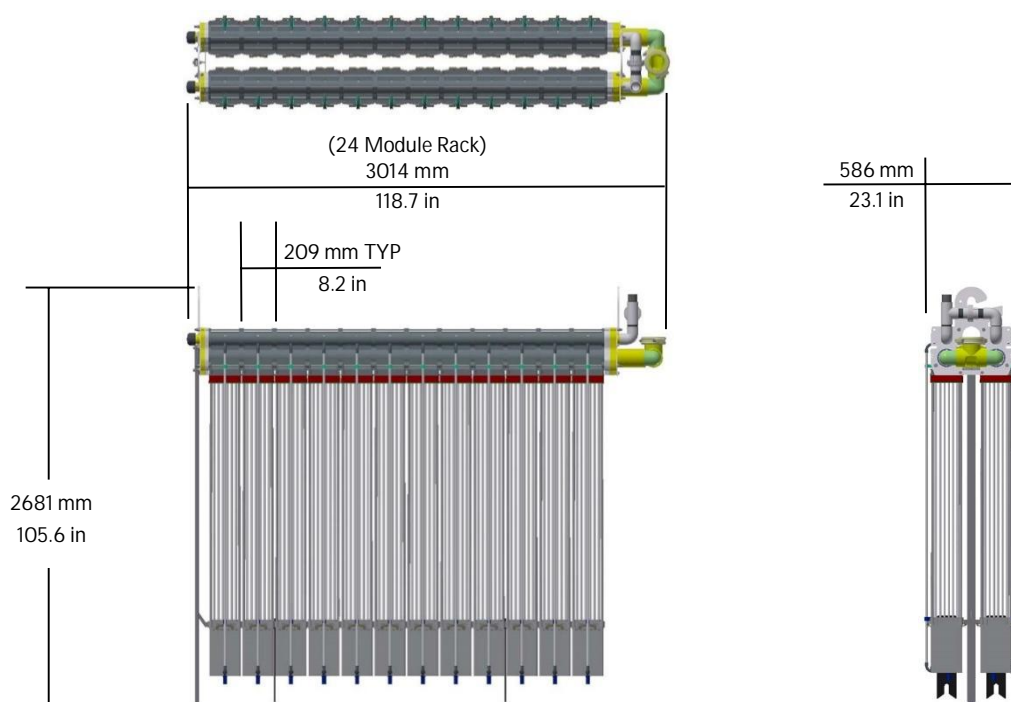
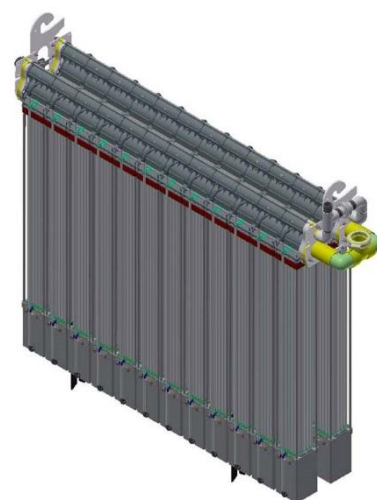


MEMPULSE® 16B40 – 24B40 MBR DUAL RACK SPECIFICATION



16B40 – 24B40 RACK SET SPECIFICATIONS

Parameter	Details
Module Operating Process	Submerged Ultrafiltration with MemPulse®
Application	Membrane Bioreactor (MBR) Systems
Membrane Module Type	MEMCOR® B40N Hollow Fiber Membrane Filtration Modules (refer to separate specification sheets) ^{Note i}
Filtration Flow Direction	Outside to Inside
Number of Membrane Modules Fitted	2 equal rows each of from 8 to 12 x B40 Membrane Filtration Modules – up to 24 in total (24 Module Dual Rack illustrated)
Membrane Material	PVDF (Polyvinylidene Fluoride)
Nominal Membrane Pore Size	0.04 µm
Nominal Total Membrane Area	960 m ² / 10,330 ft ² for 24B40N Dual Rack



16B40 – 24B40 RACK SET DETAILS

Parameter	Details			
Standard Process Connections (Both process connections are vertical upwards at the front end at the top.)	Filtrate Outlet Termination Point:		100 NB / 4"	
	Noryl/EPDM Grooved Pipe Coupling. (Coupling and coupling fasteners supplied).			
	Aeration Air Inlet Termination Point:		50 NB / 2"	
	Grey UPVC 50 NS (2") BSP Threaded Nipple (Suitable for camlock or similar connection for aeration air hose)			
Aeration and Filtrate Termination Point Connection hardware	The Filtrate Outlet grooved coupling is supplied as standard equipment. Coupling details are available on request.			
	An Air Inlet quick coupling and connecting hose are not included but can be supplied as options to suit site requirements (length and connection types to be specified)			
Nominal Dual Rack Assembly Width and Height	586 mm W x 2681 mm H 23.1 in W x 105.6 in H			
Nominal Dual Rack Assembly Lengths			Overall Length	Length Between Lifting Plates
	16 Module Rack (mm/in)		2178 / 85.7	1797 / 70.7
	18 Module Rack (mm/in)		2387 / 94.0	2007 / 79.0
	20 Module Rack (mm/in)		2596 / 102.2	2215 / 87.2
	22 Module Rack (mm/in)		2805 / 110.4	2424 / 95.4
	24 Module Rack (mm/in)		3014 / 118.7	2633 / 103.7
Approximate Dual Rack Assembly Masses (loaded with Modules and filtrate side substantially filled with water)	16B40N	520 kg / 1140 lbs	18B40N	570 kg / 1250 lbs
	20B40N	620 kg / 1360 lbs	22B40N	670 kg / 1470 lbs
	24B40N	720 kg / 1580 lbs		
	(The mass will be greater if the Modules are heavily soiled)			
Recommended Minimum Hoist Capacity	1000 kg / 2200 lb			
Typical Wetted Rack Assembly Components	Nylon mouldings, SS316 end/lifting plates, tie rods, nuts and washers, EPDM seals, PVC Air Droppers, HDPE Locator Plates, ABS and UPVC pipe/tube and fittings			
Temperature Range for Transportation and Storage (without Modules)	> 0 to 50 °C / > 32 to 122 °F ^{Note i} (Must not be exposed to freezing conditions)			
Protection from ultraviolet (UV) radiation	The assembly should not be exposed to ultraviolet radiation (direct sunlight) during storage or operation.			

Notes:

- i. When Membrane Filtration Modules are fitted to the Rack Set, the transport, storage and operating limits of the membranes determine allowable limits of exposure. Please refer to the relevant Module specification sheet for further details.



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