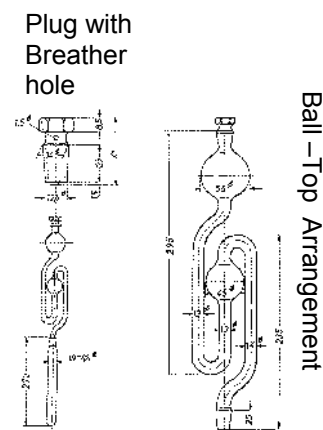
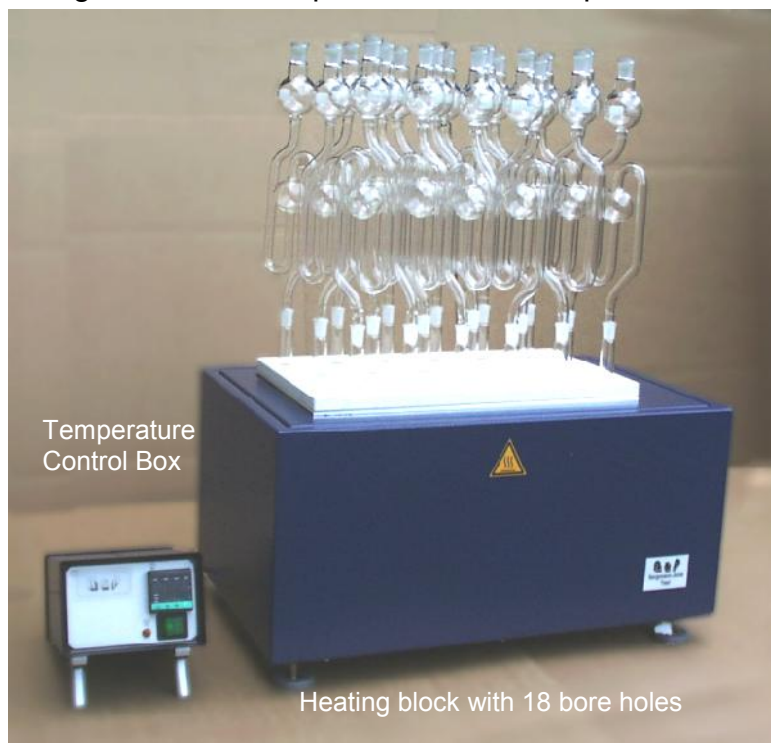


Bergmann-Junk Test

Apparatus for determining the thermal stability of nitro-cellulose and other nitrocompounds, single and double base propellants according to the Bergmann-Junk Test at 120°C or 132°C (STANAG 4178 5C).

The Bergmann-Junk Test is based on quantitative determination of nitrogen oxides evolution during thermal decomposition of the sample.



The equipment consists of:

- Heavy aluminium heating block, electrical heated; ISO insulation plate 18 holes $19,75 \pm 0,2$ mm \varnothing , depth $200 \pm 0,2$ mm; temperature sensor: PT100 probe; excess temperature safety device fixed at 150°C
- Programmable heating controller (PID) in a separate control box, length of the power cable: appr. 2 m; digital display for actual and set temperature; control accuracy: $\pm 0,1^\circ\text{C}$; adjustable temperature range: RT to 135°C
- Set of 18 test tubes consisting of the cylindrical test tube with ground-in neck and ball-top arrangement; dimensions of test tube: $\varnothing 19,0 \pm 0,5$ mm x 270 ± 2 mm
- Special rack for handling the test tubes during filling, attachment of the ball-top or intermediate storage before titration
- Special daylight lamp for better detection of nitrous vapours; special fluorescent lamp providing non-dazzling illumination; solid support stand for exact positioning of the lamp

Main connections: 230 V / 50 – 60 Hz

Power consumption: 2400 VA