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Product Name :
Process Plant Steam Bench

Product Code :
LBNY-0005-1630007



Description :

Incorporates a low pressure steam feed line including a VeeReg isolating valve, a 1 to 3 bar pressure reducing valve, a pressure relief valve set at 3.5 bar and temperature and pressure measuring points; a process fluid circuit constructed from high strength borosilicate glass components, including a reboiler equipped with a temperature measuring point, a separator with a rubber filler stopper and outlet baffle plate, a condenser, a drain valve, joint couplings and joint gaskets, reboiler blowdown pipework fitted with a flexible stainless steel braided hose complete with boiler joint adaptor flange and including a Vee-Reg isolating valve, steam trap and non-return valve; condenser cooling water feed line complete with control valve and pressure measuring point and cooling water drain line with non-return valve and pressure safety valve, set to vent at 2.5 bar. Process Plant 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:

Demonstration of cumulative effect on thermosyphon reboiler boiling rate, and of the boiling off of process fluid lighter fractions.

Demonstration of a thermosyphon reboiler, using water as the process fluid and steam as heating fluid.

Technical Specification :

The bench comprises: a low pressure steam feed line, including a Vee-Reg isolating valve, a 1 to 3 bar pressure reducing valve, a pressure relief valve set at 3.5 bar and a temperature and pressure measuring points; a process fluid circuit constructed from high strength borosilicate glass components including a reboiler equipped with a temperature measuring point, a separator with rubber filler stopper and outlet baffle plate, a condenser, a drain valve, joint couplings and PTFE joint gaskets; reboiler blowdown pipework fitted with a flexible stainless

steel braided hose complete with boiler joint adaptor flange and including a Vee-Reg isolating valve, steam trap and non-return valve; condenser cooling water feed line complete with control valve and pressure measuring point and cooling water drain line with non-return valve and pressure safety valve, set to vent at 2.5 bar. Steam bench designed to visually demonstrate the use of steam for heating fluids in the process industry.



Laboratory Instrument India