

REINHELDT



Rein-R Lab Autoclave

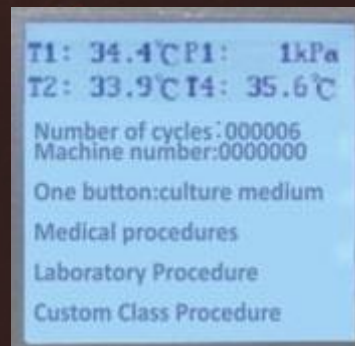
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Product Introduction

The Rein-R Lab Steam Sterilizer Series mainly for all types of university laboratories, pharmaceutical laboratories inspection departments, CDC and other institutions for medical and health, scientific research and other units for medical equipment, laboratory containers, Medium and non-closed liquid or preparation, and blood or body fluids may contact with the sterilization of the material.

Performance and Features

Automatic door structure	Humanized operating system
Water quality monitor system	Exhausting control system
Built-in gas collecting bottle	Multiple programs
No steam out during the process	Safety lock system



1. Automatic Door Structure

Multi-point synchronization linkage technology, so that the door seal more reliable, one-button open the door, quick and effort.

2. Humanized Operating System

Microcomputer automatic control, LCD display, induction button, can intuitively observe the equipment information and process information, easy to operate, sterilization process automatic control.

3. Built-In Gas Collecting Bottle

Equipped with 5L gas collecting bottle to ensure the internal circulation of steam and no steam discharge.



4. Water Quality Monitor System

Monitoring the water quality, and alarm when bad quality of water.

5. Exhausting Control System

Exhaust valve opening temperature can be set: After the end of sterilization, the user can according to the actual needs, by adjusting the control parameters to achieve flexible ventilation device valve to meet the different process requirements.

Exhaust mode: by changing the parameters to achieve the control of the steam discharge rate, to achieve fast row, slow row, not row of exhaust speed control.

6. Multiple Programs

There are 108 programs which contains laboratory series programs, medical series programs, custom series programs, include 8 preset programs, 100 custom programs. Laboratory programs include solid procedures, solid waste, culture medium, liquid, agar program; medical programs including bare, packaging, rubber program; custom programs the user can program parameters for flexible definition, to avoid modify the parameters frequently.

7. No Steam Out During the Process

With steam condensation system, the steam discharged from the cooling system, by adjusting the parameters set to change the exhaust speed, the whole process can be achieved without steam exhaust.

8. Safety Lock System

Over-temperature protection system: Temperature exceeds the set temperature, the system automatically cut off the heating power, and alarm.

Double anti-dry protection system: Water level monitoring system can automatically cut off the heating power and alarm in case of lack of water; anti-dry thermostat can cut off the heating and alarm.

Door safety interlock device: cannot start program until the door is locked; internal pressure or power is not connected when the door opening mechanism is locked, the door cannot open.

Over-pressure automatic pressure relief device: when the chamber pressure reaches the safety valve opening pressure, safety valve automatically open and release pressure automatically ensure the safe operation of equipment.

Electronic circuit safety device: AC main circuit with safety protector, quality control circuit with over-voltage overload protection.

Cooling lock: the liquid exceeds the safe temperature, the door cannot open to ensure the safety of personnel and items, to avoid the risk of liquid splash or even burst bottles.

Optional Functions

Double temperature control system	Drying system
Sealed liquid sterilization function	Rapid cooling function
Optional different size of basket	Data storage

1. Double Temperature Control System

Optional mobile sensor to detect the load temperature, the device temperature for double temperature control, can effectively and accurately control the internal temperature, to ensure uniformity inside and outside the load and accuracy, in order to achieve exactly load temperature control requirements. As the medium and other liquid has a high thermal inertia, the sterilization temperature in the sterilizer chamber reaches the sterilization temperature, the culture medium as a whole to achieve a sterilization temperature has a lag time. The following table is based on the liquid single container of different load reference lag time.

Volume	Time
0.5L	8min
1L	16min
2L	24min
3L	33min

Liquid, such as medium load internal temperature of the load in the process of sterilization to lag the external temperature, using a dual temperature probe can ensure consistency of interior and exterior temperature load.

2. Drying System

with the thermal drying system can effectively dry the object.

3. Sealed Liquid Sterilization Function

By increasing the hardware configuration and software control, such as pipeline can achieve sterilization of airtight liquid without causing an airtight container. such as glass bottles, bottle, soft bag, bags, etc.

4. Rapid Cooling Function

Optional rapid cooling system, can effectively reduce 80% cooling time, improve the efficiency of the use of equipment. For example, if the conventional internal temperature of the liquid is naturally cooled to 100 minutes below the boiling point, the cooling time is only 20 minutes after the rapid cooling system is added. (Recommended synchronous dual temperature control, can accurately detect the load temperature, more secure and accurate.

5. Optional Different Size of Basket

Volume	250ml	500ml	1000ml	2000ml	3000ml
65L	2 x 11	2x8	1x5	1x3	1x1
85L	3 x 11	2x8	2x5	1x3	1x1
110L	4 x 11	3x8	3x5	2x3	2x1

6. Data Storage

Micro printer: thermal printer, less noise, print date, time, temperature and other process parameters. *Electronic storage:* U disk storage function, equipped with specialized software system for data parsing. *Remote monitoring:* matching PAD. complete remote wireless monitoring function.



Technical Parameters

Order No.	R65/R65-CS	R85/R85-CS	R110/R110-CS
Volume(L)	65	85	110
Chamber size(φ*L)mm	400 x 540	400x 700	400x 900
Overall dimensions(W*D*L)mm	640 x 665 x 940	640x 665x 1100	640x665x1290
Basket size(φ *L)mm	390 x 200	390x 280	390x 375
Basket Qty	2	2	2
Weight(kg)	120	125	140
Power(kVA)	4.4	4.4	6.6

Design pressure(MPa)	-0.1~0.34	Dissolving temp. (°C)	60~100
Design temp. (°C)	147	Sterilize time(min)	0~9999
Temp. range (°C)	105~138	Appointment time set(h)	0-160
Temp, display accuracy (°C)	0.1	Exhaust steam temp. set (°C)	45~134
Pressure display accuracy (KPa)	1	Insulation temp. (°C)	40~134
Chamber material	0-16006Cr19Ni10 (Stainless Steel)	Insulation time(h)	0~160
Power Supply	220V 50Hz	Test port(inch)	1