



CLIFTON OVEN/INCUBATOR
NE1V-32 and NE1V-56

Clifton Range[®]

High quality products at affordable prices

Dear Customer

The Clifton Range® is part of Nickel-Electro Ltd a family firm based in Weston-Super-Mare which was incorporated as a limited company in 1941 but its roots can be traced back to 1935 when the business first started. Now in its 3rd generation of family members, the company prides itself on being a strongly established, independent British manufacturer.

Thank you for purchasing this piece of Clifton Range® temperature control equipment. To get the best performance from your equipment and for your own safety please read these instructions carefully before use.

GENERAL NOTES

1. This product is designed for laboratory use only. Always follow good laboratory practice.
2. The mains supply cord fitted to this product is heat resistant and should be replaced with an equivalent type by a qualified electrician.
3. Ensure that the power supply has a safety earth (ground) terminal.
4. Ensure that the mains switch and power supply connector are accessible during use.
5. Before using any cleaning or decontamination method please refer to the Maintenance and Cleaning section to ensure the proposed method will not damage the unit.
6. Connect only to a power supply with the corresponding voltage to that specified on the rating label positioned on the rear of the unit.
7. Do not block ventilation slots during use and always follow installation instructions.

SAFETY DO'S AND DONT'S

DO NOT:

1. Block ventilation slots during use.
2. Use metal instruments or scouring agents to clean the interior of the oven/incubator.
3. Install the instrument outside, in damp environments or areas which can be flooded.
4. Install the instrument near flammable or volatile substances, acids or in corrosive environments.
5. Store inflammable or volatile substances inside the instrument, touch live parts of the instrument, operate the instrument with damp hands, place vessels containing fluids on the instrument, climb or place any objects on the instrument.
6. Do not use without appropriate training.

DO:

1. Ensure the mains switch and power supply connector are accessible during use.
2. Disconnect from the power supply before moving the instrument.
3. Ensure that the mains supply cord fitted is replaced with an equivalent type if damaged.
4. Follow the installation instructions.
5. Follow the operating and maintenance instructions. If the instrument is not used in accordance with these instructions then basic safety protection offered by the equipment may be affected.
6. Always follow good laboratory practice.

UNPACKING AND HANDLING

Your new oven/incubator will arrive on a pallet and should be unpacked carefully observing the following points:

Please check the Shockwatch label to ensure the package has not been tipped during transit. If the label indicates damage please contact either Nickel Electro Ltd or your Distributor immediately.



DO NOT LIFT USING THE DOOR OR DOOR HANDLE

Carefully remove the product from its packaging observing manual handling guidelines.

We recommend two people for lifting.
Lift from the base of the unit.



SAFETY



Do not touch any electrical contacts or open any closure panels.
RISK OF ELECTRIC SHOCK!!

POWER LEAD AND CONNECTION TO ELECTRICAL SUPPLY



Check the electrical supply is compatible with the rating label.
IF IN DOUBT CONSULT AN ELECTRICIAN. THE PRODUCT MUST BE EARTHED!

Where the mains supply or plug connection differs refer to local regulations or consult an electrician.

POSITIONING AND LEVELLING

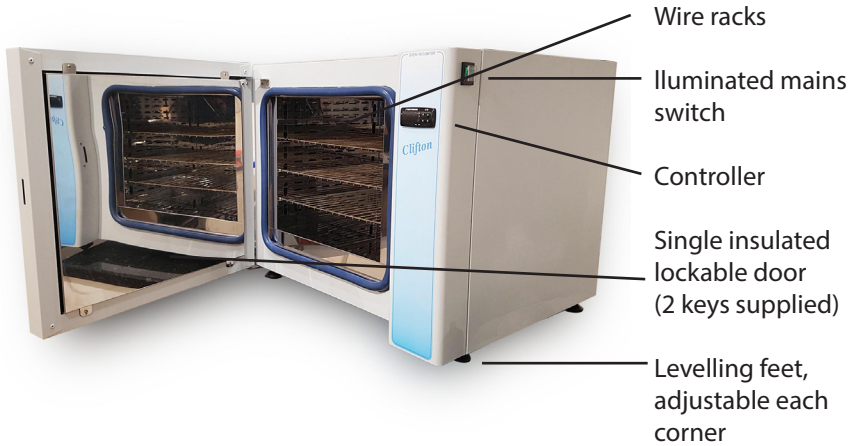
1. The instrument should be placed on a level hard surface in a dry airy place with low relative air humidity (maximum 60% RH, no condensation). The ambient temperature should be +10°C to +28°C.
2. The instrument should not be placed in direct sunlight or near energy/heat sources.
3. The instrument has not been designed to work in highly dusty environments.
4. Once the instrument has been positioned it needs levelling. Adjust the feet/castors (model dependant) accordingly. Use a spirit level to inspect.
5. The instrument should be placed at least 100mm away from the wall on all sides and rear.
6. Multiple units can be stacked.
7. The instrument must not be built in.
8. Power cord at rear to be kept away from the exhaust outlet. Exhaust outlet will be hot in use do not touch.

BEFORE SWITCHING ON...

1. The wire racks are supplied wrapped with their runners inside the chamber.
2. Remove the racks and runners before switching the oven/incubator on.
3. Install the runners into the slots provided in the wall of the chamber. Ensure wire racks are positioned horizontally and securely before loading.
4. The loading weight must not exceed 10kg per shelf.
5. Ensure vessels or objects being heated are evenly spread across the wire shelf for even airflow and heating. Do not position samples near the sidewalls or door of the chamber - recommend a 50mm gap for consistency.

Please note: during the first few days of use it is normal for odours to persist as the components are commissioned. Use in a well ventilated area.

GUIDE TO FEATURES AND CONTROLS



CONTROLLER KEYS AND LEDS



- U: To activate program
P: To program set point and set point and timer
UP ARROW: To increase temperature and timer set point values
DOWN ARROW: To decrease temperature and timer set point values
NOTE: When program is running, temperature and timer, a green dot appears above "Prg" on display. To indicate heating/temperature control a red indicator flashes on the top right of the display near marking 1.

OPERATING INSTRUCTIONS

Switch the oven/incubator ON using the green mains switch located on the side of the unit. The controller will perform a self test. The display will then show actual chamber temperature on start up.

SETTING SP1 SET POINT

1. Press DOWN ARROW key once. "SP1" (set point) will flash on the top line of the display in red. The lower line of green text indicates the set point temperature.
2. Use the UP and DOWN arrow keys to select desired temperature.
3. Press P to confirm settings.
4. Display will revert to temperature display. Red top display shows actual chamber temperature and bottom green display indicates SP1 set point temperature.

SETTING PROGRAM SET POINT (Pr.S1) AND TIMER PROGRAM (Pr.t1)

1. Press P twice. "Pr.S1" (program set point and timer).
2. Use UP and DOWN arrow keys to set "SP1" as above.
3. Press P to confirm settings.
4. "Pr.t1" will flash on display.
- 5 Use UP and DOWN arrow keys to set time required in hours and minutes.
6. Press P to confirm.
7. Press and hold the U key for approx 1 second to activate the program.
8. Timer will activate when SP1 temperature is reached.
9. When set time is reached P.End will be displayed.
10. Press and hold U Key for 3 seconds to cancel P.End message.

OVER TEMPERATURE LIMITER

The oven/incubator is fitted with an over temperature thermostat to protect the chamber from exceeding its maximum temperature.

During use the stainless steel chamber will tarnish from a bright polish to yellow/orange/brown colour depending on the operating temperatures used. This is normal and does not affect the oven/incubators operation.

OVER TEMPERATURE ALARM

The over temperature alarm is automatically set 5°C above set temperature. When in alarm condition the “over temperature alarm” warning indicator illuminates and actual oven/incubator temperature is shown. All heating is switched off. Once chamber temperature has risen fallen below alarm setting then the indicator clears and actual oven temperature is displayed.

CARE AND MAINTENANCE



Please ensure that the washing agent and sanitizing agent are BSI accredited and approved by the H&S department for use on laboratory equipment and stainless steel within your laboratory.

DISCONNECT FROM THE POWER SUPPLY PRIOR TO CLEANING

Cleaning the Exterior of the Oven/Incubator

1. The housing of the oven and control panel should be cleaned at least once a week (depending on working conditions) using a small quantity of mild detergent applied using a soft cloth.
2. The base of the drying chamber can become discoloured over time due to the location of the heaters. This is completely normal and does not effect the performance of the drying oven.
3. Electrical parts should not be in contact with either water or detergent.

When Oven/Incubator Not In Use:

1. Remove all objects from the drying chamber.
2. Disconnect the oven from the main power supply.
3. Clean and dry the heating chamber.
4. Leave the door open to avoid smells.
5. Store in temperature between 0°C and 50°C and a maximum relative humidity of 70%.

EXTERIOR ANTI BACTERIAL PAINTED SURFACES

The oven/incubator should be cleaned at regular intervals by wiping external surfaces with a cloth or sponge soaked in warm water with a mild detergent. **DO NOT USE STRONG SOLVENTS OR SOLUTIONS CONTAINING CHLORINATED HYDROCARBONS, ESTERS, KETONES OR ABRASIVE CLEANERS AS THIS MAY DAMAGE THE BUILT IN ANTI BACTERIAL PROPERTIES.**

The “anti-bacterial” paint finish inhibits the growth of bacteria. It has been tested by independent specialist houses using internationally recognised test methods and proven to be effective against a wide range of bacteria including Escherichia Coli and Staphylococcus Aureus (MRSA).

We recognise hygienic coatings are part of a controlled approach to a cleaner working environment. Within the paint formulation is an active ingredient with proven anti-bacterial properties which is maintained throughout its life span. In a laboratory environment this is one less source of contamination. Unlike detergents the anti-bacterial paint finish does not offer an instantaneous action, but is intended for long term general protection against bacterial growth.

Moisture on the painted surface is necessary for the bacterium to absorb the agent and be affected by it. The coating is therefore less active in very dry conditions although moisture in the atmosphere will maintain some activity. Areas where moisture is trapped are difficult to clean and allow bacteria to proliferate but these areas are most active for the anti-bacterial coating improving defence against bacterial growth.

WARRANTY TERMS AND CONDITIONS

1. Nickel Electro Ltd warrants to the Customer that the product purchased is free from defects in materials and workmanship.
2. Provided the terms of payment are duly complied with, Nickel Electro Ltd undertakes to remedy any original defects arising from faulty materials or workmanship, in any goods manufactured/supplied by Nickel Electro Ltd, which under proper and normal conditions of use, may develop within a period of two years from the date of delivery.
3. In the case of components which by their nature of application have an unpredictable life, this guarantee shall only be to the extent of the guarantee given by the manufacturers of these articles.
4. Nickel Electro Ltd will accept no liability, where in the opinion of the company the defect has been caused by damage due to the Customers failure to follow operating instructions, correct installation, wear and tear, or damage due to the use of spare parts other than those spare parts of Nickel Electro Ltd or which are recommended by Nickel Electro Ltd, the defect has been caused by alterations or repairs being undertaken by a person(s) other than an authorised representative of Nickel Electro Ltd.
5. Any damage claim must be in writing, and give the serial number and description of the goods, order number and date of delivery, and will not apply where any names or serial numbers or other information which may be attached to or inscribed upon the goods have been removed, covered up or defaced in any way.
6. Any goods or parts thereof, which may require repair or replacement, shall be repaired or replaced (at the discretion of Nickel Electro Ltd) at the works of Nickel Electro Ltd. The product to be repaired shall be delivered carriage paid back to Nickel Electro Ltd by the customer at the Customer's risk and expense. Any such goods or parts will be delivered by Nickel Electro Ltd to the Customer free within the United Kingdom but if required to be borne by the Customer. All faulty parts removed from the equipment will become Nickel Electro Ltd's property. Any other repairs or work by Nickel Electro Ltd will be carried out under the terms and conditions for specialist engineers currently in force.
7. In the event of replacement with a new or reconditioned model, the replacement unit will continue the warranty period of the original equipment.
8. If any goods or parts thereof are returned unnecessarily all cost involved, including a charge for inspection, handling and the return carriage must be paid by the sender. In no circumstances shall any of the goods be returned to Nickel Electro Ltd without its prior written consent.
9. Please retain the original packaging over the warranty period.

NON WARRANTY INFORMATION

Spare parts shall be made available for a period of 3 years after a piece of equipment is discontinued.

Common Spare Parts

Description	Part Number	Quantity
Switch	ES0241	1 off
Power Entry Module	EX1151	1 off
1050W Heater	EE1341	4 off
5A Circuit Breaker	EX1212	2 off
Controller	EX1311	1 off
Thermostat	ET0419	1 off

PORTABLE APPLIANCE TESTING

These tests should be conducted by a qualified person.



DO NOT Flash Test!!



DECLARATION OF CONFORMITY

We herewith confirm the following product:
NE1V-32 and NE1V-56 Incubator/Oven

Conforms with the requirements outlined by the following European Directives:

Low Voltage Directive 2014/35/EU

EMC Directive 2014/30/EU

RoHS Directive 2011/65/EU

Conforms with the requirements outlined in the following United Kingdom Directives:

Electromagnetic Compatibility Regulations 2016

Electrical Equipment (Safety) Regulations 2016

RoHS Directive 2011/65/EU

Conforms with the requirements of the following standards:

BS EN 61010-1: 2010

BS EN 61010-2-010: 2014

BS EN 61326-1: 2013

Safety requirements for electrical equipment for measurement, control and laboratory use

Electrical equipment for measurement, control and laboratory use - EMC requirements

Designed and manufactured in the United Kingdom by:



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FINAL INSPECTION AND ELECTRICAL SAFETY TEST REPORT

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NICKEL - ELECTRO LTD.
Manufacturers of the Clifton Range