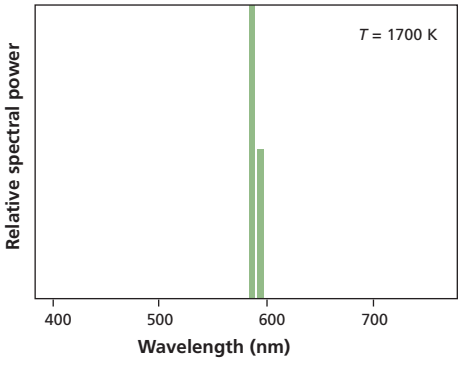
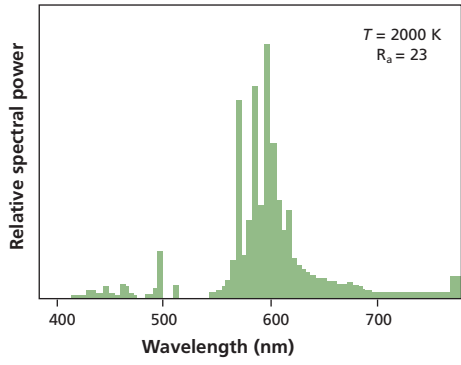


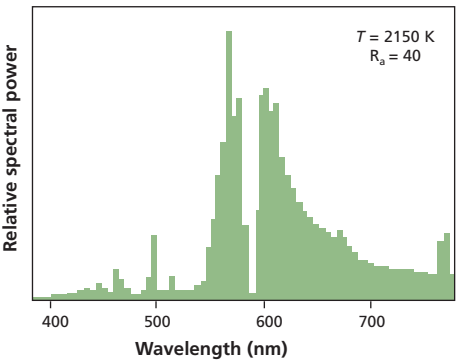
Figure 3.24 The spectra of sodium lamps with different vapour pressures of sodium



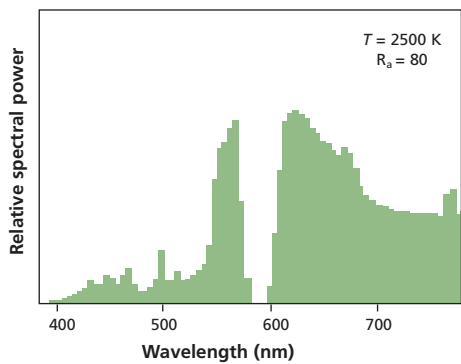
Low pressure sodium lamp; sodium vapour pressure 0.7 Pa



Standard high pressure sodium lamp; sodium vapour pressure 10 kPa



Colour improved high pressure sodium lamp; sodium vapour pressure 40 kPa



White high pressure sodium lamp; sodium vapour pressure 95 kPa

As the vapour pressure rises the colour rendering of the lamp increases. However, this is at the expense of efficacy in terms of lumens per watt. Figure 3.25 shows the construction of a high pressure sodium lamp.

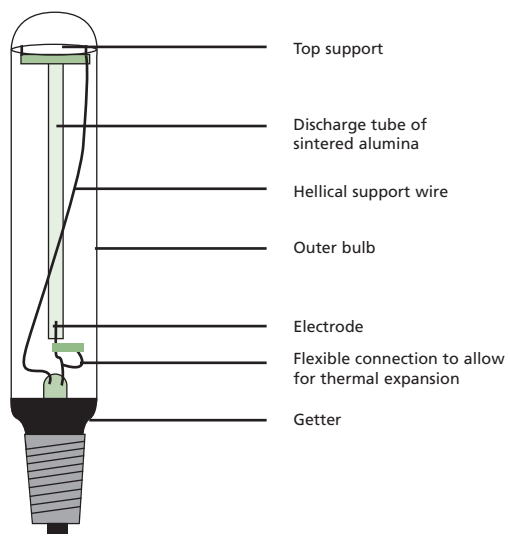


Figure 3.25
The construction of a high pressure sodium lamp