

Hematology MIXER MV 36 User's Manual



MINIVOLT Instruments S.r.l.
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Description

The MV36 Mixer is an agitator for rotary type test tubes. A plate with housings of various shapes, allows the agitation, by overturning, of the most common laboratory tubes: 5cc, 10cc, Vacutainer etc. etc. The stirring of the plate takes place with a stepper motor. This allows an excellent regulation of the speed and of being able to stop the plate during movement without using clutches or anything else. The speed is set through an LCD touch screen and it varies from 1 to 40 rpm. The LCD display shows the rotation speed and the control keys.

Control Panel



On the LCD display there are two Start and Stop buttons and two "+" and "-" buttons. When switched on, the disc is stationary and free and can be rotated by hand. Warning: do not rotate the test tube disc by hand. The stepped motor, if rotated, behaves like an alternator, the current generated by it can damage the driver of the motor itself. Set the desired rotation speed using the "+" and "-" keys. Press the Start button to start the rotation. Press the Stop button to stop the rotation. The rotation speed can be changed, again with the "+" and "-" keys, also during the rotation of the plate. The settled rotation speed remains in memory even when the apparatus is switched off.

Installation

Remove the MV36 from the packaging.

Place the instrument on the work Table.

Connect the instrument's power cable to the connector on the back of the machine on the right side, and plug the VDE connector to a 220Vac 50 Hz main socket.

Insert the rotary plate on the motor axis. The plate is locked by the screw of the, brass made, shaft.

Use

After carrying out the installation operations, turn on the instrument with the switch on the back, right side, of the machine.

As soon as the device is switched on, the LCD will display the rotation speed. And the command buttons.

Insert the tubes to be shaken into the appropriate holes of the rotor disc. The holes accept both 5ml and 10ml tubes. Make sure that the inserted tubes have the cap inserted, and that it is well tightened. Push, on the LCD touch screen, the START button the rotor disc will start to rotate. If you want to stop the rotation of the rotor disc, push the STOP button.

If you want to change the rotation speed, use the "+" and "-" keys on the touch screen. With the "+" key the rotation speed will increase, and with the "-" key the rotation speed will be decreased. The range is between 1 and 40 turns per minute.

It is possible to stop the plate during rotation to insert more tubes, this will not damage the instrument.

When the "+" or "-" button is released, the rotor disc will stop for a moment to memorize the rotational speed of the rotor disk.

This speed will remain memorized even when the instrument is switched off.

Maintenance and Calibration

The MV36 does not require maintenance. The motor is coupled directly to the plate, there are no mechanical gears that require periodic lubrication. Periodically check the tightness of the rotor shaft with a 3mm allen key.

If the plate should vibrate or lock, even if the motor is activated, lock the screw of the brass made plate holder.

To replace the fuses of the power entry, remove, with a small slotted screwdriver, the square box located between the switch and the power cord connector. In the box there are two 5X20 1A fuses. The fuses are facing down so that, to facilitate the maintenance, the instrument can be placed upside down.



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LABORATORY EQUIPMENT

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WEB: www.minivolt.com - C. Fiscale e P. IVA 06345701004 - C.C.I.A.A. 961906



TECHNICAL DATA

<u>INSTRUMENT:</u>	Hematology Mixer MV36
<u>CODE:</u>	5R
<u>HS CODE</u> _____ :	84778093
<u>POWER SUPPLY:</u>	220V (±10%) – 50Hz 50VA
<u>DIMENSIONS:</u>	(width x length x height) 30x35x30cm.
<u>WEIGHT:</u>	6.5Kg
<u>OPERATION:</u>	Rotating disk controlled by a microprocessor. Manual Start and Stop and rotating speed in the range from 1 to 40 r.p.m.
<u>DISPLAY:</u> _____	Colour LCD 3.2” with touch screen
<u>CONTROL:</u>	Adjustment of the rotating speed with buttons on the LCD driven by the touch screen
<u>TARATURE:</u>	The Instrument no need calibration
<u>CONFORMITY:</u>	Standards CEI EN 61010/1 Direttive 89/336EEC CE Mark

Manufactured by:

MINIVOLT Instruments S.r.l.

Via Di Pietralata, 204/A

00158 Rome Italy



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DICHIARAZIONE di CONFORMITA'
DECLARATION of CONFORMITY



Nome del fabbricante:
Manufacturer:

Minivolt Instruments S.r.l.

Indirizzo:
Address:

Via di Pietralata 204/A
00158 ROMA

Nazione:
Country:

ITALIA

Il sottoscritto, in qualità di fabbricante, dichiara che l'apparecchio
The under written , as manufacturer, declares that the instrument defined here below

Denominazione apparecchio:
Description:

AGITATORE ROTANTE per EMATOLOGIA
HEMATOLOGY MIXER

Modello:
Model:

MV 36

Numero di serie:
Serial number:

Da 580 A 600
From 580 To 600

Anno di fabbricazione:
Manufacture year:

2019

E' conforme alle seguenti **Direttive-Norme:**
Is compliance with:

89/336/CE
89/336/CE
98/79/CE e 73/23/CE

EN55022
EN 61326-1
EN61010-2; EN61010-1

(Emissioni/Emission)
(Immunità/Immunity)
(Sicurezza/Safety)

Roma 21/01/2019

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HEMATOLOGY MIXER MV36 Code 5R



- Rotomixer MV36: hematology mixer with 29 cm rotating plate.
- Electronic regulation of rotating speed: from 1 to 40 rpm. With LCD and touch screen where are placed the start stop buttons and the regulation of the speed.
- 20 holes allow to fix any test tube of 5, 10 and 15 ml.
- The absence of gears, makes MV36 an highly reliable equipment.
- Manufactured in according with C E rules.
- Dimensions 30X35X30h cm. Weight 6.5 Kg. Power supply 220V 50Hz 50VA
- Entirely manufactured in Italy.

Dealer:



Manufacturer:



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