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Operating instructions


 The unit complies with the corresponding EC guidelines.



Fig 1: Power supply for 50 W-Hg-lamp.

1 SAFETY PRECAUTIONS



- Carefully read these operating instructions completely before operating this instrument. Also similarly read the operating instructions for the extra high pressure mercury vapour tube 50 W, 08144.00. This is necessary to avoid damage to it, as well as for user-safety.
- Check that your mains supply voltage corresponds to that given on the type plate fixed to the instrument.
- Install the instrument so that the on/off switch and the mains connecting plug are easily accessible.
- Do not cover the ventilation slots.
- Take care that no liquids or objects enter in through the ventilation slots.
- Only use the instrument in dry rooms in which there is no risk of explosion.
- Do not start up this instrument in case of visible signs of damage to it or to the line cord.
- Only use the instrument for the purpose for which it was designed.

2 PURPOSE

The power supply is used to operate the extremely high pressure mercury vapour lamp 50 W (order no. 08144.00) which is fitted with a corresponding extremely high pressure mercury pressure 50 W~ fluorescence tube.

3 HANDLING

The power supply is connected to the grid with the supplied cable, which is plugged in at the back of the unit. A fuse holder, which is integrated in the lower part of the connecting socket, can only be opened with a tool like a screw driver when the plug is pulled out of the socket. Please refer to the model identification plate for spare fine fuse 5 mm x 20 mm. The extremely high pressure mercury vapour lamp is connected over the fixed supply cable to the four pole safety socket (3) on the front of the power supply casing. To switch on the lamp, switch on the main switch of the power supply at the back of the unit. The lamp goes on by itself at once or after a few seconds.

If the unit does not work after being switched on, although it has been correctly connected to the public grid, please check whether the main fuse is intact before sending it for repair to our service department. Please check also whether thermal protection push button (1) for the starter is locked in the in position.

Caution!

The sockets of the special safety plug are under dangerous public grid voltage. The unit may not be switched on without connected laboratory lamp.



Please notice that extremely high pressure mercury vapour lamps only can be started if they are cold. If a hot lamp is switched on, starter (2) will become very hot. It is thus fitted with a thermal protection which will switch off the starter after a while in this case. Safety push button (1) at the starter comes out. It can only be pressed in again after a short cooling time. If the lamp does not go on although it is cold,

this usually means the lifetime of the tube has been reached. Before you replace the tube, please check whether the starter still works: after switching on the power supply, it must make clicking sounds accompanied by sparks which are visible through the starter casing in a darkened room. If the starter must be replaced, only the supplied special type of starter may be used. The starter can be easily pulled from its socket after rotating it 90° to the left, without having to open the casing.

4 NOTES ON OPERATION

This high-quality instrument fulfils all of the technical requirements that are compiled in current EC guidelines. The characteristics of this product qualify it for the CE mark.

This instrument is only to be put into operation under specialist supervision in a controlled electromagnetic environment in research, educational and training facilities (schools, universities, institutes and laboratories).

This means that in such an environment, no mobile phones etc. are to be used in the immediate vicinity. The individual connecting leads are each not to be longer than 2 m.

5 TECHNICAL SPECIFICATIONS

Mains supply

The instrument corresponds to protection class I. It is only to be connected to a socket with an earth lead connection.

Connecting voltage see type plate*
(+6%/-10%)

Mains frequency see type plate*

Apparent power requirement max. 300 VA
Mains fuse see type plate
(5 mm x 20 mm)

Lamp burning voltage 42 V ±4 V
Lamp current approx. 1.3 A

Housing dimensions (mm) 230 x 236 x 168 (W, D, H)
Weight approx. 6 kg

* Voltage and frequency (see type plate) depending on local power grid

xxxxx.91 = 115 V/60 Hz

xxxxx.92 = 115 V/50 Hz

xxxxx.94 = 230 V/60 Hz

xxxxx.97 = 230 V/50 Hz

Special voltages and fixed frequencies on request.

6 NOTES ON THE GUARANTEE

We guarantee the instrument supplied by us for a period of 24 months within the EU, or for 12 months outside of the EU. Excepted from the guarantee are damages that result from disregarding the Operating Instructions, from improper handling of the instrument or from natural wear.

The manufacturer can only be held responsible for the function and technical safety characteristics of the instrument, when maintenance, repairs and alterations to the instrument are only carried out by the manufacturer or by personnel who have been explicitly authorized by him to do so.

7 WASTE DISPOSAL

The packaging consists predominately of environmentally compatible materials that can be passed on for disposal by the local recycling service.



Should you no longer require this product, do not dispose of it with the household refuse. Please return it to the address below for proper waste disposal.

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