

# THERMODYNAMIC TRAINER

Model Number : GOTT-TDT-E22



## DESCRIPTION :

This GOTT-TDT-E22 is designed to give a student study of the exchange of heat and the technology of heat exchangers.

This trainer consists of a base unit that will supply all the instruments to carry out tests on four types of heat exchangers: Water/air radiator type for heating, water/air + fan fan-coil exchanger for heating and cooling, water/water double tube exchanger, reversed flow and water / water shell and tube exchanger type .

## SPECIFICATION

- Two centrifugal pump for hot water and cold water.
- Heater for hot water.
- Electronic thermostat.
- Valves.
- Flow meters.
- Pressure gauges.
- Four types of heat exchangers: steel radiator type, fan-coil exchanger, tube-in-tube (double tube) exchanger and shell-and-tube exchanger
- Instrument panel with system controls, ELCB and MCB as safety device from the over current and from the earth leakage

## EXPERIMENT TOPICS

- Measurement of the temperatures of the water and air at different points of the exchanger.
- Measurement of the temperatures of the water and air before and after the exchanger.
- Determination of the capacity of heat exchanged.
- Measuring the pressure drop of hot water before and after the exchanger.
- Measuring the pressure drop of cold water before and after the exchanger.
- Comparing types of heat exchangers.
- Measuring the flow of ratio of water and air and determining the best velocity of the water flow and air flow .

## Manuals :

- (1) All manuals are written in English.
- (2) Model Answer
- (3) Teaching Manuals

## General Terms :

- (1) Accessories will be provided where applicable.
- (2) Manual & Training will be provided where applicable.
- (3) Design & specifications are subject to change without notice.
- (4) We reserve the right to discontinue the manufacturing of any product.

## Warranty :

2 years

## ORDERING INFORMATION :

ITEM	MODEL NUMBER	CODE
THERMODYNAMIC TRAINER	GOTT-TDT-E22	137-000

\* Proposed design only, subject to changes without any notice