



# DIGITAL TEMPERATURE INDICATOR R634A



Year 1 study

## **Description**

The optional temperature indicator consists of a multi way type K digital temperature indicator with 8 rod type K thermocouples. These replace the 7 red spirit thermometers supplied with the standard R634 unit. The digital temperature indicator fits in place of the blank indicator panel in the centre of the unit. The addition of the digital temperature indicator not only increases the resolution of temperature measurements from 0.5°C to 0.1°C but a thermocouple sensor is provided to record the temperatures of the liquid in the base of the condenser chamber. The additional temperatures allow a complete vapour compression cycle diagram to be produced on a refrigerant SES36 pressure—enthalpy diagram.

## **Related Laws/Applications**

- Food and Drug preservation
- Air conditioning
- Heat pumps
- Industrial process
- Commercial process
- Refrigeration

## Learning capabilities

- Demonstration of the vapour compression refrigeration and heat pump cycle with visual observation of all-important processes.
- Investigation and demonstration of the pressure-temperature relationship during evaporation and condensation.
- · Demonstration of :
- · Charging
- Pumping over or pumping down the refrigerant charge into the condenser.
- - The effect of air in refrigeration systems.
- Determination of effect of evaporating and condensing temperatures on the refrigeration rate and condenser heat output.
- Investigation of the effect of compressor pressure ratio on system performance.
- Determination of overall heat transfer coefficient in a simple shell and tube type heat exchanger.

## **Technical Specification**

0.1°c Resolution

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#### **Essential Ancillaries**

• R634

#### **Recommended Ancillaries**

- R634B
- R634R

#### What's in the Box?

- 1 x Digital Temperature Indicator
- 8 x Type K thermocouple sensor
- 1 x 2m Electrical cable
- Fixings
- 1 x Can of light oil
- · Packing list
- Test sheet
- · Wiring diagram

### **Essential Services**

• R634

## **Ordering information**

To order this product, please call PA Hilton quoting the following code: R634A

**COUNTRY OF ORIGIN - UK WARRANTY PERIOD - 5 YEARS**