

Features

Product Information

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DOW IntegraFlo™ Ultrafiltration Modules

Model IW74-1100

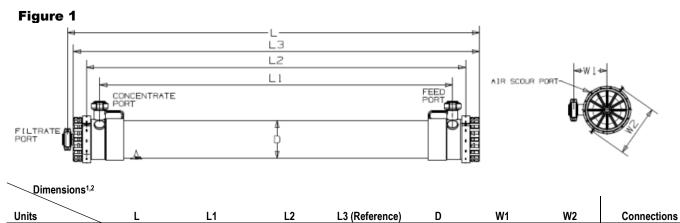
DOW IntegraFlo™ IW74-1100 Ultrafiltration (UF) modules are powered by Dow's high strength, engineered PVDF hollow fiber membranes with feature and benefits including:

- 74 m² of filtration area in a short module format to enable system designs with height constraints •
- 0.03 µm pore size which enables removal of bacteria, viruses, and particulates; Up to 6 log • removal of bacteria, up to a 2.5 log removal of viruses, and <2.5 SDI filtrate quality
- PVDF fibers free of macro voids which offer excellent break resistance, chemical and fouling resistance; which allows for extended membrane life and consistent long term performance
- Outside-In flow configuration which allows higher TSS feed waters, while maintaining reliable . system performance and producing high quality filtrate
- Streamlined integrated PVC housing that eliminates non value added parts to make room for more fibers, while reducing fiber packing density at module extremities and improving removal of suspended solids to limit module fouling
- Integrated lifting handles improve ergonomics during installation and maintenance
- Potting design eliminates gaskets between filtrate and concentrate compartments reducing maintenance requirements and streamlines fiber repair in the unlikely event of fiber breakage.

The Dow IntegraFlo™ IW74-1100 module offers one of the largest membrane areas in the industry in a short module format. It is an ideal choice for containerized system designs where its large filtration area and short height can contribute substantially to system savings.

DOW IntegraFlo™ IW74-1100 Ultrafiltration Modules can be used for a variety of treatment applications including surface water, seawater pretreatment, industrial wastewaters, and secondary effluent wastewater.

Product Specifications	Part	Part Membrane Area N		Modul	Module Volume		Weight (Empty/Shipping/Flooded)	
Model	Number	m²	ft²	liters	gallons	kg	lbs	
IW74-1100	11034236	74	797	28	7.4	49/56/76	108/123/168	



Notes:

SI (mm)

US (inch)

1. Base clip NOT included in module length. Refer to product installation drawing (IFLO-1002) for additional details. Refer to assembly drawing (IFLO-1001) for Dow's for scope of supply.

1747

68.8

2. The tolerances shown above do not include thermal expansion. The thermal expansion coefficient of PVC is 6.3 x 10-5 mm/mm °C (3.5 x 10-5 inch/inch °F).

3. For air supply using low pressure air supply the air scour connection can be made to order with a 11/2 "NPT female port.

1593 ± 3.0

62.7 ± 0.1

1442 ± 1.5

56.8 ± 0.06

1780 ± 4.5

70.1 ± 0.2

219

8.6

190

7.5

297

11.7

50 DN Coupler

G 3/8" Air³

Operating		SI units	US units				
Parameters	Filtrate Flux @ 25°C	40 - 120 l/m²/hr	24 - 70 gfd				
Parameters	Flow Range	3.0 – 8.8 m ³ /hr	13.2 – 38.7 gpm				
	pH, Operating		2 - 11				
	pH, Cleaning		2 - 12				
	Temperature	1 - 40°C	34 - 104°F				
	Max. Inlet Module Pressure (@ 20°C) 5 bar	73 psi				
	Max. Operating TMP	2.1 bar	30 psi				
	Max. Operating Air Scour Flow	20 Nm ³ /hr	12 scfm 36 psi				
	Max. Backwash TMP						
	NaOCI (max)	2,000 mg/L					
	TSS (max)	100 mg/L					
	Turbidity (max)	300 NTU					
	Particle Size (max)	300 µm					
	Flow Configuration	Outside In, Dead End Flow					
	Expected Filtrate Turbidity	≤ 0.1 NTU					
	Expected Filtrate SDI	≤2.5					
Important Information Operation Guidelines	Proper start-up of a UF system is essential to prepare the membranes for operating service and to prevent membrane damage. Following the proper start-up sequence also helps ensure that system operating parameters conform to design specifications so that system water quality and productivity goals can be achieved. Before initiating system start-up procedures, membrane pretreatment, installation of the membrane modules, instrument calibration and other system checks should be completed. Please refer to the product technical manual. Avoid any abrupt pressure variations during start-up, shutdown, cleaning or other sequences to prevent possible membrane damage. Flush the UF system to remove shipping solution prior to start up. Remove residual air from the system prior to start up. Manually start the equipment. Target a permeate flow of 60% of design during initial operations. Depending on the application, filtrate obtained from initial operations should be discarded. Please refer to the product technical manual.						
General Information	If operating limits and guidelines given in this bulletin are not strictly followed, the limited warranty will be null and void.						
	To prevent biological growth during system shutdowns, it is recommended that storage solution be injected into the membrane modules. Please refer to the product technical manual.						
Regulatory Note	egulatory Note Modules intended for use in potable water may be subjected to additional regulatory re Check local regulatory guidelines and application status before use and sale.						

DOW™ Ultrafiltration

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info@lenntech.com www.lenntech.com Tel. +31-152-610-900 Fax +31-152-616-289 **NOTICE:** The use of this product does not necessarily guarantee the removal of cysts and pathogens from water. Effective cyst and pathogen reduction is dependent on the complete system design and on the operation and maintenance of the system.

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