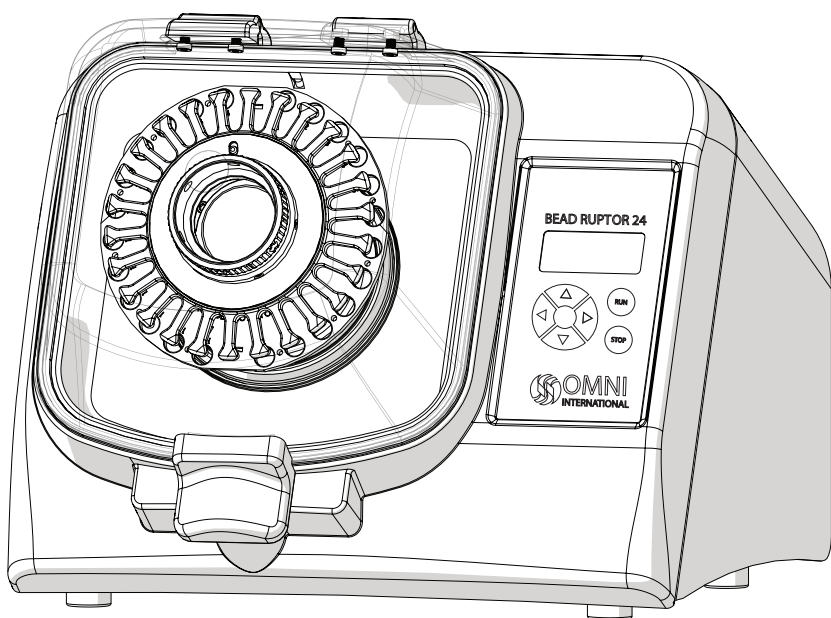


Bead Ruptor 24

User Manual



Data herein has been verified and validated. It is believed adequate for the intended use of the instrument. If the instrument or procedures are used for purposes over and above the capabilities specified herein, confirmation of the validity and suitability should be obtained; otherwise Omni International does not guarantee results and assumes no obligation or liability. This publication is not a license to operate under, or a recommendation to infringe upon, any process patents.

This product is warranted to be free from defects in material and workmanship for a period of TWO YEARS from the date of delivery. Omni International will repair or replace and return free of charge any part which is returned to its factory within said period, transportation prepaid by user, and which is found upon inspection to have been defective in materials or workmanship. This warranty does not include normal wear from use; it does not apply to any instrument or parts which have been altered by anyone other than an employee of Omni International nor to any instrument which has been damaged through accident, negligence, failure to follow operating instructions, the use of electric currents or circuits other than those specified on the plate affixed to the instrument, misuse, or abuse. Omni International reserves the right to change, alter, modify, or improve any of its instruments without any obligation whatever to make corresponding changes to any instrument previously sold or shipped.

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This product has been engineered for safety; however, basic safety precautions and common sense must always be demonstrated when using any electrical product.

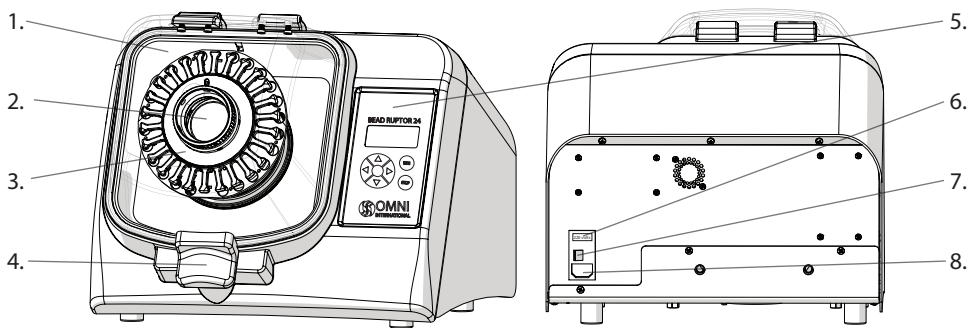
- DO NOT attempt to modify any part of this product.
- DO NOT allow the machine to be submerged in any liquid.
- DO NOT use in any setting other than an indoor laboratory.
- DO NOT plug power cord into an incorrect outlet or subject it to an incorrect voltage.
- Use this product only for its intended purpose.
- DO NOT use attachments not recommended by the manufacturer.
- DO NOT operate the product if it is damaged in any way.
- Keep this product away from heated surfaces.
- DO NOT modify the plug or cord that is provided. If the plug will not fit the outlet, have the proper outlet installed by a qualified electrician.
- DO NOT operate the product with the safety ground disconnected.

WARNING: Reduce the risk of unintentional starting; make sure the speed switch is in the OFF position before plugging in the motor.

WARNING: Damaged or worn power cords should be repaired or replaced immediately by a qualified electrician.

WARNING: Improper connection of the equipment can result in a risk of electric shock.

Overview

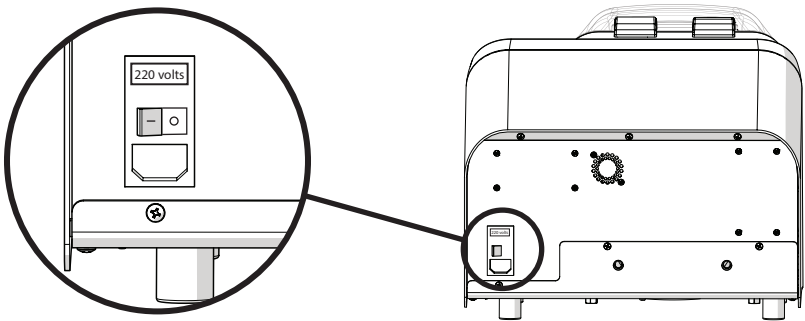


1. Lid
2. Drive Hub
3. Tube Carriage
4. Lid Latch
5. Keypad
6. 120V/220V Fuse
7. ON/Off Switch
8. Power Cord Port

The Bead Ruptor 24 consists of the following:

Description	Quantity
Bead Ruptor 24 Assembly	1
Power Cord	1
Spare Fuse	1
User Manual	1

Voltage



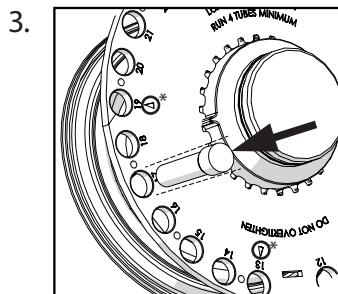
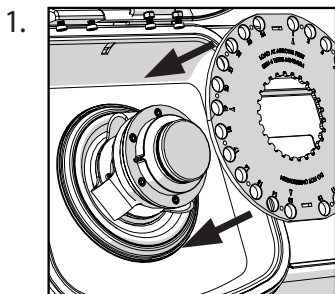
- Remove Warning stickers from the back of the unit and check that the voltage matches the voltage delivered by your electric power supply.

CAUTION: DO NOT connect the unit to the main power supply until correct voltage is selected.

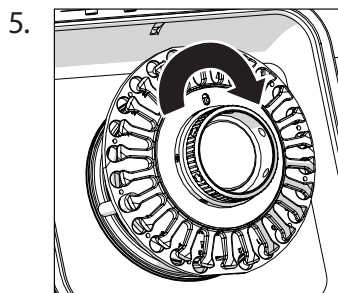
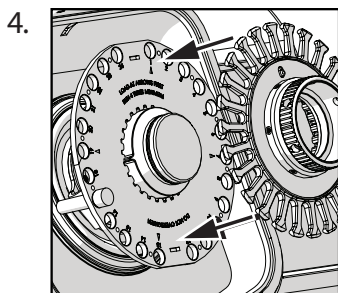
- Plug the unit into power supply using the supplied power cord.

CAUTION: If the voltage supplied to the unit is higher than what is indicated on the back of the unit, the electronics will be irreversibly damaged, voiding the warranty.

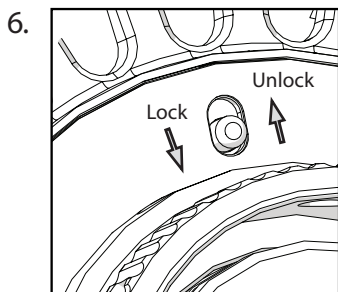
Loading Sample Tubes



A minimum of four tubes are required and must be spaced evenly*.

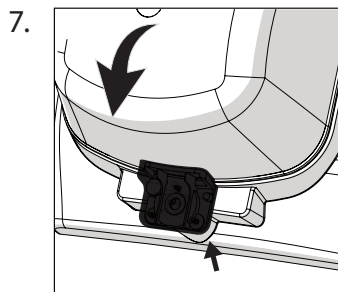


Screw down to secure tubes.



Move the locking switch to the "Lock" position.

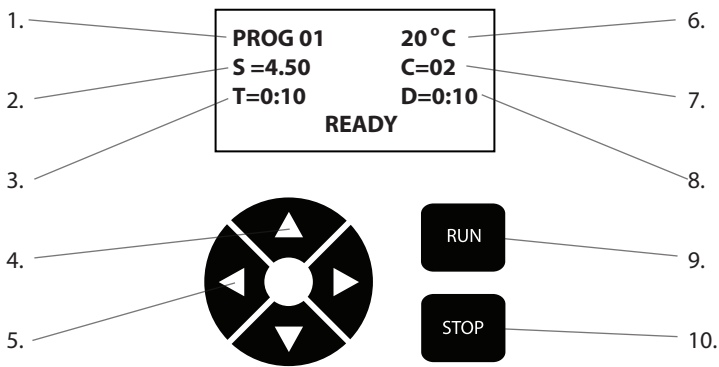
CAUTION: DO NOT run without moving the switch to the "Lock" position.



Close the lid until the locking handle clicks into place.

CAUTION: The unit will not run without the lid fully closed.

General Operation



- | | |
|----------------------------------|--|
| 1. Program Number | 6. Processing Chamber Temperature |
| 2. Speed | 7. Number of Cycles |
| 3. Cycle Time | 8. Time interval or Dwell between each cycle |
| 4. Navigation Buttons | 9. Run Button |
| 5. Parameters Adjustment Buttons | 10. Stop Button |

Language Setting

Turn unit off. Press and hold ▷ while powering on unit.

△ ▽ to select.

Choose from French, English, German, Italian, or Spanish.

Programming Mode

△ UP and ▽ DOWN - navigate through menu.

◁ LEFT and ▷ RIGHT - adjust the parameters.

	PARAMETER	OPERATING RANGE
S	Speed / Energy	From 0.8 m/s to 8 m/s
T	Time	From 0:01 to 9:59 in increments of 1 second
C	Number of Cycles	1 to 10
D	Dwell/Pause between Runs	0:00 to 9:59

- When the settings are entered press up △ or down ▽ to return to the program option.
- Press “Run” to start.
- At the end of the program “DONE” will be displayed Followed by “REMOVE SAMPLES”.
- If run is stopped system status will read “PROGRAM PAUSED”.
- Pause or Stop a run anytime by pressing the “STOP” button.
- Press “STOP” again to cancel current run.

Troubleshooting

Error	Cause	Possible Solution
Unclosed Lid	The lid is not latched properly	1. Check that nothing prevents the lid from closing. 2. Press lid and ensure the handle is locked properly.
	Detection system is faulty	1. Turn off the unit. 2. Contact technical assistance.
Fan not working	No Power	1. Check main voltage 2. Check that the voltage of the unit matches that being delivered by the main power supply. 3. Make sure that the unit is plugged in properly. 4. Check and replace fuses if blown.
	Faulty Fan	1. Turn off the unit. 2. Contact technical support.
Display screen shows incomplete or unusual characters	CPU needs to be reset	1. Turn off the unit. 2. Wait 10 seconds. 3. Turn the unit back on.
No display on the screen	No Power	1. Check main voltage. 2. Check that the voltage of the unit matches that being delivered by the main power supply. 3. Make sure the unit is plugged in properly. 4. Check and replace fuses if blown.
	Faulty display screen	1. Turn off the unit. 2. Contact technical support.
One or several tubes are not sealed tightly	The cap is not properly sealed or the tube is faulty	If dangerous or potentially dangerous sample is contained in the tube, apply the proper decontamination procedure.
Unit powers on with a loud "BANG"	Motor control device damaged due to incorrect voltage selection	Return unit to Omni International for replacement of motor control device.
Unit powers on but motor does not turn	Incorrect voltage selected	Power off the unit and select appropriate voltage. If problem persists, contact Omni International for assistance.
Fingerplate lock is difficult to disengage.	Knob position	Turn knob slightly counter-clockwise to release tension.
Tube leakage	Speed is too high High temperature or pressure inside tubes	Reduce processing time or speed

DO NOT: attempt to service the Bead Ruptor 24 in a manner other than those discussed in this manual. For any issue that is unsuccessfully corrected using this guide, please contact your authorized dealer or call Omni International at 1-800-776-4431



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