

low-pressure mercury lamp (arc)

Resonance lamp that contains mercury vapour at pressures of about 0.1 Pa (0.75×10^{-3} Torr; 1 Torr = 133.33 Pa). At 25 °C, such a lamp emits mainly at 253.7 and 184.9 nm. They are also called germicidal lamps. There are cold- and hot-cathode as well as cooled electrode-less (excited by microwaves) low-pressure mercury lamps. The Wood lamp is a low-pressure mercury arc with an added fluorescent layer that emits in the *UV-A* spectral region (315–400 nm).