

## 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 <sup>1</sup> | 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<br>(3,300m <sup>3</sup> treatment<br>@ 3ppm) | 22 lbs<br>(870,000USgal treatment<br>@ 3ppm) |

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### Requirements

|                                       |   |             |
|---------------------------------------|---|-------------|
| Feed Water                            |   |             |
| Temperature                           | 4 - 28°C                                | 39 - 82°F   |
| Feed water TDS, max <sup>2</sup>      | 1500 mg/L                               |             |
| Feed water Hardness, max <sup>2</sup> | 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 (H2S)                |   |             |
|                                       |   |             |
|                                       |   |             |
| Ambient Temperature                   | 4-25°C                                  | 39 - 77°F   |
| Prefilter, particulate                | 1 micron (25-1 dual gradient preferred) |             |

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

<sup>2</sup> 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"                |