

Thermostatic bath BRC10 Series



User manual

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Marked **CE**

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SAS

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1. Features

- 1 . The refrigeration system uses a fully hermetic low noise compressor, Air-cooled with controlled cooling rate and high temperature stability.
- 2 . The control system with state-of-the-art PID software provides stability and accuracy with a Pt100 temperature sensor.
- 3 . The circulation system: consists of inner and outer loop.
The outer loop provides liquid at a constant adjustable temperature.
It is used as a hot/cold source to keep any external device at a constant temperature. The outer loop only works in closed loop.
The internal loop keeps the temperature of the liquid in the bucket uniform and stable.

- 4 . Protection system:
Cooling with overheating.
Power surge protection.

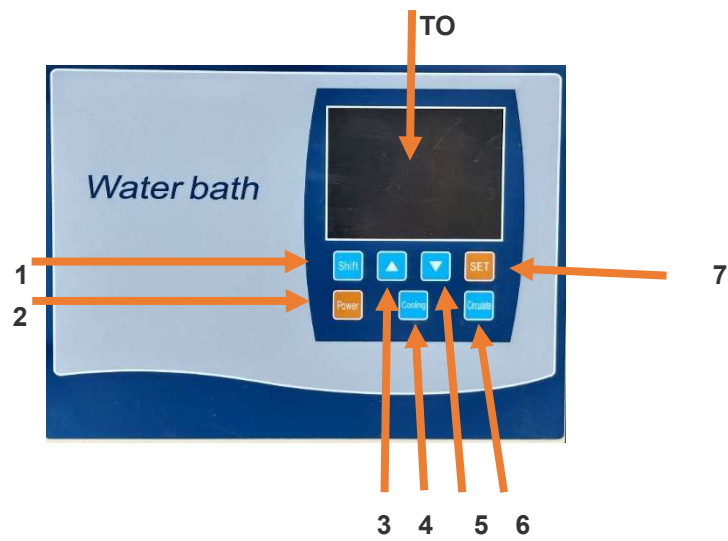
The alarm control system has an overheating alarm. Overheat alarm temperature can be set. The upper and lower temperature limits can automatically cut off charging when overheated.

5. High-end LCD control unit with simple operation.
Temperature stability is excellent, thanks to a PID control that automatically adjusts the heat/cold mechanisms to achieve the desired set point (temperature to be maintained).
6. Temperature correction function can reach 0.01°C
Degree of temperature fluctuation up to +/- 0.02 °C ~ +/- 0.05 °C (depending on model)

Technical parameters

Model	Range C°	Fluctuation C°	Volume tray	Opening tray	Background	l/min	kW
BRC10	-10 +100	±0.02 to 0.05	6L	180x160mm	150mm	6	0.9

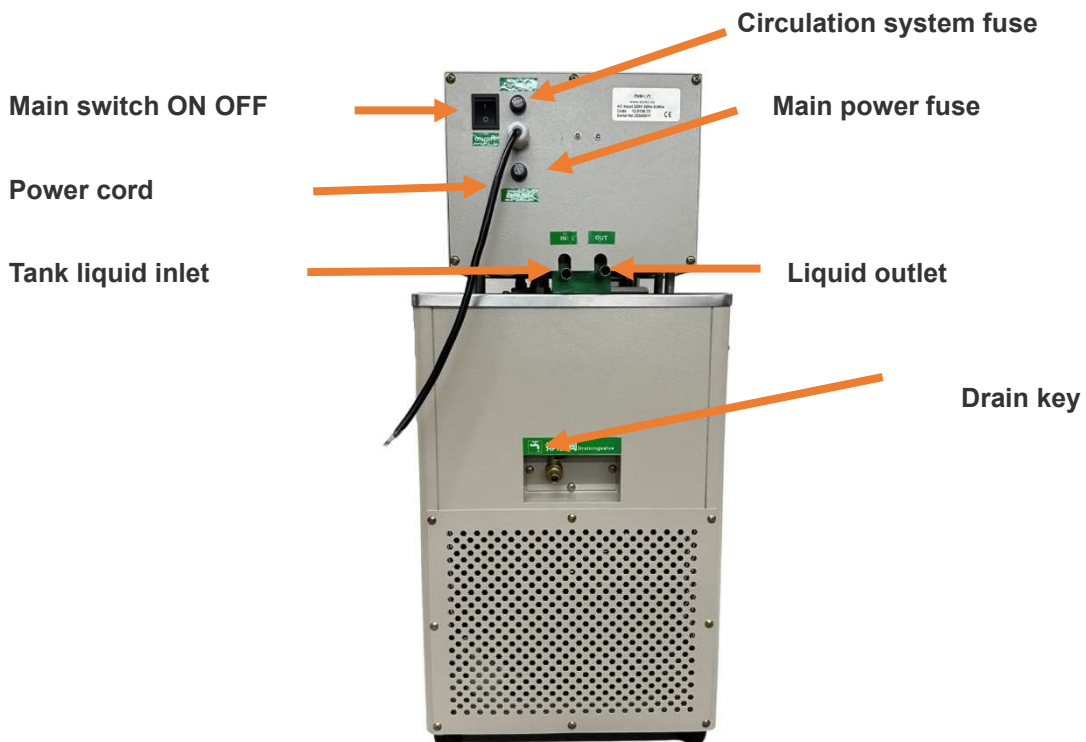
2. Product structure



A-Digital reader

- 1- Shift key
- 2- Switch (Power)
- 3- Additive key ▲
- 4- Cooling key (Cooling)
- 5- Decreasing key ▼
- 6- Circulate Key _ _
- 7- Function SET key

Rear view



3. Operating Instructions

Steps to follow:

- Initial considerations:

1. The average liquid level cannot be below 20mm from the top of the bucket.

2. Selection of working liquid:

A: Working temperature below 8°C: industrial alcohol.

B: Working temperature 8 to 80°C: pure water.

C: Working temperature of 80° to 90°C: mixture of water and oil.

D: Working temperature from 90° to 100° C: oil.

3. Circulation pump connection:

A: Connect the outlet and inlet of the tank with the supplied hose.

B: External circulation pump for external circuit connection. Connect the outlet hoses outside the tank to connect to the outside liquid inlet and return.

4. Start up.

Fill the water tank. Plug into the power supply. Open the rear power ON/OFF switch. Then press the " Power " key and the " Circulate " key

5. The operation of the instrument is as follows:

A. **Instrument buttons:**

◀ SHIFT shift key

▲ Additive key

▼ Key diminutive

SE T function key

B. **Temperature setting:**

When the working temperature is higher than the ambient temperature:

Press the SET function key to set the temperature set point. The lower value will flash on the display . Press the additive key ▲ until the required working temperature is set. Press the SET key again to save the settings. The measurement is shown on the liquid temperature indicator. A state of automatic microprocessor control is then entered and symbols for cooling, heating or regulation periods are shown on the screen.

C. **When the working temperature is below ambient temperature:**

Press the " Cooling " key . The cooling function may not be able to be activated if the liquid temperature is above 40°C.

Press the SET function key to set the temperature set point. Press the decreasing key ▼ until you obtain the desired lower temperature that flashes on the display.

At this time press the SET key to save the configuration.

A state of automatic microprocessor control is then entered and symbols for cooling, heating or regulation periods are shown on the screen.

6. Correction of current and measurement temperature:

By pressing the SET function key for more than 5 seconds, the word "PASS" is displayed on the display . Press the ▲ key to enter the password "0001 ". Again, press the SET function key and the display will show the word "SC". Then press the ▲ key to increase the reading value and ▼ to decrease it. Once the temperature has been set, press SET for 5 seconds or so. Once the correction is made, wait for the equipment to adjust to the new working temperature.

6. Daily Maintenance

1. Before using circulation, the liquid intake in the bucket must be located in the middle of the liquid level (note: the liquid should not contain acids or alkalis).
2. The mains power must be greater than or equal to that of the instrument and a good "ground" device must be provided.
The use of voltage will be subject to the technical parameters table.
3. The bathroom should be placed in a dry and ventilated place. The back and sides must leave obstacles at a minimum distance of 30 cm.
4. After using the bathroom, turn everything off. Unplug the network cable.

7. packing list

1. Main unit
2. Tank cover and silicone tube for draining the tank or closing the circulation loop.
3. Instruction manual
4. Certificate

6. Warranty

6.1 DURATION:

The warranty is established for a period of 1 year from the date of commissioning of the device as long as the warranty card is returned to us within 8 days following said commissioning.

Without this condition the guarantee will not be valid.

6.2 SCOPE OF WARRANTY:

The guarantee is given against manufacturing and material defects for an average of 40 hours of work per week.

The guarantee is reduced proportionally to the increase in working hours.

Repairs will be carried out in our factory.

Otherwise, the warranty will only include the replacement of defective elements.

DINKO will not be responsible for transportation costs, nor will it assume responsibility for the consequences caused by the immobilization of the device.

The free replaced parts remain our property, reserving the right to request their return, free of shipping to our home.

Repairs or replacement of parts during the warranty period do not extend the initial warranty.

Our liability is limited to the attached warranty and not to possible accidents to people or other things.

Any alteration of the device by the user voids the warranty.

7- "CE" DECLARATION OF CONFORMITY

DINTER SA *DINKO Instruments* c/ Encarnació , 123-125 / 08024- Barcelona

Declares that the articles mentioned in the attached list, to which this declaration refers, comply with the essential safety requirements of the applicable European Directive:

- Low Voltage Directive Directive D2006/95/EEC of December 12, 2006
- Essential requirements of Annex I of the Machinery Directive 2006/42/EEC of the 17 May 2006
- Electromagnetic compatibility EC relative to the Compatibility Directive December 15, 2004
- Safety for electrical measurement, control and laboratory devices. Prescriptions related to EMC. EN 61326
- Safety rules for electrical measurement, control and laboratory devices. Part I. General requirements EN 61010-1

However, the user must observe the assembly and connection instructions indicated in the technical instruction catalogues.

Name	Joan A. Bravo	Josep X. Sensada
Post:	Technical Director	Responsible for Quality

Signature



Model: Circulation Bath. Code 12.0100.70

OTHER *DINKO* DEVICES

- Blenders-Homogenizers
 - Colorimeters
 - Conductivity Meters
 - Dosing Pumps
- Extractor for meat analysis
 - Heating Plates
 - Infrared Stoves
- Kits for water analysis
- Magnetic Stirrers
- Metallic block heaters
 - Microscopes
 - Nephelometers
 - Orbital Shakers
 - Oximeters
- Peristaltic Pumps
 - pH-meters
 - Photometers
 - Respirometers
 - Rod Stirrers
 - Rotary Stirrers
 - Sand Baths
- Spectrophotometers
- Temperature Controllers
 - Timers / *Timers*
- Trichinoscope - TriquiVisor
 - Turbidity Meters
 - Turn dishes
- Vacuum Pumps



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