

Spectral tube holder



This spectral tube holder can be used with spectral tubes (Geissler tubes) between 224 and 299 mm long with a diameter of up to 15.5 mm.

The built-in power supply provides an ignition voltage of up to 6 kV. The operating voltage is significantly lower and is controlled by the variable current limiter. The current can be adjusted between 2 and 8 mA using the button on the back.

Tubes are easily installed: Insert one end into the lower spring-loaded holder, press down and insert the other end into top holder.

Always turn off the power at the rear of the unit before replacing the tube, and let the tube cool before handling it. Do not turn the power back on until the new tube is installed in place.

Never attempt to touch the electrodes in the bottom and top!

Current adjustment

The knob at the back of the cabinet is provided with a scale to read off the current in milliamps.

Spectral tubes have a limited life time. The life time is shortened by high operating temperatures, and the temperature increases with the current through the tube. Letting the tube cool down between measurements prolongs the lifetime significantly. For instance, you can alternate between 1 minute of operation and 5 minutes of cooling – in case it proves necessary to run the tube at the full 8 mA.

If the current is too small, the tube may get unstable (blink) or eventually fail completely to turn on.

Specifications

Supply voltage:	230 V, 50 Hz
Fuse:	315 mA, Slow blow
Power consumption:	50 W
Size (L x W x H):	90 x 90 x 330 mm

Examples of compatible spectral tubes

285020 H ₂	285110 H ₂ O	285030 He
285000 Ne	285040 Ar	285060 Kr
285130 Xe	255010 Hg	285070 N ₂
285120 CO ₂	285180 Na & He	285150 I ₂

Spectral tubes with solid materials (285180, 285150) look stained on the inside of the glass.

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