



# Resistor Maintenance Bath Model 455

- Wide Temperature Range
- +/-0.005K Stability / Gradients
- Will House Several Standard Resistors

As a result of many years development, Isothermal are now able to offer a temperature controlled Standard Resistor Maintenance Bath. Using Peltier heating/cooling modules, temperatures 20°C either side of ambient temperature may be set to a resolution 0.01°C.

Stability and temperature differences total less than  $\pm 0.015K$  when measured directly in the oil of the bath and  $\pm 0.003K$  when measured inside a Fixed Standard Resistor.

The bath will house several Resistors depending on their size and is ideal for measuring the temperature coefficients of Fixed Resistors, as well as maintaining them at a selected temperature.

The oil used in the bath is very special, it has to be very high resistance and very low viscosity. Wrong choice of oil will cause larger temperature gradients and may cause the motor to burn out.



Model	455
Temperature Range	Dew point to 40°C
Accuracy	$\pm 0.005^\circ\text{C}$ stability and gradients
Control	0.01°C Resolution
Power	15w typical, 100-130 or 208-240VAC*, 50/60Hz * field changeable
Dimensions	Height 910mm Width 635mm Depth 710mm Weight 66kgs

**Accessories**  
932-19-72 35 litres of special oil

**How to order**  
455 Standard Resistor Maintenance Bath  
Please specify voltage required  
Please specify number and type of Resistors



Internal Assembly