

LABINCO LD-48 Shaker **NEW!!**



Technical data

Number of shaking positions

Amplitude

Motor rating input

Motor rating output

Speed display

Speed range

Timer

Heat output

Heating rate

Heating temperature range

Heat control

Heat control accuracy

Speed control

Adjustable safety circuit min.

Adjustable safety circuit max.

Connection for ext. temperature sensor

Control accuracy with sensor

Temperature constancy in medium

Set-up plate material

Set-up plate dimensions

Dimensions (W x D x H)

Weight

Permissible ambient temperature

Permissible relative humidity

Protection class according to DIN EN 60529

RS 232 interface

Analog output

Voltage

Frequency

Power input

See LD-48 parts (for a lot of different plates).

4 mm

90 Watt

60 Watt

Digital

75-1250 Rpm

1 sec. up to 99.59 hour.

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Digital

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See LD-48 parts

See LD-48 parts

310 x 340 x 140mm

12,5 kg

5 - 40 °C

80 %

IP 42

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100 - 230 V

50/60 Hz

125 W

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Operating instructions

After having unpacked the shaker, choose a flat surface on your table and put the line-cord into a suitable 230 Volts wall-contact (other Lines on request). On the digital read-out you will see that three light-bars show that the shaker is ready for use. For speed setting and micro-plate/tube-holder adaption please read the following procedures carefully.

*Clamp the micro-titre-plates/tube-holders as follows:

- (a) Unscrew the fastening knob in the center of the plate-holder, nearly to loose position.
- (b) Then you can bring a plate/holders on position .
- (c) Then You must screw the fastening-knob as tight so you cannot move the plates/holders along or aside.

SPEED: You can set the desired speed by pushing the up/down switch and read the set by speed from the display. Set speed on the display will always be indicated with lights.

STARTING THE SHAKER: You must use the " CONTINU/OFF/TIMER-switch to start the shaker. Switching to " CONTINU "the shaker will turn to the position that you set. In "TIMER" position the shaker will turn so long you have set the time on the timer. After having switched the shaker to "CONTINU "or "TIMER" you will see after a few seconds that the shaker starts up slowly and speeds-up rather quickly. The micro-processor will regulate accurately and gently towards the set speed.

TIMER SETTING: To set the time, press 1 x on the check mark at the bottom right, at the top right of the screen there will be one S in green, then you can set the time with the up and down arrows. Once you have set this, press the checkmark once again. Press now on the "START" button, the shaker will be to turn on the setting that you have set for the speed. If the setting time are reached , then goes the alarm. If you will stop the shaker press on the "STOP" button.

ERROR"INDICATION:"It is possible that the set-speed will not be reached as expected. In that case, the micro-processor will stop the shaker and show "ERROR" on the display. In most cases this means that there has been/is a blockage of the shaker.

UNLOADING THE SHAKER: Switch off the shaker and unscrew the fastening knob in the center of the holder. You can take off the micro-titre-plates/mini-reaction-tube-holders.

REMARKS: Do not fasten the fastening knob if there are no plates in position; this way you spare the pressing-foam-layer.

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