Touch Screen Ultrapure Water Purifier 18.25 MΩ.cm, 10-30 L/h RO and Type I Lab Water System

Model **MSLWP-F3-10SWISS,MSLWP-F3-20SWISS,MSLWP-F3-30SWISS,MSLWP-F3-F10SWISS,MSLWP-F3-F20SWISS,MSLWP-F3-F30SWISS,MSLWP-F3-V10SWISS,MSLWP-F3-V20SWISS,MSLWP-F3-V30SWISS,MSLWP-F3-VF10SWISS,MSLWP-F3-VF20SWISS,MSLWP-F3-VF30SWISS** | Brand **Master Science**




Ultrapure Water Purifier, Front View


Ultrapure Water Purifier with Color Touch Screen


Ultrapure Water Purifier, Angled View

The Master Science Touch Screen Ultrapure Water Purifier turns urban tap water into two grades of laboratory water: RO pure water with 95-99% desalination and conductivity of 10 µS/cm or less, and ultrapure water at 18.25 MΩ.cm (25°C). Output rates of 10, 20 or 30 L/h are available.

KEY HIGHLIGHTS

- Two water grades from one unit
- Clear monitoring
- Fewer filter changes
- Traceable records

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

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Overview

Four configurations cover different needs. The base series gives TOC below 10 ppb; the F series adds an ultrafiltration membrane for pyrogen, RNase and DNase removal; the V series adds a UV lamp for TOC below 3 ppb; and the VF series combines both. A colour touch screen shows the system status and real-time water data.

> For general deionized water needs, see our Deionized Water Purifier, 10-30 L/h alongside the Touch Screen Ultrapure Water Purifier.

Key Benefits

Two water grades from one unit
RO water for general use and 18.25 MΩ.cm ultrapure water for sensitive analysis.

Clear monitoring
The colour touch screen shows working status, real-time water quality and filter life.

Fewer filter changes
A long-life KDF filter and a washable 10 µm stainless steel pre-filter reduce consumable replacement.

Traceable records
A USB host port exports alarm history and water intake history.

Technical Specifications

GENERAL	
Brand	Master Science
Model Number	MSLWP-F3-10SWISS,MSLWP-F3-20SWISS,MSLWP-F3-30SWISS,MSLWP-F3-F10SWISS,MSLWP-F3-F20SWISS,MSLWP-F3-F30SWISS,MSLWP-F3-V10SWISS,MSLWP-F3-V20SWISS,MSLWP-F3-V30SWISS,MSLWP-F3-VF10SWISS,MSLWP-F3-VF20SWISS,MSLWP-F3-VF30SWISS
SKU	MSLWP-F3-10SWISS,MSLWP-F3-20SWISS,MSLWP-F3-30SWISS,MSLWP-F3-F10SWISS,MSLWP-F3-F20SWISS,MSLWP-F3-F30SWISS,MSLWP-F3-V10SWISS,MSLWP-F3-V20SWISS,MSLWP-F3-V30SWISS,MSLWP-F3-VF10SWISS,MSLWP-F3-VF20SWISS,MSLWP-F3-VF30SWISS
Series	LWP-F3 (base), F (with UF), V (with UV), VF (with UV and UF)
Water Production Rate	10, 20 or 30 L/h per model
Feed Water	Urban tap water, TDS < 200 ppm, 0.1-0.4 MPa, 5-45°C
Dispensing Flow	1.5-2 L/min (with pressure tank)
Water Outlets	2: RO pure water and ultrapure water
RO Water Quality	Desalination rate 95-99%, conductivity ≤ 10 µS/cm
Ultrapure Water Resistivity	18.25 MΩ.cm at 25°C
TOC	< 10 ppb (base and F); < 3 ppb (V and VF)
Particles (> 0.22 µm)	< 1/mL
Microorganisms	< 1 cfu/mL
Pyrogen (F and VF)	< 0.001 EU/mL
RNase / DNase (F and VF)	< 1 pg/mL / < 5 pg/mL
Power	220 V, 50 Hz, 120 W; 24 V DC main supply

DIMENSIONS & WEIGHT

Dimensions (W x D x H)	470 x 450 x 550 mm
Package Dimensions (W x D x H)	640 x 550 x 700 mm
Gross Weight	37 kg

TYPICAL LAB WATER ISSUES IT IS DESIGNED TO SOLVE

Water quality drifts unnoticed	Three-point water quality sensing and live display show changes at once.
Forgotten filter changes	Filter life counters and automatic reminders prompt replacement in time.
Pyrogen or nuclease contamination	F and VF models include ultrafiltration to remove pyrogen, RNase and DNase.
Electrical risk near water	The main system runs on low-voltage 24 V DC.

Applications

The Touch Screen Ultrapure Water Purifier supplies water for: Physical and chemical tests, biochemical analysis and blood tests HPLC, IC and GC ICP-MS, AAS/AES and ppt-level trace analysis PCR, molecular biology and life science research TOC detection and environmental monitoring Drug testing, quality inspection and university laboratories

Purification Stages

- Washable 10 µm 316 stainless steel pre-filter with silicone scraper
- KDF filter for residual chlorine and heavy metals
- PP filter for particles larger than 5 µm
- Granular activated carbon filter for colour, odour and chlorine
- Reverse osmosis membrane
- UV germicidal lamp to lower TOC (V and VF series)
- Ultra-purification ion exchange column
- Ultrafiltration membrane for pyrogen, RNase and DNase (F and VF series)
- 0.2 µm terminal filter

Control and Monitoring

- Colour touch screen interface
- Water quality sensors for feed, RO and ultrapure water
- Built-in feed pressure gauge to watch tap pressure and filter blockage
- Filter life tracking with replacement reminders
- Timed and fixed-volume water dispensing
- USB data export of alarms and water intake history

Design

- ABS engineering plastic housing with powder-coated finish
- Quick-insert filter cartridges
- Built-in pressure tank with replaceable antibacterial inner bag
- 24 V DC low-voltage main supply for humid environments
- Optional internal circulation system

Standard Accessories Included

- Main unit with one set of filters
- Built-in 8 L pressure tank
- Terminal (end point) filter
- Accessory package

Optional Accessories

- Internal circulation system