VWR Laboratory Blender

INSTRUCTION MANUAL

European Catalogue Numbers:

Star Blender Digital **710-0958**



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CE

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Use of the manual

Using this manual will help you to keep your instrument efficient. This manual should be kept in a place nearby the instrument for easy reference.

General warning

The homogeniser has been designed for laboratory use and it should not be used at temperature below 15 °C in order to avoid sudden wearing of the crank mechanism. If the instrument is at a temperature below 10 °C place it in a warmer room and wait at least two hours before using it. Before plugging the instrument into a power supply, check that the voltage and frequency on the label matches the power supply specifications. Before any operation ensure that the ventilation grids are not obstructed and the door is properly closed.

Safety Information

The device must be correctly installed according to these instructions before starting any operation.
Never disconnect the device by pulling the electric cable from the socket.
Immediately replace the electric cable when it becomes damaged or worn.
When removing this item when connected to an electrical system pay particular attention to the electronic connection cable.

Always disconnect from an electrical system when:

A. Repairing or maintenance; these operations must be carried out by qualified staff only
B. Cleaning the unit
Use original spare parts and accessories for any replacement.
Do not use this device in the presence of explosive gases.

Unpacking

Carefully open the box and ensure that it contains:
1 HOMOGENISER
1 ELECTRICAL POWER CABLES (EU)
1 INSTRUCTION MANUAL
Any damage must be immediately reported to the carrier before signing any shipping document.

Installation

Precautions during installation



When the electrical system socket is not compatible with device socket, replace it paying attention to the following coded cable colours:
Brown: Live - Blue: Neutral - Yellow/green: Earth



Please ensure that the voltage and frequency of the electrical system is compatible with device.



The device must be connected to a ground wire. For any question please contact an electrician.
Before starting up the device ensure that the ventilation grids are free of any obstruction.

During the installation the user should provide:

- an efficient protective earth
- a mains switch
- a magneto-thermic switch with 10 A and a RCCB with 30 mA sensitivity

Intended use

The lab homogenizer is a unique homogenising instrument in which a sample is blended within a special disposable bag. The instrument acts on the bag in an action similar to the action of a stomach.
The instrument is composed basically of an electric motor with twin output shafts coupled to a flexible crank mechanism, which reciprocally operates two paddles.
The paddles act on the flexible plastic bag to create blending forces termed as “stomaching” action.
An important feature of the system is that the working parts do not come into direct contact with the sample being processed.
The instrument is made of stainless steel AISI 304.
The command panel is located on the top of the unit.

Specifications

Overall dimensions: 250x410x220 h mm
Weight: 15 kg
Electrical supply: 220/240 VAC
Bag dimensions: 180x300 mm
Minimum suggested capacity: 80 ml
Maximum suggested capacity: 400 ml
Maximum suggested sample temperature: 60 °C
Working temperature: From 15 to 30 °C

Power: 180 W
Time settings:
- up to 3 minutes 15 seconds increments
- up to 10 minutes 30 seconds increments
- up to 30 minutes 1 minute increments
- endless

Paddles speed: Adjustable up to 350 rpm
Tolerance: ±5%

General description

Pos. 1 Handle for easy opening

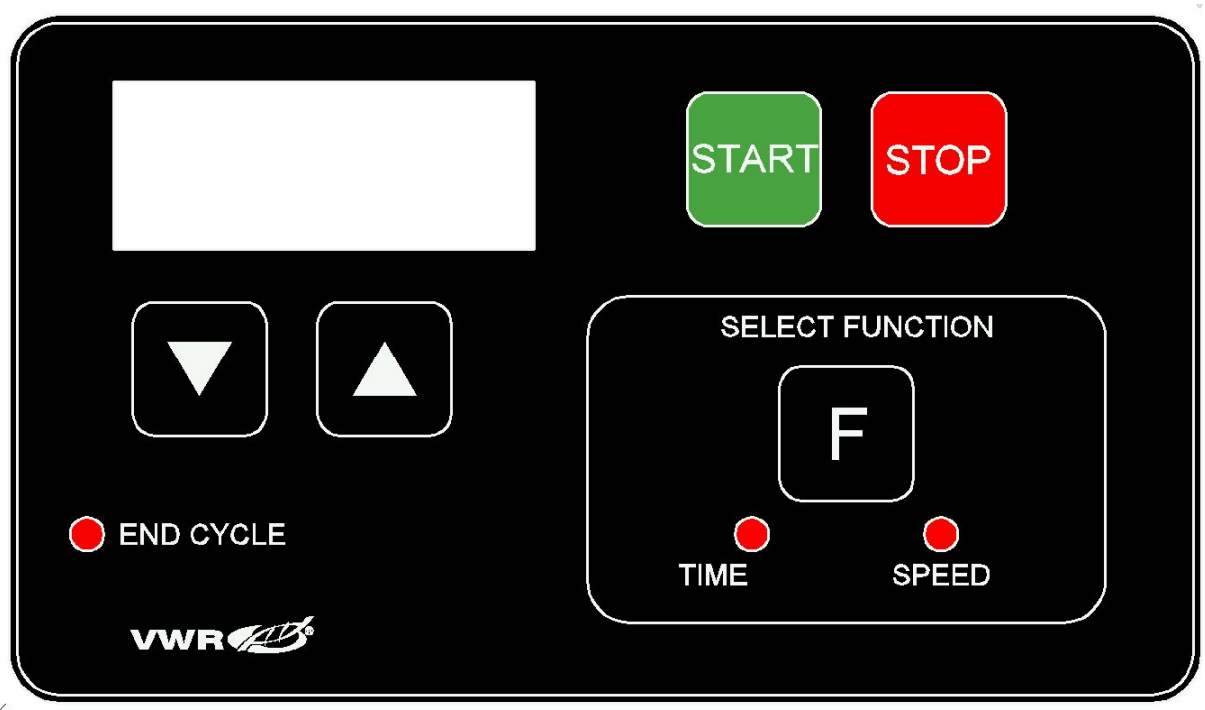
Pos. 2 Main switch

Pos. 3 Programmer

Pos. 4 Transparent door



Control panel description.



▲ To increase selected value

▼ To decrease selected value

End cycles: Lights at the end of the cycle

START: Starts the cycle

STOP: Stops the cycle

F Button: Selects time or speed settings

Time: Lights during time set

Speed: Lights during speed set

Operation

1. The sample and diluent (e.g. 10 g of sample + 90 ml of diluent) must be poured into a plastic bag. The total volume must not exceed the maximum suggested volume. The sample to diluent ratio can be varied if needed. It is also possible to use simultaneously more than one bag, as long as the total volume does not exceed the maximum suggested volume.
2. Use only original bags. Frozen food should not damage the plastic bags, instead of hard material like bones, sand, seeds etc. If a bag rupture is likely to happen, use two bags (one inside the other). Usually for most of food (fresh meat, cocked meat, fruit, vegetables, cheese) only one bag is needed.
3. Open the door by raising the handle and insert the bag containing the sample with the diluent. If you insert more than one bag, it recommended that the load is evenly distributed along the paddles.
4. Close the door by lowering the closing handle, the bag will be clamped.
5. Switch on the unit.

6. Push F in order to select Time or Speed function, the corresponding light will light up. Using the arrows you can change time or speed. The selected parameters are now in the memory.

7. Push the START button.

8. If needed, stop the homogenising process by pushing the STOP button or turning off the unit. The units have a safety device that prevents the opening during operation. Do not force the door.

9. At the end of the homogenising programmed time the instrument will automatically stop. The door can then be opened by raising the handle and the bag removed. The instrument is then ready for a new cycle.

10. At the end of the cycle the sample usually looks different from a sample treated with a blade homogeniser. For example, the liver will look like a thin sediment, the heart like fibres, and the connective-like corpuscle.

11. Since there are so many type of sample that can be treated, it is not possible give a general treatment rule.

Troubleshooting

Problem	**Possible cause**	**Solution**
The instrument doesn’t start.	The instrument is turned off	Check plug connection and turn on the main switch
The instrument doesn’t start. The display shows Err1	The door is not closed	Close the door
Instrument door cannot be opened	The instrument is still working	Push STOP, then open the instrument door
Instrument door cannot be closed	Too much sample in the bag	Check that the sample volume is less than 400 ml
Bag broken	Hard or sharp sample	Do not blend hard or sharp samples. Open the door and clean the instrument

General maintenance

Daily maintenance consists of keeping the main body of the unit cleaned with a cloth and a mild detergent.
This operation should be done when the instrument is disconnected from the power supply.
The cleaning of the inner part of the door and the paddles should be carried out weekly or every time that there is a spillage. A brush and a mild detergent are recommended.
Before connecting the instrument to the power supply ensure that the door is placed in the working position.
If a loud noise is heard during operation, contact your supplier.
For safety reasons the main body must be removed only by a qualified technician.

Accessories

Description	Pk	Cat. No.
Power cord - CH	1	481-0716
Power Cord - UK	1	481-0715

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 International 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

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