



HEATING, VENTILATION AND AIR CONDITIONING CONTROL AND FAULT SIMULATOR 814B



Features

- · Self contained demonstration and fault finding teaching unit
- Demonstrates Heating, Ventilation and Air Conditioning
- Controls and System Components
- Temperature Potentiometers
- Compact Case Easy to Carry and Store

Description

The Heating, Ventilation and Air Conditioning Control and Fault Simulator, Model 814b, enables the study and operation of various controls and control theory as applied to heating, ventilation and air conditioning systems. It enables the user to simulate different conditions to show how the various components work in a control scheme. Designed for single phase operation the demonstration case is divided into two main boards: a) Mimic Diagram with room temperature potentiometers b) Control board with programmable controllers and Modules. Indication lamps have been fitted to show pump change over, fan trip filter blocked, etc. Bar graphs on the dampers and control valves light up to indicate whether open or closed - i.e. what position they are in.

Learning capabilities

- The unit allows students to study the operation of various controls related heating, ventilation and air conditioning
- Allows students to simulate different conditions and show how components influence outcomes
- Allows faults to be set so that students can be tasked with their solution



Technical Specification

- The following functions and key components can be simulated with this unit:
- Heating, Ventilation and air Conditioning
- Fresh air, recirculation and extract dampers
- Filter
- Cooling coil
- Heating coil
- Supply fan
- Extract fan
- Low limit control
- Temperature control
- Chiller plant
- Chilled water pumps
- Constant temperature pumps
- 2 Boiler sequence control
- Compensated heating valve
- Variable temperature pumps
- Flow sensor
- Outside sensor
- Boiler flow sensor
- · Domestic hot water control
- Diverting valve
- Secondary pump
- Temperature sensor
- Frost protection
- · Outside sensor
- Return sensor
- Room Sensor (Anti condensation)

What's in the Box?

- 1 x Heating, Ventilation, Air Conditioning Control and Fault Simulator
- 1 x Operational manual

Weights & Dimensions

- Net dimensions: 570mm x 430mm x 360mm
- Net weight: 8kg

Essential Services

- 220-240 Volts, Single Phase 50Hz (With earth/ground) or
- 110 -120 Volts, Single Phase 60Hz (With earth/ground)

Ordering information

To order this product, please call PA Hilton quoting the following codes: 814B/230 - Heating, Ventilation, Air Conditioning Control and Fault Simulator 814B/115 - Heating, Ventilation, Air Conditioning Control and Fault Simulator

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