

HEAT EXCHANGER CONTROL

A complete setup to study the control of temperature in a heat exchanger by controlling the flow rate

PROCESS DESCRIPTION:

Objective:

The Process setup consists of Hot water tank & Cold-water tank fitted with pump for the water circulation & Rotameters, four temperature transmitters fitted on inlet and outlet side of the heat exchanger, Pneumatic valve is connected with I to P converter to control the flow rate of hot water.

Experiments:

1. To Study the response of the P, PI, PD, PID Controllers
2. Response of Auto, Manual, Direct, Reverse mode of controllers, study of PID tuning parameters
3. Study of performance of Heat Exchangers, and sensors like RTD.

