

In general compact fluorescent lamps are less efficient than linear lamps, but because of their small size, they are suited to many applications where a smaller lamp is needed. Some of the lamps have the control gear built into them and can be retro-fitted into GLS lamp sockets.

3.3.4 High pressure mercury

In this type of lamp a discharge takes place in a quartz discharge tube containing mercury vapour at high pressure (2 to 10 atmospheres). Some of the radiation from the discharge occurs in the visible spectrum but part of the radiation is emitted in the ultraviolet. The outer bulb of the lamp is coated internally with a phosphor that converts this UV radiation into light. The general construction of the lamp is shown in Figure 3.19 below.

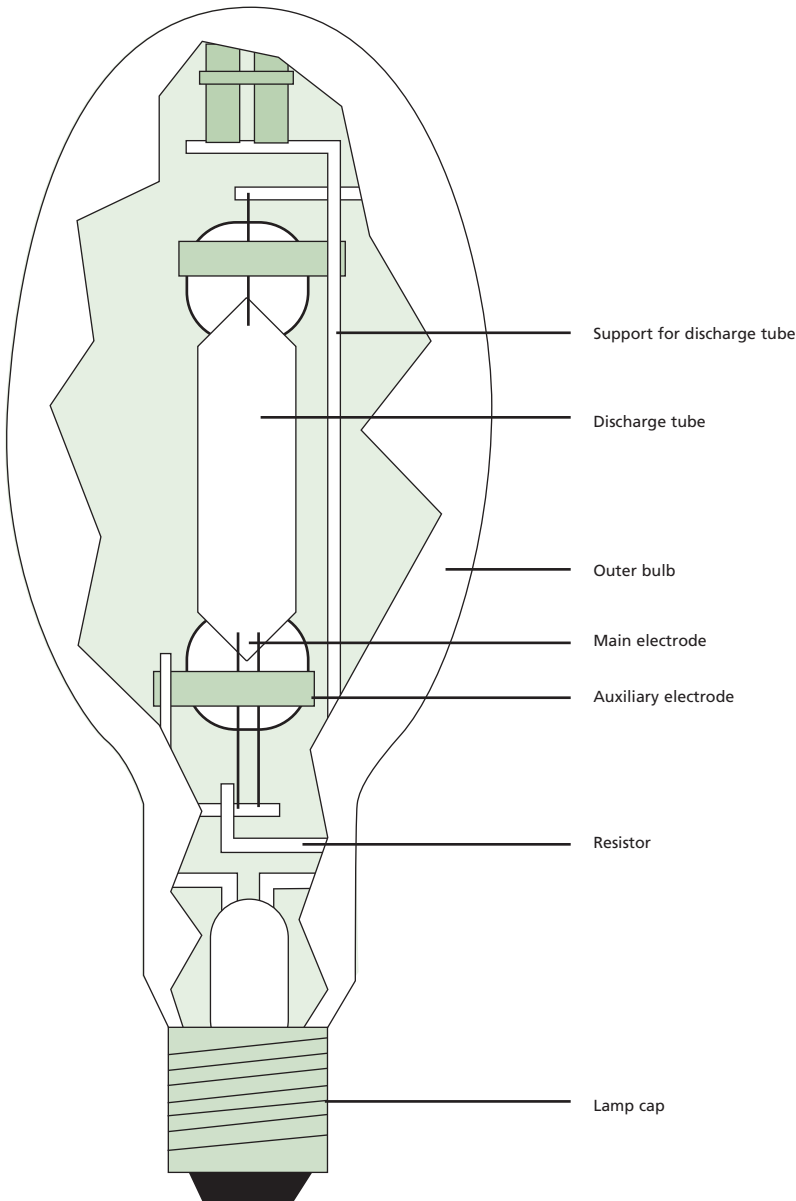


Figure 3.19 Construction of a high pressure mercury lamp