

Tube Holder D 1008507

Instruction sheet

07/12 ALF



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| 1 | Base plate |
| 2 | Holes for inserting Helmholtz coils |
| 3 | Stanchion |
| 4 | Clamping jaws for tubes |
| 5 | Retaining slider |
| 6 | Fork |
| 7 | Stock for tubes and optical analogue equipment |

1. Safety instructions

When operating tubes, the terminals may be live to high voltages that are dangerous to touch.

- Do not modify circuits unless all power supplies are turned off.
- Do not mount or remove tubes unless all power supplies are turned off.

2. Description

The tube holder accommodates all tubes of the series D and their accessories, such as the Helmholtz Coils D (100644) and Auxiliary Coil (100645) plus the Optical Analogue equipment (1000656).

The tube holder consists of a robust base plate with an upright stanchion and a fork-shaped holder for hot cathode tubes that can be rotated by 360° and is made of heat-resistant, highly insulating plastic. The tubes are secured into sprung clamps with retaining sliders. Two holes are bored in the base plate to accommodate a pair of Helmholtz coils at the "Helmholtz separation distance" for generating a uniform magnetic field. The tube holder rests on three non-slip rubber feet.

3. Technical data

Dimensions:	230x175x320 mm ³ approx.
Separation of holes for coils:	76 mm approx.
Weight:	1.5 kg approx.

4. Operation

4.1 Setting up and removing hot cathode tubes

- Tubes should not be mounted or removed unless all power supplies are disconnected.
- Push the jaw clamp sliders on the stanchion of the tube holder right back so that the jaws open.
- Push the bosses of the tube into the jaws.
- Push the jaw clamps forward on the stanchions to secure the tube within the jaws.
- To remove the tube, push the jaw clamps right back again and take the tube out of the jaws.

4.2 Setting up the Helmholtz coils D (100644)

- Place the tube in the holder as described above.
- Insert the Helmholtz tubes into the holes with the connections facing outwards. Push the sleeves on the rod upwards and insert the rod at an angle.
- Push the sleeves into the holes to secure the coils.

4.3 Setting up the auxiliary coil (1000645)

- Place the coil on the upper fork.
- Push the retaining slider over the lip of the auxiliary coil to secure the coil in place.

4.4 Setting up the optical analogue equipment (1000656)

- Insert the aluminium disc with the grating into the stanchion from behind.

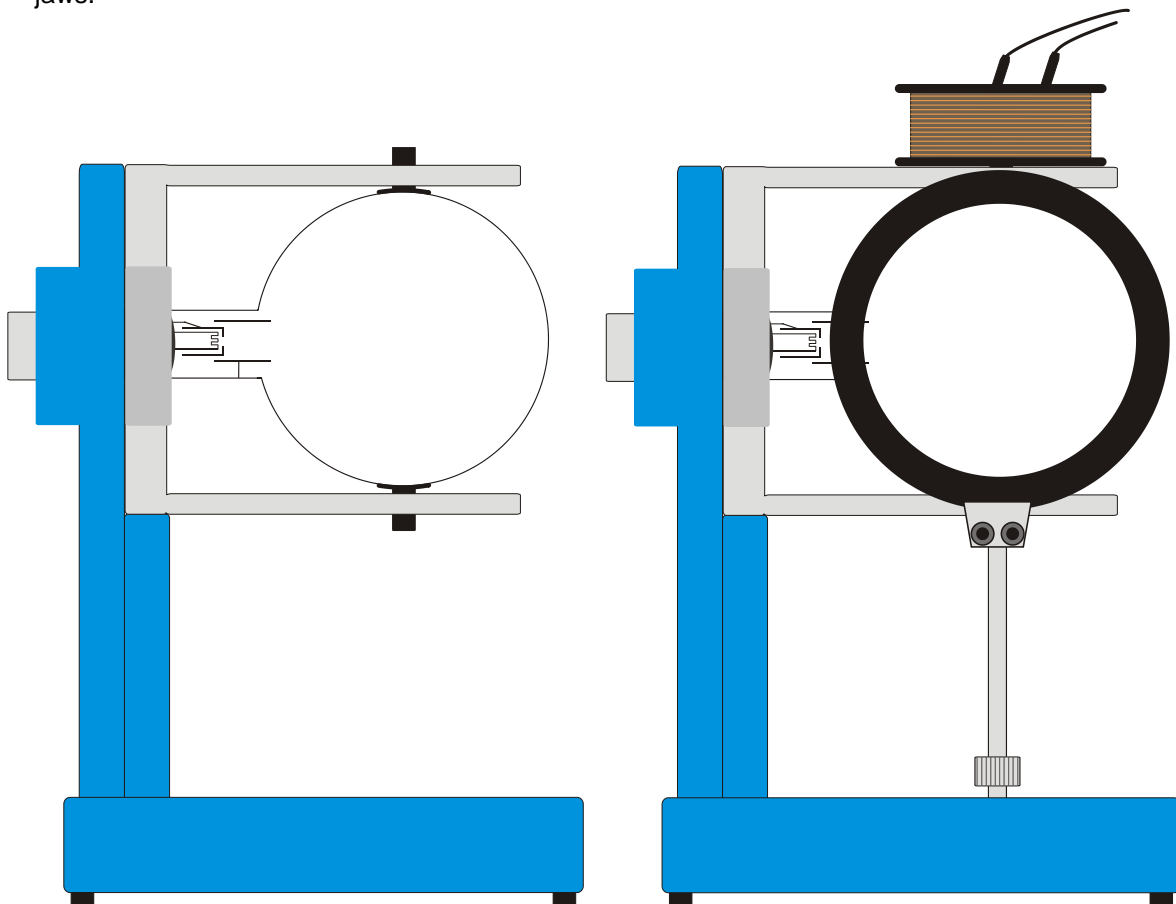


Fig. 1 Setting up a tube (left), a tube, the Helmholtz coils and the auxiliary coil (right)