Operating Instructions E3 Drying Cabinets

UNPACKING

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

Remove any strippable film from the outer surfaces before putting the cabinet 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 which is 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 the 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 the supply lead and plug top.

Connect to the mains supply and check:

Supply switch operation.

A temperature check can be done by using a suitable temperature probe inserted 100mm into the cabinet via the vent. If the cabinet requires a temperature adjustment, see 'Calibration' section in the full manual.

PREVENTATIVE MAINTENANCE

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

The following checks are recommended 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 Set Point back to its normal condition.

 - Carry out a portable appliance test (PAT) using an appropriate appliance tester operated by a competent person.

 - Check that the control temperature is maintained within limits.

WARNING: The following precautions MUST be observed:-
Do not place items with excess water into the cabinet, e.g. drain glassware before use.
Do not place the cabinet flush to a wall. A small gap must be left to allow free circulation of air.
Clean off any spillage from the cabinet floor.

THIS UNIT IS NOT SUITABLE FOR USE WITH FLAMMABLE SOLVENTS.

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.
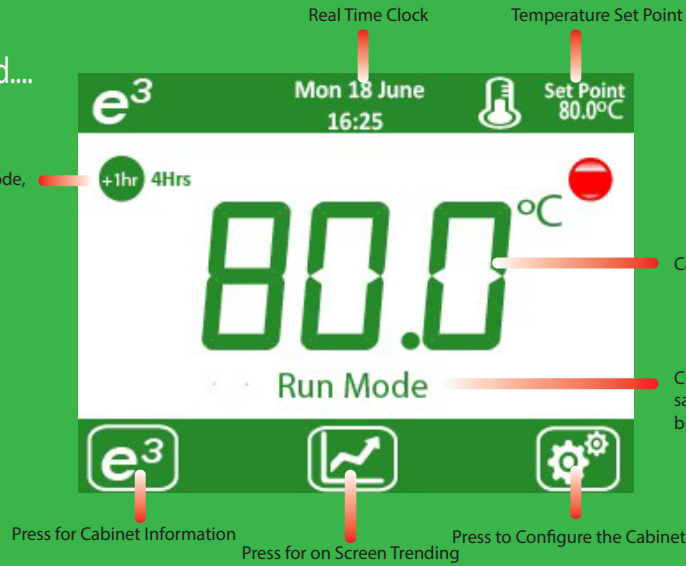
The work chamber may also be cleaned as above.

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Run screen explained....

Real Time Clock

Temperature Set Point

Boost and Extended run time (only appears in energy saving mode, or, 4 hours before end time)

Mon 18 June
16:25

Set Point
80.0°C

+1hr 4Hrs

80.0 °C

Run Mode

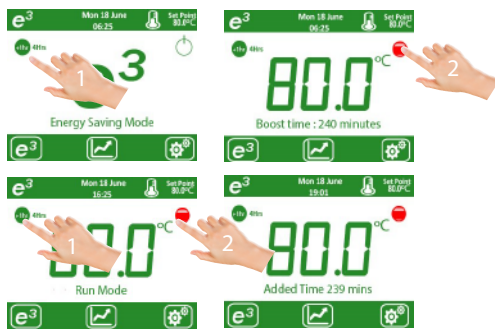**Cabinet Temperature**

Chamber status indication, highlights if in energy saving mode, run mode, and time left when in boost or extended run mode

Press for Cabinet Information

Press for on Screen Trending

Press to Configure the Cabinet

The control system on the E3 Cabinet is designed to be energy efficient. The cabinets will turn warm up in-between the hours of 7am and 7pm Monday to Friday only. The operator can perform a boost start before 7am (or at weekends) or an extended run time after 7pm, however, the cabinet will then reset to default times. If you want to change the default time settings, contact the manufacturer for the password.

To Start / Stop the Cabinet

Mon 18 June 06:25 — Set Point 80.0°C — Energy Saving Mode

Mon 18 June 06:25 — Set Point 80.0°C — 80.0°C — Boost time : 240 minutes

Mon 18 June 16:25 — Set Point 80.0°C — 80.0°C — Run Mode

Mon 18 June 19:01 — Set Point 80.0°C — 90.0°C — Added Time 239 mins

The cabinet will always be in run mode between the hours of 7am and 7pm Monday to Friday. If you don't want to warm the cabinet between these hours, either turn off the unit with the on/off master switch or configure the set point to '0'
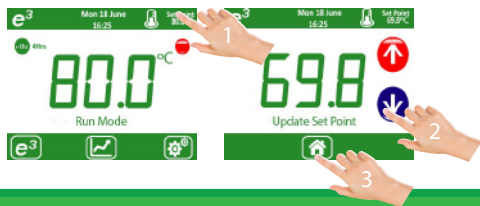
Boost start......

When in energy saving mode, press the +1hr command until the desired boost time is shown on the right of the icon. Press the start button and the cabinet will turn on and run until the end of either the counter, or until 7pm if the timer is still active at 7am.

You can change the count down timer to a different value with the +1hr icon. After 6 hours, the time scrolls back to 'zero'. Press the start button again and wait for 1 minute and the time value will be updated to either the new hour value, or turn off if set at 'zero'.

Extended time.....

4 hours before the end of the turn off time (default 7pm), the +1hr button will appear. Every press will add 1 hr (max of 6) to the shut down time. At 7pm, the message will change to a 'Added Time' value and turn the power off when the timer gets to zero to allow for extended drying time. The cabinet will then turn back on as usual at 7am the next day.

To Change Cabinet Temperature

Mon 18 June 16:25 — Set Point 80.0°C — 80.0°C — Run Mode

Mon 18 June 16:25 — Set Point 69.8°C — 69.8°C — Update Set Point
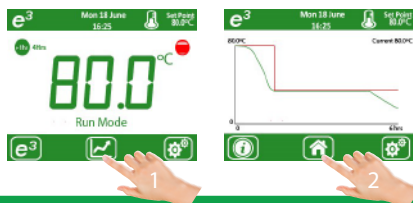
The current Set Point is displayed next to the 🌡 button.
Press the Set Point icon.
The screen will change to Update Set Point screen.
Change the Set Point using the up and down keys. If you keep the button pressed, the Set Point values change quicker. Save by either pressing the 🏠 button or leave for 5 seconds.

To View Historical Information

Mon 18 June 16:25 — Set Point 80.0°C — 80.0°C — Run Mode

Mon 18 June 16:25 — Set Point 80.0°C — 80.0°C Current 80.0°C

To view the history of the cabinet, press 📈 button.
The red trend line is the Set Point the cabinet is controlling to and the green trend line is the actual cabinet temperature history. As default, this is set to 2 hours but can be altered to 6, 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 the home screen.

Alarm Conditions / Manual

Mon 18 June 16:25 — Set Point 87°C

Warning
Over Temperature Alarm
Chamber Cooling

Oven 87°C Safety 87°C

The cabinet will indicate if there is a fault with a diagnostic message. A safety alarm temperature system is designed into the cabinet which will remove power to the elements if the cabinet goes 10 °C above the Set Point. Any alarm messages will appear on the screen.
The cabinet will return to normal operation once the cabinet cools below the current Set Point.

Download the full manual