

Flammability test rig

Description:

The flammability rig comprises two major assemblies:

1. An array of six propane gas burners and the means to control the gas supply to them
2. A supporting fixture for the test sample, incorporating an electric motor and mechanical drive mechanism, which enable the test sample to be passed through the flame(s) at given range of speeds.

The gas is supplied to each of the burners from a cylinder of propane (not included), via a shut-off valve, flowmeter and manifold. Each burner incorporates its own flow control valves for both gas and ambient air. The vertical position of each burner is adjustable, in order to enable setting the required distance from the burner tip to the sample under test.

The supporting fixture for the test sample consists of two arrangements. One is a cast aluminium dummy head, upon which complete masks may be fitted. The other is a finger clamp, which is suitable for securing materials, components, etc. Adjustment is provided so as to enable the sample to be positioned vertically at the correct height above the burners and horizontally to ensure that the sample is located over all of the burners (or just one of them), as specified in the relevant product test standard.

Typically the rig is operated in either of two modes – with the motor switched off (six burner test and single burner static test) or with the motor speed controller adjusted so that the sample passes through the flame of only one of the burners at a specified speed.

Services required:

Floor mounted. Propane gas. 230 or 115 vac, 50 / 60Hz mains electricity. Please specify.

Approximate packed size & weight: 120 x 80 x 80 cm : 70 kg

Relevant standards: ENs 136 / 140 / 149 etc

Delivery: 8 weeks from receipt of order and deposit

Effective: May 2008

