



Born for clinical analyzers

Smart ROB, PUREFORCE ROE are designed to provide water for clinical analyzers specified to Clinical Laboratory Reagent Water standard (formally Clinical Laboratory Standards Institute Type). Our product range delivers consistent water quality feeding a single clinical analyzer, large automated analyzers and multiple analyzers on a distribution loop.

To help you choose the most suitable system for your clinical analyzer requirements, we have developed the reference table below. Our Heal Force team works together with project managers, installation engineers, facilities managers, and clinical scientists to provide help and expertise at all stages.

Model	Water quality (MΩ.cm)	Water quality (CFU/ml)	Max. water rate (liters/hr)	Max. flow rate (liters/hr)	Max. feed loop length (meter)	Application
Smart ROB 15/30	>10	\	15,30	120~150	\	Single clinical analyzer
Smart ROB 15R/30R	>10	<1	15,30	120~150	\	Single clinical analyzer
Smart ROB 50/100/150	>10	\	50,100,150	120~150 (500~800*)	20~30	High volume single clinical analyzer
Smart ROB 50R/100R/150R	>10	<1	50,100,150	120~150 (500~800*)	20~30	High volume single clinical analyzer
Pureforce ROE 30/70/100	>10	<1	30,70,100	120~180 (500~800*)	50	High volume single clinical analyzer or multiple clinical analyzers
Pureforce ROE 150/300	>10	<1	150,300	800~1300	100	Multiple clinical analyzers

*Upgradable with 350 liters water tank

Smart ROB

ROB system can produce CAP/CLSI Type I reagent water for clinical analyzer. It enables direct connection and operation online. Independent manual control water outlet can be used for additional applications.



Maximum compability

- ROB water purification systems can be applied to prepare pure water solution for a series of biochemical analyzers, including TOSHIBA, OLYMPUS, HITACHI, ROCHE, MINDRAY and so on. Furthermore, our
- technical and application specialists are always available to answer any questions, as well as providing friendly, expert advice on choosing the most suitable water purification systems.

High volume solution

Optional tanks with 25L purification resin can meet heavier water usage, decreasing change frequency of consumables.

Special emphasis on bacterial containment

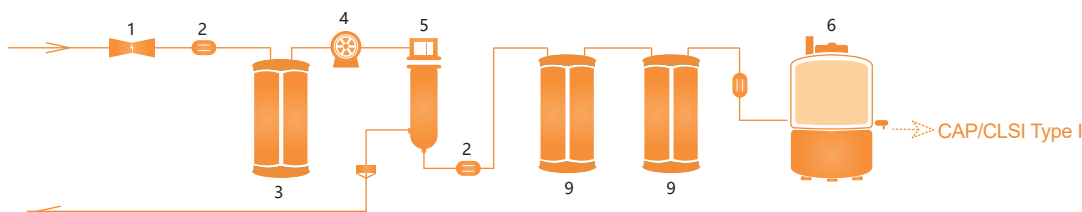
On the basis of ROB, the model ROB-R further upgrades the system. It possesses a re-circulation function to always ensure a desirable pure water quality. UV, Micro-filtration technologies and easy sanitization ensures optimal bacteria purity of less than 1CFU/ml.

Bypass function to save your worry

An emergency bypass prevents downtime by providing an uninterrupted supply of pure water to the analyzer at all time. We understand that downtime can not be allowed in the clinical laboratory.

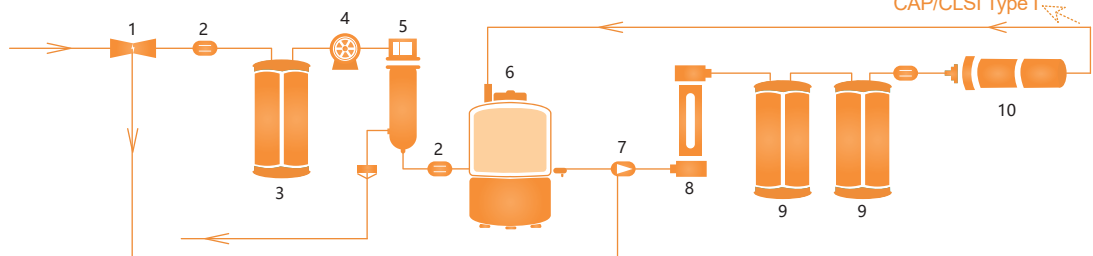


Smart ROB



- 1 Solenoid Valve
- 2 Conductivity Sensor
- 3 Pre-treatment Module
- 4 Boost Pump
- 5 RO Module
- 6 Water Tank

Smart ROB-R



- 7 Ball Valve
- 8 Single Wave UV Cartridge
- 9 Purification Module
- 10 Micro-Filtration Cartridge

Model	Smart ROB/ROB-R (Bench Top)	ROB/ROB-R (Floor Type)
Type	ROB-15/ROB-30/ROB-R15/ROB-R30	ROB-50/ROB-100/ROB-150/ROB-R50/ROB-R100/ROB-R150
Productivity Rate	15L/h,30L/h	50L/h,100L/h,150L/h
Feed Water Requirement		
Source	Tap water	Tap water
Conductivity*	<2000us/cm	<2000us/cm
Hardness**	<450ppm as CaCO3	<450ppm as CaCO3
Pressure	0.1~0.5MPa	0.1~0.5MPa
Temperature	5~40 C	5~40 C
High Quality Purification Water(Class II)		
Resistivity At 25 C	≥10MΩ.cm	≥10MΩ.cm
TOC	-/<30ppb	-/<30ppb
Dissolved Organic	-/<0.1ppm	-/<0.1ppm
Particulate(≥0.02um)	-/<1pc/ml	-/<1pc/ml
Bacteria	-/<1cfu/ml	-/<1cfu/ml
Flow Rate	1.0~1.5L/min	1.5~2.0L/min
Electrical Requirements		
Electrical Voltage	110V/220V±10%	110V/220V±10%
Electrical Frequency	50Hz/60Hz	50Hz/60Hz
Packing Information		
Net Weight		
Main units	25kg	90kg
Water tank	5kg	10kg
External Dimensions(W×D×H)		
Main units	315×525×570mm	500×460×980mm
Water tank	380×380×595mm	380×380×885mm
Shipping weight		
Main units	37kg	112kg
Water tank	13kg	13kg
Shipping Dimensions(W×D×H)		
Main units	525×610×770mm	660×570×1160mm
Water tank	520×440×615mm	510×430×895mm

* If feed water quality is poor(Conductivity > 1000us/cm), 3 class strengthened pretreatment module and RO-2 type is highly recommended

** When hardness of feed water is high(>450ppm as CaCO3), 0.5T water soften tank is recommended