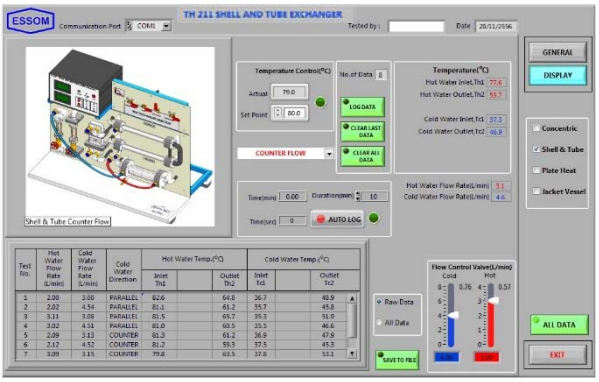
TH 212 SHELL AND TUBE HEAT EXCHANGER, Transparent Casing



GENERAL DESCRIPTION:

The apparatus is used for studying heat transfer through a shell and tube heat exchanger under parallel or counter flow conditions.

The unit consists of a shell and tube heat exchanger, and a service module. The module comprises a hot water tank with a transfer pump and instruments for monitoring and control. Parallel and counter flow is selected by switching cold water hoses with quick coupling. The unit requires outside water supply.

Instruction manual is also included.

EXPERIMENT CAPABILITIES:

- Demonstration of heat transfer under parallel and counter flow.
- Determination of heat transfer coefficient.
- Effects of flow rate and temperature difference.

TECHNICAL DATA:

- Construction arrangement : Stainless steel inner tubes with transparent casing (borosilicate glass)
- Service module consisting of:
  - Hot water pump.
  - Heater : 3000 W.
  - Flow meters : Hot water
    : Cold water
  - Temperature control unit to limit temperature of hot water to not more than 80°C
- Software for data display and analysis by computer (separately supplied).
- Power supply : 220 V, 1 Ph, 50 Hz. Other power supply is available on request.

OPTIONAL EQUIPMENT

- Copper tubes instead of stainless steel tubes.
- TH 010 Flow digital display.
- TH 211-050 Computer Interface
  Sensors with computer interface unit for key data acquisition instead of analog data measuring instruments. This includes computer interface unit with water flow sensors instead of rotameters.
- TH 211-060 Computer Control
  This includes flow control motors, water flow sensors instead of rotameters, computer interface unit, and additional software for control by computer (separately supplied).

- Other optional equipment, please contact manufacturer (essom@essom.com)

Net (unpacked) shipping dimensions WxLxH : 50 x 84 x 65 cm
Net weight : Approx. 33.5 kg

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