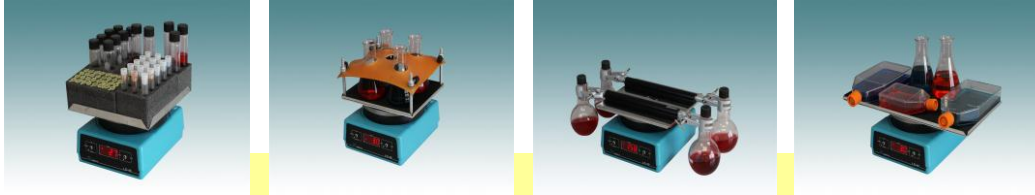


Product manual

Labinco
LD420/421/423/427

Model LD420/421/423/427



Operating instructions

After having unpacked the shaker, choose a flat surface on your table and put the line-cord into a suitable 220Volts 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 centre of the plate-holder, nearly to loose position.

(b) Then you can bring a plate/holders on position.

Push from the side, with your thumbs into the direction of the center, until the micro-plate/holder clicks into flat and clamped position. You can repeat this for all 4 micro-titre-plates/tube holders.

(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 REV/OFF/RUN-switch to start the shaker. Switching to "RUN" the shaker will turn clockwise. In "REV" position the shaker turns anti-clockwise. After having switched the shaker to "RUN" 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.

"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 centre of the holder. You can take off the micro-titre-plates/mini-reaction-tube-holders by pushing them with your thumbs into the direction of the holder centre and lift them a little, until the plates/holders can be taken off. In the same way you can take off all 4 plates/holders.

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