



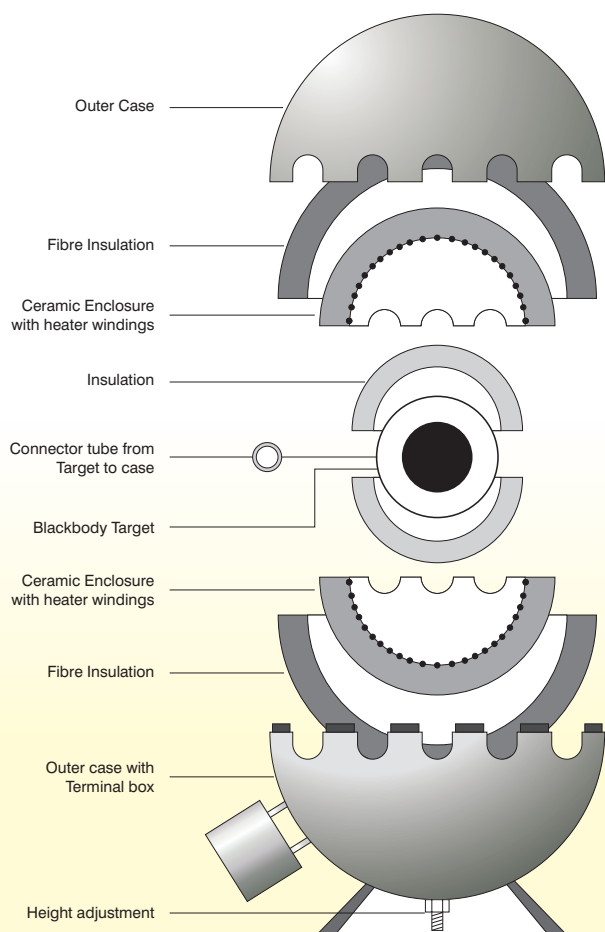
100 to 1300°C

- Spherical Blackbody Source
- Wide Temperature Range 100°C to 1300°C
- Can be adapted for Thermocouple Calibration

The Cyclops Model 878 is a spherical blackbody source. It consists of an inner black sphere that sits inside a spherical furnace and is suitable for use as a radiation source for infrared thermometers.

The inner sphere has a nominal diameter 230mm and is accessed by an optical sighting tube. The furnace can be supplied in one of two constructions, one providing an aperture size of 17mm and one of 45 mm.

The furnace can be adapted for thermocouple operation by replacing the inner sphere with an equalizing block and using a different control sensor.



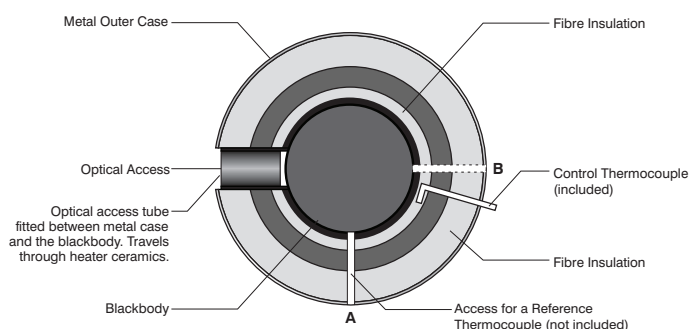
The external control system uses power feedback to stabilise against supply voltage changes providing greater stability. A digital filter circuit ensures high integrity of measurement, correcting for drift and noise



Blackbody Source Cyclops



Cyclops Assembly Diagram Plan View (shown in section)



Model	878
Temperature Range	100°C to 1300°C
Emissivity	Greater than 0.999
Stability	±0.1°C
Display resolution	0.1°C to 999.9; 1°C from 1000 to 1300
Time to temperature	90mins hour to 700°C 4 hours to 1300°C
PC Interface	included
Power	3kW typical
Voltage	100-130 or 208-240 Vac 50/60Hz
Dimensions	425mm Diameter
Weight	25 kg

Options

Ceramic Equalising Block to accept up to 8 thermocouples 878-02-08.

How to Order

Model 878 Cyclops. Please state supply voltage required
Please state target diameter either 17mm standard or 45mm to special order.

Reference Thermocouple Access Point is at position A as Standard, specify if required at point B.
State Target Diameter 17 or 45mm