)
	After Draining	kg (lbs)	35 (77)
Connections		Value	
(A) Filtrate Outlet		50A	
(B) Air Outlet		Φ57.91 mm x P3	
(C) Feed Water / Air Inlet		50A	
Material Specifications			
Description		Material	
Casing		uPVC	
Cap & Sockets		uPVC	
Potting (Adhesive)		Epoxy	
O-ring		EPDM	

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HSU-1515

Submerged Outside to In / Dead-end Filtration Ultrafiltration (UF) Membrane Module

The submerged filtration method is ideal for treating feed water with high turbidity because of effective drainage and sludge removal. No pressure casing, less piping, and fewer valves can reduce capital costs and minimizes footprint requirements.

Membrane Characteristics		Units	Value
Membrane Material			PVDF (Polyvinylidene fluoride)
Nominal Pore Size		μm	0.01
Outer Membrane Surface Area		m ² (ft ²)	20 (215)
Operating Parameters		Units	Value
Maximum Feed water / Filtrate Flow		m ³ /h (gpm)	2.0 (8.8)
Maximum Backwash Flow		m ³ /h (gpm)	3.0 (13.2)
Maximum Air Flow		Nm ³ /h (scfm)	4.5 (2.6)
Maximum Backwash Pressure		kPa (psi)	200 (29.0)
Normal Operating Transmembrane Pressure		kPa (psi)	0–100 (0–14.5)
Operating Temperature Range		°C (°F)	0–40 (32–104)
pH Range	During Filtration		1–10
	During Cleaning		0–12

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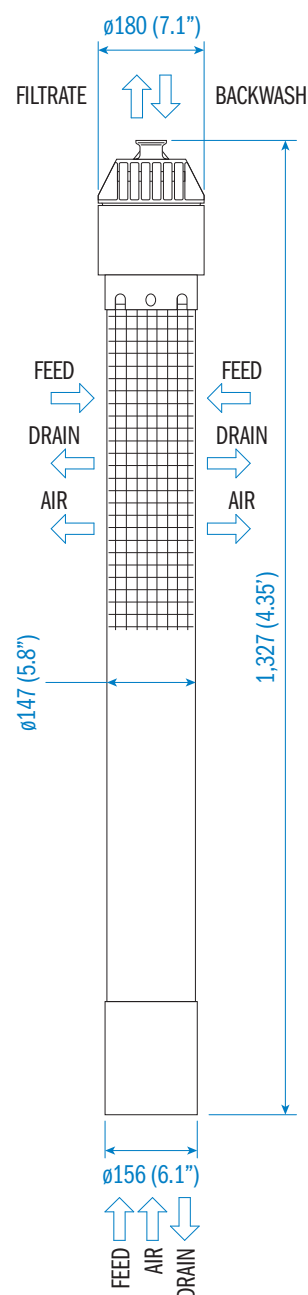
Applications

Drinking water, Industrial process water, Pretreatment for seawater RO desalination, Tertiary wastewater

HSU-1515

Submerged Outside to In / Dead-end Filtration Ultrafiltration (UF) Membrane Module

Dimensions & Weight		Unit	Value
Diameter		mm (in)	147 (5.79)
Length		mm (ft)	1,327 (4.35)
Weight	Wet Condition	kg (lbs)	18 (40)
Connections		Value	
Filtrate Outlet		IDF/ISO Clamp Union Fittings 1.5s	
Material Specifications			
Description		Material	
Cap / Protective Cylinder		ABS / PE	
Potting		Epoxy	
O-ring		EPDM	



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