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Operating instructions



The unit complies with the corresponding EC guidelines.



Fig. 1: 06673-93 Power supply for spectral tubes with holder

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1 SAFETY PRECAUTIONS



Caution!

- Carefully read these operating instructions before operating this instrument. 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 slits.
- Do not start up this instrument in case of visible signs of damage to it.
- Only use the instrument for the purpose for which it was designed.
- Take care that no liquids or objects enter in through the ventilation slots.
- Protect the instrument from dust, moisture, and vapours. Only clean it in voltage-free state with a slightly moistened, lint-free cloth. Aggressive cleaning agents and solvents are unsuitable.
- Do not open the unit.
- Only use the spectral tubes with the corresponding power supply unit.
- Only insert or remove the spectrum tubes when the power supply unit is switched off.
- Neither the power supply unit nor the spectrum tubes are suitable for operation over a longer period of time. In particular, the life of the tubes themselves is extended by cyclic use.
- The tubes should not be left on for more than 30 minutes at a time and should be switched off for at least 30 seconds between uses.
- Make sure that the spectral tubes do not overheat.

2 PURPOSE AND CHARACTERISTICS

The power supply unit is intended for use with the 0666x-xx spectral tubes. A spring clamp ensures a secure hold and good contact of the tubes. Complete insulation of the terminals and a protective window ensure safe operation.

3 HANDLING

3.1 Inserting the tubes

It is recommended to insert the spectral tubes with a cloth or gloves to avoid fingerprints.



Only insert or remove the spectrum tubes when the power supply unit is switched off.

Open the protection window by touching the upper or lower right edge.

To insert the spectrum tube into the power supply unit, snap it into the lower tube clamp with the spring clip.

Gently push the tube down and secure it with the upper clamp.

Close the protective window.

Switch on the power supply.



The tube can only be operated with the protective window engaged!



Caution: Do not touch the tube connection during operation!

Use a spectroscope/spectrometer to observe the spectral lines.

Before removing the spectral tube, switch off the power supply to the tube and allow the tube to cool down.

Open the protective window and carefully push the tube down and pull it out of the upper holder.

3.2 Replacing the fuse

Switch off the power supply unit and disconnect the mains plug.

Unscrew the fuse holder on the back of the stand with a screwdriver.

Replace the blown fuse with a fuse equivalent to the original and put the holder back in its socket.

4 OPERATING INSTRUCTIONS



This high-quality instrument fulfills all of the technical requirements that are complied 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 no mobile phones etc. are to be used in the near vicinity. The individual connecting leads must not be longer than 2 m.

The Instrument can be influenced by electromagnetic charges and other electromagnetic phenomena in such way, that it works no longer within the given specifications. The following measures reduce or prevent disturbing influences: Avoid carpeted floor ensure potential equalization, perform the experiments on conductive and grounded surfaces, use screenings and screened cables and do not work with high frequency emitters (radios, mobile phones etc.) in the immediate vicinity.

5 LIST OF EQUIPMENT

The following tubes can be used in conjunction with the power supply unit:

Spectrum tube, Hg	06664-01
Spectrum tube, H ₂	06665-01
Spectrum tube, Ar	06666-01
Spectrum tube, Ne	06667-01
Spectrum tube, He	06668-01
Spectrum tube, Xe	06671-01
Spectrum tube, Kr	06672-01

6 TECHNICAL DATA

Input voltage :	220 V AC, 50 Hz
Output voltage:	5.000 V
Max. output current:	10 mA
Fuse:	T 1A
Dimensions:	370 x 120 x 110 mm ³
Weight:	2.9 kg

7 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.

8 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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