



Email : sales@laboratoryinstrumentindia.com

**Product Name :**  
Comparison Of Different Heating Types

**Product Code :**  
LBNY-0005-12500016



#### **Description :**

It contains two heating circuits. Both circuits are equipped with commercially available heating technology control devices. Each heating circuit contains a circulating pump. A digital, temperature led heating controller controls the heating circuit with floor heating. A three-way mixing valve is the actuator. The second heating circuit contains a forced convector with temperature controller, a radiator with thermostatic valve and a radiator with one-pipe radiator valve. 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.

#### **Learning Objectives/Experiments:**

Design of a room heating system with forced convector with temperature controller  
Function and design of commercially available heating technology components  
Design of a floor heating with controller and actuator  
Measurement of differential pressures, temperatures and flow rates  
Temperature-led heating controller (outside temperature) with three-way mixing valve  
One-pipe radiator valve  
Energy calculation and evaluation of emitted heating capacity  
Reading and comprehension of symbols and process schematics  
Design of a room heating system with radiators  
Thermostatic valve.

#### **Technical Specification :**

Heating circuit with floor heating, circulating pump, heating controller, and 3-way mixing valve  
Heating circuit with forced convector with fan, 2 radiators and circulating pump

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Together with hot water generator: setup of a complete domestic heating system with 2 independent heating circuits

Measurement of flow rate and pressure

Hot water connections with quick-release couplings

1 radiator with thermostatic valve and 1 radiator with 1-pipe radiator valve

Room temperature controller for fan of forced convector.



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