



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 Purification System Series YR55-2

The Water Purification System integrated electrodeionization technology to produce ultrapure water. Consistently delivering water purity of 18.2MΩ.cm and underpinned by the advanced technologies. EDI technology brings benefit including low energy consumption, lower maintenance cost, better ion exchange and no particulates or organic contamination.

Typical scientific applications:

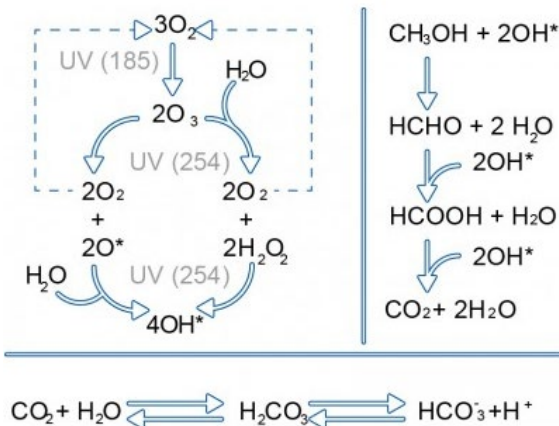
- ✓ ICP-MS(Inductively Coupled Plasma Mass Spectrometry)
- ✓ Molecular biology techniques
- ✓ Ultra trace analysis
- ✓ Electrochemistry
- ✓ Electrophoresis
- ✓ GFAAS(Graphite Furnace Atomic Absorption Spectrophotometry)
- ✓ HPLC
- ✓ IC(Ion Chromatography)
- ✓ ICP-AES(Inductively Coupled Plasma Atomic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



What benefits you can get

- ✓ Constant high efficient removal of ions and small MW charged organic (Resistivity > 10 MΩ-cm)
- ✓ No exchange of spent resins
- ✓ No regeneration chemicals
- ✓ Low energy consumption
- ✓ Typical <10 watt light bulb
- ✓ Low operating cost and low maintenance

Online TOC for prevention of organic breakthrough



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KALSTEIN® Water Purification System

Series YR55-2



| <i>Model</i> | |
|--|----------------------|
| Feed Water Requirement | |
| Source | Tap water |
| Conductivity* | <2000us/cm |
| Hardness** | <450ppm as CaCO3 |
| Pressure | 0.05~0.5MPa(7-72psi) |
| Temperature | 5~40°C |
| Purification Water(Class III) | |
| Ionic Rejection | >95% |
| Bacteria Rejection | >99% |
| Conductivity | 1~20us/cm |
| Productivity Rate | 30L/h |
| High Quality Purification Water(Class II) | |
| Resistivity At 25°C | 10MΩ.cm |
| TOC | <30ppb |
| Dissolved Organic | <0.1ppm |
| Productivity Rate | 15L/h |
| Ultrapurification Water(Class I) | |
| 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*** | <0.1 cfu/ml |
| Rnase / Dnase** | Free |
| Manual dispense flow rate | 1.5~2.0L/min |
| Automatic dispense volume | 100~60000ml |
| Electrical Requirements | |
| Electrical Voltage | 110V/220V±10% |
| Electrical Frequency | 50HZ/60HZ |
| Packing Information | |
| Net Weight | |
| Main units | 35kg |
| Water tank (30L) | 7kg |
| External Dimensions(W×D×H) | |
| Main units | 315×525×570mm |
| Water tank (30L) | 380×380×595mm |
| Shipping weight | |
| Main units | 37kg |
| Water tank (30L) | 15kg |
| Shipping Dimensions(W×D×H) | |
| Main units | 525×610×770mm |
| Water tank (30L) | 520×440×615mm |



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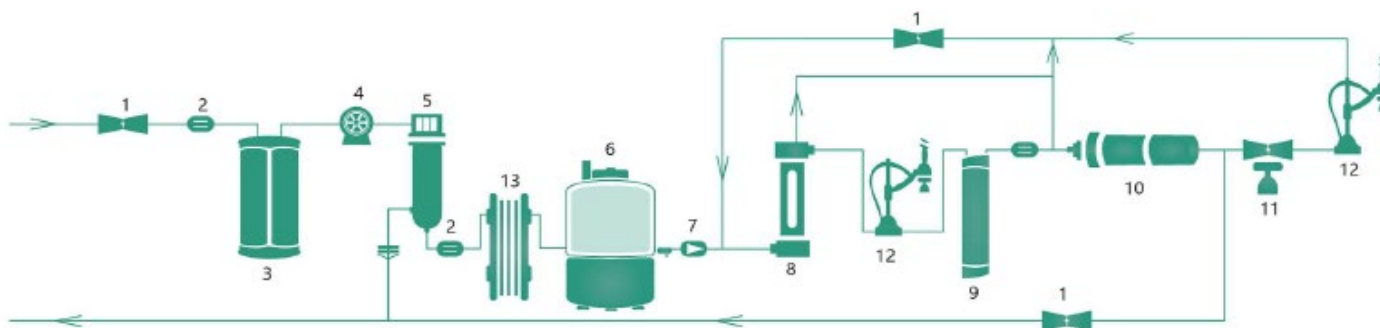


KALSTEIN® Water Purification System Series YR55-2



Configuration

| | |
|---|--------------------------|
| Pretreatment module | <input type="checkbox"/> |
| High pressure pump | <input type="checkbox"/> |
| Reverse osmosis | <input type="checkbox"/> |
| Dual wavelength UV-lamp | <input type="checkbox"/> |
| Ultra-purification cartridge | <input type="checkbox"/> |
| Ultrafiltration cartridge | <input type="checkbox"/> |
| EDI Module | <input type="checkbox"/> |
| Point-of-use filter | <input type="checkbox"/> |
| Storage tank 30L | <input type="checkbox"/> |
| Air filter net for tank | <input type="checkbox"/> |
| UV-lamp sterilizer for water tank | <input type="checkbox"/> |
| Remote water dispenser with color display | <input type="checkbox"/> |
| TOC monitoring module | <input type="checkbox"/> |



- | | | |
|------------------------|-------------------------------|---------------------------|
| 1 Solenoid Valve | 6 Water Tank | 11 Point-Of-Use Filter |
| 2 Conductivity Sensor | 7 Ball Valve | 12 Remote Water Dispenser |
| 3 Pre-treatment Module | 8 Dual Wave UV Cartridge | 13 EDI Module |
| 4 Boost Pump | 9 Ultra-Purification Module | |
| 5 RO Module | 10 Ultra-Filtration Cartridge | |



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KALSTEIN® Water Purification System

Series YR55-2



Parameters per Model:

| Model | YR55-2 | YR55-3 |
|-------------------------|--|--|
| Description | Water Ultra-purification System , UV Type, 15 Litres | Water Ultra-purification System , VF Type, 15 Litres |
| Power Supply | Standard configuration - 220V/50Hz | |
| | Available upon special request - 220V/60Hz & 110V/60Hz | |
| Features | 15L/hr output (pure water) | 15L/hr output (pure water) |
| | 1.5~2L/min output (ultrapure water) | |
| | Inlet water requirement : tap water, >1.0kg/cm ² , 10~40°C | |
| | Output water Resistance : 18.2MΩ.cm | |
| | TOC: 1~10ppb | |
| | N/A | Pyrogens : <0.001EU/ml |
| Standard Configurations | Main unit | |
| | Pre-treatment module (CR-SP101M) | |
| | High pressure pump (CR-SP601-100G-2) | High pressure pump (CR-SP601-100G-2) |
| | RO module (CR-SP202) × 2 | RO module (CR-SP202) × 2 |
| | Dual wavelength UV-lamp 254nm&185nm (CR-SPDWUV -1B) | |
| | EDI Module (CR-SPC15A) | |
| | Ultra-purification cartridge (CR-SP303M) | |
| | Micro-filtration cartridge (CR-SP502B) | Ultrafiltration cartridge (CR-SP505) |
| | Point-of-use filter 0.22µm (CR-SP504B) | |
| | ST-30S water tank 30 litres, including pump and 5-level float sensors (CR-SP408) | |
| | Air filter net for tank (CR-SP412) | |
| | Remote water dispenser (CR-SPRWD-1) | |



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Solidarité et coopération
biomédicale

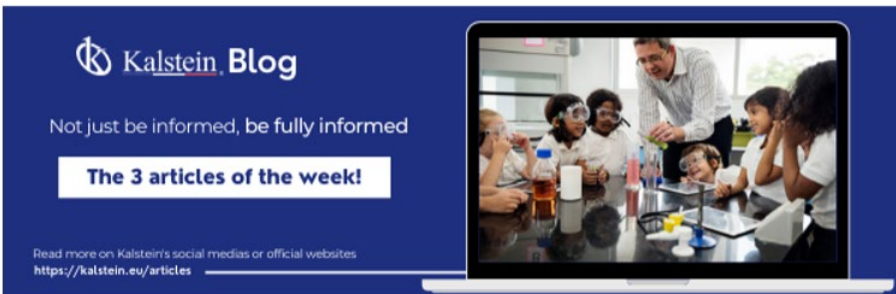
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