

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 such as capital costs, footprint, current and future water demands, supplier experience and 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's ZW1500-RMS (Fig. 1) – SUEZ has solved the universal rack dilemma. The ZW1500-RMS 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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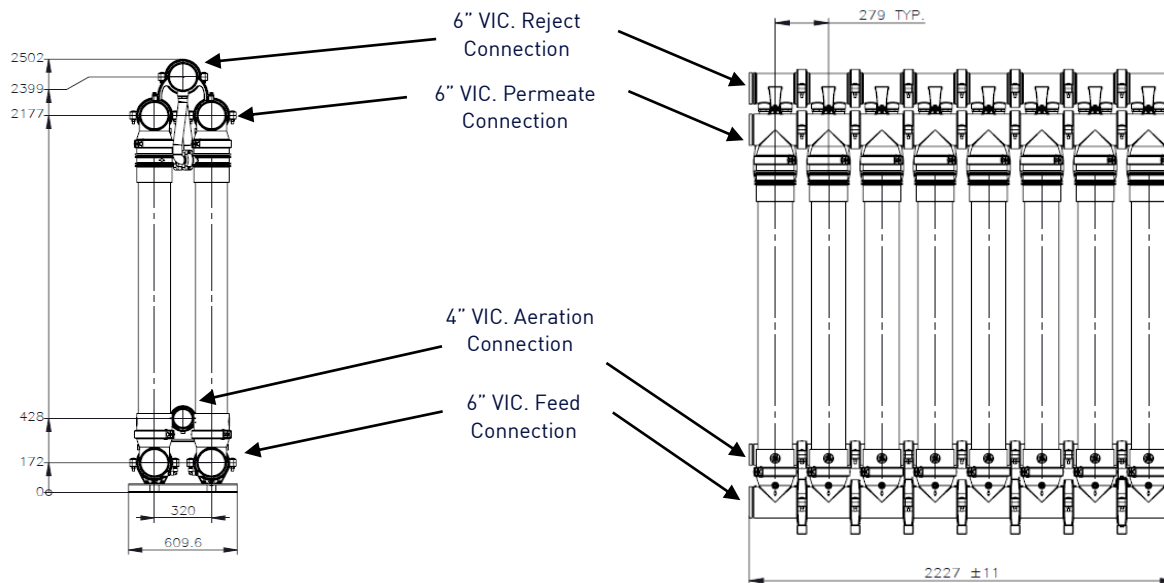


Figure 3: ZW1500-RMS connections

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	15.6	1.4	9,600	891
10	2	20	9.4	2.9	19.5	1.8	12,000	1,114
12	2	24	11.3	3.4	23.4	2.2	14,400	1,337
14	2	28	13.1	4.1	27.3	2.5	16,800	1,560
16	2	32	15.0	4.6	31.3	2.9	19,200	1,782
18	2	36	16.9	5.2	35.2	3.3	21,600	2,005
20	2	40	18.8	5.7	39.1	3.6	24,000	2,228
22	2	44	20.6	6.3	43.0	4.0	26,400	2,451
24	2	48	22.5	6.9	46.9	4.4	28,800	2,674
26	2	52	24.4	7.4	50.8	4.7	31,200	2,896
28	2	56	26.3	8.0	54.7	5.2	33,600	3,119
30	2	60	28.1	8.6	58.6	5.4	36,000	3,342
32	2	64	30.0	9.1	62.5	5.8	38,400	3,565



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	31.3	2.9	19,200	1,782
10	4	40	9.4	2.9	39.1	3.6	24,000	2,228
12	4	48	11.3	3.4	46.9	4.4	28,800	2,674
14	4	56	13.1	4.1	54.7	5.1	33,600	3,119
16	4	64	15.0	4.6	62.5	5.8	38,400	3,565
18	4	72	16.9	5.1	70.3	6.5	43,200	4,010
20	4	80	18.8	5.7	78.1	7.3	48,000	4,456
22	4	88	20.6	6.3	85.9	8.0	52,800	4,902
24	4	96	22.5	6.9	93.8	8.7	57,600	5,347
26	4	104	24.4	7.4	101.6	9.4	62,400	5,793
28	4	112	26.3	8.0	109.4	10.2	67,200	6,238
30	4	120	28.1	8.6	117.2	10.9	72,000	6,684
32	4	128	30.0	9.1	125.0	11.6	76,800	7,130

