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Product Name :	**Product Code :**
Heat Distribution And Control In Heating Systems	LBNY-0005-12500018

Description :

The simple heating circuit with one subcircuit contains two flat radiators and is controlled by a temperature-led controller. A three-way mixing valve is the actuator. A complete domestic heating system can be set up using the trainer together with a hot water generator, Hot water passes through the radiators and heats the room air. It contains two heating circuits. A simulator is supplied for varying the outside temperature. The heating circuit with two subcircuits contains four radiators and two heating controllers. Both heating circuits are equipped with commercially available heating technology control devices. Solenoid valves enable control of the heat distribution in the two subcircuits. Each heating circuit contains a circulating pump.

Learning objectives/experiments:
Hydronic balancing of heating circuits with multiple radiators
Function and design of commercially available heating technology components
Design of a room heating system with controller and actuator
Temperature-led heating controller (outside temperature) with three-way mixing valve
Measurement of differential pressures, temperatures and flow rates
Energy calculation and evaluation of emitted heating capacity based on measured quantity of heat
Simulator for varying outside temperature
Function and design of a room heating system divided into sections
Reading and comprehension of symbols and process schematics

Technical Specification :

Heating circuit (B) with 2 subcircuits contains 4 radiators, 1 circulating pump, 2 heating controllers, 2 solenoid valves

Heating circuit (A) with 1 subcircuit contains 2 flat radiators, 1 circulating pump, 1 heating controller with 3-way mixing valve and simulator for variation of outside temperature
Flow control valves for hydronic balancing in heating circuit with 2 subcircuits measurement of flow rate and pressure
Together with hot water generator: setup of a complete domestic heating system with 2 independent heating circuits
Hot water connections with quick-release couplings
9 measuring points for differential pressure and temperature.