

Instruction manual

North America Catalogue Number(s):

76644-702 VWR[®] Incubator Shaker Top-Hinge W/Cooling
76644-704 VWR[®] Incubator Shaker Top-Hinge



Technical service

Web Resources

Visit the VWR website at www.vwr.com for:

Complete technical service contact information

Access to the VWR Online Catalogue, and information about accessories and related products

Additional product information and special offers

Contact us

For information or technical assistance contact your local VWR representative or visit. www.vwr.com.

Warranty

VWR warrants that this product will be free from defects in material and workmanship for a period of two (2) years from date of delivery. If a defect is present, VWR will, at its option and cost, repair, replace, or refund the purchase price of this product to the customer, provided it is returned during the warranty period. This warranty does not apply if the product has been damaged by accident, abuse, misuse, or misapplication, or from ordinary wear and tear. If the required maintenance and inspection services are not performed according to the manuals and any local regulations, such warranty turns invalid, except to the extent, the defect of the product is not due to such non-performance.

Items being returned must be insured by the customer against possible damage or loss. This warranty shall be limited to the aforementioned remedies. IT IS EXPRESSLY AGREED THAT THIS WARRANTY WILL BE IN LIEU OF ALL WARRANTIES OF FITNESS AND IN LIEU OF THE WARRANTY OF MERCHANTABILITY.

Compliance with local laws and regulations

The customer is responsible for applying for and obtaining the necessary regulatory approvals or other authorisations necessary to run or use the Product in its local environment. VWR will not be held liable for any related omission or for not obtaining the required approval or authorisation, unless any refusal is due to a defect of the product.

Equipment disposal



This equipment is marked with the crossed out wheeled bin symbol to indicate that this equipment must not be disposed of with unsorted waste.

Instead it's your responsibility to correctly dispose of your equipment at lifecycle -end by handling it over to an authorized facility for separate collection and recycling. It's also your responsibility to decontaminate the equipment in case of biological, chemical and/or radiological contamination, so as to protect from health hazards the persons involved in the disposal and recycling of the equipment.

For more information about where you can drop off your waste of equipment, please contact your local dealer from whom you originally purchased this equipment.

By doing so, you will help to conserve natural and environmental resources and you will ensure that your equipment is recycled in a manner that protects human health.

Thank you.

For professional use only.

Legal address of Manufacturer

United States

VWR International LLC
100 Matsonford Rd
Radnor, PA 19087
+1 800-932-5000
www.vwr.com

Country of Origin

China

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1. Notice

Thank you for purchasing Crystal's Incubator Shaker. Incubator Shaker is widely used in lab testing such as bacteria or cell culture, ferment.

Read before use

Please check if the product is reversed after arrival.
Please check all the items against the checklist
Please put the unit on the steady flat ground for stable operation
Please turn off the power and keep the unit no-load before moving it.
Please keep the power off before replacing the mains fuse.
Please keep the unit in a clean and dry place, and off direct sunlight
Please adjust the height of right front foot to make the unit stable.
Do not open door frequently to keep the temperature stable
Please do heating once after ten days of continuous cooling. Recommendation: 30mins, 45°C.
Please check fastening screw for flask holder

Safety Warnings

1. Must connect power cord to a grounded mains socket.
2. Do not pull off power cord when unplugging it from mains socket.
3. Do not use damaged or unmatched power cord.
4. Do not block or insert anything into the ventilation.
5. Do not open power box.
6. Please keep the unit 10cm away from the wall or other objects for good ventilation.
7. Do not use corrosive solvents to clean the unit.

2. Description

2.1 Specifications

| Model | 76644-702 | 76644-704 |
|----------------------------------|---|-----------------------|
| Temp. Range | Ambient: Minus15°C~60°C (Low Limit:4°C) | Ambient: Plus5°C~60°C |
| Temp. Setting Range | 4°C~60°C | |
| Ambient | Ambient: Minus10°C~35°C, 20%~80%RH | |
| Temp. Sensitivity | 0.1°C | |
| Temp. Uniformity | ±0.5°C (@37°C) | |
| Speed Range | 0rpm,30rpm~400rpm | |
| Speed Precision | ±1rpm | |
| Orbit Diameter | φ26mm | |
| Sub-Program | 6 Sections | |
| Timer | 0~999hrs | |
| Size of Platform | 450mm×400mm | |
| Number of Platforms | 1 | |
| Maximum Capacity | 250ml×16/500ml×12/1000ml×6 | |
| Flask Clamps in Standard Package | 100ml×20 | |
| Power | 700W | 550W |
| Power Supply | AC220V 50Hz | |
| Outside Dimension | 700mm×650mm×550mm | |
| Capacity | 500mm×460mm×350mm | |
| Net Weight | 110kg | 100kg |
| Gross Weight | 125kg | 115kg |

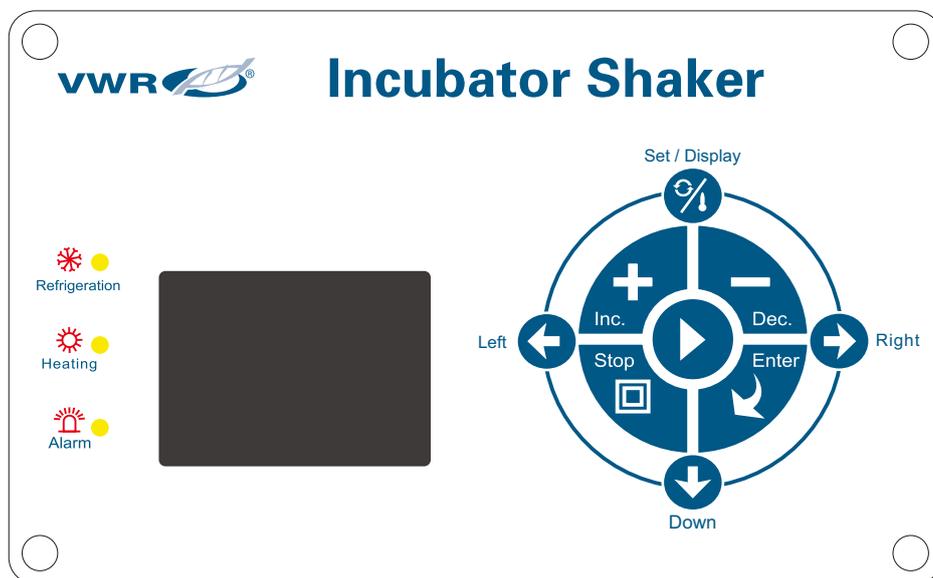
2.2 Characteristic

| | |
|--------------------------------|----------------------|
| •Friendly interface | •Error Info. Display |
| •Precise Shaking Speed Control | •Long Timer Setting |
| •Precise Temperature Control | •Automatic Restart |
| •REFD Intelligent Control | •Safety Protection |
| •Multi-stage Programming VFC | •Automatic Defrost |

2.3 Structure



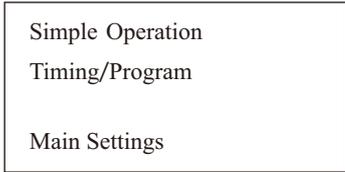
3. Panel Instruction



- A. : Settings
- B. : Move cursor right
- C. : Move cursor left
- D. : Move cursor down
- E. : Plus setting value
- F. : Minus setting value
- G. : Confirm setting
- H. : Run machine
- I. : Stop machine

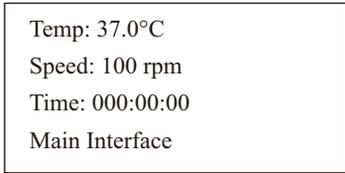
4. Operation

After turning on the unit, the main page, shown below, will appear. Please choose an option by pressing “” or “”.



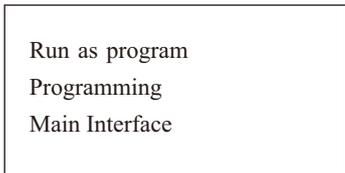
A. Simple Operation

Please select “Simple Operation” as shown in the dialogue box above and set up parameters for Temperature, Speed and Run Time.



B. Timing/Programming

Choose “Timing/Program” on the main screen to bring up the following display:



1. Run as program

Select “Run as program” to run the set program.

After the set program is over, the alarm will go off and the dialogue box will return to “Timing/Program” page.

2. Set up the running program

Press “” to get into the program interface and program section set-up.

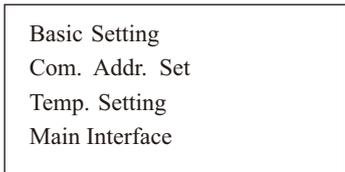
Set the temperature, speed, and run time value for each section using the keys illustrated in the panel instructions on page 2.

3. Set up a new program

Choose “Programming” to set the number of programs by pressing “” and “”. Confirm the number and set the parameters in the same manner as before. Confirm the setting for one program and go on to set the next program.

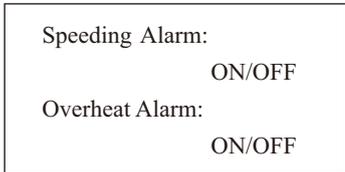
C. Settings

Select “Main Settings” on main page to display the screen as shown.



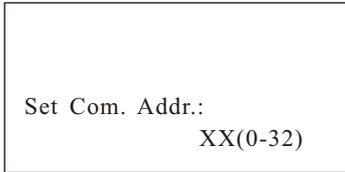
A. Basic Setting

Choose “Basic Setting” to turn the below two alarms on or off.



B. Com. Addr. Set

Choose “Com. Addr. Set”, and set the address for communication with host computer.

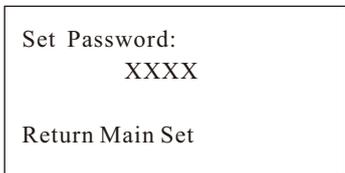


C. Temp. Setting

(Be careful. It may cause temperature inaccurate, if inappropriate setting)

Please key in the password before entering the Temperature Control Setting.

Notes: Please contact the manufacturer if password is required.



C.1 Password Setting

Choose "Password Setting" to enter a new password.

C.2 Temperature Control Setting

Temp. Display
Temp. Calibrate
Temp. Setting
Return Main Set

C.2.1Temp. Display

T1~T4 are the temperature from sensor, and the temperature in parathesis is the difference between the temperature from sensor and the one tested by calibrator. Please input temperature difference by the keys described in key instruction.

T1: XX.X°C (+0.0)
T2: XX.X°C (+0.0)
T3: XX.X°C (+0.0)
T4: XX.X°C (+0.0)

C2.2 Temp. Calibrate

A~F are the target temperature set by operator, and the temperature in parathesis is the difference between the temperature set by operator and the one tested by calibrator. Please input temperature difference by the keys described in key instruction.

A: 04.0°C (00.0)
B: 10.0°C (00.0)
C: 20.0°C (00.0)
D: 37.0°C (00.0)

C2.3 Temp. Setting

Choose "Temp. Setting", and the following warning shows up.

Temp. is
auto adjusting.
Don't touch the
pad. About 2hours.

Please press "confirm", and the following box shows up.

Temp. parameters
is AutoAdjusting
Please hold on

The whole process will last 2~3 hours. Do not interrupt the power or open door, otherwise the setting will be interfered, and the temperature accuracy will be affected.

Alarm

- Overspeed Alarm
- Overtemperature Alarm
- Communication Alarm
- Door Open Alarm

5. Troubleshooting

| | | |
|--|-------------------------|---|
| No display on LCD and tray does not work | No power | Check power connection |
| | Fuse Open | Replace fuse  |
| Tray works, but no display on LCD | Power Interference | Please press "confirm" |
| | | Please get rid of the interference source |
| LCD works, but tray does not work | Problems on Door | Please contact manufacturer |
| Temperature vibration | Frequently open door | Please reduce the frequency of opening door |
| Too much noises | Place the unit unstable | Adjust the screw feet |
| | Tray vibrates | Tighten tray screw |
| | Flask Clamp vibrates | Tighten flask clamp screw |

6. Packing List

| NO. | Description | Specification | Quantity | Remark |
|-----|-----------------|---------------|----------|----------------------------|
| 1 | Unit | | 1 | |
| 2 | Power Supply | | 1 | |
| 3 | Fuse | AC 250V/8A | 4 | 2 Included in power socket |
| 4 | User's Manual | | 1 | |
| 5 | Screw Driver | | 1 | |
| 6 | Water Collector | | 1 | |

Warranty Card

The certificate is an important basis for product warranty, please take good care of it!

Warranty certificate

| | | | |
|-------------------|--|------------------|--|
| User name | | Phone | |
| E-mail Address | | | |
| Zip code | | E-mail | |
| Product Name | | Product Model | |
| Production Number | | The date of sale | |

● **Warranty**
2 year warranty

- The following circumstances, Warranty is not implemented:
1. Over the warranty period; (warranty period starts from the date of purchase within one year)
 2. Damage caused by use maintenance violate the instruction requirement of use, maintenance, custody
 3. Damage caused by Non-professionals dismantlement
 4. No valid invoice; (except the goods can prove the validity of the warranty)
 5. Product model and serial number of products does not match the warranty certificate
 6. The damage caused by force majeure;

Customer Service Phone: 1-800-932-5000

Dear users, the above information is completed by the sellers and stamped effect.

Maintenance records

Completed by maintenance organizations, and they should help customers to paste maintenance records in the appropriate position!

| | | | | |
|---------------------------|----------------------------|--|-------------------------------|--|
| The 1 time | Maintenance company's name | | Maintenance Date | |
| | Address | | Tel | |
| | Maintenance documents No. | | Maintenance personnel to sign | |
| The 2 time | Maintenance company's name | | Maintenance Date | |
| | Address | | Tel | |
| | Maintenance documents No. | | Maintenance personnel to sign | |
| The 3 time | Maintenance company's name | | Maintenance Date | |
| | Address | | Tel | |
| | Maintenance documents No. | | Maintenance personnel to sign | |

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