
Disintegration Tester

BJ-3

User's Manual

Shanghai Lorderan Scientific Instrument Co., Ltd.

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Introduction

Thanks for purchasing the product BJ-3 Disintegration tester designed and manufactured by us. Please read user's manual carefully before using the product. It will help you operate it properly and efficiently.

Product Registration

Prior to use the product, please fill up the user's registration card and mail to us, in order to get our service in future.

Technical Service

Pls. contact our marketing department for any service during warranty. Be sure that you have sent back the user's registration card.

If you have any problems, Pls. Try to find answers in user's manual first, or you can call our marketing department.

Proper Operation

Make sure you have read this manual carefully before installing/operating the instrument. For any concerns pls. Contact us.

- Transport with care. Any incline, convert, and hit are prohibited.
- Check and protect all safety related labels.
- It is prohibited to use any damaged product and power cord.
- Turn off the power before maintenance, or moving.

Contact Us

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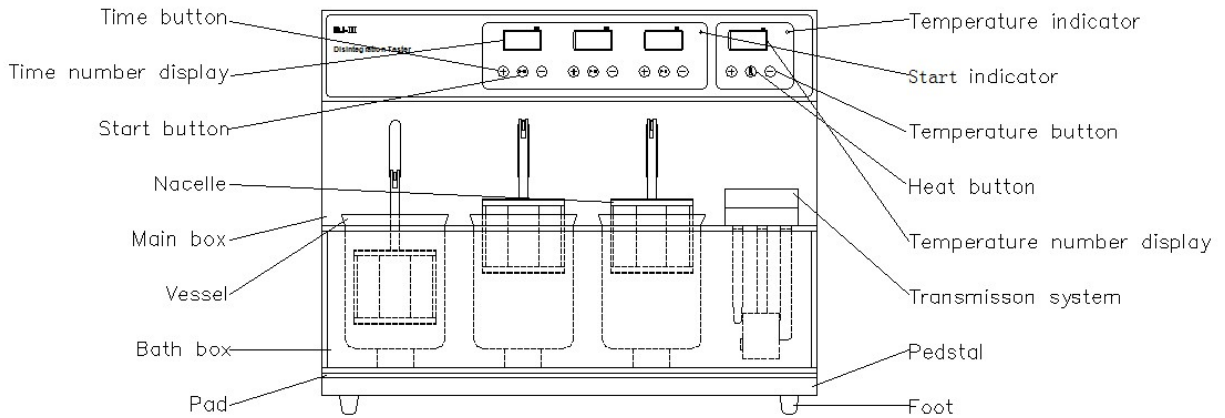
www.lorderan.com/

Introduction

Brief introduction

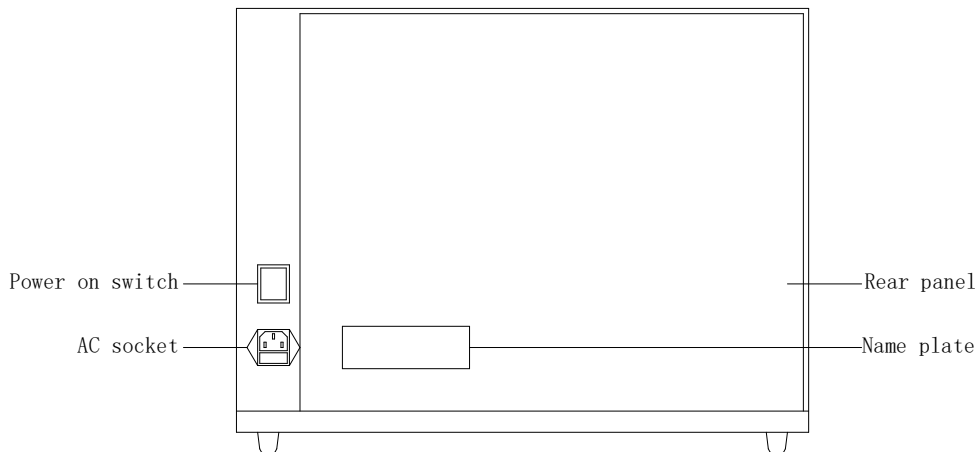
BJ-3 Disintegration tester consists of control system, transmission system, constant temperature baths system, and nacelle unit etc. And central controlled by MPU. The features: reasonable structure, automatic and simplified operation, high accuracy and sensitivity, and stable performance.

BJ-3 Disintegration tester main box consist of bottom, foot, box, front panel, rear panel etc.



Front panel includes:

- Temperature number display
- Time number display
- Time button
- Heat button
- Start button
- Temperature button
- Heat indicator
- Error indicator
- Product model
- Manufacturing



Rear panel includes:

- Power on switch
- AC socket(fuse jack included)
- Name plate

Function description

- Temperature number display

Three LCD in the temperature display area are used to display the preset temperature or the actual temperature. The unit of temperature is centigrade(°C).

- Time number display

3-digital indicates the preset time or actual time.

- Time button

Timing button TIME is to setup the time. Pressing the button will display the present value (default 15min). Press it again can change the preset time. Increase 1min per pressing button between 1min and 30min. Increase 5min per pressing button between 30min and 900min. After releasing it about 2 seconds, the speed display area will display real surplus value.

You can setup the time between (1~900) min.

Press the button with beep sound.

- Heat button

Heat button is used to control the working status of the temperature system. Press this button, can turn on/off automatic controlled temperature system, with beep sound.

- Start button

Start button is used to control the working status of the nacelle unit and the automatic time unit. Press this button, can turn on/off the nacelle unit and the automatic time unit, with beep sound.

- Temperature button

Temperature button TEMP is used to setup the temperature. Pressing the button will display the present value (default 37.0°C). Press it again can change the preset temperature. After releasing it about 2 seconds, the temperature display area will display real value.

You can setup the temperature between RT.~45.0°C

Press the button with beep sound.

- Heat indicator

Heat indicator indicates the working status of the system. When it light, it means the system in automatic controlled status, otherwise, it means the system in uncontrolled status.

- Error indicator

Error indicator indicates the working status of the system. When it light, it means the system in

abnormal working status, otherwise, it means the system in normal working status.

- Power on switch

Power on switch is the main power switch. In ON position, tester is in working status, inversely, tester stop working.

Before connecting to AC power, please ensure it's in OFF position!

- AC socket

AC socket is connected to the power supply with power cord offered in this tester.
Fuse is under the AC socket. Attached one 3A fuse and a backup one is offered. This is to prevent damage to this tester in suddenness case.

Please make sure AC power supply is connected properly!
When change fuse, make sure same spec part is used for tester safety!

Specification

Model	BJ-3
Testing Station	3
Volume of Beaker	1000 ml
Speed	30~32 /min
Height of Stroke	55±1 mm
Timing Range	1~900 mins
Temperature	Rt~45 °C
Accuracy of Temperature	±0.5 °C
Continuous working time	>24hr
Power Supply	220V/ 50Hz, 110V/ 60Hz
Power	600W
Dimension	540×300×420 mm
Weight	20 kg

Environment requirement

Usage temperature	+18°C ~ +28°C
Store temperature	-10°C ~ +50 °C
Humidity	20% ~ 80 % RH

Installation

Unpacking and Checking

Open the package, take out manual, tester, and accessories. And check items according packing list. Any mismatch/damage happened, please contact marketing department immediately.

Tester settle

Tester must be placed on stable work station/table and put damping pad between bath box and tester.

Place the burning cups in bath box with the gap backward.

Hang the nacelle unit on the hook in front of the tester.

Minimum space required around test is 0.5m, to ensure heat escaping. Clean tester periodically to prevent tester from abnormal operation.

Connect to the power supply

Bath box

Constant temperature bath system is composed of bath box, heater and cycle water pump. It used to supply high efficient bath.

DON'T switch on the machine if without water.

If the water level in bath box were lower that the pump would spout bubble when running. Fill water in the bath box.

Cycle liquid

Suggest using distillation water.

Refill cycle liquid

Clean up the bath box and pour into the cycle liquid until it come to the calibration.

The scale mark is the filled height without beakers in bath box. You can turn on the heat system after the liquid level is raised with beakers in bath box. Otherwise the heater part may be damaged.

Empty cycle liquid

Get out the nacelle unit and burning cup. Insert the plastic pipe into the cycle liquid in the bath box and the other end is out of the bath box and below the working table. Empty the water with aspirator and clean up the bath box.

Change cycle liquid

Change cycle liquid can be completed by repetitively operate the empty and fill procedures.

Operation

Power on

Turn the power switch to ON position, the indicator light, initialize the tester for 10 minutes, then it's readiness.

Preset parameter

When power turns on, the system is first in the presetting state and the default parameters are as follows: temperature 37.0°C, time 015min.

Press TEMP button to preset temperature.

Press TIME button to preset the time.

Temperature control

When power on, it's in initial status, system auto-set to 37 degree, LCDs show the actual temperature of liquid in bath box. The system is in initial status after turning on the tester. The default preset temperature is 37.0°C. LCD shows the actual temperature of liquid in bath box.

Press HEAT Button and the indicator light. The system begins heating and automatically controlling the temperature. After about 30 min, the temp stabilize at range of $37\pm 0.5^\circ\text{C}$.

Test

Put the 6 samples into the 6 tubes of the nacelle and hang onto the hook. Press START button, nacelle is moving up and down to test till the time is over. Then read the measurements about the samples.

Power off

Turn switch to OFF position, the indicator is off and tester stop working.

Demonstration

- ① Power on.
- ② Set time.
- ③ Press the heat button.
- ④ After the temperature stabilization, place the sample into tube of the nacelle and hang the nacelle onto the hook.
- ⑤ Press start button, the nacelle move up and down to begin testing.
- ⑥ The nacelle stop moving till the preset time. Read the measurement of the sample.
- ⑦ Same measurement can be completed by carry out 4-6 repetitively.
- ⑧ Two nacelles can be worked respectively.

Maintenance

Clean box and parts periodically. Do not use steel brush, it will result in damage to the tester. After testing every time, pls. Clean nacelle unit etc to avoid damage to the tester.

Troubleshooting

- Can not power on

Check whether the voltage is OK and fuse is OK, please refer to the rating marked in nameplate while installation.

If the tester does not work after checking above items, please don't repair it by yourself, contact our market department please.

Our testing instruments are built to last with low maintenance require, high accuracy, easy to operate and most reliable testers in the industry.

Packing list

The BJ-3 Disintegration Tester include following items typically:

● BJ-3 Disintegration Tester	1
● Power cord	1
● Nacelle unit	3
● Discs	18
● 1000ml beaker	3
● Damping pad	1
● Plastic pipe	1
● Aspirator	1
● User's manual	1
● Product quality guarantee	1
● Registration card	1

Product quality guarantee

- This quality guarantee covers the scope of BJ-3 Disintegration tester.
- Start from purchasing date; warranty period is one year.
- This quality guarantee is effective from receiving registration card filled by users.
- During warranty, we offer free charge service for troubleshooting in normal cases, but for any cases caused by flood, fire, earthquake, or other calamity, is excepted.
- During warranty, in one of the following cases, we will charge for material/service:
 - No product quality guarantee, mismatch with this guaranty or wrong record/remark.
 - Damages caused by unusual working environment.
 - Damages caused by disassembly, install, extend, move or modify without our permission.
 - Damages caused by repairing without our permission.
- Keep this guarantee in proper place and any other issue is provided.
- The guarantee is only applicable in Chinese mainland.

Using Instruction

- Proper operation & maintenance will prolong the working time of the instrument. Please follow the manual's instruction carefully.
- When the power supply is unstable, pls. Use AV regulator. Pay special attentions to the information related to power supply, temperature, humidity in the manual.
- Always keep the instrument cleaning. Disassembly/move any parts of the tester is prohibited.
- In case of trouble present, pls. Stop using, call us or dealer for help.

Registration card

Name	
Address	
ZIP	E-mail
Tel	Fax
Product	
Model	S/N