

# WATER PURIFICATION CATALOGUE



Pol. Industrial El Salt, Av. del Comtat de Fabraquer, Nave 16-D, 03550 Sant Joan d'Alacant, Alicante

[info@scisols.com](mailto:info@scisols.com) | [www.scisols.com](http://www.scisols.com)

# Which system is best for you?

## Our Solution

## Water Quality

## Typical applications

- NE Equipment
- Plus P Equipment
- SM Equipment
- Easy Series Equipment

**ASTM Type I**  
ultrapure water

BOD tests  
 COD tests  
 DNA microarrays  
 Electrochemistry  
 Electrophoresis  
 Enzyme immunoassays  
 GC (Gas chromatography)  
 GFAAS (Graphite Furnace Atomic Absorption Spectrophotometry)  
 HPLC (High Performance Liquid Chromatography)  
 IC (Ion Chromatography)  
 ICPAES (Inductively Coupled Plasma Atomic Emission Spectrometry)  
 ICPMS (Inductively Coupled Plasma Mass Spectrometry)

IHC (Immunohistochemistry)  
 IVF (in vitro fertilization)  
 LC-MS (liquid chromatography mass spectrometry)  
 Kjeldahl analysis  
 MALDI - ToF  
 Mammalian and bacterial cell culture  
 Northern and Southern blotting  
 PCR  
 Plant tissue culture  
 Qualitative analyzes  
 Ultratrace analysis  
 Weather Transfer  
 Enzyme immunoassays  
 DNA microarrays

- Plus E Equipment

**ASTM Type II**  
high ultrapure water

AS (atomic absorption spectrophotometry)  
 Preparation of buffers and media  
 electrophysiology  
 FAAS (flame atomic absorption spectrophotometry)  
 Feed to ultrapure water systems  
 General chemistry  
 Histology  
 Hydrogen generators  
 Microbiological analysis  
 pH measurement

Pharmaceutical (according to US and European Pharmacopeias)  
 RIA / ELISA  
 Sample Dilution and Reagent preparation  
 Spectrophotometry  
 Stability chambers  
 Surface tension experiments  
 Water analysis  
 Weatherometers

- ROB / ROE Equipment

**CAP/CLSI Type I**  
high ultrapure water

Automated clinical analyzers (Biochemistry, Immunochemistry and Immunology)

## EQUIPMENT NE

The NE system is a water purification system that integrates electrodeionization technology to produce ultrapure water. EDI technology provides benefits including low power consumption, lower maintenance cost, better ion exchange, and no particulate or organic contamination.



### TYPICAL SCIENTIFIC APPLICATIONS

- IPC-MS (Inductively Coupled Plasma Mass Spectrometry)
- Molecular biology techniques
- Ultratrace analysis
- Electrochemistry
- Electrophoresis
- GFAAS (Graphite Furnace Atomic Absorption Spectrophotometry)
- HPLC
- IC (ion chromatography)
- ICP-AES (Inductively Coupled Plasma Atomic Emission Spectrometry)
- Bacterial and mammalian cell culture
- Molecular biology
- plant tissue culture
- Qualitative analysis

### Configuration

	NE
Pretreatment module	0
High pressure pump	0
Inverse osmosis	0
Dual Wavelength UV Lamp	0
Ultrapurification cartridge	0
Ultrafiltration cartridge	0
EDI module	0
Point of use filter	0
30L storage tank	0
Air filter net for tank	0
UV Lamp Sterilizer for Water Tank	0
Remote water dispenser with color screen	0
TOC monitoring module	/

### WHAT BENEFITS CAN YOU GET?

High efficiency constant removal of charged organic ions and small MW (Resistivity > 10 MΩ - cm)

No exchange of used resins

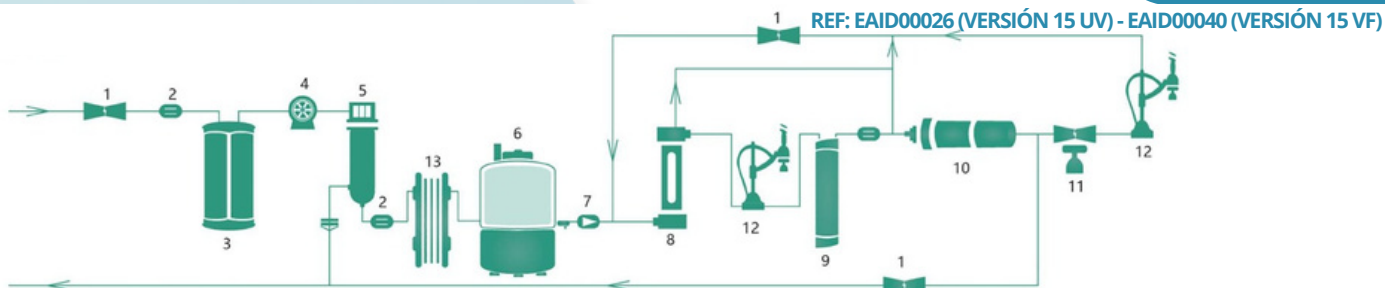
No regeneration chemicals

Low energy consumption

Typical < 10 watt bulb

Low operation and low maintenance





- 1 Solenoid valve
- 2 Conductivity sensor
- 3 Pretreatment module
- 4 Delivery pump
- 5 Reverse osmosis module
- 6 Water tank
- 7 Ball valve
- 8 Dual Wave UV Cartridge
- 9 Ultrapurification module
- 10 Ultrafiltration cartridge
- 11 Point of use filter
- 12 Remote water dispenser
- 13 EDI module

Model	NE System
<b>Feed water requirement</b>	
Font	Tap water
Conductivity*	<2000us/cm
Hardness**	<450ppm as CaCO3
Pressure	0.05~0.5MPa(7-72psi)
Temperature	5-40C
<b>Purification water (Type III)</b>	
ion rejection	>95%
bacteria rejection	>99%
Conductivity	1~20us/cm
productivity rate	30L/h
<b>High quality purification water (Type II)</b>	
Resistivity at 25C	10MΩ.cm
TOC level	<30ppm
Organic Dissolution	<0.1ppm
Productivity rate	15L/h
<b>Ultrapurification Water (Type I)</b>	
Resistivity at 25C	18.2MΩ.cm
Conductivity at 25C	0.055us/cm
OCD level***	1~5ppb
Endotoxin (pyrogens)****	<0.001EU/ml
Particles (>0.02um)	<1pc/ml
Bacteria***	<0.1 cfu/mL
Rnase / Dnase **	Free
Manual Dosing Flow Rate	1.5~2.0L/min
Automatic dispensing volume	100~60000ml
<b>Electrical Requirements</b>	
Electric tension	110V/220V±10%
Electrical frequency	50Hz/60Hz
<b>Packaging information</b>	
Net weight	
Main units	35kg
Water tank (30L)	7kg
<i>External dimensions (W x D x H)</i>	
main units	315x525x570mm
Water tank (30L)	380x380x595mm
Shipping weight	
Main units	37kg
Water tank (30L)	15kg
<i>Shipping Dimensions (W x D x H)</i>	
Main units	525x610x770mm
Water tank (30L)	520x440x615mm

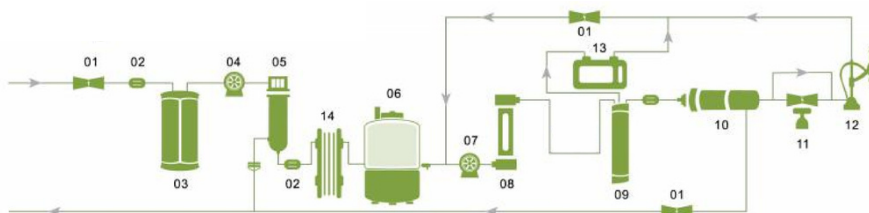
**IMPORTANT INFORMATION**

\*If the quality of the feed water is poor (conductivity > 1000us/cm), a reinforced pretreatment module and an RO-2 type are recommended  
 \*\*When feed water hardness is high (>450ppm as CaCO3), 0.5T water softening is recommended.  
 \*\*\*It is necessary to adopt a dual wave UV module. It also depends on the need for water, recommended TOC <30ppb.  
 \*\*\*\*It is necessary to adopt an ultrafiltration module. Feed water should be satisfied as above.



## EQUIPMENT PLUS-P

This Plus-P Water Purifier is a new generation ultrapure water system, which can produce pure water and ultrapure water by using tap water as feed or directly produce ultrapure water by using RO water and distilled water as feed.



- 1 Electromagnetic valves
- 2 Conductivity sensor
- 3 Column pretreatment
- 4 Booster pump
- 5 RO membrane

- 6 Multifunctional tank
- 7 Water feed pump
- 8 UV lamp
- 9 Column ultrapure
- 10 Column ultrafiltration

- 11 Terminal filter
- 12 Movable dispenser
- 13 Online OCD Monitor
- 14 EDI module

Model	EAID00041
<b>Feed water requirement</b>	
Inlet water quality	Pure water
Pressure	0.1~0.8 MPa
Temperature	5-40 °C
<b>Ultrapure Water Indicator</b>	
Resistivity	18 MΩ.cm
Conductivity	<0.1 unit / ml
Particle number (>0.22ul)	<0.1 cfu / ml
OCD	< 5 ppb
Endotoxins	<0.001 EU / ml
<b>Other parameters</b>	
Size	314 x 525 x 570 mm

### Display

7-inch colorful control screen, easy to operate, can display multiple parameters, including water tank liquid level conductivity/resistivity, temperature, time, etc.

### EDI module

Self-developed and produced EDI module, stable preparation of high-purity water, no need to replace resin frequently, and reduced maintenance costs in the later period.

### Pretreatment column design

Disposable integrated design pretreatment column, double column filling, one-time hot pressing, no glue, no leakage, long service life.

Large ion exchange capacity, with this improvement of ion exchange efficiency can optimize the processing capacity of the purification column.

### Resistivity sensor

High-precision multi-channel sensor with constant resistivity of 0.01 with temperature compensation and regular calibration.

### Inverse osmosis

The reverse osmosis system adopts flow limiting design to effectively protect the reverse osmosis membrane.

### Multi-function design

It has the functions of linking with the water outlet to record the use time of the ultraviolet lamp, taking ultrapure water and pure water qualitatively and quantitatively, and alarming the replacement of consumables.

### Supplies management function

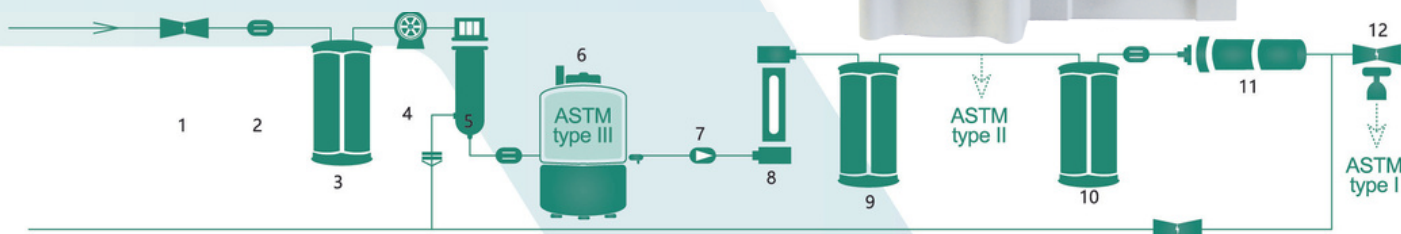
The consumables come with RFID radio frequency identification signal, with consumables management function.

## EASY EQUIPMENT



The EASY model is an all-in-one system to produce Type I, II and III pure water.

This model is specially designed for users whose pure water applications are wide but also involve a cost-effective aspect.



- 1 Solenoid valve
- 2 Conductivity sensor
- 3 Pretreatment module
- 4 Impulsion pump
- 5 Internal Osmosis Module
- 6 Water tank
- 7 Ball valve
- 8 Single Wave UV Cartridge
- 9 Purification module
- 10 Ultra-Purification Module
- 11 Microfiltration cartridge
- 12 Point of use filter

Model	EAID00027
Type	Easy-15 / Easy -30
<b>Feed water requirement</b>	
Font	Tap Water
Conductivity*	<400us/cm
Hardness**	<450ppm as CaCO3
Pressure	0.1~0.5MPa(14-72psi)
Temperature	5-40C
<b>Purification water (Type III)</b>	
Ion rejection	>95%
Bacteria rejection	>99%
Conductivity	20us/cm
Productivity rate	15L/h 30L/h
<b>High quality purification water (Type II)</b>	
Resistivity at 25C	10MΩ.cm
TOC level	<30ppm
Organic Dissolution	<0.1ppm
<b>Ultrapurification Water (Type I)</b>	
Resistivity at 25C	17~18.2MΩ.cm
flow rate	1~1.5L/min
TOC level (optional with UV)	<30ppb
Particles (>0.02um)	<1pc/ml
Bacteria	<1cfu/ml
<b>Electrical Requirements</b>	
Electric tension	110V/220V±10%
Electrical frequency	50Hz/60Hz
<b>Packaging information</b>	
Net weight	
Main units	38kg
Water tank (-/20L)	N/A
<i>External dimensions (W x D x H)</i>	
Main units	390x540x500mm
Water tank (30L)	NA
Shipping weight	
Main units	51kg
Water tank (-/20L)	N/A
<i>Shipping Dimensions (W x D x H)</i>	
Main units	515x660x750mm
Water tank (-/20L)	N/A

**IMPORTANT INFORMATION**

\*If the quality of the feed water is poor (conductivity >1000us/cm), the reinforced pretreatment module of class III and type RO-2 is recommended.  
 \*\*When feed water hardness is high (>450ppm as CaCO3), a 0.5T water softening tank is recommended.

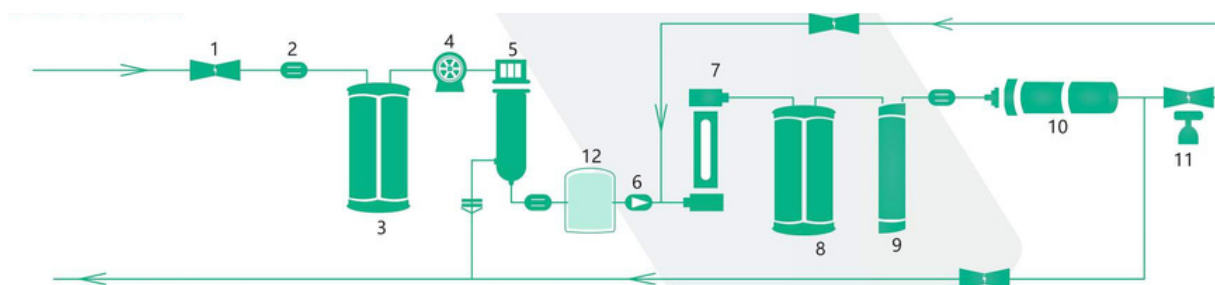
## SM WATER PURIFIER EQUIPMENT

### Ultra pure water instantly!

Many labs need ultrapure water every day, for HPLC or other instrumental analyses, but only in small volumes.

However, this is no reason to do without freshly prepared professional ultrapure water and buy expensive HPLC water.

If we draw small volumes from a HPLC water container several times a day, the water quality and TOC value may no longer meet the required specifications. Ultrapure water is no longer ultrapure!



- 1 Selenoid valve
- 2 Conductivity sensor
- 3 Pre-treatment module
- 4 Discharge pump
- 5 Internal Osmosis Module
- 6 Pump Valve

- 7 Dual wave UV cartridge
- 8 Purification module
- 9 Ultra-purification module
- 10 Micro/ultra filtration cartridge
- 11 Point of use filter
- 12 Internal water tank (6l.)

### Configuration

SM system	UV/UF
Pretreatment module	O / O
High pressure pump	O / O
Inverse osmosis	O / O
Dual Wavelength UV Lamp	O / O
Ultrapurification cartridge	O / O
Microfiltration cartridge	O / -
Ultrafiltration cartridge	- / O
Point of use filter	O / O
Internal water tank	O / O

Model	EAID00016
<b>Feed water requirement</b>	
Font	Water Tap
Conductivity*	<400us/cm
Hardness**	<450ppm as CaCO3
Pressure	0.1-0.5MPa(14-72psi)
Temperature	5-40C
<b>Purification water (Type III)</b>	
ion rejection	>95%
bacteria rejection	>99%
Conductivity	<20us/cm
productivity rate	15L/h
<b>Ultrapurification water (Type I)</b>	
Resistivity at 25C	18.2MΩ.cm
Conductivity at 25 C	0.055us/cm
TOC level	1~5ppb
Endotoxin (pyrogens)	N/A
Particles (E0.02um)	<1 pc/ml
Bacteria***	<1 cfu/ml
Rnase / Dnase**	N/A

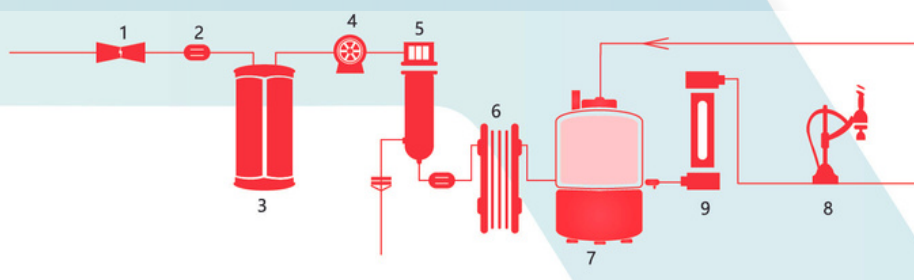
<b>Ultrapurification Water (Type I)</b>	
Manual Dosing Flow Rate	1.2~1.5L/min
Automatic dispensing volume	100~60000ml
<b>Electrical requirements</b>	
Electrical voltage	110V/220V±10%
Electrical frequency	50HZ/60HZ
<b>Packaging information</b>	
Net weight	
Main units	32kg
Water tank	N/A
<b>External dimensions (W x D x H)</b>	
Main units	315x525x570mm
Water tank	N/A
Shipping weight	
Main units	45kg
Water tank	N/A
<b>Shipping Dimensions (W x D x H)</b>	
Main units	525x610x770mm
Water tank	N/A

**IMPORTANT INFORMATION**

\*If the quality of the feed water is poor (conductivity > 1000 us/cm), a reinforced pretreatment module and type RO-2 is strongly recommended.

\*\*When feed water hardness is high (>450ppm as CaCO3), a 0.5T water softener is recommended.

\*\*\*It is necessary to adopt a dual wave UV module. Also dependent on feed water, recommended feed TOC <300 ppb



## PLUS E EQUIPMENT

Provides complementary water purification techniques, including state-of-the-art electrodeionization technology, ensuring the supply of pure Type II water of consistent and reliable quality.

- 1 Solenoid valve
- 2 Conductivity sensor
- 3 Pretreatment module
- 4 Imulsion pump
- 5 Internal Osmosis Module
- 6 Edit Module
- 7 Water tank
- 8 Remote water dispenser
- 9 Ultraviolet lamp

Model	EAID00028
Type	
<b>Feed water requirement</b>	
Font	Water Tap
Conductivity*	<400us/cm
Hardness**	<450ppm as CaCO3
Pressure	0.1-0.5MPa(14-72psi)
Temperature	5-40C
<b>Purification water (Type III)</b>	
Ion rejection	
Bacteria rejection	<20us/cm
Conductivity	30L/h
Productivity rate	
<b>High quality purification water (Type II)</b>	
Resistivity at 25C	10MΩ.cm
TOC level	<30ppm
Organic Dissolution	<0.1ppm
Productivity rate	15L/h
Electrical requirements	
Electric tension	110V/220V±10%
Electrical frequency	50Hz/60Hz
<b>Packaging information</b>	
Net weight	
Main units	32kg
Water tank (30L)	7kg
<i>External dimensions (W x D x H)</i>	
Main units	315x525x570mm
Water tank (30L)	380x380x595mm
Shipping weight	
Main units	45kg
Water tank (30L)	15kg
<i>Shipping Dimensions (W x D x H)</i>	
Main units	525x610x770mm
Water tank (30L)	520x440x615mm

**IMPORTANT INFORMATION**

\*If the quality of the feed water is poor (conductivity >1000us/cm)  
 Class 3 reinforced pretreatment module and type RO-2 are strongly recommended  
 \*\*When feed water hardness is high (>450ppm as CaCO3), a 0.5T water softening tank is recommended





## DESIGNED FOR CLINICAL ANALYZERS

The ROB and Pureforce ROE systems are designed to provide water to clinical analyzers for the clinical laboratory reagent water standard. Our product range offers consistent water quality feeding a single clinical analyzer, large automated analyzers and multiple analyzers in a distribution loop.

To help you choose the most suitable system for your clinical analyzer requirements, we have developed the following reference table. Our team works alongside project managers, installation engineers, facility managers, and clinical scientists to provide help and expertise at every stage.

Modelo	Water quality (MΩ - cm)	Water quality (CFU/ml)	Maximum water rate (liters/hr)	Maximum Flow (liters/hr)	Maximum power loop length (m)
EAID00017	>10	<1	15,30	120~150	/
EAID00030	>10	<1	50,100	120~180	20~30
EAID00029	>10	<1	70,100	120~180(500~800*)	50

## ROB / ROE

The ROB system can produce CAP/CLSI Type I reagent water for the clinical analyzer. Allows direct connection and online operation.

Independent manual control water outlet can be used for additional applications.

### Maximum Compatibility

ROB water purification systems can be used to prepare pure water solution for a series of biochemical analyzers, including TOSHIBA, OLYMPUS, HIATCHI, ROCHE, MINDRAY, etc.

In addition, our specialists are always available to answer any questions, as well as to provide you with friendly and expert advice on choosing the most suitable water purification systems.



## Special emphasis on bacterial containment

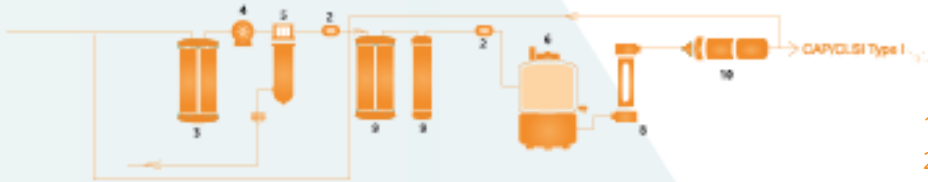
Recirculation always ensures a desirable pure water quality. UV, microfiltration technology and easy disinfection ensure optimum bacterial purity of less than 1 CFU/mL.

## Bypass Function

An emergency bypass prevents downtime by providing an uninterrupted supply of pure water to the analyzer at all times. We understand that downtime in the clinical laboratory cannot be afforded.



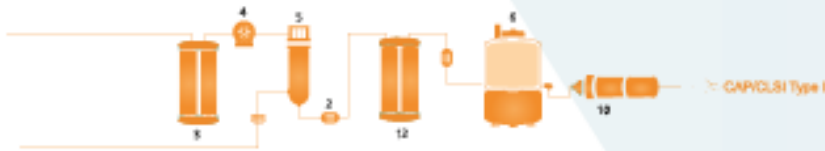
### ROB



### SMART ROE



### ROB-B



- 1 Solenoid valve
- 2 Conductivity sensor
- 3 Pretreatment module
- 4 Impulsion pump
- 5 Reverse osmosis module
- 6 Water tank
- 7 Ball valve
- 8 Dual Wave UV Cartridge
- 9 Purification module
- 10 Micro-filtration cartridge
- 11 EDI module
- 12 13L purification resin tank

Model	Smart ROB	Smart ROE	ROB-B
Type	Smart ROB 15/30	Smart ROE 70/100	Smart ROB 15/30
Productivity ratio	15L/h, 30L/h	70L/h, 100L/h, 150L/h	50L/h, 100L/h, 200L/h
<b>Feed water requirement</b>			
Font	Agua de grifo	Agua de grifo	Agua de grifo
Conductivity*	<2000us/cm	<400us/cm	<2000us/cm
Hardness**	<450ppm as CaCO3	<450ppm as CaCO3	<450ppm as CaCO3
Pressure	0.1~0.5MPa(14-72psi)	0.1~0.4MPa(14-58psi)	0.1~0.5MPa(14-72psi)
Temperature	5-40C	5-40C	5-40C
<b>Ultrapurification Water (Type II)</b>			
Resistivity at 25C	≥10MΩ.cm	≥10MΩ.cm	≥10MΩ.cm
TOC level	<30ppb	<30ppb	<30ppb
Dissolved organic	<0.1ppm	<0.1ppm	<0.1ppm
Particles (>0.02um)	<1pc/ml	<1pc/ml	<1pc/ml
Bacteria	<1cfu/ml	<1cfu/ml	<1cfu/ml
Flow rate	1.0~1.5L/min	1.0~1.5L/min	1.5~2.0L/min
<b>electrical requirements</b>			
Electric tension	110V/220V±10%	110V/220V±10%	110V/220V±10%
Electrical frequency	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz
<b>Packaging information</b>			
<b>Net weight</b>			
Main units	25kg	84/90kg	90/94kg
Water tank	5kg	N/A	N/A
<b>External dimensions (W x D x H)</b>			
Main units	315x525x570mm	650x660x1260mm	650x660x1260mm
Water tank	380x380x595mm	N/A	N/A
<b>Shipping weight</b>			
Main units	37kg	106/112kg	112/116kg
Water tank	13kg	N/A	N/A
<b>Shipping Dimensions (W x D x H)</b>			
Main units	525x610x770mm	780x810x1400mm	780x810x1400mm
Water tank	520x440x615mm		510x430x895mm

\*If the quality of the feed water is poor (conductivity > 1000 us/cm), the reinforced pretreatment module class 3 and type RO-2 is strongly recommended.

\*\*When feed water hardness is high (>450ppm as CaCO3), a 0.5T water softening tank is recommended.



**SCI  
sols**

*by Science & Solutions*



Pol. Industrial El Salt, Av. del Comtat de Fabraquer, Nave 16-D, 03550 Sant Joan d'Alacant, Alicante

[info@scisols.com](mailto:info@scisols.com) | [www.scisols.com](http://www.scisols.com)