

ZW1500-RMS

rackless module system - ZeeWeed* pressurized ultrafiltration (UF)

description and use

Customers of pressurized UF systems want cost-effective, worry-free solutions that meet their specific needs for the lifetime of their plant. This is achieved through a balance of several factors including capital costs, footprint, current and future water demands, supplier experience, after sales support, power, chemicals and membrane replacements. Due the proprietary nature of UF membranes and operational processes, there is no universal module and therefore no universal rack. SUEZ's engineers and researchers have determined the only truly universal rack is no rack at all.

By developing a cost-effective, modular, rackless system, SUEZ has solved the universal rack dilemma. The SUEZ ZW1500-RMS (Fig. 1) uses ZeeWeed membrane technology, a membrane that has been proven to meet or exceed regulatory requirements, regardless of source water quality.



Figure 1: ZW1500-RMS 2x8 configuration



Figure 2: Blue shaded area shows the reduced footprint of the ZW1500-RMS when compared to a typical pressurized UF rack.

why ZW1500-RMS?

The ZW1500-RMS offers several benefits to our customers:

- **Cost** - 75% lower than a typical rack
- **Footprint** - 50% reduction in rack footprint (Fig. 2)
- **Simplicity** – minimized site assembly (Fig. 3)
- **Reliability** – uses proven ZW1500 membrane module
- **Modularity** – simple building blocks provide plant layout versatility and easy future expansion

NOTE: ZW1500-RMS is not rated for high seismic zones. A seismic kit is available for special acceleration ratings up to 3.0g, upon request.

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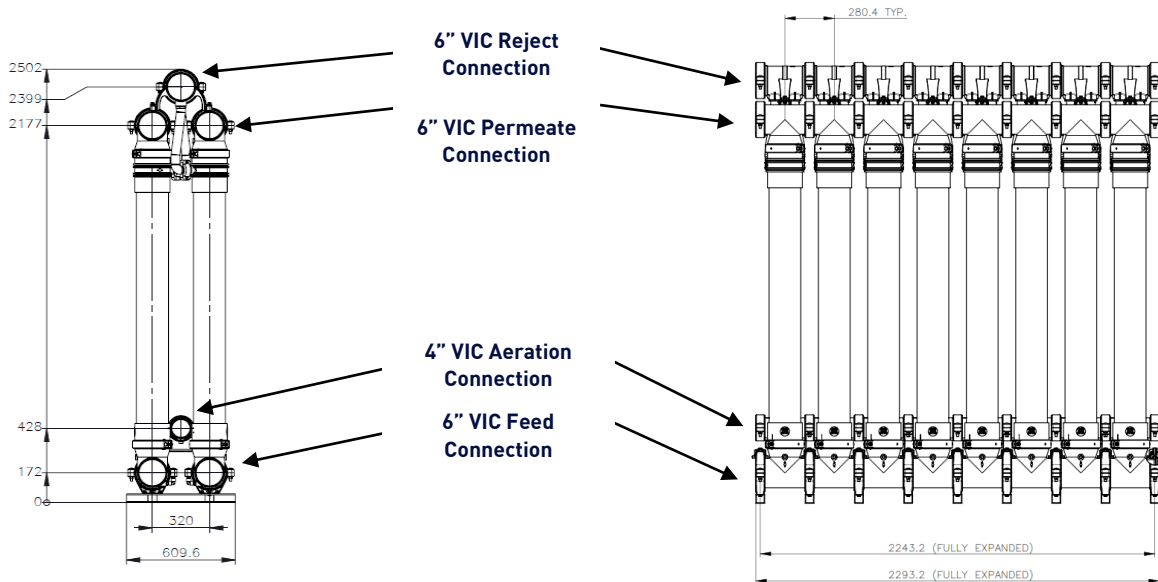


Figure 3: ZW1500-RMS connections

ZW1500-RMS configurations

Table 1: RMS with 2 rows of modules

Rack Size		# of Modules	Train Length		Footprint		Surface Area	
L	W		Ft	m	Ft ²	m ²	Ft ²	m ²
8	2	16	7.5	2.3	15.1	1.4	9,600	892
10	2	20	9.4	2.9	18.8	1.7	12,000	1,115
12	2	24	11.2	3.4	22.4	2.1	14,400	1,338
14	2	28	13.1	4.0	26.1	2.4	16,800	1,561
16	2	32	14.9	4.5	29.8	2.8	19,200	1,784
18	2	36	16.7	5.1	33.5	3.1	21,600	2,007
20	2	40	18.6	5.7	37.1	3.5	24,000	2,230
22	2	44	20.4	6.2	40.8	3.8	26,400	2,453
24	2	48	22.3	6.8	44.5	4.1	28,800	2,676
26	2	52	24.1	7.3	48.2	4.5	31,200	2,899
28	2	56	25.9	7.9	51.9	4.8	33,600	3,122
30	2	60	27.8	8.5	55.5	5.2	36,000	3,345
32	2	64	29.6	9.0	59.2	5.5	38,400	3,567



Table 2: RMS with 4 rows of modules

Rack Size		# of Modules	Train Length		Footprint		Surface Area	
L	W		Ft	m	Ft ²	m ²	Ft ²	m ²
8	4	32	7.5	2.3	30.9	2.9	19,200	1,784
10	4	40	9.4	2.9	38.4	3.6	24,000	2,230
12	4	48	11.2	3.4	46.0	4.3	28,800	2,676
14	4	56	13.1	4.0	53.5	5.0	33,600	3,122
16	4	64	14.9	4.5	61.1	5.7	38,400	3,567
18	4	72	16.7	5.1	68.6	6.4	43,200	4,013
20	4	80	18.6	5.7	76.2	7.1	48,000	4,459
22	4	88	20.4	6.2	83.7	7.8	52,800	4,905
24	4	96	22.3	6.8	91.2	8.5	57,600	5,351
26	4	104	24.1	7.3	98.8	9.2	62,400	5,797
28	4	112	25.9	7.9	106.3	9.9	67,200	6,243
30	4	120	27.8	8.5	113.9	10.6	72,000	6,689
32	4	128	29.6	9.0	121.4	11.3	76,800	7,135

