



How Thermarestor
can protect a
Vending Machine?

NHS
University Hospitals
Plymouth
NHS Trust

Graddons
Your Vending Partners



Devastating effects of a fire in a vending machine

In 2017 Stoke-on Trent College was awarded £265,000 after a fire in a vending machine destroyed the reception area in 2009



What advantage does fitting Thermarestor give?

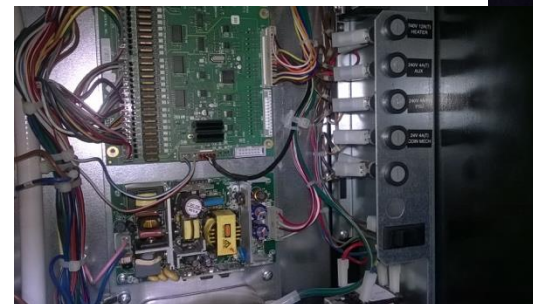
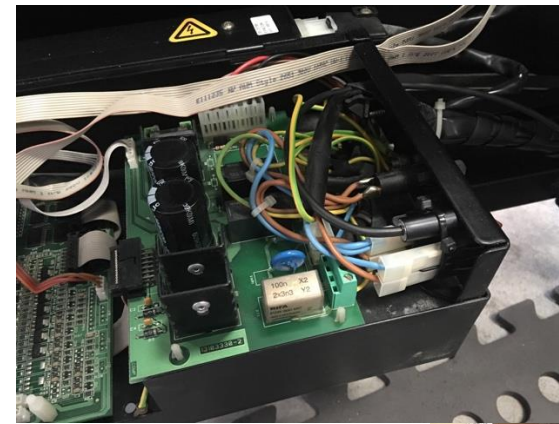
Using Thermarestor protected vending machines on a fire escape route allows the required Fire Risk Assessment level to be achieved

Quote –

“ The Fire Team are keen to see Thermarestors fitted to all vending machines that sit in a means of escape corridors or where appliances are sited in open plan areas that are not staffed 24/7”



Where are the risks in a vending machine?



- Incoming supply connections, ie greatest electrical load
- Plug and socket connections internally
- Printed circuit boards
- Internal heating elements
- Compressors
- Lack of general maintenance

What is a Thermarestor sensor?

Thermarestor gives early warning of a Thermal Event.

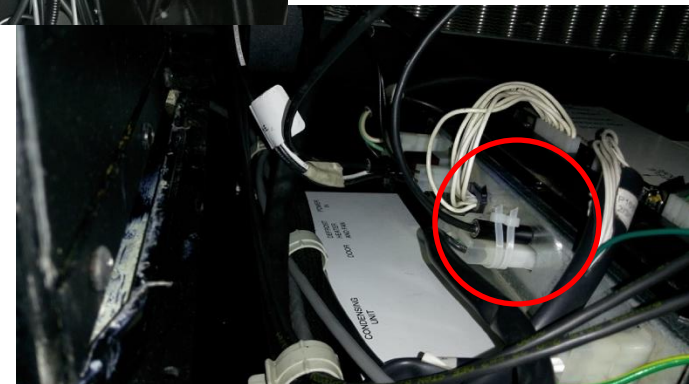
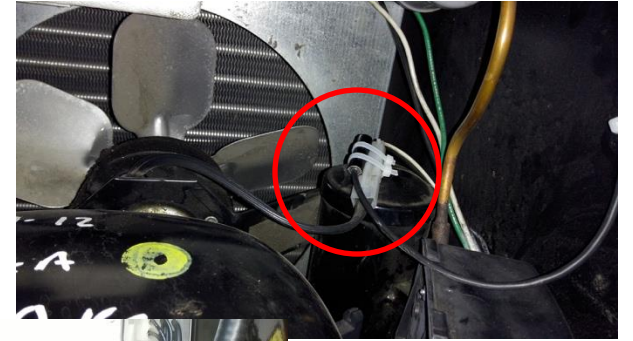
It gives time to investigate a situation BEFORE a fire occurs

Thermarestor is a passive device that senses a thermal event. This is when a heat rise of 80°C ($\pm 5^{\circ}\text{C}$) is detected



The Thermarestor solution Installed

Thermarestor sensors can be installed
at any point in the vending machines
life



Activation

The sensors operate the electrical circuit feeding the vending machine which isolates the circuit.

Maintenance staff then attend to investigate



The future? – its already here

Thermarestor sensors are available on 0 volt versions allowing their connection to the latest data linked vending machines to give real-time operation indication via the off-site operators station

