

Product Data Sheet

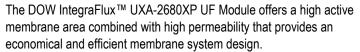
DOW IntegraFlux™ Ultrafiltration Module Model UXA-2680XP

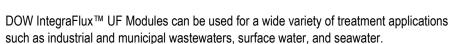
Description

DOW IntegraFlux™ Ultrafiltration (UF) Modules with XP fiber are made from high-permeability, high mechanical strength, hollow fiber PVDF membranes. The modules provide excellent performance, a high membrane area, and low energy and chemical consumption. The DOW IntegraFlux™ UXA-2680XP UF Module provides an ideal drop-in replacement for 50-m² active area modules and have the following general properties and characteristics:



- High-permeability XP fibers with optimized module design for up to 40% lower TMP, lowering energy by up to 15%
- 10% more membrane area compared to 50-m² modules, reducing plant footprint and producing more water per module
- UF fiber with 0.03-µm nominal pore diameter for high removal bacteria, viruses, and particulates, providing potentially 100X lower virus concentration in the filtrate compared to microfiltration fibers
- PVDF polymeric hollow fibers for high mechanical strength with excellent chemical resistance, providing long membrane life and reliable operation
- Outside-In flow configuration, allowing a wide range of solids in the feedwater and minimizing the need for pretreatment processes and reducing the backwash volume compared to Inside-Out configurations





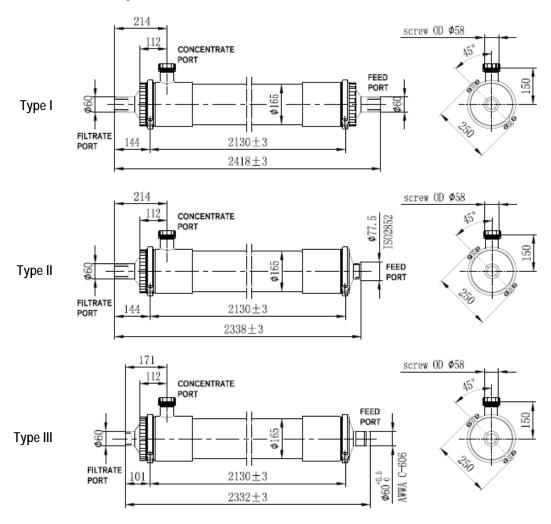
Typical Physical Properties**

DOW IntegraFlux™ Module	Membra	ne Area	Vo	lume		Weight	
	m²	ft²	liters	gallons	Empty kg/lb	Shipping kg/lb	Water Filled kg/lb
UXA-2680XP Type I	55	592	23	6	28/62	34/75	51/112
UXA-2680XP Type II	55	592	23	6	29/64	35/77	52/115
UXA-2680XP Type III	55	592	23	6	29/64	35/77	52/115



Dimensions**

DOW IntegraFlux™ UXA-2680XP UF Module:



(All dimensions are in mm. 1 inch = 25.4 mm)

Suggested Operating Conditions**

	SI Units	US Units		
Filtrate Flux (25°C)	40 – 110 L/m²h	23 – 64 gfd		
Flow Range Per Module	2.2 – 6 m ³ /h	10 – 27 gpm		
Temperature	1 – 40°C	34 – 104°F		
Maximum Inlet Module Pressure (20°C)	3 bar	43.5 psi		
Maximum Operating TMP	2.1 bar	30.5 psi		
Maximum Operating Air Scour Flow	5 – 12 Nm³/h	3 – 7.1 scfm		
Maximum Backwash Pressure	2.5 bar	36 psi		
Operating pH	2 – 11			
Recommended NaOCI	2000 mg/L			
Maximum Particle Size	300 μm			
Flow Configuration	Outside-In, dead-end flow			
Expected Filtrate Turbidity	≤ 0.1 NTU			
Expected Filtrate SDI	≤ 2	2.5		

Important Information**

Proper start-up of an ultrafiltration 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 DOW™ Ultrafiltration Technical Manual.

Operation Guidelines**

Avoid any abrupt pressure variations during start-up, shutdown, cleaning or other sequences to prevent possible membrane damage. Flush the ultrafiltration system to remove shipping solution prior to start-up. Remove residual air from the system prior to start-up. Manually start the equipment. Depending on the application, filtrate obtained from initial operations should be discarded.

Please refer to the DOW™ Ultrafiltration 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 control biological growth during extended system shutdowns, it is recommended that storage solution be injected into the membrane modules.

Please refer to the DOW™ Ultrafiltration Technical Manual and Technical Service Bulletins.

Regulatory Note

NSF/ANSI 61 and 419 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.

Product Stewardship

Dow has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis for our product stewardship philosophy by which we assess the safety, health, and environmental information on our products and then take appropriate steps to protect employee and public health and our environment. The success of our product stewardship program rests with each and every individual involved with Dow products—from the initial concept and research, to manufacture, use, sale, disposal, and recycle of each product.

Customer Notice

Dow strongly encourages its customers to review both their manufacturing processes and their applications of Dow products from the standpoint of human health and environmental quality to ensure that Dow products are not used in ways for which they are not intended or tested. Dow personnel are available to answer your questions and to provide reasonable technical support. Dow product literature, including safety data sheets, should be consulted prior to use of Dow products. Current safety data sheets are available from Dow.

For more information, contact our Customer Information Group:

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Notice: The use of this product in and of itself 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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