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Spectral Calibration Lamp, Hg (Ar), 18±5 mA, 5000 Hour Rated Life



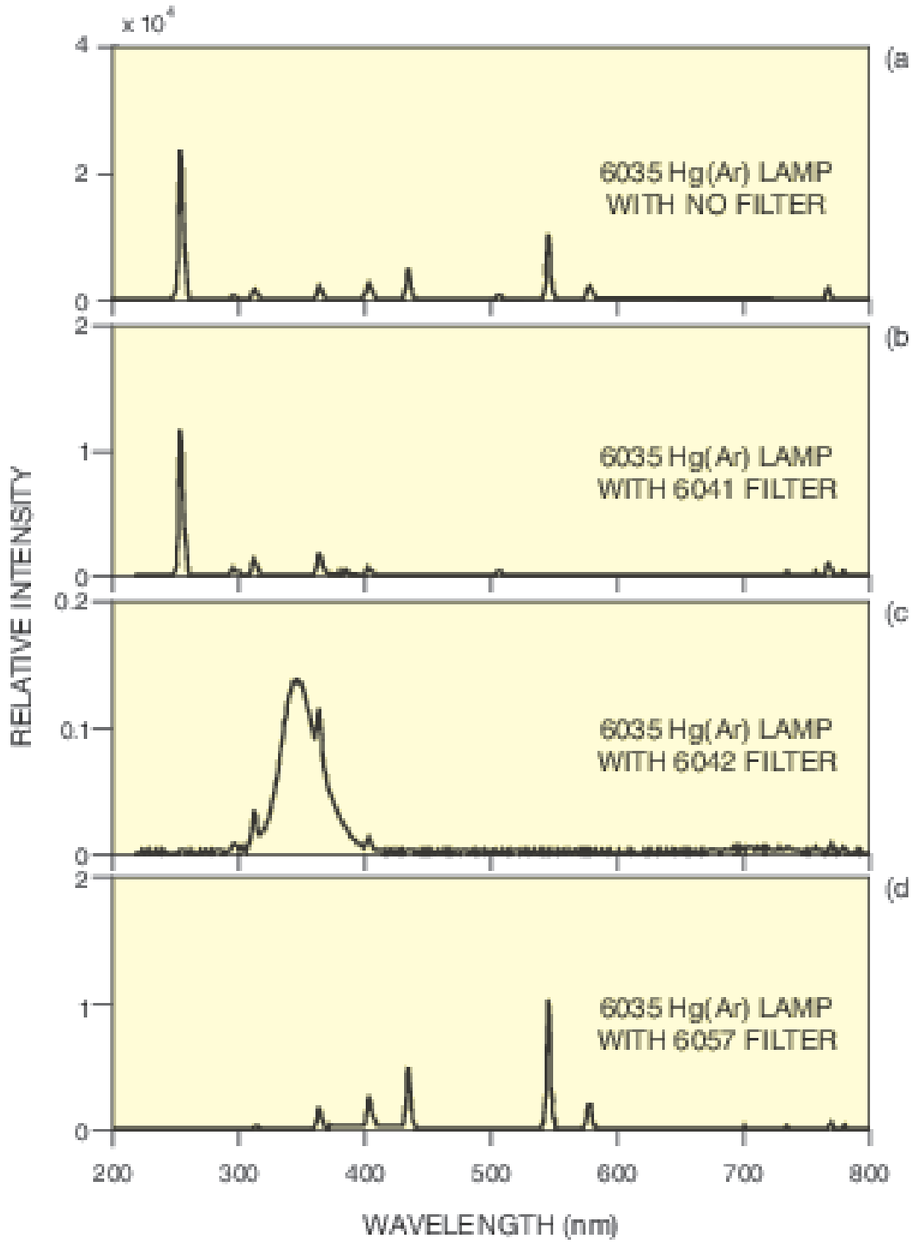
The 6035 Spectral Calibration Lamp produces narrow, intense lines from the excitation of Argon gas and Mercury vapor. The 6035 Hg(Ar) Lamp is insensitive to temperature. It requires a two-minute warm-up for the mercury vapor to dominate the discharge, then 30 minutes for complete stabilization. The average intensity is remarkably constant and reproducible after the thermal conditions stabilize. This lamp operates at 18 to 23 mA and is rated for 5000 hours of life. It is used for wavelength calibration of spectroscopic instruments such as monochromators, spectrographs, and spectral radiometers. We call this a pencil lamp because of its size and shape. It is made of double bore quartz tubing with two electrodes at one end sealed into a phenolic handle. A 1 foot (305 mm) long cord with male connector is attached to the end of the handle for connection to the AC power supply (not included).

Required Compatible AC Power Supply



This pencil style calibration lamps is compatible with our 6047 and 6048 AC power supplies (not included). These power supplies are required for proper operation of the calibration lamps. AC power supplies have the benefit of being CE compliant and prolonging lamp life, as they operate lamps with small variations in output intensity. There are two models for each lamp type based on geographic location and AC power requirements of that region.

Three Available Filter Types



When only certain portions of the lamp's output are required, three different filters are offered to block out the undesired spectral lines. Like the aperture shields, these filters simply slide over the lamp.

- 6041 Short Wave Filter: Blocks visible wavelengths
- 6042 Long Wavelength Conversion Filter: Attenuates the 253.7 nm Hg emission line and allows transmission from 300-400 nm
- 6057 Glass Safety Filter: Protects the user from the lamp's intense UV spectral lines, completely blocks the 253.7 nm Hg line and attenuates the 312.6 nm line

Three Available Aperture Shields



When the radiation area of the lamp must be limited, Oriel offers three aperture. These aperture shields simply slide over the pencil calibration lamp and limit the lamp's output with the following aperture dimensions:

- 6038 Pinhole Shield: 0.040 inch (1 mm) diameter
- 6039 Small Aperture Shield: 0.313 x 0.375 inches
- 6040 Large Aperture Shield: 0.188 x 1.50 inches

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