Feedback

Engineering Teaching Solutions

PROCON – Forced Air Cooler 38-610

Optional Equipment for Temperature Process Control 38-002 & 38-003

This equipment is designed to be used with the Temperature Trainer, or between the Temperature and Level and Flow Trainers to maintain a constant fluid input temperature.

The 38-610 Forced Air Cooling Unit is designed to extend the operating range of the Feedback Temperature Control Rig and allow the direct control of its operating characteristics.

The 38-610 consists of an electric pump and a fan and radiator unit to cool the circulating water. The Unit may be initially charged through the header tank which should be kept topped up to avoid ingress of air.

There are two signals which may be applied for controlling the degree of cooling. The speed of the fan may be controlled by submitting a 4-20mA current into the top DIN socket of the control section. The speed of the pump may be similarly varied by inputting a 4-20mA signal through the separate adjacent DIN socket. The speed of the pump and fan are then controlled via phase controlled circuitry taking as its input the 4-20mA signal. Alternatively the fan and the pump may be set to continuous for full speed operation.

Optional Accessory

Water Pressure Regulator 38-481 (Required for direct mains operation)

Features

- Maintains constant temperature for fluid input
- Maintains constant temperature for fluid input
- Enables quick response times in temperature reduction
- Variable speed fan
- Variable speed pump

Curriculum Coverage

- Familiarisation
- Use as a manually controlled cooler
- Temperature control by varying fan speed
- Temperature control by varying pump speed
- Temperature control by varying secondary flow

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