# Ultra-pure Water Purifier - 18.2 MΩ·cm Lab Water System - 20, 40 or 60 L/h

Model **MSLWP-S2-20SWISS, MSLWP-S2-20VSWISS, MSLWP-S2-20FSWISS, MSLWP-S2-20VFSWISS, MSLWP-S2-40SWISS, MSLWP-S2-40VSWISS, MSLWP-S2-40FSWISS, MSLWP-S2-40VFSWISS, MSLWP-S2-60SWISS, MSLWP-S2-60VSWISS, MSLWP-S2-60FSWISS, MSLWP-S2-60VFSWISS** | Brand **Master Science**





The Master Science Ultra-pure Water Purifier makes 18.2 MΩ·cm ultra-pure water and primary RO water at the same time from tap water. A single-pass RO stage with high ion rejection feeds a large-capacity DI ion-exchange unit, all controlled automatically and shown on an LCD.

KEY HIGHLIGHTS

- Two water grades together
- Choose the right purity
- Large DI capacity
- Automatic control
- Compact

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

support@themsci.com
www.themsci.com

Scan to view online

## Overview

Three output rates (20, 40 and 60 L/h) are each offered in four versions: Standard, V for low TOC (2 ppb), F for endotoxin and nuclease removal, and VF combining both.

> For a unit with UV and ultrafiltration as standard, see the Master Science ultrapure water system.

## Key Benefits

**Two water grades together**
the Master Science Ultra-pure Water Purifier gives Type I and RO water.

**Choose the right purity**
four versions for general, trace organic and bioscience work.

**Large DI capacity**
fewer cartridge changes.

**Automatic control**
LCD with system status.



**MASTER SCIENCE** · Dinkelbergstrasse 14, 4127 Birsfelden, Switzerland
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**Compact**
built-in tank in a 273 mm wide body.

## Technical Specifications

### GENERAL

| | |
|---|---|
| Brand | Master Science |
| Model Number | MSLWP-S2-20SWISS, MSLWP-S2-20VSWISS, MSLWP-S2-20FSWISS, MSLWP-S2-20VFSWISS, MSLWP-S2-40SWISS, MSLWP-S2-40VSWISS, MSLWP-S2-40FSWISS, MSLWP-S2-40VFSWISS, MSLWP-S2-60SWISS, MSLWP-S2-60VSWISS, MSLWP-S2-60FSWISS, MSLWP-S2-60VFSWISS |
| SKU | MSLWP-S2-20SWISS, MSLWP-S2-20VSWISS, MSLWP-S2-20FSWISS, MSLWP-S2-20VFSWISS, MSLWP-S2-40SWISS, MSLWP-S2-40VSWISS, MSLWP-S2-40FSWISS, MSLWP-S2-40VFSWISS, MSLWP-S2-60SWISS, MSLWP-S2-60VSWISS, MSLWP-S2-60FSWISS, MSLWP-S2-60VFSWISS |
| Brand | Master Science |
| Model Numbers | MSLWP-S2-20SWISS, MSLWP-S2-20VSWISS, MSLWP-S2-20FSWISS, MSLWP-S2-20VFSWISS, MSLWP-S2-40SWISS, MSLWP-S2-40VSWISS, MSLWP-S2-40FSWISS, MSLWP-S2-40VFSWISS, MSLWP-S2-60SWISS, MSLWP-S2-60VSWISS, MSLWP-S2-60FSWISS, MSLWP-S2-60VFSWISS |
| SKU | MSLWP-S2-20SWISS, MSLWP-S2-20VSWISS, MSLWP-S2-20FSWISS, MSLWP-S2-20VFSWISS, MSLWP-S2-40SWISS, MSLWP-S2-40VSWISS, MSLWP-S2-40FSWISS, MSLWP-S2-40VFSWISS, MSLWP-S2-60SWISS, MSLWP-S2-60VSWISS, MSLWP-S2-60FSWISS, MSLWP-S2-60VFSWISS |
| Production Rate | 20, 40 or 60 L/h |
| Dispense Rate | Up to 2 L/min |
| Built-in Tank | 1.8 L pressure tank |
| Resistivity | 18.2 MΩ·cm at 25 °C |
| Conductivity | 0.055 µS/cm |
| TOC | 5 ppb (Standard, F); 2 ppb (V, VF) |
| Particles | < 1 /mL (> 0.2 µm) |
| Bacteria | < 0.01 CFU/mL |
| Endotoxin (F, VF) | < 0.001 EU/mL |
| RNase / DNase / Protease (F, VF) | 1 pg/mL / 5 pg/mL / 0.15 µg/mL |
| RO Water | Ion rejection 98 to 99 %, organics > 99 % (MW > 300 Da), particles and bacteria > 99 % |
| Feed Water | Tap water, 1 to 6 bar, 5 to 40 °C, conductivity < 2000 µS/cm, hardness < 300 ppm, free chlorine < 3 ppm, pH 4 to 10 |

### POWER

| | |
|---|---|
| Power Supply | 100 to 240 V, 50/60 Hz |
| Power | 48 W (20), 72 W (40), 120 W (60) |

### DIMENSIONS & WEIGHT

| | |
|---|---|
| Dimensions (L × W × H) | 273 × 555 × 568 mm |
| Weight | About 21 kg |

## COMMON LABORATORY PROBLEMS AND HOW THIS PURIFIER HELPS

| Common Laboratory Problems and How This Purifier Helps | How the Master Science Ultra-pure Water Purifier supports sensitive analysis: |
|---|---|
| Contamination peaks in trace analysis | 18.2 MΩ·cm water with TOC down to 2 ppb. |
| Endotoxin and nucleases in bioscience work | F and VF versions remove them. |
| Separate systems for RO and ultra-pure water | one unit supplies both. |
| Low tap pressure | optional pre-boost device. |

## Applications

Typical uses of the Master Science Ultra-pure Water Purifier:

**Standard**
chemical tests, biochemical analysis, blood tests, HPLC, IC and GC

**V (low TOC)**
AAS, emission spectroscopy, mass spectrometry and TOC analysis

F: high-sensitivity ICP-MS, PCR, ppt-level and isotope analysis

VF: molecular biology, cell culture, protein purification and drug development

Disease control, quality inspection and university laboratories

## Purification

- Single-pass RO stage
- Large DI ion-exchange unit
- Low TOC and ultrafiltration versions

## Operation

- Automatic control
- LCD display
- Up to 2 L/min dispensing

## Design

- Built-in 1.8 L pressure tank
- Embedded purification column
- Tap water feed

## Optional Accessories

- Level-controlled pure water tank
- Pre-boost pump device

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