

HEP 2000 High Efficiency Purifier



The HEP 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 HEP 2000 is also a water softener, reducing hardness by 99% 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	2800 USgal	10600 litres
Real-time production (25°C)	2 US GPM	7.6 Lpm
Dimensions	15"W x 16"D x 50"H	38cm W x 41cm D x 127cm H
Weight	135 lbs	61 kg
Electrical requirements	120VAC, 11A Nominal	
Pressure drop, service flow	< 2psi at 20 US GPM	< 14 kpa at 80 Lpm
Maintenance solution capacity	0.58 USgal (194,000 USgal treatment @ 3ppm)	2.2 Litres (733m ³ treatment @ 3ppm)

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Requirements

Feed Water		
Temperature	39 - 82°F	4 - 28°C
Feed water TDS, max*	1500 mg/L	
Feed water Hardness, max*	50 gpg	850 mg/L as CaCO ₃
Feed water pressure	30 - 80 PSI	200 - 550 kPa
Turbidity, max	< 1.0 NTU	
SDI, max	< 5.0	
Silica, max	25 mg/L SiO ₂	
Free chlorine	< 0.1 mg/L	
Iron, mg/L	Requires pre-treatment	
Manganese		
Hydrogen Sulfide (H ₂ S)		
Ambient Temperature	39 - 77°F	4-25°C
Pre-filter, particulate	5 micron	

*For applications exceeding these limits, contact Torrent Water Systems 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"	27 USgal (102L)	16" x 30"
35 - 60 USgal	Single tank	14" x 65"	38 USgal (144L)	16" x 32"
60 - 90 USgal	Dual tank	14" x 65"	76 USgal (288L)	16" x 50"
90 - 120 USgal	Triple tank	14" x 65"	114 USgal (432L)	16" x 60"