

# Metal Block Thermostat



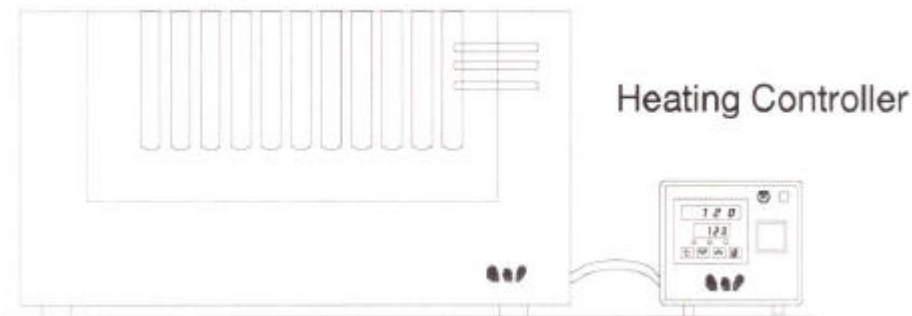
Materials Testing & Laboratory Equipment

## Metal Block Thermostat Vacuum Test (Tallian)

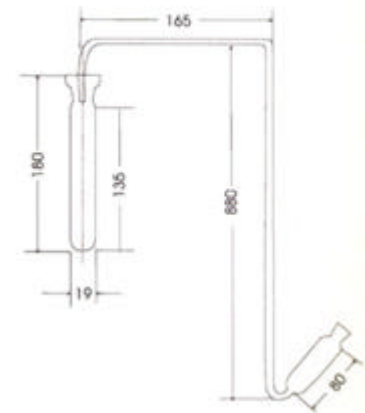
Apparatus for determining the thermal stability of nitro cellulose and nitro-compounds, single and double base propellants according to the Vacuum Test.

Principle of the metal block thermostat:

### Heating Block with 15 bore holes



### Glass Assembly



The equipment is consisting of:

- Heavy aluminium heating block, electrical heated; 15 holes 19.5 mm diam., depth 150 mm; temperature sensor: PT100 probe excess temperature safety device
- Programmable heating controller (PID) in a separate control box, length of the power cable: appr. 2m; digital display for actual and set temperature; control accuracy:  $\pm 0.1^{\circ}\text{C}$  max. Adjustable temperature:  $140^{\circ}\text{C}$
- Set of test 15 test tubes consisting of the cylindrical test tube with mercury collar, capillary tube and cup; Dimensions of the test tube: diam. 19 mm x 180 mm
- Rack for filling glass assembly with mercury

Main connections: 230 V / 50 Hz

Optional Accesory:

Vaccum pump 4 stage diaphragm pump IP44  
max. Vacuum:  $<0.5$  mbar  
max suction capacity: 13l/min

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