

**Soils Drying Ovens
OV070, OV680, OV690**

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Operating Instructions Soil Drying Ovens

UNPACKING

Remove all packaging material from between the shelves and inner walls of the oven.

Remove any strippable film from the outer surfaces before putting the oven into use.

MAINS SUPPLY

Check the voltage and load as shown on the Serial Plate.

240 volt units. Each unit comes supplied with a mains connection lead already fitted with a correctly rated fuse. The fuse rating and other details for each unit are shown on the voltage plate riveted to the back of the unit. It is important that if the fuse needs to be replaced, it must ONLY be replaced with one of the correct rating.

110 volt units are supplied with a cable but without a plug or fuse. Refer to voltage plate for the correct fuse requirement. These units should be wired in by a suitably qualified electrician to the following:-

BROWN 'L' Live pin
BLUE 'N' Neutral pin
GREEN/YELLOW 'E' Earth pin

WARNING --- DO NOT CONNECT THE OVEN TO A D.C. MAINS SUPPLY



MAINTENANCE - ROUTINE CHECKS ON EACH OCCASION OF USE

Check the condition of supply lead and plug top.

Connect to mains supply and check:

Supply switch operation.

A temperature check can be done by using a suitable temperature probe inserted 100mm into the oven chamber via the vent. If the chamber requires a temperature adjustment, see 'Calibration' section in full manual (available by contacting Impact).

PREVENTATIVE MAINTENANCE

Ensure that the unit is maintained in a clean, dry condition and when not in use stored in a normal warm atmosphere.

Minimum recommendation, every six months:

Check the plug top connections are tight and the fuse rating is correct.

Check the operation of the overheat protection system by warming the oven to a set temperature. Then using the Set Point page, set the Set Point temperature 15°C lower. An alarm message should then appear on the screen to show both oven sensor and safety sensor values (image shown on opposite page.) Ensure these are the same and then increase the SetPoint back to its normal condition.

Carry out an electrical safety check (Portable Appliances) using an appropriate appliance tester operated by a competent person.

Check that the control temperature is maintained within limits.

To prolong the element and fan life, disconnect from the electrical mains supply, remove the four screws holding the left hand shelf runner and the seven self-tapping screws holding the bottom cover. Remove the cover and remove any debris round the fan and element. Reassemble in the reverse manner.

GENERAL

Take the normal precautions not to allow water to come into contact with the electrical components.

The outer surfaces can be cleaned with a warm, damp, soapy cloth or any proprietary cleaner suitable for a painted surface. Do not use solvents or harsh abrasives.

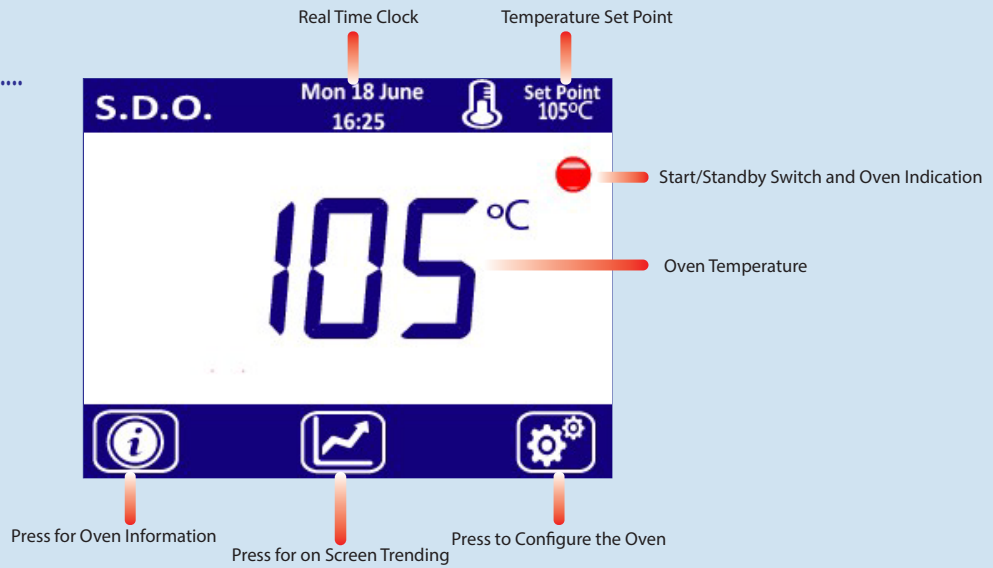
The work chamber may also be cleaned as above.

Before putting the unit into use, set the temperature to 100 °C and switch on for about 24 hours in order to expel any fumes from the thermal insulation used.

Please quote the serial number of the unit for replacement parts (fitting instructions supplied with parts if required).

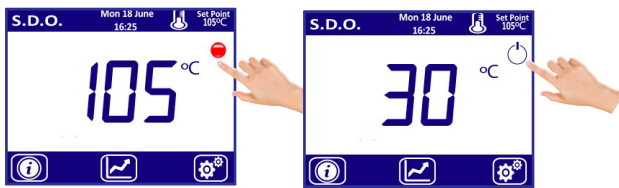
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Run screen explained....



The control system on the Soil Drying Ovens has been pre configured for optimum conditions. We recommend that you do not alter these settings. However, should you need to for calibrations or firmware upgrades please contact Impact.

To Start / Stop the Oven



To turn the oven ON, please use the rotary isolator switch. The oven will automatically start and return to the previous temperature setting.

To put the oven into standby mode so it is not heating, press the red button and the icon will turn to the start symbol shown and begin to cool. The circulation fans remain on during standby mode to cool the chamber quicker. Press the start symbol to start the heat process again.

To Change Set Point



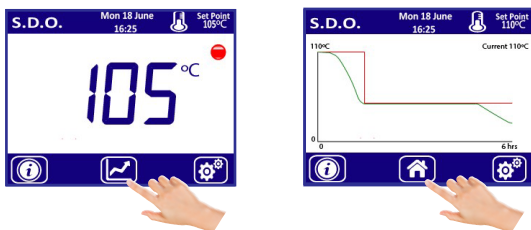
The current Set Point is displayed next to the button.

Press the Set Point Value.

The screen will change to Update Set Point screen.

Change the set point using the up and down keys. If you keep the button pressed, the set point value changes quicker. Save by either pressing the button or leave for 5 seconds.

To View Historical Information



To view the history of the oven, press button.

The red trend line is the Set Point the oven is controlling to and the green trend line is the actual oven temperature history. As default, this is set to 6 hours but can be altered to 2, 12 or 48 hours which is highlighted in the full manual. Data will be lost if power is removed.

Press the key to go back to home screen.

Alarm Conditions / Manual



The oven will indicate if there is a fault.

A safety alarm temperature system is designed into the oven which will remove power to the elements if the oven goes 10 °C above the Set Point. Any alarm messages will appear on the screen.

The oven will return to normal operation once the oven cools below the current Set Point.

