Ultrapure Water System - Type I Lab Water Purifier - 18.25 MΩ·cm - 20 or 30 L/h

Model **MSLWP-S3-20VFSWISS, MSLWP-S3-30VFSWISS** | Brand **Master Science**





The Master Science Ultrapure Water System produces three grades of water from city tap water: RO water for glassware rinsing, deionized water to ASTM Type II quality, and ultrapure water to ASTM Type I quality with 18.25 MΩ·cm resistivity. A dual-wavelength UV lamp lowers TOC and a 5000 D ultrafiltration module removes pyrogens.

KEY HIGHLIGHTS

- Three grades of water
- Ready for sensitive tests
- Longer cartridge life
- Constant quality check
- Fewer surprises

Request a Quotation
Contact us for pricing, configuration options and delivery details.

support@themsci.com
www.themsci.com

Scan to view online

Overview

A backlit LCD shows RO conductivity, ultrapure resistivity and operating status at the same time. Two production rates are available, 20 and 30 L/h, with an 8 L pressure tank built in.

Key Benefits

Three grades of water
the Master Science Ultrapure Water System covers RO, Type II and Type I.

Ready for sensitive tests
very low TOC, endotoxin and nuclease levels.

Longer cartridge life
KDF pretreatment removes chlorine and heavy metals.

Constant quality check
online conductivity and resistivity readings.

Fewer surprises
quality limit alarm and filter change reminders.

For RO and DI water only, see the Master Science deionized water purifier.

Technical Specifications

GENERAL

General	Specifications of the Master Science Ultrapure Water System (20VF / 30VF):
Brand	Master Science
Model Number	MSLWP-S3-20VFSWISS, MSLWP-S3-30VFSWISS
SKU	MSLWP-S3-20VFSWISS, MSLWP-S3-30VFSWISS
Brand	Master Science
Model Numbers	MSLWP-S3-20VFSWISS, MSLWP-S3-30VFSWISS
SKU	MSLWP-S3-20VFSWISS, MSLWP-S3-30VFSWISS
Production Rate	20 / 30 L/h
Dispense Rate	1.5 to 2 L/min (with pressure tank)
Feed Water	City tap water, 0.15 to 0.5 MPa, 5 to 40 °C
RO Water	Ion rejection 97 to 99 %, organics > 99 % (MW > 200 Da), particles and bacteria > 99 %
Type II (DI) Water	10 to 16 MΩ·cm at 25 °C, < 0.1 µS/cm, TOC < 30 ppb
Type I (UP) Water	18.25 MΩ·cm at 25 °C, heavy metals < 0.01 ppb, TOC < 3 ppb
Bacteria	< 1 CFU/mL (with terminal filter)
Particles > 0.1 µm	< 1 /mL
Endotoxin	< 0.001 EU/mL
RNase / DNase	< 1 pg/mL / < 5 pg/mL
Pretreatment	10 µm 316L stainless screen, KDF media
Sterilisation	Dual-wavelength UV lamp
Ultrafiltration	5000 D module
Power Supply	100 to 240 V, 50/60 Hz, 48 to 72 W

DISPLAY & DATA

Display	Backlit LCD, dual online monitoring
Storage	8 L built-in pressure tank

COMMON LABORATORY PROBLEMS AND HOW THIS SYSTEM HELPS

Common Laboratory Problems and How This System Helps	How the Master Science Ultrapure Water System addresses lab water issues:
Background peaks from impure water	TOC below 3 ppb.
Endotoxin interference in cell work	5000 D ultrafiltration.
Not knowing when to change filters	automatic reminders.
Buying water for different grades	one unit makes all three.

Applications

Ultrapure water from the Master Science Ultrapure Water System is used for: Molecular biology and gene research Cell culture and life sciences Amino acid analysis and protein purification Toxicology and drug development Medical testing; Type II water for analysers and media

Purification

- 316L precision screen and KDF pretreatment
- RO membrane and polishing column
- UV lamp and 5000 D ultrafilter

Monitoring and Control

- Backlit LCD, menu operation
- RO conductivity and UP resistivity online
- Touch-key dispensing

Convenience

- Built-in 8 L antibacterial tank
- Quick-connect cartridges
- Side-opening door

Standard Accessories Included

- Main unit with one set of purification cartridges
- 8 L built-in pressure tank
- TDS test pen
- Accessory kit

Optional Accessories

- RS-232C data interface
- 3 m telescopic dispensing gun
- Ultrapure water recirculation system