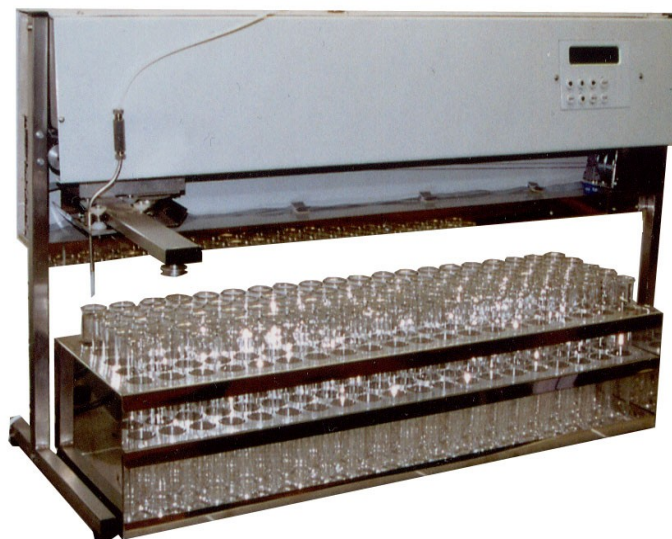




FRACTION COLLECTOR FC 100S

User's Manual



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Fundamental technical parameters:

Power:	230 V/50 Hz
Power demand:	100 VA
Weight:	12 kg
Dimensions (h x w x d):	900 x 360 x 400 mm
Number of test tubes:	100
Test tube volume:	100 ml
Time of fraction collection:	0.1 to 100 min.

Description:

FC 100S is a table device developed to collect liquid fractions. The separate field of the collector (1) consists of 100 positions in twenty rows of five test tubes each (2) (the test tube volume is 100 ml). The motor-driven carriage (4) moving in the collecting unit proper (3) mounted above the field carries an outlet capillary (5) connected to a flexible (PTFE) tubing (6), fixed in a holder above the carriage.

The carriage and the cable transmission are covered by a metallic strip (7); a display (8) and a keyboard (9) are situated at its right-hand side. The display is alphanumeric, double-row, with eight buttons. The main power switch is in the side wall to the right of the keyboard, close to a fixed power cord (11) and a connector for external control (12).

The fraction collector is shown in Figure 1.

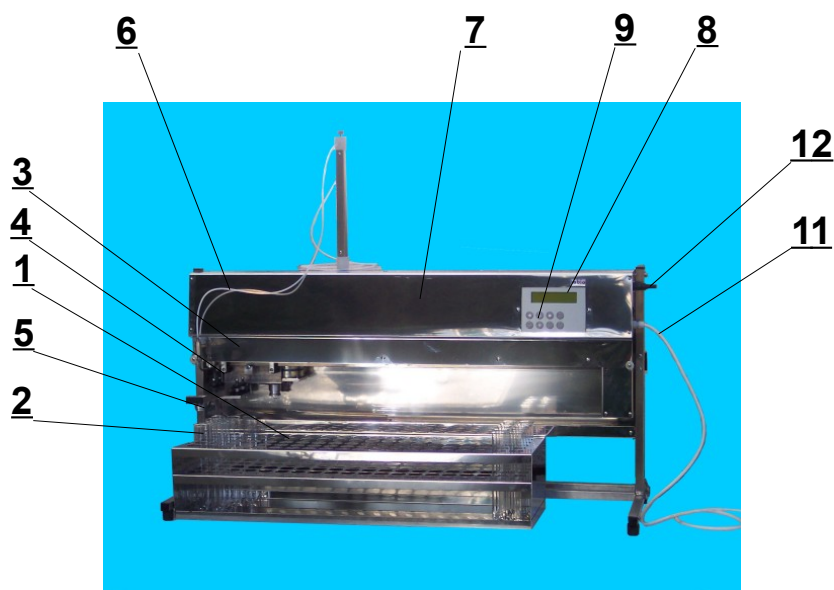


Fig. 1 Fraction collector

Operation:

The collector is controlled and programmed by means of the keyboard. After the instrument is connected to power the following is displayed:

FCC 100
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followed after a while by the message

Current time
00 : 00 : 00 P=1

informing about the time that passed from the moment of the time programme initiation and about the position currently occupied by the carriage and the test tube to be filled in. In the present state no programme has been run yet and, accordingly, the time remains at zero; after the collector has been switched on the carriage is at position 1.

Press button ? to display the time during which the carriage will remain at the indicated position together with the position number:

Act. pos. time.
000.0 min P = 1

Hitting STOP once while a programme is in run suspends the programme and arrests the carriage at the current position, hitting STOP twice terminates the programme.

In this instance the second row displays the message Stop and the position number at which the carriage stopped. Press ? again to display a message informing about the action to be undertaken after programme termination. If the message reads

Stop on last position

the carriage will enter and stop at the position following the last position at which the eluate has been collected (unless already at position 100); if ? is pressed anew, the message

Return after course

will appear. If approved by pressing ENTER, the carriage will return to the first position upon programme termination.

The time during which the carriage remains at individual positions can be set by pressing ? again. The following message will be displayed:

Pos. interval 1
0.00

The time during which the carriage will remain at position 1 can be now set. Values are set by means of buttons ? and ?: press ? to increase the current value or press ? to decrease it; confirm the required value by pressing ENTER. Together with the time period set for a given position the same value is set automatically for all positions with higher serial numbers up to position 100; it

is therefore necessary to set the collection times at individual positions in ascending order from 1 to 100 to avoid rewriting the already entered values. Position number is selected by means of buttons ? and ?. If 0 (zero) is then set at a certain position, the programme will stop at the position with the last non-zero period set, and the carriage will either proceed to the nearest higher position or return to position 1 as preset.

Run the programme by pressing START. A programme in run can be suspended by pressing STOP once and terminated by pressing STOP again. After pressing STOP the second time the carriage enters and stops at the next higher position or returns to position 1 as preset; the same will take place after the programme has run to its end. A suspended programme can be activated by pressing START.

The fraction collector can be controlled by connecting ac or dc voltage (5 to 24 V) to pins 3 and 5 of the external control connector. The external control proceeds in parallel to the control by means of the keyboard. The external control connector wiring is apparent from Figure 2.

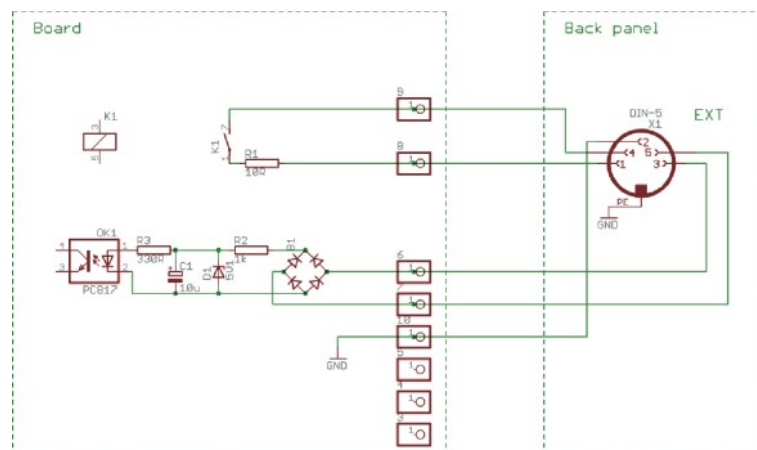


Figure 2: Wiring of the external control connector, fraction collector FC100S

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