

Torrent 2000 High Efficiency Purifier



The Torrent 2000 is a compact RO-based (reverse osmosis) water purification system that has been designed to provide 95%+ TDS reduction for demanding applications. It accomplishes this while producing a very small amount of waste water, unlike traditional RO systems. The Torrent 2000 is also a water softener, reducing hardness by up to 98% without the use of salt.

Due to its proprietary flow path, there is no significant loss of pressure through the system and no repressurization is required.

The availability of on-demand purified water can be customized to the application using the supplied design guide.

Technical Specifications

Production per day	10,600 litres	2,800 USgal
Real-time production ¹	7.6 Lpm	2 US GPM
Waste water, typical	8 - 25%, source water quality dependent	
Overall Dimensions W x D x H	36cm x 39cm x 125cm	14" x 15" x 50"
Weight	66 kg	145 lbs
Electrical requirements	120VAC, 11A Nominal	
Pressure drop, service flow	< 14 kpa at 40 Lpm	< 2psi at 10 US GPM
Maintenance solution capacity	10kg jug (3,300m ³ treatment @ 3ppm)	22 lbs (870,000USgal treatment @ 3ppm)
Electrical Safety	Field evaluated to CSA model code SPE-1000	

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Requirements

Feed Water		
Temperature	4 - 28°C	39 - 82°F
Feed water TDS, max ²	1500 mg/L	
Feed water Hardness, max ²	1110 mg/L as CaCO ₃	65 gpg
Feed water pressure	200 - 550 kPa	30 - 80 PSI
Feed water supply	15 Lpm	4 US GPM
Turbidity, max	< 1.0 NTU	
SDI, max	< 2.5	
Silica, max	25 mg/L SiO ₂	
Free chlorine/chloramine	< 0.1 mg/L	
Iron, mg/L	Requires pre-treatment	
Manganese		
Hydrogen Sulfide (H ₂ S)		
Ambient Temperature	4-25°C	39 - 77°F
Prefilter, particulate	1 micron (25-1 dual gradient preferred)	

¹ Treatment flow rate is based on 20°C water temperature. Lower water temperature reduces production by approximately 3%/°C below 20°C

² The Torrent 2000 is capable of treating water exceeding this limit, however Torrent Water Systems must be consulted for application-specific assistance.

Design Guide

Capacity Requirement	Recommended setup	Reservoir Tank Dimensions (Diameter x H)	Reserve capacity	System Footprint (D x W)
< 35 USgal	Single tank	13" x 54"	28 USgal (106L)	30" x 50"
35 - 60 USgal	Single tank	14" x 65"	39 USgal (148L)	30" x 52"
60 - 90 USgal	Dual tank	14" x 65"	78 USgal (296L)	30" x 70"
90 - 120 USgal	Triple tank	14" x 65"	117 USgal (444L)	30" x 88"