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**Product Name :**  
Temperature Control Demonstration Unit

**Product Code :**  
LBNY-0005-12700078



#### **Description :**

Primary circuit with electrically heated tank, pump control valve, rotameter  
Secondary circuit with fresh water connection, temperature transducer, rotameter  
Experimental unit for control engineering experiments  
Control valve: electromagnetic proportional valve  
Digital industrial controller, freely parameterisable  
Large process schematic on front panel  
Temperature control with plate heat exchanger and 2 water circuits  
Process variables X and Y accessible as analogue signals via lab jacks  
Ball valve to generate disturbance variables in fresh water circuit  
Plate heat exchanger, 30 plates.

#### **Technical Specification :**

Pump, 3-stage  
Max. head: 6m  
Power consumption: 90W  
Max. flow rate: 83L/min  
Tank  
Capacity: 15L  
Stainless steel  
2x dial-gauge thermometers (bimetal type): 0...80°C  
2x rotameters: 30...320L/h  
Temperature sensor: Pt100: -50...400°C

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Electromagnetic proportional valve: Kvs: 0,8m<sup>3</sup>/h  
Digital controller, can be parameterised as P, PI or PID controller  
Heater  
Power output: 2kW  
Thermostat: 20...80°C.



**Laboratory Instrument India**