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DOW IntegraPac[™]Ultrafiltration Skid for Potable Use With IPD-77

The DOW IntegraPac[™] skid for potable use with IPD-77 modules from Dow Water & Process Solutions is a pre-engineered, standardized skid design consisting of DOW IntegraPac[™] Ultrafiltration modules, auxiliary parts and piping. It is designed to significantly streamline design, assembly and installation, making possible lower skid costs, reduced engineering design costs, easy assembly, smaller footprint and shortened delivery schedule. Features include:

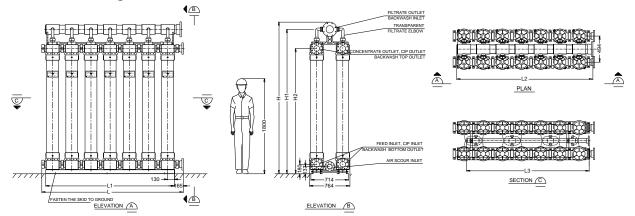


- Skid tested and certified by NSF International under NSF/ANSI Standard 61 ensuring safe use in drinking water applications.
- NSF Public Drinking Water Equipment (PDWE) Certification on module IPD-77
- No ancillary piping, manifolds and connections due to direct coupling of modules, saving cost and reducing footprint.
- · Modular and scalable for design across a wide range of flow rates
- Materials of construction selected for corrosion resistance and chemical compatibility
- Shipped unassembled to lower transportation cost for the customer and help prevent damage in transit
- Standardized and pre-fabricated components and parts eliminate measuring, cutting, gluing and welding
- · Easily accessible for physical inspection or replacement at end of life
- Operator-friendly transparent filtrate elbow designed and located for easy visual integrity inspection
- · High pressure rating to enable direct feed to reverse osmosis feed pumps

Skid Configurations with IPD-77 Modules

No. of Modules	IntegraPac [™] Skid		brane rea	Flow @ (38	65 lmh gfd)	Lengt	th (L)	Wi	dth	Heigh	nt (H)	Weigh (incl. m		0	t, filled 10dules)		ld-Up lume
		m²	ft²	m³/hr	gpm	mm	ft.	mm	ft.	mm	ft.	kg	lbs.	kg	lbs.	m³	US gal
6	IPD-77-06	462	4974	30	132	1241	4.1	764	2.51	2875	9.43	496	1093	840	1852	0.32	84.0
8	IPD-77-08	616	6632	40	176	1604	5.3	764	2.51	2875	9.43	644	1420	1102	2429	0.42	112.0
10	IPD-77-10	770	8290	50	220	1967	6.5	764	2.51	2875	9.43	791	1744	1364	3007	0.53	140.0
12	IPD-77-12	924	9948	60	264	2330	7.6	764	2.51	2875	9.43	939	2070	1626	3585	0.64	168.0
14	IPD-77-14	1078	11606	70	309	2693	8.8	764	2.51	2875	9.43	1091	2405	1893	4173	0.74	196.0
16	IPD-77-16	1232	13264	80	353	3056	10.0	764	2.51	2875	9.43	1249	2754	2165	4773	0.85	224.0
18	IPD-77-18	1386	14922	90	397	3419	11.2	764	2.51	2875	9.43	1401	3089	2432	5362	0.95	252.0
20	IPD-77-20	1540	16580	100	441	3782	12.4	764	2.51	2875	9.43	1554	3426	2699	5950	1.06	280.0
22	IPD-77-22	1694	18238	110	485	4145	13.6	764	2.51	2875	9.43	1706	3761	2966	6539	1.17	308.0

Example: 2 x 7 IntegraPac IPD-77-14 Arrangement







Certified to NSF Public Drinking Water Equipment Performance Guideline

Operating Parameters

		SI Units	US Units					
	Filtrate Flux @ 25°C	60-140 l/m²/hr	35-82 gfd					
	pH, Operating	2-11	2-11					
	pH, Cleaning	2-12	2-12					
	Temperature	1-40°C	34º-104ºF					
	Max. Inlet Module Pressure (@20ºC)	6.25 bar	93.75 psi					
	Max. Operating TMP	2.1 bar	30 psi					
	Max. Operating Air Scour Flow	12 Nm ³ /hr	7.1 scfm					
	Max. Backwash Pressure	2.5 bar	36 psi					
	NaOCI (max)	2,000 mg/L						
	TSS (max)	100 mg/L						
	Turbidity (max)	300 NTU						
	Particle Size (max)	300	μm					
	Flow Configuration	Outsi	de-in					
	Expected Filtrate Turbidity	≤0.1	NTU					
	Expected Filtrate SDI	≤2	.5					
Operational Guidelines	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 DOW IntegraPac [™] skid, 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 DOW IntegraPac [™] ultrafiltration system to remove storage 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 prevent biological growth during extended 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 skids with IPD-77 modules require specific conditioning procedures prior to producing potable water. Please refer to the product technical manual flushing section for specific procedures. Drinking water skids may be subjected to additional regulatory restrictions in some countries. Please check local regulatory guidelines and application status before use and sales.							
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Warning: 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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