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Product Name :
Pressure and Temperature Vessel Bench

Product Code :
LBNY-0005-1630002



Description :

The steam bench includes a 2- pen chart recorder to provide a continuous recording of the process variables, namely temperature and pressure and gives students the opportunity to become familiar with the presentation of such data on a typical process recorder used in industry. Pressure and Temperature Steam Bench consists of a sturdy framework and panels of all steel construction, fitted with a student work surface, interconnecting back panel and adjustable feet.

Experimental Capability:

To compare the experimental observations with published data such as in steam tables.
To investigate the relationship between the temperature and pressure of saturated steam.

Technical Specification :

Steam supply to the pressure vessel is to be from a fully insulated steam header with supply branch fitted with a combined isolating and control valve. The bench is to comprise of a mild steel pressure vessel welded in accordance with designed for a working pressure of 10.34 bar and a maximum steam temperature of 235C and fitted with a type K thermocouple driving a 0-250C analogue temperature indicator, a pressure measuring point coupled to a 0-16 bar Bourdon type pressure gauge, a 0-250C mercury in steel type V temperature sensor and a pressure measuring point coupled to a circular mechanically driven 2-pen chart recorder and a blowdown line complete with a combined isolating and control valve connected to the bench blowdown line. The forgoing are to be installed on a sturdy frame and panels of all steel construction complete with service facilities relating to water supply, blowdown and drainage.



Laboratory Instrument India