

Portable Appliance Testing on Denford Machines

The Denford ranges of machines are covered under Class 1 equipment.

If there is a warning label instructing the user **DO NOT PAT TEST** the machine then the **Insulation test must NOT be carried out!**

Before carrying out any testing on Denford machines please ensure all computer equipment is disconnected first. **(Damage could occur to connected equipment due to earth leakage)**

Never leave a **Serial or USB** connection plugged in. Disconnect from any other auxiliary equipment.

Visual Inspection

Check the mains lead to ensure it has the correct fuse fitted

Check the mains lead for signs of damage caused by trapping chafing or cuts.

Ensure wires are correctly fitted and secured within the plug top if the plug is not a prewired sealed unit.

Earth Continuity (Earth Bond)

The earth continuity test can be carried for 2-5 seconds.

Pass level is 0.1 ohm or less.

Insulation Test

This test should not be carried out if Denford have fitted a “DO NOT PAT TEST THIS EQUIPMENT LABEL”

If it is possible to PAT test the equipment without causing damage a label will not be fitted to warn against testing.

When tests are carried out filtration components within the machine may cause erroneous readings for a few seconds so wait a few seconds before taking a reading.

Why the Insulation Test should not be carried out

Some of the electrical equipment fitted within the Denford machines is not suitable for PAT testing and permanent damage can occur if the Insulation test is carried out. These machines will be marked with a label.

To comply with EMC regulations some electrical drives and controls have built in filters or have to have external filters fitted. These filters by design have earth leakage paths within them which would show up as an insulation test fail.

Carrying out the test could damage the circuit within the filters.

Flash Test

Flash testing is **NOT required on a Class 1 appliance** so should not be carried out on Denford Equipment.