



## HEAT PIPE INVESTIGATION MODULE H352E



Year 1  
study

### Description

Heat Pipes are used in many applications in order to transfer heat rapidly from one location to another. When compared with equivalent cross sections of even high conductivity materials, such as copper and silver, heat pipes are many more times effective. The H352E consists of a heated plate mounted on a plastic carrier designed to fit the H352 duct aperture. The power cable attached to the plate plugs into the H352 Control Console. The plate may be installed in the duct and secured by four plastic fluted nuts. The plate has an electric heater mat rated at 100W at 70V. The H352 Control Console provides thermostatic protection against overheating. The heater surface temperature is continuously monitored and displayed by the temperature indicator when plugged in to the console. The plate has a number of deep drilled holes that may be filled with three types of rod; aluminium plugs; heat pipes with finned ends; finned aluminium rods.

### Related Laws/Applications

- Mechanical Engineering
- Nuclear Engineering
- Chemical Engineering
- Control and Instrumentation
- Plant and Process Engineering
- Building Services
- Engineering Physics
- Refrigeration
- Marine Engineering

### Learning capabilities

- Demonstration of heat pipe applications in free convection and investigation of free convective heat transfer to air from a vertical flat plate with and without heat pipe or conducting rod enhancement.
- Demonstration of heat pipe applications in forced convection and investigation of forced convective heat transfer to air from a vertical flat plate with and without heat pipe or conducting rod enhancement.

**Technical Specification**

- Plain heat area: 125mm x 150mm
- Heat pipes and rods: Ø9.5 x 150(L) mm

**Essential Ancillaries**

- H352

**Recommended Ancillaries**

- H352A
- H352B
- H352C
- H352D
- H352F
- H352G

**What's in the Box?**

- 1 x H352E
- Instruction manual
- Packing List
- Test Sheet

**You might also like**

- H352A
- H352B
- H352C
- H352D
- H352F
- H352G

**Weights & Dimensions**

- Weight: 6.5 kg
- Length: 210mm
- Width: 80mm
- Height: 200mm

**Essential Services**

- H352

**Ordering information**

To order this product, please call PA Hilton quoting the following code:  
H352E

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COUNTRY OF ORIGIN - UK WARRANTY PERIOD - 5 YEARS