

labodam



# WATER PURIFIER

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## LWPUR - A1 SERIES

## Water Purifier LWPUR-A10

Water Purifier LWPUR-A10 is a system having an output capacity of 15 L/hr and a flow rate of 2 L/min. It provides both RO and ultrapure water for various laboratory needs. Advanced technology, easy installation procedure, water storage in tank (option), etc. are some of the features which ensures good water quality and required output. It finds applications in several laboratory, hospital, industrial operations.

## Water Purifier LWPUR-A11

Water Purifier LWPUR-A11 is a system having an output capacity of 30 L/hr and a flow rate of 2 L/min. It provides both RO and ultrapure water for various laboratory needs. Advanced technology, easy installation procedure, water storage in tank (option), etc. are some of the features which ensures good water quality and required output. It finds applications in several laboratory, hospital, industrial operations.

## Features

- ◆ Supplies Type 1 (ultra-pure) and Type 3 (RO) water
- ◆ Spun fiber and active carbon block cartridge, 100 GPD RO membrane
- ◆ Includes TDS /conductivity pen
- ◆ 4 gallon water tank
- ◆ Auto power on and off according to water outflow and inflow
- ◆ Compact Design

## Applications

It is used to prepare ultra-pure and RO water. RO water is used in general biology experiments, agricultural experiments, ware washing, as an inlet for ultra-pure water etc. while ultrapure water is used in steam generators, injection water in healthcare, micro analysis, etc.

## Flow Protocol

PF (pre-filter) → AC (activated carbon) → RO (reverse osmosis) → DI (deionized water)

## Specifications

Model No	LWPUR-A10	LWPUR-A11
Output (25°C)	15 Litres/hour	30 Litres/hour
Flow rate	Up to 2 litres/minute (with pressure tank)	
Pure water outlet	1 : reverse osmosis water	
<b>RO water quality</b>		
Ion rejection rate	96 to 99 % (with new RO membrane)	
Organics rejection rate	> 99 % (when MW > 200Dalton)	
Particles and bacteria rejection rate	>99%	
Bacteria	< 0.1 cfu/ml (with optional 0.45+0.1µm PES terminal filter)	
Particle( >0.1µm)	< 1/ml (with optional 0.45 + 0.1µm PES terminal filter)	
<b>Pure water quality</b>		
Desalination rate	Nearly 100 %	
TDS	RO water: 5 to 10 ppm	
Resistivity	15-18 MΩ.cm	
Conductivity	0.067 to 0.055 µs/cm	
Pure water outlet	RO water, deionized water	
<b>Purification System</b>		
Pre-treatment unit	Special spun fibre cartridge	
	Special active carbon block cartridge	
	Special active carbon block cartridge	
RO unit	100GPD RO membrane ×1	100GPD RO membrane ×2
Subsequent Unit	Mixed bed resin cartridge ×2	Mixed bed resin cartridge ×3
<b>Working Environment</b>		
Inlet water	Tap water (TDS < 200ppm will be suggested). If inlet water TDS >200 ppm, pre-treatment is recommended. Water with higher TDS will affect the quality of outlet water and life of purification cartridge.	
Feed water requirements	For Tap water ; temperature: 5 to 45°C, pressure: 1.0 to 4.0 Kg/cm <sup>2</sup>	
<b>Other Details</b>		
Control System	Automatic electronic pressure sensor, automatic stop without water, automatic cutting off if pump stop s, RO membrane auto flushing , automatic stop when water tank full, Guarantees 24 hr work	
Standard configuration	Main body (Including 1 set of cartridge) + 4.0 gallon water tank + TDS/conductivity test pen	
Electrical requirements	AC 110 to 240 V, 50/60 Hz	
Power	72 W	
Dimension (L× W × H)	410×220×420 mm	
Weight	about 16 kg	

## Consumables:

Sr. No.	Specification	Quantity/set	Suggested replacement term
1	Special spun fibre cartridge	1	About 2 -6 months
2	Special active carbon block cartridge	2	About 4 -6 months
3	100GPD RO membrane	1	About 12 -24 months

## Water Flow Chart

