

# ZW700B-RMS

## rackless module system - ZeeWeed\* pressurized ultrafiltration (UF)

### description and use



**Fig. 1: ZW700B-RMS  
2x6 configuration**

As a pioneer of membrane technology, SUEZ leverages decades of research, development, and operational experience to offer one of the most advanced ultrafiltration technology in the market. The ZeeWeed 700B RMS (Figure 1) line of products contains our SevenBore\* fiber technology with an inside-out flow orientation. The SevenBore fiber is regarded

as a leading polyethersulfone (PES) product on the market.

Customers of pressurized UF systems want cost-effective, worry-free solutions that meet their specific needs for the lifetime of their plant. SUEZ's engineers have developed a revolutionary solution that meets all these needs.

### product specifications element data

Description	ZW700B 10072/UF8/7B/RMS/0.9/85
Material	Modified PES
Type	SevenBore
Material housing	PVC
Module Surface Area	85 m <sup>2</sup> (914.9 ft <sup>2</sup> )
Feed connection OD	6" Victaulic
Permeate connection OD	6" Victaulic
Reject connection OD	6" Victaulic
Housing OD	250 mm (10 inch)
Weight	54 kg (119 lbs)
Diameter bores ID	0.9 mm (0.04 inch)
Diameter fiber OD	3.6 mm (0.14 inch)

### typical process conditions

Description	Measurement
Maximum temperature	40°C (104°F)
Max pressure	5 bar (72.5 psi)
Typical Trans Membrane Pressure (TMP) operation	<1.0 bar (14.5 psi)
TMP maximum	2.5 bar (36 psi)
Backwash/forward flush maximum	250 l/m <sup>2</sup> h (150 gfd)
pH range during operation	2 to 11

### cleaning

Description	Measurement
Cleaning pH range	1.0-13.0
Disinfecting Chemicals:	
Hypochlorite (NaOCl)	50 to 200 ppm
Hydrogen peroxide	100 to 200 ppm

### general properties

- UF membrane - for optimal removal of particulates, bacteria and viruses
- PES membrane fibers with 7 bores - provides high mechanical strength (>10x that of single fibers) and chemical resistance
- Inside-Out filtration – eliminates air scouring step and additional related equipment

### storage and handling

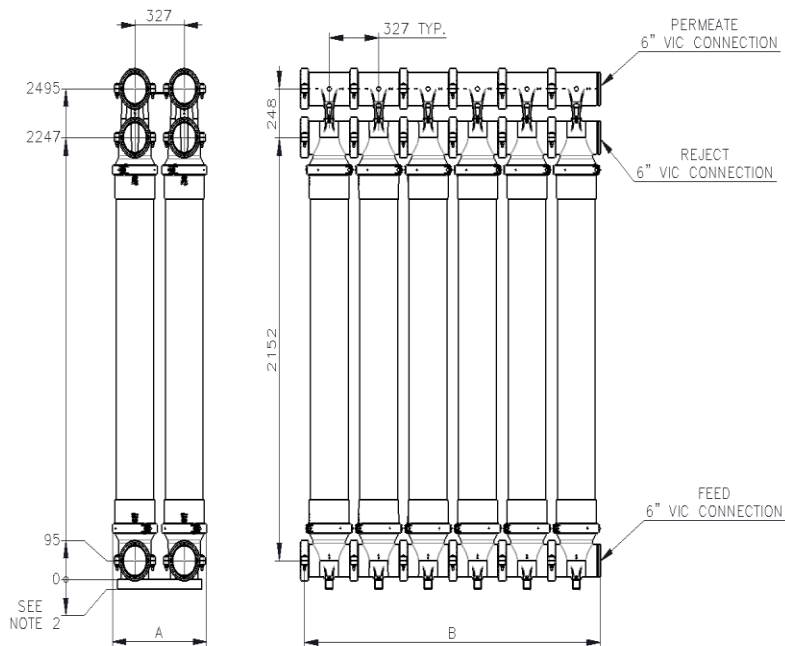
All elements are filled with glycerin when new, which is part of the fiber manufacturing and preservation process. Elements must be stored in a dry and normal ventilated location, away from any sources of heat, ignition and direct sunlight in the original packing. The storage temperature must be between 5°C and 35°C (41°F to 95°F).

## ZW700B-RMS configurations

### RMS with 2 rows of modules (85m<sup>3</sup>)

# of Modules	Train Width (A)		Train Length (B)		Footprint		Surface Area	
	mm	ft	mm	ft	m2	ft2	m2	ft2
2	623	2.04	327	1.07	0.20	2.19	170	1830
4	623	2.04	654	2.15	0.41	4.39	340	3660
6	623	2.04	981	3.22	0.61	6.58	510	5490
8	623	2.04	1308	4.29	0.81	8.77	680	7319
10	623	2.04	1635	5.36	1.02	10.96	850	9149
12	623	2.04	1962	6.44	1.22	13.16	1020	10979
14	623	2.04	2289	7.51	1.43	15.35	1190	12809
16	623	2.04	2616	8.58	1.63	17.54	1360	14639
18	623	2.04	2943	9.66	1.83	19.74	1530	16469
20	623	2.04	3270	10.73	2.04	21.93	1700	18299
22	623	2.04	3597	11.80	2.24	24.12	1870	20129
24	623	2.04	3924	12.87	2.44	26.31	2040	21958
26	623	2.04	4251	13.95	2.65	28.51	2210	23788
28	623	2.04	4578	15.02	2.85	30.70	2380	25618
30	623	2.04	4905	16.09	3.06	32.89	2550	27448
32	623	2.04	5232	17.17	3.26	35.09	2720	29278

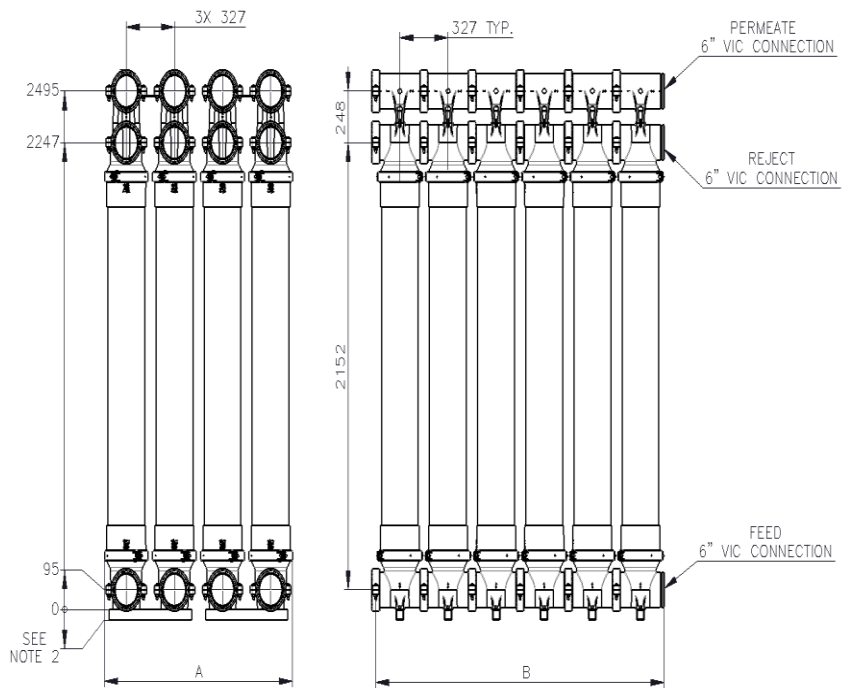
NOTE 1: ZW 700B -RMS is not rated for high seismic zones. A seismic kit is available for special acceleration ratings up to 3.0g upon request.



NOTE 2: Technical details on module support options available upon request.

RMS with 4 rows of modules (85m<sup>2</sup>)

# of Modules	Train Width (A)		Train Length (B)		Footprint		Surface Area	
	mm	ft	mm	ft	m2	ft2	m2	ft2
4	1277	4.19	327	1.07	0.42	4.49	340	3660
8	1277	4.19	654	2.15	0.84	8.99	680	7319
12	1277	4.19	981	3.22	1.25	13.48	1020	10979
16	1277	4.19	1308	4.29	1.67	17.98	1360	14639
20	1277	4.19	1635	5.36	2.09	22.47	1700	18299
24	1277	4.19	1962	6.44	2.51	26.97	2040	21958
28	1277	4.19	2289	7.51	2.92	31.46	2380	25618
32	1277	4.19	2616	8.58	3.34	35.96	2720	29278
36	1277	4.19	2943	9.66	3.76	40.45	3060	32938
40	1277	4.19	3270	10.73	4.18	44.95	3400	36597
44	1277	4.19	3597	11.80	4.59	49.44	3740	40257
48	1277	4.19	3924	12.87	5.01	53.94	4080	43917
52	1277	4.19	4251	13.95	5.43	58.43	4420	47576
56	1277	4.19	4578	15.02	5.85	62.93	4760	51236
60	1277	4.19	4905	16.09	6.26	67.42	5100	54896
64	1277	4.19	5232	17.17	6.68	71.92	5440	58556



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