

# Easy-N Ultrapure Water System



## ***Introduction***

The Easy-N is a high-performance water purification system designed to produce ASTM Type I and II water for laboratory and research applications. This advanced system combines innovative technology with user-friendly features to deliver consistent, high-quality ultra pure water.

## ***Application***

- ICP-MS (Inductively Coupled Plasma Mass Spectrometry)
- Molecular biology techniques
- Ultra trace analysis
- Electrochemistry
- Electrophoresis
- GFAAS (Graphite Furnace Atomic Absorption Spectrophotometry)
- HPLC
- IC (Ion Chromatography)
- ICP-AES (Inductively Coupled Plasma Atomic Emission Spectrometry)
- Mammalian and bacterial cell culture
- Molecular biology
- Plant tissue culture
- Qualitative analysis

## ***Features***

The Easy-N offers an optimal combination of reliability, efficiency, and user-friendly operation. Its advanced features, compact design, and comprehensive application range make it an ideal choice for modern laboratory environments requiring consistent, high-quality ultrapure water.

### **1. Smart Touch Screen Control System**

- 8.0-inch color touch screen interface
- Real-time monitoring of multiple parameters including tank water level
- Intelligent automated operation
- Consumables life monitoring and alarm system

## 2. Enhanced RO System

- Advanced membrane support technology improves water production and cleaning efficiency
- High-recovery DOW composite membrane with extended service life
- Automatic flush function extends RO membrane life by up to 50%

## 3. Compact Design with Integrated Storage

- Space-efficient vertical design with built-in 100L PE water tank
- Minimal footprint for laboratory space optimization
- Advanced tank design prevents bacterial growth
- Equipped with tank air filter for quality assurance
- Intelligent water level protection system

## 4. Powerful Ion Exchange

- Dual-column purification system with high resin capacity for extended lifetime
- Pressure-resistant design prevents leakage
- Premium resin ensures superior water quality

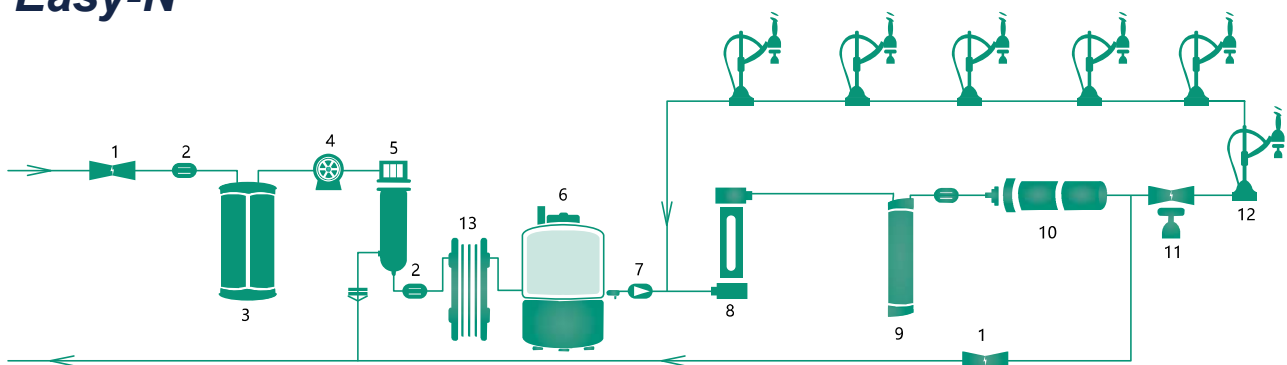
## 5. Enhanced Performance Features

- Robust pretreatment column
- Advanced reverse osmosis system
- High-precision resistivity monitoring
- Modular design for convenient maintenance

## 6. Flexible Water Dispensing

- Five dispensing points with automatic ultrapure water recirculation
- 6-position height adjustment (290-540mm) with 360° rotating dispenser

## Easy-N



1 Solenoid Valve

6 Internal Water Tank (100L)

11 Point-Of-Use Filter

2 Conductivity Sensor

7 Ball Valve

12 Remote Water Dispenser

3 Pre-treatment Module

8 UV lamp

13 EDI

4 Boost Pump

9 Ultra-Purification Module

5 RO Module

10 Ultra-Filtration Cartridge

# Remote Dispenser Solutions

The advanced remote dispenser designed for maximum flexibility and convenience in laboratory environments. Combined with our pure water systems, it creates a comprehensive water purification solution tailored to your laboratory needs.

## AT A GLANCE

### Overview:

- Flexible dispensing options
- Ergonomic design
- 25cm action radius

### Key Features:

- Adjustable height and direction for optimal positioning
- Removable dispensing handset for extended reach
- Automated volume dispensing (100ml - 60L)
- Optional foot pedal operation

### Ideal Applications:

- Analytical procedures
- Life science research
- Clinical laboratory testing
- Clean room operations

### Precision Control

- Variable flow rate control
- Programmable volume dispensing
- Repeat dispensing capability

### Quality Assurance

- Full recirculation system
- Maintained water purity
- Clean room compatible

### Flexible Integration

- Compatible with pure water systems
- Adaptable to various lab setups
- Extended reach capability

### Enhanced Efficiency

- Hands-free operation option
- Simple maintenance
- Consistent performance

### Ergonomic Design

- Space-efficient configuration
- Flexible positioning options
- 25cm operational radius

### User-Friendly Operation

- Intuitive controls
- Easy-to-use interface
- Multiple dispensing modes



## Specifications

Model	Easy-N
<b>Feed water requirement</b>	
Source	Tap water
Conductivity*	<2000us/cm
Hardness**	<450ppm as CaCO <sub>3</sub>
Pressure	0.05-0.5MPa(7-72psi)
<b>Pure Water(Class III)</b>	
Ion rejection	>95%
Bacteria rejection	>99%
<b>High Purified Water(Class II)</b>	
Resistivity At 25 °C	10MΩ.cm
TOC	<30ppb
Dissolved Organic	<0.1ppm
Productivity Rate	15L/h
<b>Ultrapurification Water(Class I)</b>	
Resistivity At 25 °C	18.2MΩ.cm
Conductivity At 25 °C	0.055us/cm
TOC Level***	1-5ppb
Endotoxin(Pyrogens)****	<0.001EU/ml
Particulate(≥0.02um)	<1pc/ml
Bacteria***	<0.01CFU/ml
Rnase/Dnase**	<1pg/ml, <5pg/ml
Manual Dispense Flow Rate	1.5-2.0L/min
Remote Water Dispenser	6 pcs
<b>Electrical Requirements</b>	
Electrical Voltage	110V/220V±10%
Electrical Frequency	50HZ/60HZ

\*If feed water quality in poor(Conductivity > 1000us/cm), strengthened pretreatment module and RO-2 type is highly recommended ;

\*\*When hardness of feed water is high(>450ppm as CaCO<sub>3</sub>), 0.5T water soften is recommended ;

\*\*\*Dual wave UV module need to be adopted. Also dependent on feed water, recommended feed TOC<30ppb;

\*\*\*\*Ultra-filtration module need to be adopted. Feed water need to be satisfied as above ;