# **Torrent 2000** High Efficiency Purifier

Technical Specification Sheet

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 CaCO3 | 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 SiO2 | |
| Free chlorine/chloramine | < 0.1 mg/L | |
| Iron, mg/L | Requires pre-treatment | |
| Manganese | | |
| Hydrogen Sulfide ($H_2S$) | | |
| | | |
| Ambient Temperature | 4-25˚C | 39 - 77˚F |
| Prefilter, particulate | 5 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.

## Recommended Storage

| Household size | Recommended setup | Reservoir Tank Dimensions (Diameter x H) | Reserve capacity | System Footprint (D x W) |
|---|---|---|---|---|
| 1-3 people | Single tank | 13” x 54” | 106 L (28 USgal) | 30” x 50” |
| 4-5 people | Single tank | 14” x 65” | 148 L (39 USgal) | 30” x 52” |
| 6-8 people | Dual tank | 14” x 65” | 296 L (78 USgal) | 30” x 70” |
| 9+ people | Triple tank | 14” x 65” | 444 L (117 USgal) | 30” x 88” |