

**DOW IntegraFlo™ Ultrafiltration Modules for Potable Use**
Model DW74-1100**Features**

DOW IntegraFlo™ DW74-1100 Ultrafiltration (UF) Modules are powered by Dow's high strength, engineered PVDF hollow fiber membranes with feature and benefits including:

- Tested and certified by NSF International under NSF/ANSI Standard 61 ensuring safe use in drinking water applications
- 0.03 μm pore size which facilitates reduction of most common bacteria, viruses, and particulates, with filtrate SDI <2.5
- 74 m^2 of filtration area in a shorter module format to facilitate system designs with height constraints
- PVDF fibers free of macro voids which offer excellent break resistance, chemical and fouling resistance; which facilitates extended membrane life and consistent long term performance
- Outside-In flow configuration which facilitates operation in higher TSS feed waters, while maintaining reliable system performance and producing high quality filtrate
- Streamlined PVC housing allows room for more fibers with less packing density limiting fouling and improving removal of suspended solids
- Integrated lifting handles improve ergonomics during installation and maintenance

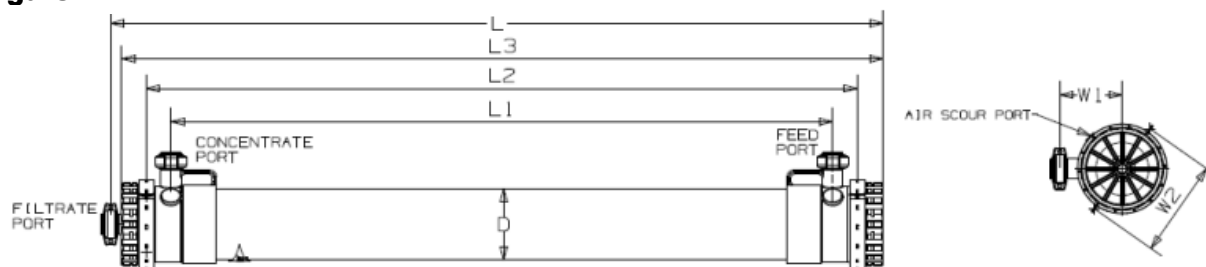
Certified to
NSF/ANSI 61

The DOW IntegraFlo DW74-1100 Module offers one of the largest membrane areas in the industry in a shorter module format. It is an excellent choice for containerized system designs where its large filtration area and short height can contribute substantially to system savings.

DOW IntegraFlo DW74-1100 Ultrafiltration Modules can be used on a wide variety of water sources, such as groundwater, surface water, and seawater to help produce safe drinking water.

Product Specifications

Model	Part Number	Membrane Area		Module Volume		Weight (Empty/Shipping/Flooded)	
		m^2	ft^2	liters	gallons	kg	lbs
DW74-1100	11034238	74	797	28	7.4	49/56/76	108/123/168

Figure 1**Dimensions^{1,2}**

Units	L	L1	L2	L3 (Reference)	D	W1	W2	Connections
SI (mm)	1780 \pm 4.5	1442 \pm 1.5	1593 \pm 3.0	1747	219	190	297	50 DN Coupler
US (inch)	70.1 \pm 0.2	56.8 \pm 0.06	62.7 \pm 0.1	68.8	8.6	7.5	11.7	G 3/8" Air ³

Notes:

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.
2. The tolerances shown above do not include thermal expansion. The thermal expansion coefficient of PVC is $6.3 \times 10^{-5} \text{ mm/mm } ^\circ\text{C}$ ($3.5 \times 10^{-5} \text{ inch/inch } ^\circ\text{F}$).
3. For air supply using low pressure air supply the air scour connection can be made to order with a 1½" NPT female port.

Operating Parameters

	SI units	US units
Filtrate Flux @ 25°C	40 - 105 l/m ² /hr	24 - 62 gfd
Flow Range	3.0 – 7.8 m ³ /hr	12.9 – 33.9 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
Max. Backwash TMP	2.5 bar	36 psi
NaOCl (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

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.

Operation Guidelines

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. Refer to the Dow Ultrafiltration Module Limited Warranty for more detail.

To help 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

NSF/ANSI 61 certified drinking water modules require specific conditioning procedures prior to producing potable water. Please refer to the product technical manual flushing section for specific procedures. Drinking water modules may be subjected to additional regulatory restrictions in some countries. Please check local regulatory guidelines and application status before use and sales.

DOW™ Ultrafiltration

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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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