



# LABORATORY LINES

## WATER SYSTEMS



# Kalstein®

A different accompaniment, at your service





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A different accompaniment, at your service

OUR SERVICES

## Benefits and Support

In Kalstein France, we take care of the full satisfaction of our customers, that is why we provide value-added services of the highest level based on our experience.



### Online Inductions and Trainings

In any part of the world, receive your induction or training from our specialized team of engineers



### Quick Response

Our work team is always available to response all your consults or questions, in order to support you in any situation.



### #Letsgivemore ♥

Thanks to your purchase, a donation is made to a non-profit foundation that fights against cancer and helps vulnerable communities.



### Technical Support

Enjoy of personalized advice for the correct preventive and corrective maintenance of your equipment, thanks to Kalstein's manuals and articles, special catalogues and video tutorials.



### Delivery Logistics

We take care of all the necessary logistics for the dispatch of your goods, whether is by sea, land or air.



### Kalstein Worldwide

With more than 25 years growing with our customers, Kalstein's multiformat and modern content, is now present in more than 10 countries and increasing.



## KALSTEIN® Water Systems YR Smart Water System Series YR54

### Introduction

The Smart system is a compact solution that combines the production of pure water and ultrapure water in a single unit — eliminating the need for a pretreatment stage upstream of the ultrapure water system.



### Configuration

	YR54	YR54-2	YR54-1	YR54-3
Pretreatment module	○	○	○	○
High pressure pump	○	○	○	○
Reverse osmosis	○	○	○	○
Dual wavelength UV-lamp	○	○	○	○
Ultra-purification cartridge	○	○	○	○
Microfiltration cartridge	○	\	○	\
Ultrafiltration cartridge	\	○	\	○
Point-of-use filter	○	○	○	○
Storage tank 30L	○	○	○	○
Air filter net for tank	○	○	○	○
Remote water dispenser	○	○	○	○



#### #Let'sgivemore ♥

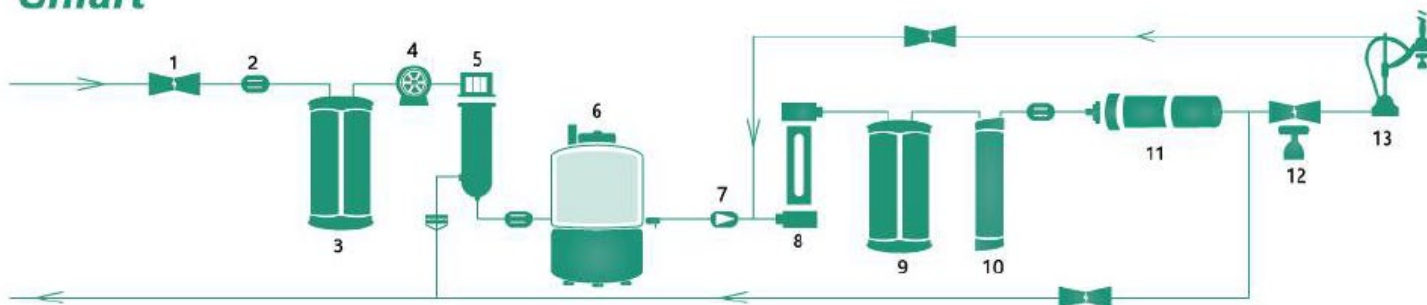
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## Smart



1 Solenoid Valve

2 Conductivity Sensor

3 Pre-treatment Module

4 Boost Pump

5 RO Module

6 Water Tank

7 Ball Valve

8 Dual Wave UV Cartridge

9 Purification Module

10 Ultra-Purification Module

11 Ultra-Filtration Cartridge

12 Point-Of-Use Filter

13 Remote Water Dispenser



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## KALSTEIN® Water Systems

### YR Smart Water System

#### Series YR54

	YR54	YR54-2	YR54-1	YR54-3
<b>Feed Water Requirement</b>				
Source	Tap water	Tap water	Tap water	Tap water
Conductivity*	<2000us/cm	<2000us/cm	<2000us/cm	<2000us/cm
Hardness**	<450ppm as CaCO <sub>3</sub>	<450ppm as CaCO <sub>3</sub>	<450ppm as CaCO <sub>3</sub>	<450ppm as CaCO <sub>3</sub>
Pressure	0.05~0.5MPa(7-72psi)	0.05~0.5MPa(7-72psi)	0.05~0.5MPa(7-72psi)	0.05~0.5MPa(7-72psi)
Temperature	5~40°C	5~40°C	5~40°C	5~40°C
<b>Purification Water(Class III)</b>				
Ionic Rejection	>95%	>95%	>95%	>95%
Bacteria Rejection	>99%	>99%	>99%	>99%
Conductivity	1~20us/cm(RO-2 5us/cm)	1~20us/cm(RO-2 5us/cm)	1~20us/cm(RO-2 5us/cm)	1~20us/cm(RO-2 5us/cm)
Productivity Rate	15L/h	15L/h	30L/h	30L/h
<b>Ultrapurification Water(Class I)</b>				
Resistivity At 25°C	18.2MΩ.cm	18.2MΩ.cm	18.2MΩ.cm	18.2MΩ.cm
Conductivity At 25°C	0.055us/cm	0.055us/cm	0.055us/cm	0.055us/cm
TOC Level***	1~5ppb	1~5ppb	1~5ppb	1~5ppb
Endotoxin(Pyrogens)****	N/A	<0.001EU/ml	N/A	<0.001EU/ml
Particulate(≥0.02um)	<1pc/ml	<1pc/ml	<1pc/ml	<1pc/ml
Bacteria***	<0.1cfu/ml	<0.1cfu/ml	<0.1cfu/ml	<0.1cfu/ml
Rnase / Dnase**	N/A	Free	N/A	Free
Manual dispense flow rate	1.5~2.0L/min	1.5~2.0L/min	1.5~2.0L/min	1.5~2.0L/min
Automatic dispense volume	100~60000ml	100~60000ml	100~60000ml	100~60000ml
<b>Electrical Requirements</b>				
Electrical Voltage	110V/220V±10%	110V/220V±10%	110V/220V±10%	110V/220V±10%
Electrical Frequency	50HZ/60HZ	50HZ/60HZ	50HZ/60HZ	50HZ/60HZ
<b>Packing Information</b>				
<b>Net Weight</b>				
Main units	24kg	24kg	24kg	24kg
Water tank (30L)	7kg	7kg	7kg	7kg
<b>External Dimensions(W×D×H)</b>				
Main units	315×525×570mm	315×525×570mm	315×525×570mm	315×525×570mm
Water tank (30L)	380×380×595mm	380×380×595mm	380×380×595mm	380×380×595mm
<b>Shipping weight</b>				
Main units	37kg	37kg	37kg	37kg
Water tank (30L)	15kg	15kg	15kg	15kg
<b>Shipping Dimensions(W×D×H)</b>				
Main units	525×610×770mm	525×610×770mm	525×610×770mm	525×610×770mm
Water tank (30L)	520×440×615mm	520×440×615mm	520×440×615mm	520×440×615mm

\* If feed water quality is 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 softener 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



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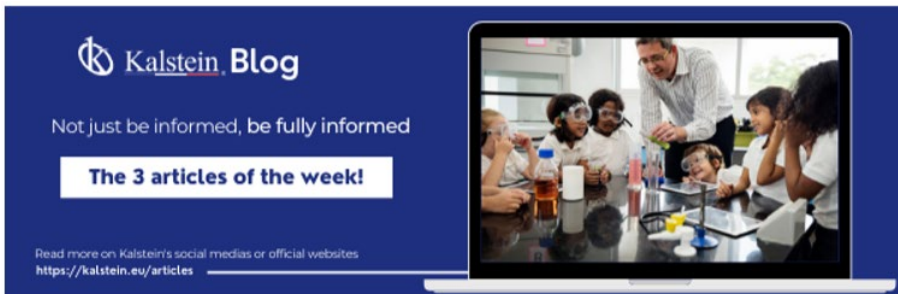
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Not just be informed, be fully informed

**The 3 articles of the week!**

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**1**  
Read this ARTICLE NOW

**How does the climate affect your microscope?**

microscope is an instrument that allows observing and measuring objects that are too small to be seen with the naked eye. This is achieved through a complex system of lenses and mirrors, which form

**Kalstein Blog**

**Article of the week:**  
How does the climate affect your microscope?

Read more on Kalstein's social medias or official websites  
<https://kalstein.eu/articles>



**2**  
Read this ARTICLE NOW

**What is the importance of the laboratory refrigerator?**

refrigerator is a device that is one of the most common pieces of equipment used in laboratories. It is a controlled environment (refrigerated space), various fluids and substances

**Kalstein Blog**

**Article of the week:**  
What is the importance of the laboratory refrigerator?

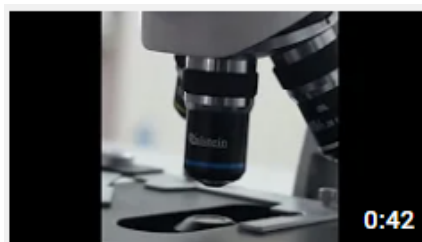
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PARIS - FRANCE  
**HEADQUARTER**  
2 Rue Jean Lantier  
75001 Paris - France

**Tlf:** +33 (0) 01 78 95 87 89  
**Cel:** +33 (0) 6 80 76 07 10  
[sales@kalstein.eu](mailto:sales@kalstein.eu)

<https://kalstein.eu/>  
<https://www.kalstein.fr/>

