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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

Electromagnetic proportional valve: Kvs: 0,8m³/h
Digital controller, can be parameterised as P, PI or PID controller
Heater
Power output: 2kW
Thermostat: 20...80°C.



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