



**Radio Frequency Identification
Water Purification System**
(Double Pass Models)

Radio Frequency Identification Water Purification System

Radio Frequency Identification Water Purification System LRFW-B1 series is a 30 L / 80 L capacited revolutionary, modular design which helps in elimination of large amount of salts and other minerals from water using 2 stages of RO with the least TOC level i.e. < 3 ppb. Here the concentrate or reject stream is fed into a second RO system to maximize water recovery. The unique feature of this model is that it's equipped with a RFID Radio Frequency Identification Chip which helps keeping a check on the quality of water in real time. It's designed to deliver compliant purified water with clear quality parameters and care free maintenance

Features

- ◆ Radio Frequency Identification Chip integrated
- ◆ Advanced Double Pass reverse osmosis system for excellent water quality
- ◆ 2 levels of water purification with high recovery rate
- ◆ Online monitoring of water resistance
- ◆ Equipped with 30 L / 80 L water holding tank
- ◆ Least TOC level < 3ppb
- ◆ Source of inlet water – Tap water
- ◆ Benchtop / Floor Standing
- ◆ LCD display to monitor the intake of water pressure and various parameters intuitively
- ◆ Programmed water shortage protection alarm
- ◆ Anti-fouling RO membrane prevention programme
- ◆ Ease of cleansing , disinfecting and draining waste water
- ◆ Micro filter membrane to filter out pollutants
- ◆ Automatic RO membrane antiscaling flushing to extend the life of the RO membrane

Applications

Used in PCR / DNA preparation, HPLC, LC-MS, electrophoresis, chemical analysis experiment, protein analysis

Radio Frequency Identification Water Purification System

Specifications

Model No	LRFW-B10	LRFW-B11	LRFW-B12
Output of Pure water	≥ 10 L / hr.	≥ 20 L / hr.	≥ 30 L / hr.
Process	Double Pass RO system	Double Pass RO system	Double Pass RO system
Configuration	Benchtop	Benchtop	Benchtop
Water Tank capacity	30 L	30 L	30 L
Output of Ultrapure water	≥ 1- 1.5 L / min	≥ 1- 1.5 L / min	≥ 1- 1.5 L / min
Resistivity at 25°C	18.25 M Ω. cm	18.25 M Ω. cm	18.25 M Ω. cm
Conductivity at 25°C	≤ 5 μs / cm	≤ 5 μs / cm	≤ 5 μs / cm
TOC	< 3 ppb	< 3 ppb	< 3 ppb
Pyrogens / Endotoxins	< 0.025 EU / ml	< 0.025 EU / ml	< 0.025 EU / ml
Bacteria	< 1 cfu / ml	< 1 cfu / ml	< 1 cfu / ml
Particles (> 0.22 μm)	< 1 / ml	< 1 / ml	< 1 / ml
Absorbance (254 nm)	≤ 0.001	≤ 0.001	≤ 0.001
Reactive Silica (SiO ₂)	< 0.01 ppm	< 0.01 ppm	< 0.01 ppm
Heavy metal	< 0.01 ppm	< 0.01 ppm	< 0.01 ppm
Electrical requirements	220 V / 50 Hz	220 V / 50 Hz	220 V / 50 Hz
Power	≥ 150 W	≥ 200 W	≥ 450 W
Dimensions (L x W xH)	340 x 550 x 530 mm	340 x 550 x 530 mm	340 x 550 x 530 mm
Weight	45 kg	45 kg	45 kg

Radio Frequency Identification Water Purification System

Specifications

Model No	LRFW-B13	LRFW-B14
Output of Pure water	≥ 40 L / hr.	≥ 50 L / hr.
Process	Double Pass RO system	Double Pass RO system
Configuration	Floor standing	Floor Standing
Water Tank capacity	80 L	80 L
Output of Ultrapure water	≥ 1- 1.5 L / min	≥ 1- 1.5 L / min
Resistivity at 25°C	18.25 M Ω. cm	18.25 M Ω. cm
Conductivity at 25°C	≤ 5 μs / cm	≤ 5 μs / cm
TOC	< 3 ppb	< 3 ppb
Pyrogens / Endotoxins	< 0.025 EU / ml	< 0.025 EU / ml
Bacteria	< 1 cfu / ml	< 1 cfu / ml
Particles (> 0.22 μm)	< 1 / ml	< 1 / ml
Absorbance (254 nm)	≤ 0.001	≤ 0.001
Reactive Silica (SiO ₂)	< 0.01 ppm	< 0.01 ppm
Heavy metal	< 0.01 ppm	< 0.01 ppm
Electrical requirements	220 V / 50 Hz	220 V / 50 Hz
Power	≥ 450 W	≥ 550 W
Dimensions (L x W x H)	340 x 550 x 530 mm	340 x 550 x 530 mm
Weight	45 kg	45 kg

The logo for Labodam features the word "labodam" in a bold, black, sans-serif font. The letter "a" is replaced by a stylized icon of a laboratory flask containing a green liquid, with three small green dots above it representing bubbles or a chemical reaction.

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Labodam Equipment Ltd

18a Melton Road Leicester LE4 5EA

United Kingdom

www.labodam.com // info@labodam.com