

LABINCO LD83 Ceramic Digital Hotplate Magnetic Stirrer 20 ltr. 325°C



Technical data

Number of stirring positions	1
Stirring quantity max.	20 ltr
Motor rating input	25 W
Motor rating output	12 W
Speed display	digital
Speed range	50 - 1250 rpm
Stirring bar length max.	80 mm
Heat output	600 W
Heating rate	7 K/min
Heating temperature range	25- 325 °C
Heat control	digital
Heat control accuracy	1 ±K
Speed control	stepless
Adjustable safety circuit min.	50°C
Adjustable safety circuit max.	350°C
Connection for ext. temperature sensor	PT1000
Control accuracy with sensor	1 ±K
Temperature constancy in medium	1 ±K
Set-up plate material	Aluminium ceramic
Set-up plate dimensions	Ø 145 mm
Dimensions (W x D x H)	172 x 286 x 125 mm
Weight	3 kg
Permissible ambient temperature	5 - 40 °C
Permissible relative humidity	80 %
Protection class according to DIN EN 60529	IP 42
RS 232 interface	-
Product number	83003
Voltage	220 - 230 V
Frequency	50/60 Hz
Power input	635 W

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PROVIDED WITH:

- 1) Plate-temperature control with thermocouple
- 2) Red "HOT" plate indication LED
- 3) "350oC" undependant over-heating switch-off.
- 4) With needle probe sensor for liquid-temperature control.

DESCRIPTION AND OPERATING INSTRUCTIONS:

A (PTFE) coated stirring-bar (40 x 8) mm, needle probe sensor and this manual are included with delivery. After carefully unpacking, place the unit on a suitable flat surface. Check the power-line and line-Cord with the printed specifications on the sticker at the rear. Put the cord into the power-line and touch-push "Power-switch-ON". The green LED will lit. Choose either stirrer or heater "ON" with Potentiometer knobs. You can see the setting on the display also the reel plate temperature and the reel motor speed. You can set the max.(Lock)temperature with the switch on the back side off the LD-83. After the first rise of plate temperature the "HOT" indicating LED will lit as a red **"DON'T-TOUCH"** warning. The Labinco Model LD83 is an instrument that provides heating and stirring in beaker glasses, erlenmeyers or other suitable containers, up to a capacity of 20 Ltr. Either speed or temperature can by varied, by turning the "speed-knob" or "temperature knob" clock-wise. Both settings are stepless controllable. You can set the speed (rpm) on the required most practical stirring action. Ofcourse you must introduce a suitable magnetic-stirring-bar in the container. To optimise the stirring action, sometimes other than standard stirring- bars may be needed. Containers with unflat bottom or made of easily magnetisable materials may disturb optimal stirring action to much. For liquid-temperature control in the containers you can use the needle probe sensor. The LD-83 is provided with a special 5-wire connector. This connector accepts a male 5 -pole DIN-45322 plug for the needle probe connection.

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