

Radiation Cans

Your set of radiation cans are made from the same material but of different colours.
Dimensions : diameter 53mm, height 153mm.

Using the Radiation Cans

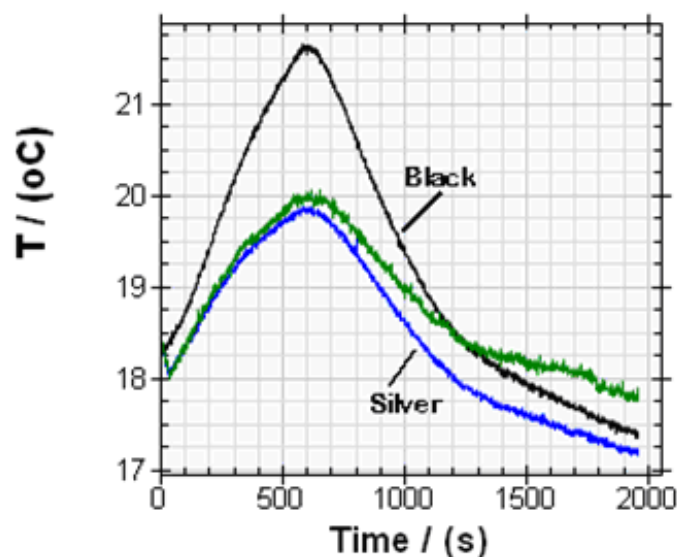
djb microtech recommend the following to get the best results using the radiation cans.

- Connect three temperature probes to your data logger. Using thermometers will also work but they do not have the same resolution as the data logger.
- Using liquid soap push the probes through the rubber stoppers such that they will reach at least half way down the can.
- Stand the cans side by side on the bench.
- Place an anglepoise lamp with a 60W bulb about 50-70 cm away from the centre can.



- Set your data logger to take readings every second and switch on the lamp. Typical results are shown below. If you have a fourth probe you could use it to monitor the room temperature.

Absorption & Radiation



- After a while switch off the lamp and let the cans cool. The gradient of each graph will show the rate of cooling. With younger children it would perhaps be better if they used their graph to find how much the temperature of each can fell in five minutes.

Using this method works much better than using water in the cans. It is thought that this may be due to the different frequencies of the radiation.

djb microtech ltd, Delfie House, 1Delfie Drive, Greenock, Scotland, PA16 9EN
Phone/Fax: 01475 786540, Email: info@djb.co.uk, Website: www.djb.co.uk