



Technical Data Sheet

Water purification system

Product description

Ideal for laboratories needing reliable, constant production of ASTM Type 3 water from potable tap water. Complementary water purification techniques, including pretreatment and high-performance reverse osmosis (RO) membranes, enable reliable production of ASTM-Type 3 pure water. Temperature compensation ensures constant flow rates. Systems are available in 8 or 24 liter models to match the specific volume needs of your laboratory.

Systems integrate advanced RO technology and automatic RO self-maintenance functions. The systems are robust and require little maintenance, leaving you free to concentrate on your laboratory work. Clear instructions, alerts and alarms make it easy to keep your system in optimum condition.

Compared to standard RO systems, our system's efficient RO-reject water recirculation loop, decreases tap water consumption by 50% or more, and also doubles the lifetime of the Progard® pack, as the recovered water has already been pretreated. This results in decreased running costs.

Applications

The water which is produced with the purification systems offered by Minitube is ideal for:

- Preparation of extenders
- Glassware rinsing
- Water baths
- Feed water for humidifiers, autoclaves, glassware washers, washing machines
- Feed water for ultrapure water systems

Water purification system

RiOs™ Essential 8 [REF: 1404/0008](#)

RiOs™ Essential 24 [REF: 1404/0024](#)

Product features

- Reliable production of ASTM-Type 3 pure water through complementary water purification techniques: pretreatment and high-performance reverse osmosis (RO) membranes
- Temperature compensation ensures constant flow rates
- Reduced water waste is achieved by recycling part of the reject water to the RO membrane feed water stream, which decreases water consumption by 50% or more compared to standard RO systems
- Intuitive control of system use, with system alert and alarm icons on a color-coded backlit LCD display to clearly show message importance
- Automatic RO self-maintenance functions
- New, ergonomic pack locking system to change Progard® cartridge quickly and easily
- RFID technology provides pack traceability
- Small footprint, enabling convenient installation to make best use of laboratory space
- The purification systems are delivered with either a 100 l (Ref. 1404/0008) or 200 l (Ref. 1404/0024) storage tank



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Specifications

Product flow rate +/- 15%, 7 to 35 °C	8 or 24 L/h
Ionic content	Typical rejection > 95%
Organics & Particulates	Typical rejection > 99%

System Information

Dimensions (H x W x D) mm	470 x 268 x 339 (18.50 x 10.55 x 13.35 in)
Net weight	10.9 - 12.1 kg (23.9 – 26.7 lb)
Operating weight	14.4 - 15.7 kg (31.7 – 34.5 lb)
Electrical feed voltage	100-230 V +/- 10%
Electrical feed frequency	50-60 Hz
Tap (feed) water connection	½" Gas M

Feed Water Requirements

Water quality	Potable tap water
Temperature	5 to 35 °C
Fouling index	< 12*
Free chlorine	< 3 ppm
Minimum feed water pressure	1,0 bar
Maximum feed water pressure	6,0 bar

* If the Fouling index is ≥ 12 , additional pre-filtration is recommended