

Clifton
UNSTIRRED BATH

STIRRED BATHS

THERMOSTATIC	NE4-T
DIGITAL	NE4-D
DIGITAL CLEAR TANKS	NE4-D/CT
DEEP CHAMBER	NE4-25D
IMMERSION COOLERS	DC

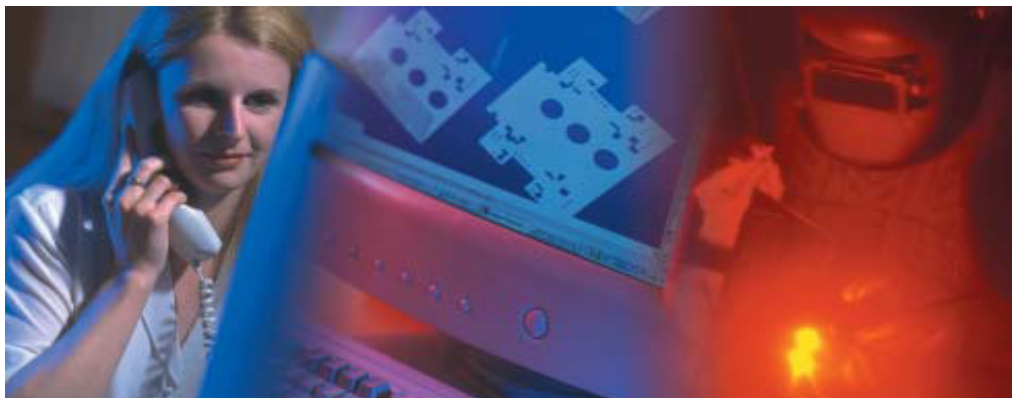
CIRCULATING BATHS

DIGITAL	NE4-P
DIGITAL	NE4-HT
CHILLOBATHS	NE7

THE *Clifton* RANGE



NICKEL-ELECTRO Ltd.



Welcome to the *Clifton* range from Nickel-Electro

Nickel-Electro is a wholly independent, family owned company, based in the South West of England. We design and manufacture the well known Clifton Range of temperature control equipment and instrumentation, which includes unstirred, stirred, shaking baths, digital hotplates and the innovative Duobaths. Trading since 1941, continued investment and development has established Nickel-Electro as a leading manufacturer of laboratory instrumentation.

Our extensive design and production facilities feature state of the art 3D design, computerised punching and forming, powder painting and electrical and electronic assembly all fully supported by an integrated ERP manufacturing system, managing and coordinating the business within an ISO9001 environment. The complete manufacturing solution on one site, controlling the entire production process, a guarantee of quality.

Recognised as an 'Investor in People' our staff offer you high levels of skill and experience, having many years of service in the business. We believe in combining cutting edge technology with traditional skills and values and take pride in being a high quality precision UK manufacturer.

In addition Nickel-Electro manufactures a comprehensive range of laboratory consumables in a variety of materials including aluminium, stainless steel, nickel and zirconium. This complements the Clifton Range and provides our customers with a single source of many types of laboratory equipment.

Melvin Dickson

Managing Director



INVESTOR IN PEOPLE



SOLID EDGE
VELOCITY SERIES

radan

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Our partners Providing world class innovative manufacturing solutions



STIRRED BATHS

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CIRCULATING BATHS

DIGITAL	NE4-P
DIGITAL	NE4-HT
CHILLOBATHS	NE7

STIRRED H S

NE4- T series, thermostat control

Stirred Clifton water baths are designed for immersion of flasks/bottles/racks in a stable temperature environment



This entry level thermostatically controlled analogue Thermostirrer is housed in a durable corrosion resistant stainless steel body. Immersed components are corrosion resistant. The Thermostirrer features a safety cut-out float switch, illuminated on/off switch, low liquid, heater indications. The Thermostirrer is supplied with a stainless steel mounting bridge to fit the selected tank. Each bath consists of a 304 spec stainless steel tank contained within a sturdy outer case with chemical resistant paint finish and is complete with a stainless steel shelf, designed for good temperature stability.

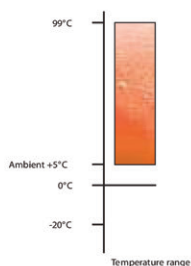


Cat No	NE4-8T	NE4-14T
Capacity, litres	8 l	14 l
Working dims	129w x 298d x 150h mm	219w x 298d x 150h mm
Overall dims	271w x 332d x 170h mm	361w x 332d x 170h mm
Heater, W atts	1250W	1250W
Voltage	230V	230V

1. The Thermostirrer is available separately as NE4-T which can be mounted on a suitable vessel using accessory NE4-MB mount bracket - See page 13.
2. Above 60° C or below room temperatures it is recommended that to achieve optimum performance the bath should be covered with lid or spheres - page 13.
3. If using accessory racks please use SL4 lids.

Features Include:

- * Sensitivity: $\pm 0.2^{\circ}\text{C}$.
- * Uniformity: $\pm 0.05^{\circ}\text{C}$.
- * Temperature range: ambient $+5^{\circ}\text{C}$ - 99°C .
- * Thermostatic control - easy to use.
- * Totally unobstructed, crevice free, stainless steel tank.
- * Powerful stirring within tank - for stable temperature control
- * Safety cut-out float switch - low liquid level protection



NE4-22T

NE4-28T

22 l

28 l

395w x 298d x 150h mm

395w x 298d x 200h mm

537w x 332d x 170h mm

537w x 332d x 240h mm

1250W

1250W

230V

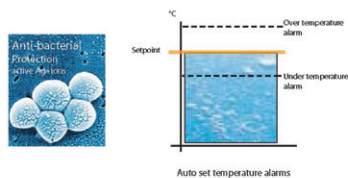
230V

BATHS

NE4-D series, digital PID control

Stirred Clifton water baths are designed for immersion of flasks/bottles/racks in a highly stable temperature environment throughout the water bath. Available in a wide range of sizes suiting a variety of applications.

This range of digital PID controlled Thermostirrers, housed in a durable corrosion resistant stainless steel body. Immersed components are corrosion resistant. The Thermostirrer features a safety cut-out float switch, illuminated on/off switch, heater, mains and over-temperature indications. The Thermostirrer is supplied with a stainless steel mounting bridge to fit the selected tank. Each bath consists of a 304 spec stainless steel tank contained within a sturdy outer case with chemical resistant anti-bacterial paint finish and is complete with a stainless steel shelf, all designed for good temperature stability.

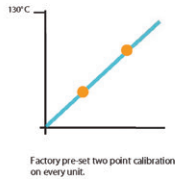
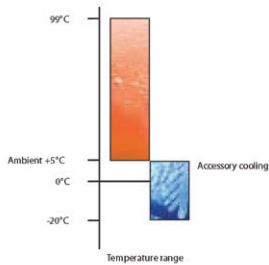


Cat No	NE4-8D	NE4-14D
Capacity, litres	8l	14l
Working dims	129w x 298d x 150h mm	219w x 298d x 150h mm
Overall dims	271w x 332d x 170h mm	361w x 332d x 170h mm
Heater, W atts	1250W	1250W
Over temp. alarm	+4°C, warning message, heater cut off, indicator.	+4°C, warning message, heater cut off, indicator.
Voltage	230V	230V

1. The Thermostirrer is available separately as NE4-D which can be mounted on a suitable vessel using accessory NE4-MB mount bracket - See page 13.
2. For operation at temperatures below ambient an accessory cooling system DC1-300 or more powerful DC2-300 for larger tanks or rapid cooling - See page 14.
3. Above 60° C or below room temperatures it is recommended that to achieve optimum performance the bath should be covered with lid or spheres - page 13.
4. Painted body and splash proof controls feature Anti-bacterial protection, a hygenic coating which actively inhibits bacterial growth.
5. If using accessory racks please use SL4 lids.
6. A larger size of water bath is available (NE4-38D, NE5-56D).

Features Include:

- * Sensitivity $\pm 0.1^{\circ}\text{C}$.
- * Uniformity $\pm 0.01^{\circ}\text{C}$.
- * Temperature range: ambient $+5^{\circ}\text{C}$ - 99°C .
- * Accessory cooling: ambient to -20°C .
- * Clear 3 digit display: 0.1°C (-20 - 99°C).
- * Precision control
 - In normal use 'Adaptive PID'.
 - Changeable conditions or liquids
- * Powerful stirring within tank
 - Excellent temperature control.
- * Durable in use
 - Bath body zinc coated steel, for corrosion protection, powder coated exterior with a chemical resistant anti-bacterial paint.
 - Stainless steel tank, corrosion resistant and easy to clean, crevice free.
 - Thermostirrer body corrosion resistant stainless steel, with splash proof controls.
- * Safety cut-out float switch
 - Low liquid level protection
- * Removable stainless steel shelf supplied
- * Auto setting Under and Over temperature alarm
- * Timer
 - Variable, 00hrs.01mins - 99hrs.59mins



NE4-22D

22 l

395w x 298d x 150h mm

537w x 332d x 170h mm

1250W

$+4^{\circ}\text{C}$, warning message, heater cut off, indicator.

230V

NE4-28D

28 l

395w x 298d x 200h mm

537w x 332d x 240h mm

1250W

$+4^{\circ}\text{C}$, warning message, heater cut off, indicator.

230V

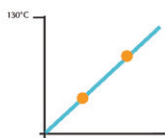
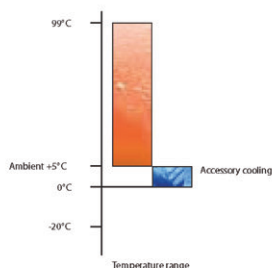
BATHS

NE4-D/CT series, digital thermostatic control - acrylic tank

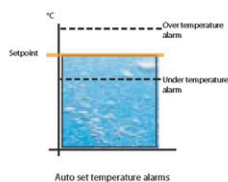
Stirred Clifton water baths are designed for immersion of flasks/bottles/racks in a highly stable temperature environment throughout the water bath. Available in a wide range of sizes suiting a variety of applications.

The sturdy clear acrylic tank allows observation of samples, complete with stainless steel shelf all designed for good water circulation and water temperature stability.

Supplied with a stainless steel bridge to mount the thermostirrer to the tank.



Factory pre-set two point calibration on every unit.



Cat No	NE4-8D/CT	NE4-14D/CT
Capacity, litres	8l	14l
Working dims	130w x 303d x 150h mm	214w x 303d x 150h mm
Overall dims	272w x 318d x 165h mm	370w x 318d x 165h mm
Heater, Watts	1250W	1250W
Over temp. alarm	+ 4°C warning message, heater cut off, audible.	+4°C warning message, heater cut off, audible.
Voltage	230V	230V

1. For operation at temperatures below ambient an accessory cooling system DC1-300 is required - See page 14
2. Above 60°C or below room temperature it is recommended that to achieve optimum performance the bath should be covered with SL4 lid or polypropylene spheres - see accessories page 9
3. Painted body and splash proof controls feature Anti-bacterial protection, a hygienic coating which actively inhibits bacterial growth.

BATHS

NE4 series of stirred water baths

LIDS

Cat. No.	Description
SL4-8	Gabled lid, stainless steel, for 8 litre baths
SL4-14	Gabled lid, stainless steel, for 14 litre baths
SL4-22	Gabled lid, stainless steel, for 22 and 28 litre baths
SL4-38	Gabled lid, stainless steel, for 38 litre baths
LD4-8	Flat lid, 8 litre baths.
LD4-14	Flat lid, 14 litre baths.
LD4-22	Flat lid, 22/28 litre baths.
LD4-38	Flat lid, 38 litre baths.

RAISED SHELVES

Allows immersion depth of samples to be varied.

RS4-14	For 14 litre baths.	RS4-38	For 38 litre baths.
RS4-22	For 22/28 litre baths.		

RACKS

6870	Test tube rack, stainless steel, 26 holes x 17mm dia
6871	Test tube rack, stainless steel, 16 holes x 26mm dia
6872	Test tube rack, stainless steel, 36 holes x 13mm dia also suitable for 1.5ml microtubes
6873	Test tube rack, stainless steel, 18 holes x 19mm dia
6900	Test tube rack, stainless steel, 12 holes x 32mm dia

Max number of racks per bath

Bath size	8 litre	14 litre	22/28 litre	38 litre	56 litre
No. racks	1	2	5	7	10

INSULATED HOSES

HS-1	Push fit and lock insulated hose 1m length x 6mm dia
HS-2	Push fit and lock insulated hose 2m length x 6mm dia

MISCELLANEOUS

TC-1	Thermometer clip with bent stem spirit filled thermometer. Scale: 0 - 100°C.
NE4-CC	Cooling coil - water fed - background cooling.
DC1-300	Immersion cooler: operates to -20°C See page 14
DC2-300	Immersion cooler: more powerful cooling to -20°C
BX0616	Draining syphon
NE4-MB	Mounting bracket allows controllers to be mounted on a suitable separate vessel. Max tank wall thickness 30mm.



CAL Calibration Record

SPHERES, POLYPROPYLENE

Provides a floating lid on water baths to minimise evaporation and allows easy immersion/removal of flasks etc (maximum temperature 100°C). Number of packs required providing a single layer:

Bath size	No. of packs	Bath size	No. of packs
8/14 litre	1 Pack	56 litre	8 Packs
22/28 litre	2 Packs	38 litre	5 Packs

Cat. No. BP0368 Pk qty 200

Features Include:

- * Sensitivity $\pm 0.1^{\circ}\text{C}$.
- * Uniformity $\pm 0.01^{\circ}\text{C}$.
- * Temperature range: ambient $+5^{\circ}\text{C}$ - 99°C .
- * Accessory cooling: ambient to 0°C .
- * Clear 3 digit display: 0.1°C ($0 - 99^{\circ}\text{C}$).
- * Powerful stirring within tank
 - Excellent PID temperature control
- * Safety cut-out float switch
 - Low liquid level protection
- * Auto setting Under and Over temperature alarm.
- * Lids optional extra
 - Recommended above 60°C or below ambient
- * Splash proof controls



NE4-22D/CT

22 l

385w x 303d x 150h mm

543w x 318d x 165h mm

1250W

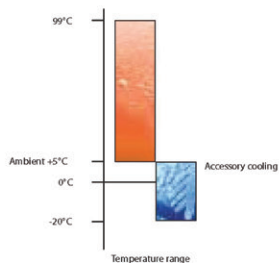
$+4^{\circ}\text{C}$ warning message, heater cut off, audible.

230V

NE4-P series, water Circulators

A range of water baths for external circulation of temperature controlled water in a closed circuit.

Digital PID controlled Thermocirculator with timer is housed in a durable stainless steel case. Immersed components are corrosion resistant. The Thermocirculator features a safety cut-out float, illuminated mains, heater and alarm temperature indications. The Thermocirculator is supplied assembled to a stainless steel mounting bridge which features push-fit and lock fittings for inlet and outlet accessory hoses for external water circulation. Each bath consists of a 304 spec stainless steel tank contained within a sturdy outer case with chemical resistant anti-bacterial paint finish and is complete with a stainless steel shelf providing good water temperature stability.

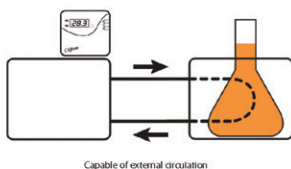
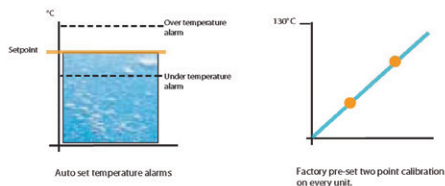


Cat No	NE4-8P	NE4-14P
Capacity, litres	8l	14l
Working, dims	129w x 298d x 150h mm	219w x 298d x 150h mm
Overall, dims	271w x 332d x 170h mm	361w x 332d x 170h mm
Heater, W atts	1250W	1250W
Over temp. alarm	+4°C, warning message, heater cut off, indicator.	+4°C, warning message, heater cut off, indicator.
Under temp. alarm	-4°C, warning message, indicator.	-4°C, warning message, indicator.
Pump capacity l/min	10	10
Pump pressure	1.5m head/150mbar	1.5m head/150mbar
Voltage	230V	230V

1. The Thermocirculator is available separately as NE4-P which can be mounted on a suitable vessel using accessory NE4-MB mount bracket - See page 13.
2. For operation at temperatures below ambient an accessory cooling system DC1-300 or more powerful DC2-300 for larger tanks or rapid cooling - See page 14.
3. Above 60° C or below room temperatures it is recommended that to achieve optimum performance the bath should be covered with lid or spheres - page 13.
4. Painted body and splash proof controls feature Anti-bacterial protection, a hygienic coating which actively inhibits bacterial growth.
5. If using accessory racks please use SL4 lids.
6. A larger size of water bath is available (NE4-56P) - fitted with 2000W heater.

Features Include:

- * Sensitivity $\pm 0.1^{\circ}\text{C}$.
- * Uniformity $\pm 0.01^{\circ}\text{C}$.
- * Temperature range: ambient $+5^{\circ}\text{C}$ - 99°C .
- * Accessory cooling: ambient to -20°C .
- * Clear 3 digit display: 0.1°C (-20 - 99°C).
- * Precision control
 - In normal use 'Adaptive PID'.
 - Changeable conditions or liquids
- * Powerful circulation pump - closed loop
 - Convenient push-fit and lock fittings.
 - Secure external water circulation.
- * Sturdy construction and Stainless steel tank.
- * Safety cut-out float switch
 - Low liquid level protection.
- * Auto setting Under and Over temperature alarm.
- * Timer
 - Variable, 00hrs.01mins - 99hrs.59mins

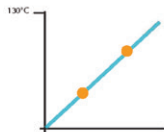


NE4-22P	NE4-28P
22l	28l
395w x 298d x 150h mm	395w x 298d x 200h mm
537w x 332d x 170h mm	537w x 332d x 240h mm
1250W	1250W
+4°C, warning message, heater cut off, indicator.	+4°C, warning message, heater cut off, indicator.
-4°C, warning message, indicator.	-4°C, warning message, indicator.
10	10
1.5m head/150mbar	1.5m head/150mbar
230V	230V

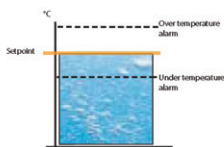
NE4-HT series, water and oil Circulators

A range of water baths for external circulation of temperature controlled water and oils in a closed circuit.

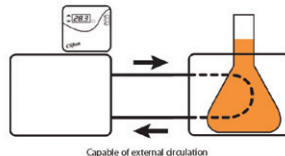
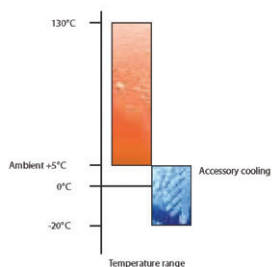
Digital PID controlled Thermocirculator with timer all housed in a durable stainless steel case. Immersed components are corrosion resistant. The Thermocirculator features a safety cut-out float, illuminated mains, heater, and alarm indications. The Thermocirculator is supplied assembled to a stainless steel mounting bridge which features push-fit and lock fittings for inlet and outlet accessory hoses for external water and oil circulation. Each bath consists of a 304 spec stainless steel tank contained within a sturdy outer case with chemical resistant anti-bacterial paint finish, complete with a stainless steel shelf providing good temperature stability.



Factory pre-set two point calibration on every unit.



Auto set temperature alarms



Cat No

NE4-8HT

NE4-14HT

Capacity, litres

8l

14l

Working, dims

129w x 298d x 150h mm

219w x 298d x 150h mm

Overall, dims

271w x 332d x 170h mm

361w x 332d x 170h mm

Heater, Watts

1250W

1250W

Over temp. alarm

+4°C, warning message, heater cut off, indicator.

+4°C, warning message, heater cut off, indicator.

Under temp. alarm

-4°C, warning message, indicator.

-4°C, warning message, indicator.

Pump capacity l/min

10

10

Pump pressure

1.5m head/150mbar

1.5m head/150mbar

Voltage

230V

230V

The Thermocirculator is available separately as NE4-HT which can be mounted on a suitable vessel using accessory NE4-MB.

For operation at temperatures below ambient an accessory cooling system DC1-300 is required - See page 14

Above 60° C or below room temperature it is recommended that to achieve optimum performance the bath should be covered with a lid or polypropylene spheres - see accessories page 13

If using accessory racks please use SL4 lids

Features Include:

- * Sensitivity $\pm 0.1^{\circ}\text{C}$.
- * Uniformity $\pm 0.01^{\circ}\text{C}$.
- * Temperature range: ambient $+5^{\circ}\text{C}$ - 130°C .
- * Accessory cooling: ambient to -20°C .
- * Clear 3 digit display: 0.1°C (-20°C - 99°C).
- * Precision control
 - In normal use 'Adaptive PID'.
 - Changeable conditions or liquids
- * Powerful circulation pump - closed loop
 - Convenient push-fit and lock fittings.
 - Secure external water circulation.
- * Sturdy construction and Stainless steel tank.
- * Safety cut-out float switch
 - Low liquid level protection
- * Auto setting Under and Over temperature alarm.
- * Timer
 - Variable, 00hrs.01mins - 99hrs.59mins
- * Adjustable over temperature safety device
 - Safety experiment protector



NE4-22HT

22l

395w x 298d x 150h mm

537w x 332d x 170h mm

1250W

 $+4^{\circ}\text{C}$, warning message, heater cut off, indicator. -4°C , warning message, indicator.

10

1.5m head/150mbar

230V

ACCESSORIES

NE4 series of circulating water baths

LIDS

Cat. No.	Description
SL4-8	Gabled lid, stainless steel, for 8 litre baths
SL4-14	Gabled lid, stainless steel, for 14 litre baths
SL4-22	Gabled lid, stainless steel, for 22 and 28 litre baths

Cat. No.	Description
LD4-8	Flat lid, for 8 litre baths.
LD4-14	Flat lid, for 14 litre baths.
LD4-22	Flat lid, for 22/28 litre baths.

RAISED SHELVES

Allows immersion depth of samples to be varied.

RS4-14	For 14 litre baths.
RS4-22	For 22/28 litre baths.

RACKS

6870	Test tube rack, stainless steel, 26 holes x 17mm dia
6871	Test tube rack, stainless steel, 16 holes x 26mm dia
6872	Test tube rack, stainless steel, 36 holes x 13mm dia also suitable for 1.5ml microtubes
6873	Test tube rack, stainless steel, 18 holes x 19mm dia
6900	Test tube rack, stainless steel, 12 holes x 32mm dia

Max number of racks per bath

Bath size	8 litre	14 litre	22/28 litre	56 litre
No. racks	1	2	5	10

INSULATED HOSES

HS-1	Push fit and lock insulated hose 1m length x 6mm dia
HS-2	Push fit and lock insulated hose 2m length x 6mm dia

MISCELLANEOUS

TC-1	Thermometer clip with bent stem spirit filled thermometer. Scale: $0 - 100^{\circ}\text{C}$.
NE4-CC	Cooling coil - water fed - background cooling.
DC1-300	Immersion cooler: operates to -20°C See page 14
DC2-300	Immersion cooler: more powerful cooling to -20°C
BX0616	Draining syphon
NE4-MB	Mounting bracket allows controllers to be mounted on a suitable separate vessel. Max tank wall thickness 30mm.



CAL Calibration Record

SPHERES, POLYPROPYLENE

Provides a floating lid on water baths to minimise evaporation and allows easy immersion/removal of flasks etc (maximum temperature 100°C). Number of packs required providing a single layer:

Bath size	No. of packs	Bath size	No. of packs
8/14 litre	1 Pack	56 litre	8 Packs
22/28 litre	2 Packs		

Cat. No. BP0368 Pk qty 200

DEEP CHAMBER

This deep chamber bath is suitable for Gerber testing and Plasma thawing applications where tall water volumes are required.

The digital PID temperature controlled Thermostirrer is housed in a durable corrosion resistant stainless steel body. Immersed components are corrosion resistant. The Thermostirrer features a safety cut-out float switch, illuminated on/off switch, heater, mains and over-temperature indications. The Thermostirrer is supplied with a stainless steel mounting bridge to fit the selected tank. The chamber consists of a 304 spec stainless steel tank contained within a sturdy painted outer case and is complete with a stainless steel shelf, all designed for good temperature stability.



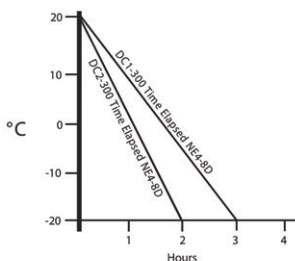
Cat No	NE4-25D
Capacity, litres	25 l
Internal dims	389w x 235d x 330h mm
Overall dims	440w x 265d x 370h mm
Heater, Watts	1250W
Over temp. alarm	+4°C, warning message, heater cut off, indicator.
Sensitivity	±0.1°C
Uniformity	±0.1°C
Voltage	230V

ACCESSORIES

6880	12 hole stainless steel Butyrometer rack max. 3 racks per bath
ET0564	Thermometer
SA01293	Plasma bag clips - pair max. 4 pair per bath

IMMERSION COOLER

This refrigeration cooler has no temperature control, as it is designed to be used in conjunction with a stirred or circulating water bath, where its immersion coil is specially designed to fit into rear access hole behind the Thermostirrer without sacrificing the working area. The immersion cooler runs continuously with the bath providing temperature control.



Features Include:

- * Stainless steel immersion coil - corrosion resistant
- * Replaces wasteful use of cold water cooling



Cat No	DC1-300	DC2-300
Length of hose	900mm	
Diameter cooling coil	65mm	
Overall dims mm	345w 445d 265h	345w 465d 315h

Cooling capacity W

+10°C	800 W	1400 W
0°C	580 W	1000 W
-10°C	400 W	700 W
-20°C	250 W	450 W

Refrigerant	R134a
Voltage	230V

BIRAU T H O R S

NE7 series
ChilloBaths

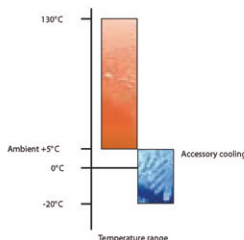
This Chiller Circulator range of water baths are specially designed for circulating temperature controlled liquids maintaining temperature in analytical equipment, heat removal or immersion of samples.

The ChilloBath consists of a stainless steel tank fitted above a cooling system with a Thermocirculator immersed into tank. All immersed components are corrosion resistant. The Thermocirculator features a safety cutout float switch - low liquid level protection, an adjustable over temperature safety device, heater, timer and alarm indications, PID temperature control and timer.

The Circulator features an advanced PID temperature controller which can be used in either of the following ways, single point temperature control and process control with two temperatures and a time setting.

The Thermocirculator is supplied assembled to a stainless steel mounting bridge which features 'push-fit and lock fittings' for secure external liquid circulation. The bath consists of a 304 spec stainless steel tank and heat exchange coil for optimal cooling with a stainless steel shelf all giving good temperature stability.

Supplied with flat lift-off lid with insulated handle which can be substituted with accessory SL4 Gable Lid for immersion of taller samples in the bath.



Features Include:

- * Sensitivity $\pm 0.1^{\circ}\text{C}$
- * Uniformity $\pm 0.01^{\circ}\text{C}$
- * Temperature range: $-20 - 130^{\circ}\text{C}$
- * Digital PID control
- * Clear 3 digit display
- * Display resolution: $0.1^{\circ}\text{C} (-20^{\circ}\text{C} - 99^{\circ}\text{C})$
- * Precision control
- * Powerful circulation pump - closed loop
- * Convenient push-fit and lock fittings - for secure external water circulation
- * Stainless steel tank
- * Safety cut-out float switch - low liquid level protection
- * Refrigeration condenser easily cleaned

Cat. No .	NE7-8
Capacity, litres	8l
Temperature range	$-20 - 130^{\circ}\text{C}$
Working volume litres	6
Temperature sensitivity	$\pm 0.1^{\circ}\text{C} @ 0^{\circ}\text{C}$
Temperature uniformity	$\pm 0.01^{\circ}\text{C} @ 0^{\circ}\text{C}$
Effective bath opening	129w x 298d mm
Overall, dims	451w x 332d x 805h mm
Working, dims	129w x 298d x 150h mm
Cooling capacity W	
+20°C	1000
0°C	640
-10°C	440
-20°C	279
Refrigerant	R134a
Drain, Fitted	Yes
Over temp. alarm	+4°C warning message, heater cut off indication
Under temp. alarm	-4°C with indication
Pump capacity l/min	10
Pump pressure	1.5m head
Heater, Watts	1250
Voltage	230V

1. It is recommended that to achieve optimum performance the bath should be covered.
2. A full range of accessories are available, ask for details or refer to www.nickel-electro.co.uk.
3. Push-fit and lock fittings suitable for 6mm O/D tubing.

Service Support

At Nickel-Electro our customers can rely on good service throughout the life of their equipment and even give you the opportunity to download operating instructions that you may have mislaid.

Our service engineers are fully trained in the assembly and use of all Clifton instrumentation. Products can be returned to our comprehensively equipped service centre where a fast and efficient turnaround is guaranteed.

A full technical service is available.

We are keen to ensure that new and existing distributors are fully aware of our products. We can arrange training if requested.

Environmental Policy

We recognise our responsibility towards the environment and strive to ensure that all aspects of the business and its products have the least harmful effect on the environment by:

- * Designing products for long durable working life supported with comprehensive backup of spares.
- * Designing equipment using mainly metal based structures for easy conversion, recycling at the end of product life.
- * Designing equipment to reduce energy consumption during their working life.
- * Minimising waste in manufacturing and where it is produced compost, re-use or recycle.
- * Packing the Clifton range in EPI approved plastic bags, which are degradable or biodegradable.
- * Being fully aware of environmental legislation.

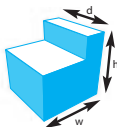
Anti-bacterial surfaces

Anti-bacterial finishes inhibit the growth of bacteria. It has been tested by independent specialist test houses such as the Law Laboratories (in the UK) using internationally recognized test methods and proven to be effective versus a wide range of bacteria species including *Escherichia coli* and *Staphylococcus aureus* (MRSA).

Hygienic coatings are part of a controlled approach to cleaner facilities. Within its formulation an active ingredient with proven anti-bacterial properties is bound into the coating. The efficacy of the finish applied to the Clifton range is maintained over its lifetime, as the anti-bacterial agent is integral within the paint or control panel.

In a busy laboratory environment, this finish effectively limits everyday bacteria transfer from operator to equipment and then on to other operators. This is one less source of contamination, contributing to essential clean working practices.

Key to Dimensions



Safety and product marking

Clifton range laboratory equipment carries CE mark indicating that it meets the requirements of applicable European Directives.

The Clifton range meets International Standards BS EN 61010-1, Safety requirements for electrical and electronic equipment for measurement, control and laboratory use.

Equipment used for heating additionally meets BS EN 61010-2-010 Particular requirements for laboratory equipment for the heating of materials.

Equipment used for mixing additionally meets BS EN 61010-2-051 Particular requirements for laboratory equipment for mixing and stirring.

Centrifuges meet requirements BS EN 61010-2-020 Particular requirements for laboratory centrifuges.

The Clifton range meets International Standards BS EN 61326-1 Electrical equipment for measurement, control and laboratory use - EMC Requirements both A and B classes.



Every piece of Clifton equipment has a unique serial number, recorded on our database with its manufacturing inspection data. Every item is electrically tested for safety, and a copy of test certificate enclosed in the instruction book.

Temperature performance

We pride ourselves on assuring that Clifton range performs to the highest level. All Clifton temperature controlled equipment undergoes temperature calibration, in controlled conditions, to thoroughly test its performance before release to you.

Analogue controlled equipment is checked at one temperature over its working range against a UKAS calibrated reference device. We adjust the equipment to reference temperature and check its operating sensitivity is within specification.

Digital controlled equipment is checked at two temperatures over its working range against a UKAS calibrated reference device.

Quality System

Our products are designed, developed and manufactured in a tightly controlled ISO9001:2008 environment and all products are CE compliant.



Certificate No. Q09820

Future Development

We have a policy of ongoing product development to ensure that tomorrow's laboratory is equipped with innovative, well-designed and reliable equipment.



NICKEL-ELECTRO LTD

Manufacturer of the Clifton Range.

Manufacturer of the Metalware Range.

Manufacturer of laboratory, medical and clinical equipment.

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Your local distributor: