

## ROTOR HDA PRE-INSTALLATION GUIDE

### BEFORE OUR TECHNICIAN ARRIVES

When your new ROTOR HDA arrives, *do not unpack it!* If possible, please place the packing case on the floor, near the bench where the ROTOR HDA is to be installed.

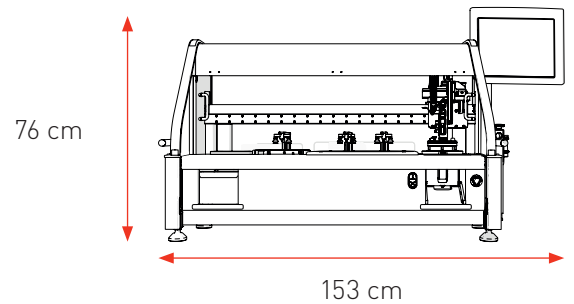
### BENCH REQUIREMENTS

The ROTOR HDA is heavy! Weight: *110 kgs (240 lbs)*

Width: *130 cm (51") (150 cm with MCI)*

Depth: *64cm (25")*

Height: *76cm (30")*



### PREPARING PLATES

- In order to get the most effective use of the technician's time with you, we suggest the following;
- Pour as many of the new PlusPlates as you need for your work. For a demonstration only, 10 plates will do. The ROTOR HDA senses the agar surface so agar thickness is not critical. The agar should be as flat as possible and poured carefully to minimize the edge meniscus. Also, do not pour too hot to minimize plate distortion. Plates should be prepared 2-3 days in advance.
- Transfer any colonies that you are currently working on to the new plates at 96-density.
- Liquid medium must be put in 96-well microtitre plates.

### ELECTRICAL REQUIREMENTS

The ROTOR HDA requires 115V 60Hz or 230V 50Hz at 5 Amps. *The supply must be earthed (grounded).* We supply a suitable three-pin plug with mains cable which is *2m (78")* long. Our mains electricity supply cable plugs into the ROTOR HDA at the right-hand end when viewed from the front.

### CIRCUIT BREAKERS

Due to the filters and motors fitted to the ROTOR there is likely to be current flow to earth in the ROTOR drive system—the EMC filters and the shielding on the cables are intentionally designed to filter "noise current" down to earth. A standard RCD circuit breaker fitted in most situations may trip due to the leakage current.

The combination of EMC filters and the drive itself means that the leakage current can be just over the limit of a standard 30mA RCD circuit breaker. Added to this there is an inrush current caused by the Servo Motor Drive.

There are a few options:

- Fit a device with a higher RCD trip level (sometimes insurance companies insist on 30mA so this might not be an option).
- Fit an isolation transformer (1:1) between the supply and the machine.
- Increase to a D20 breaker with higher trip level which will cope with leakage current and inrush current. Make sure the cabling on the outgoing side of this is suitably sized to be protected by the breaker.

## PREPARING FOR ARRIVAL OF YOUR ROTOR HDA

Ideally the ROTOR should be on its own circuit or separate from any other large items such as fridges etc.

Singer Technicians involved in the installation of a ROTOR are not qualified to perform any modifications to a customers mains electrical supply and are not responsible for any delays caused to the installation while this work is carried out.

### ANTIVIRUS

ROTOR will need the following exceptions in any antivirus to function correctly:

- The software lives in C:\Users\Admin\AppData\Roaming\Singer Instrument Company Limited\ so a path exception will be needed

### CONTACT

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