NICKEL - ELECTRO LTD.
Manufacturers of the Clifton Range

Clifton Range®

Crafted with precision, made for excellence

Water Bath Brochure

Clifton

Clifton

457

Contents

Nickel-Electro Ltd.
PROUD TO BE BRITISH

Nickel-Electro Ltd. is an independent family owned business, in its third generation. The company is proud to be a British Manufacturer with over 75 years experience, specialising in the design and manufacture of temperature control equipment in South West England.

Nickel-Electro Ltd. has a philosophy of manufacturing everything on-site, in order to control lead time, quality and most importantly, cost. This ensures that the company can provide customers with the highest quality products at affordable prices. All Clifton water baths are pre-calibrated before leaving the UK factory.

Combining cutting edge technology with traditional skills and values ensures that the highest standards are met. The company takes pride in being high quality precision engineers. Many of the team have been with the company for a considerable number of years. The wealth of experience gives the brand the credibility and enviable reputation that it has today. A full technical service is available to distributors and end users for all Clifton equipment. The company has excellent customer and aftercare service, with a quick response team. Products are designed, developed and manufactured in a tightly controlled ISO9001 environment and all products are compliant with the latest standards.

Made in Britain symbol on the company's products gives customers an assurance of quality.

Clifton Unstirred Water Baths

Clifton water baths are designed for education and general laboratory use. They are economically priced without compromising quality.

Comprising of a high quality corrosion resistant stainless steel tank, with a bright clean finish housed in a durable painted outer case. Painted surfaces feature anti-bacterial finish with good chemical resistance.

The heaters and temperature sensors are concealed under the tank providing a clutter free working area which makes it easy to wipe and clean.

Digital Lab Bath

Digital water baths have push buttons for setting values. Temperatures can be easily and rapidly set with the push button, wipe and clean control panel featuring a bold LED display.

Analogue Lab Bath

Easy to use dial pointer for setting temperature, graduated in 5°C increments.

MADE IN BRITAIN®

NE1 Standard Analogue Baths

NE1-14

NE1 series Clifton unstirred standard analogue water baths are designed for general use and are economically priced without compromising quality.

Comprising of a high quality corrosion resistant stainless steel tank, with a bright clean finish housed in a durable paint finished outer case. Painted surfaces feature anti-bacterial finish with good chemical resistance. Fitted with side lifting handles for ease of transportation.

	NE1-2.5	NE1-4	NE1-8	NE1-14
GENERAL				
Chamber Capacity	2.5 Litre	4 Litre	8 Litre	14 Litre
Temperature Range	Ambient + 5°C - 100°C			
Temperature Control	Analogue dial pointer, graduated in 5°C divisions			
Sensitivity/Uniformity	±0.5°C / ±0.5°C	±0.25°C / ±0.1°C		
Heater Power (220-240V)	250W	400W	800W	1000W
Voltage	230V 50-60Hz	120V or 230V models available 50-60Hz		
Drain Tap Fitted	✖		☑	
DIMENSIONS				
External (mm)	270w x 190d x 240h	332w x 185d x 290h	332w x 270d x 290h	361w x 332d x 290h
Internal (mm)	230w x 130d x 150h	300w x 150d x 150h	300w x 240d x 150h	325w x 300d x 150h
Water Level Max. (mm)	130			
Water Level Min. (mm)	55			

	NE1-22	NE1-28	NE1-56
GENERAL			
Chamber Capacity	22 Litre	28 Litre	56 Litre
Temperature Range	Ambient + 5°C - 100°C		
Temperature Control	Analogue dial pointer, graduated in 5°C divisions		
Sensitivity/Uniformity	±0.25°C / ±0.1°C		
Heater Power (220-240V)	1500W		2500W
Voltage	120V or 230V models available 50-60Hz		
Drain Tap Fitted	☑		
DIMENSIONS			
External (mm)	538w x 332d x 290h	538w x 332d x 290h	660w x 540d x 290h
Internal (mm)	500w x 300d x 150h	500w x 300d x 200h	620w x 500d x 200h
Water Level Max. (mm)	130	180	
Water Level Min. (mm)	55		

NE1D Educational Digital Baths

The NE1D series educational water baths are designed for school, college and university use and are built comprising of a high quality corrosion resistant stainless steel tank and with a bright clean finish housed in a durable paint finished outer case.

Painted surfaces feature anti-bacterial finish with good chemical resistance. Educational water baths are fitted with side lifting handles for ease of transportation.

NE1D - 14

	NE1D-4	NE1D-8	NE1D-14	NE1D-22
GENERAL				
Chamber Capacity	4 Litre	8 Litre	14 Litre	22 Litre
Temperature Range	Ambient + 5°C - 99°C			
Temperature Control	Digital, LED display showing actual or set temperature, resolution 1°C			
Sensitivity/Uniformity	±0.2°C / ±0.1°C			
Heater Power (220-240V)	400W	800W	1000W	1500W
Voltage	120V or 230V models available 50-60Hz			
Drain Tap Fitted	✖	☑		
DIMENSIONS				
External (mm)	332w x 185d x 290h	332w x 270d x 290h	361w x 332d x 290h	538w x 332d x 290h
Internal (mm)	300w x 150d x 150h	300w x 240d x 150h	325w x 300d x 150h	500w x 300d x 150h
Water Level Max. (mm)	130			
Water Level Min. (mm)	55			

Buy a bath, plant a tree.
For every NE1D bath sold we will plant a tree.

NE2D Advanced Digital Water Baths

The NE2D advanced digital water bath provides a stable temperature environment ideal for meeting quality control requirements, featuring digital PID temperature control for precision. Controls feature auto alarm setting, illuminated on/off switch, heater and over temperature indications.

The advanced digital water bath comprises of a high quality corrosion resistant stainless steel tank, with a bright clean finish housed in a durable paint finished outer case. Painted surfaces feature anti-bacterial finish with good chemical resistance.

Fitted with side lifting handles.

	NE2-4D	NE2-8D	NE2-10D	NE2-14D
GENERAL				
Chamber Capacity	4 Litre	8 Litre	10 Litre	14 Litre
Temperature Range	Ambient + 5°C - 100°C			
Temperature Control	PID Digital, LED display showing actual or set temperature, resolution 0.1°C			
Temperature Alarm	Over temperature alarm is automatically set 4°C above set point			
Sensitivity/Uniformity	±0.2°C / ±0.1°C			
Heater Power (220-240V)	400W	800W		1000W
Voltage	120V or 230V models available 50-60Hz			
Drain Tap Fitted	☒	☑	☒	☑
DIMENSIONS				
External (mm)	332w x 185d x 290h	332w x 270d x 290h	332w x 270d x 290h	361w x 332d x 290h
Internal (mm)	300w x 150d x 150h	300w x 240d x 150h	300w x 240d x 200h	325w x 300d x 150h
Water Level Max. (mm)	130		180	130
Water Level Min. (mm)	55			

	NE2-22D	NE2-28D	NE2-56D
GENERAL			
Chamber Capacity	22 Litre	28 Litre	56 Litre
Temperature Range	Ambient + 5°C - 100°C		
Temperature Control	PID Digital, LED display showing actual or set temperature, resolution 0.1°C		
Temperature Alarm	Over temperature alarm is automatically set 4°C above set point		
Sensitivity/Uniformity	±0.2°C / ±0.1°C		
Heater Power (220-240V)	1500W		2500W
Voltage	120V or 230V models available 50-60Hz		
Drain Tap Fitted	☑		
DIMENSIONS			
External (mm)	538w x 332d x 290h	538w x 332d x 290h	660w x 540d x 290h
Internal (mm)	500w x 300d x 150h	500w x 300d x 200h	620w x 500d x 200h
Water Level Max. (mm)	130	180	
Water Level Min. (mm)	55		

NE3DT Pro Range Digital Baths

Clifton digital NE3DT series baths come complete with run back and delay start timer, clear hinged polycarbonate lid and feature PID precision temperature control.

Comprising of a high quality corrosion resistant stainless steel tank, with a bright clean finish housed in a durable painted outer case. Painted surfaces feature anti-bacterial finish with good chemical resistance.

	NE3-4DT	NE3-8DT	NE3-14DT
GENERAL			
Chamber Capacity	4 Litre	8 Litre	14 Litre
Temperature Range	Ambient + 5°C - 100°C		
Temperature Control	PID Digital, LED display showing actual or set temperature, resolution 0.1°C		
Temperature Alarm	Over temperature alarm is automatically set 4°C above set point		
Temp. Control & Run Back Timer	Visual indicator and end message 00:01 to 99:59 (hh:mm) activates at set temperature		
Temp. Control & Delay Start Timer	Heating commences at a set time in the future, within 24 hours		
Sensitivity/Uniformity	±0.2°C / ±0.1°C		
Heater Power (220-240V)	400W	800W	1000W
Voltage	120V or 230V models available 50-60Hz		
Drain Tap Fitted	☒	☑	
DIMENSIONS			
External (mm)	332w x 185d x 290h	332w x 270d x 290h	361w x 332d x 290h
Internal (mm)	300w x 150d x 150h	300w x 240d x 150h	325w x 300d x 150h
Water Level Max. (mm)	130		
Water Level Min. (mm)	55		

	NE3-28DT	NE3-56DT
GENERAL		
Chamber Capacity	28 Litre	56 Litre
Temperature Range	Ambient + 5°C - 100°C	
Temperature Control	PID Digital, LED display showing actual or set temperature, resolution 0.1°C	
Temperature Alarm	Over temperature alarm is automatically set 4°C above set point	
Temp. Control & Run Back Timer	Visual indicator and end message 00:01 to 99:59 (hh:mm) activates at set temperature	
Temp. Control & Delay Start Timer	Heating commences at a set time in the future, within 24 hours	
Sensitivity/Uniformity	±0.2°C / ±0.1°C	
Heater Power (220-240V)	1500W	2500W
Voltage	120V or 230V models available 50-60Hz	
Drain Tap Fitted	☑	
DIMENSIONS		
External (mm)	538w x 332d x 290h	660w x 540d x 290h
Internal (mm)	500w x 300d x 200h	620w x 500d x 200h
Water Level Max. (mm)	180	
Water Level Min. (mm)	55	

ShallowBaths™

Clifton digital ShallowBaths™ are perfect for heating small height samples such as micro tubes, micro plates and bottles. ShallowBaths™ require less water and less process chemicals, so are therefore economical to use. Controls feature auto alarm setting, illuminated on/off switch, heater and over temperature indications.

Comprising of a high quality corrosion resistant stainless steel tank, with a bright clean finish housed in a durable painted outer case. Painted surfaces feature anti-bacterial finish with a good chemical resistance.

	NE2-2D	NE2-5D	NE2-9D
GENERAL			
Chamber Capacity	2 Litres	5 Litres	9 Litres
Temperature Range	Ambient + 5°C - 99°C		
Temperature Control	PID Digital, LED display showing actual or set temperature, resolution 0.1°C		
Temperature Alarm	Over temperature alarm is automatically set 4°C above set point		
Sensitivity/Uniformity	±0.2°C / ±0.1°C		
Heater Power (220-240V)	200W	800W	
Voltage	120V or 230V models available 50-60Hz		
DIMENSIONS			
External (mm)	332w x 185d x 135h	361w x 332d x 135h	535w x 332d x 135h
Internal (mm)	300w x 150d x 65h	325w x 300d x 65h	500w x 300d x 65h
Water Level Max. (mm)	40		
Water Level Min. (mm)	20		

NE2-2D ShallowBath with Bath Armor™

Clifton digital ShallowBaths™ are perfect for heating small height samples such as micro tubes, micro plates and bottles. ShallowBaths™ require less water and less process chemicals, so are therefore economical to use. Controls feature auto alarm setting, illuminated on/off switch, heater and over temperature indications.

Comprising of a high quality corrosion resistant stainless steel tank, with a bright clean finish housed in a durable painted outer case. Painted surfaces feature anti-bacterial finish with a good chemical resistance.

Complete with 2 litres of Bath Armor™.

NE2-2DBA

GENERAL	
Temp. Range	Ambient + 5°C - 99°C
Temp. Alarm	Over temperature alarm is automatically set 4°C above set point
Temp. Control	PID Digital, LED display showing actual or set temperature, resolution 0.1°C
Sensitivity/Uniformity	±0.2°C / ±0.1°C
Heater Power (220-240V)	200W
Voltage	120V or 230V models available 50-60Hz
DIMENSIONS	
Tank Capacity	2 Litres
External (mm)	332w x 185d x 135h
Internal (mm)	300w x 150d x 65h
Water Level Max. (mm)	40
Water Level Min. (mm)	20

Features and Benefits
- Bath can remain always on and ready to use when using bath beads.
- Bottles and tubes stay in place, removing the need for racks.
- Environmentally friendly.
- Made from recyclable material.
- Cleaning frequency reduced.
- No water borne contamination.
- Can be washed or sterilised.
- Good thermal heat distribution.

Run costs represent an average of approximately 70% when compared to water.

DuoBaths™

NE2D-4/8 shown with LD-4

Two independently controlled unstirred water baths in one space saving unit provides a stable temperature environment. Featuring PID temperature control for precision. DuoBaths™ feature run back or delay start timer.

Controls feature auto alarm setting, illuminated on/off switch, heater and over temperature indications. Comprising of high quality corrosion resistant tanks, with a bright clean finish housed in durable paint finishes outer case.

Painted surfaces feature anti-bacterial finish with good chemical resistance.

Three shelves are supplied, two at conventional height and a taller 100mm version designed to accommodate small media vessels, bijou style bottles in a shallow depth.

Using the conventional height in both chambers gives the benefit of two standard baths in one space saving unit.

	NE2D-4/4	NE2D-4/8
GENERAL		
Chamber Capacity	4/4 Litre	4/8 Litre
Temp. Range	Ambient + 5°C - 99°C	
Temp. Control	PID Digital, LED display showing actual or set temperature, resolution 0.1°C	
Temp. Alarm	Over temperature alarm is automatically set 4°C above set point	
Temp. Control & Run Back Timer	Visual indicator and end message 00:01 to 99:59 (hh:mm) activates at set temperature	
Sensitivity/Uniformity	±0.2°C / ±0.1°C	
Cross Tank Sensitivity	60°C tank effect on 37°C tank +0.1°C	
Heater Power (220-240V)	800W	1200W
Voltage	230V models available 50-60Hz	
DIMENSIONS		
External (mm)	361w x 332d x 290h	450w x 332d x 290h
Internal (mm)	150w x 300d x 150h 150w x 300d x 150h	150w x 300d x 150h 240w x 300d x 150h
Water Level Max. (mm)	130	
Water Level Min. (mm)	55	

TripleBaths™

NE1D-2/2/2

Triplebath™ features three independently controlled unstirred water baths in one unit.Typically suitable for classroom use performing PCR routines in shallow temperature controlled water, each tank can be set to a different temperature for denaturing, annealing and elongation reducing solvent and consumables.

Comprising of high quality corrosion resistant stainless steel tanks, with a bright clean finish housed in a durable paint finished outer case. Painted surfaces feature anti-bacterial finish with good chemical resistance. 4 Litre chambers are fitted with side lifting handles for ease of transportation.

Each chamber comes complete with a removable "low" height stainless steel perforated shelf.

	NE1-2/2/2	NE1-4/4/4	NE1D-2/2/2	NE1D-4/4/4
GENERAL				
Chamber Capacity	3 x 2 Litre	3 x 4 Litre	3 x 2 Litre	3 x 4 Litre
Temperature Range	Ambient + 5°C - 99°C			
Temperature Control	Analogue dial pointer, graduated in 5°C divisions		Digital, LED display showing actual or set temperature, resolution 1°C	
Sensitivity/Uniformity	±0.5°C / ±0.5°C		±0.25°C / ±0.1°C	
Heater Power (220-240V)	3 x 200W	3 x 400W	3 x 200W	3 x 400W
Voltage	230V / 50-60Hz			
DIMENSIONS				
External (mm)	535w x 332d x 135h	535w x 332d x 290h	535w x 332d x 135h	535w x 332d x 290h
Internal (mm)	150w x 300d x 65h (x3)	150w x 300d x 150h (x3)	150w x 300d x 65h (x3)	150w x 300d x 150h (x3)
Water Level Max. (mm)	30	130	30	130
Water Level Min. (mm)	10	55	10	55

Water Bath Accessories - Lids

Bath Product Code	Stainless Steel Lift Off Gabled Lid	Stainless Steel Hinged Gabled Lid	Stainless Steel Flat Lid	Clear Lift Off Gable Lid
NE1-2.5	N/A	N/A	LD-2.5	N/A
NE1-4	SL1-4	N/A	LD-4	GL1-4AF
NE1-8	SL1-8	N/A	LD-8	GL1-8AF
NE1-14	SL1-14	SL1-14H	LD-14	GL1-14AF
NE1-22	SL1-22	SL1-22H	LD-22	GL1-22AF
NE1-28	SL1-22	SL1-22H	LD-22	GL1-22AF
NE1-56	SL1-56	N/A	LD-56	N/A
NE1D-4	SL1-4	N/A	LD-4	GL1-4AF
NE1D-8	SL1-8	N/A	LD-8	GL1-8AF
NE1D-14	SL1-14	SL1-14H	LD-14	GL1-14AF
NE1D-22	SL1-22	SL1-22H	LD-22	GL1-22AF
NE2-4D	SL1-4	N/A	LD-4	GL1-4AF
NE2-8D	SL1-8	N/A	LD-8	GL1-8AF
NE2-10D	SL1-8	N/A	LD-8	GL1-8AF
NE2-14D	SL1-14	SL1-14H	LD-14	GL1-14AF
NE2-22D	SL1-22	SL1-22H	LD-22	GL1-22AF
NE2-28D	SL1-22	SL1-22H	LD-22	GL1-22AF
NE2-56D	SL1-56	N/A	LD-56	N/A
NE3-4DT	SL1-4	N/A	LD-4	GL1-4AF
NE3-8DT	SL1-8	N/A	LD-8	GL1-8AF
NE3-14DT	SL1-14	SL1-14H	LD-14	GL1-14AF
NE3-28DT	SL1-22	SL1-22H	LD-22	GL1-22AF
NE3-56DT	SL1-56	N/A	LD-56	N/A
NE2D-4/4	SL1-4 / SL1-4	N/A	LD-4 / LD-4	GL1-4AF / GL1-4AF
NE2D-4/8	SL1-4 / SL1-8	N/A	LD-4 / LD-8	GL1-4AF / GL1-8AF
NE1-2/2/2	SL1-4 (x3)	N/A	LD-4 (x3)	GL1-4AF (x3)
NE1-4/4/4	SL1-4 (x3)	N/A	LD-4 (x3)	GL1-4AF (x3)
NE1D-2/2/2	SL1-4 (x3)	N/A	LD-4 (x3)	GL1-4AF (x3)
NE1D-4/4/4	SL1-4 (x3)	N/A	LD-4 (x3)	GL1-4AF (x3)
NE2-2D	SL1-4	N/A	LD-4	GL1-4AF
NE2-5D	SL1-14	N/A	LD-14	GL1-14AF
NE2-9D	SL1-22	N/A	LD-22	GL1-22AF

Stainless Steel Lid with Concentric Rings *Please see below for sizes	Clear Hinged Gable Lid	Polypropylene Spheres Pack of 200
N/A	N/A	BP0368 : 1 Pack
SLR1-4	GL1-4	BP0368 : 1 Pack
SLR1-8 and SLR2-8	GL1-8	BP0368 : 2 Packs
SLR1-14 and SLR2-14	GL1-14	BP0368 : 2 Packs
SLR1-22	GL1-22	BP0368 : 4 Packs
SLR1-22	GL1-22	BP0368 : 4 Packs
N/A	N/A	BP0368 : 4 Packs
SLR1-4	GL1-4	BP0368 : 1 Pack
SLR1-8 and SLR2-8	GL1-8	BP0368 : 2 Packs
SLR1-14, SLR2-14	GL1-14	BP0368 : 2 Packs
SLR1-22	GL1-22	BP0368 : 4 Packs
SLR1-4	GL1-4	BP0368 : 1 Pack
SLR1-8 and SLR2-8	GL1-8	BP0368 : 2 Packs
SLR1-8 and SLR2-8	GL1-8	BP0368 : 2 Packs
SLR1-14, SLR2-14	GL1-14	BP0368 : 2 Packs
SLR1-22	GL1-22	BP0368 : 4 Packs
SLR1-22	GL1-22	BP0368 : 4 Packs
N/A	N/A	BP0368 : 4 Packs
SLR1-4	Included	BP0368 : 1 Pack
SLR1-8 and SLR2-8	Included	BP0368 : 2 Packs
SLR1-14, SLR2-14	Included	BP0368 : 2 Packs
SLR1-22	Included	BP0368 : 4 Packs
N/A	N/A	BP0368 : 4 Packs
SLR1-4	N/A	BP0368 : 2 Packs
SLR1-4 / SLR1-8 and SLR2-8	N/A	BP0368 : 2 Packs
SLR1-4 (x3)	GL1-4 (x3)	BP0368 : 1 Pack
SLR1-4 (x3)	GL1-4 (x3)	BP0368 : 1 Pack
SLR1-4 (x3)	GL1-4 (x3)	BP0368 : 1 Pack
SLR1-4 (x3)	GL1-4 (x3)	BP0368 : 1 Pack
SLR1-4	GL1-4	BP0368 : 1 Pack
SLR1-14, SLR2-14	GL1-14	BP0368 : 2 Packs
SLR1-22	GL1-22	BP0368 : 2 Packs

*SLR1-4 : 2 x 114mm holes / SLR1-8 : 4 x 83mm holes / SLR2-8 : 2 x 114mm holes / SLR1-14 : 4 x 114mm holes
SLR2-14 : 6 x 83mm holes / SLR1-22 : 6 x 114mm holes

Water Bath Accessories

Product Code	Stainless Steel Test Tube Racks **6870** : 26 holes x 17mm Dia. **6873** : 18 holes x 19mm Dia. **6871** : 16 holes x 26mm Dia. **6900** : 12 holes x 32mm Dia. **6872** : 36 holes x 13mm Dia.	Stainless Steel Wire Basket	Bath Armor™ BA-5 : 4 Litre Pack BA-12 : 12 Litre Pack
NE1-2.5	N/A	N/A	BA-5
NE1-4	1 Rack	BSK-4	BA-5
NE1-8	2 Racks	BSK-8	BA-12
NE1-14	4 Racks	BSK-14	BA-12
NE1-22	6 Racks	BSK-22	2 x BA-12
NE1-28	6 Racks	BSK-22	2 x BA-12
NE1-56	12 Racks	N/A	N/A
NE1D-4	1 Rack	BSK-4	N/A
NE1D-8	2 Racks	BSK-8	N/A
NE1D-14	4 Racks	BSK-14	N/A
NE1D-22	6 Racks	BSK-22	N/A
NE2-4D	1 Rack	BSK-4	BA-5
NE2-8D	2 Racks	BSK-8	BA-12
NE2-10D	2 Racks	BSK-8	BA-12
NE2-14D	4 Racks	BSK-14	BA-12
NE2-22D	6 Racks	BSK-22	2 x BA-12
NE2-28D	6 Racks	BSK-22	2 x BA-12
NE2-56D	12 Racks	N/A	N/A
NE3-4DT	1 Rack	BSK-4	BA-5
NE3-8DT	2 Racks	BSK-8	BA-12
NE3-14DT	4 Racks	BSK-14	BA-12
NE3-28DT	6 Racks	BSK-22	2 x BA-12
NE3-56DT	12 Racks	N/A	N/A
NE2D-4/4	1 Rack / 1 Rack	BSK-4 / BSK-4	BA-5 / BA-5
NE2D-4/8	1 Rack / 2 Racks	BSK-4 / BSK-8	BA-5 / BA-12
NE1-2/2/2	1 Rack / 1 Rack / 1 Rack	BSK-4 (x3)	BA-5
NE1-4/4/4	1 Rack / 1 Rack / 1 Rack	BSK-4 (x3)	BA-12
NE1D-2/2/2	1 Rack / 1 Rack / 1 Rack	BSK-4 (x3)	N/A
NE1D-4/4/4	1 Rack / 1 Rack / 1 Rack	BSK-4 (x3)	N/A
NE2-2D	1 Rack	N/A	BA-5
NE2-5D	4 Racks	N/A	BA-5
NE2-9D	6 Racks	N/A	BA-12

Clifton Stirred Water Baths

Clifton stirred lab baths provide a stable temperature environment ideal for meeting quality control requirements. Designed for immersion of flask, bottles and racks for a wide variety of laboratory applications.

Clifton digital water and oil circulators are designed for external circulation of temperature controlled water and heat transfer fluids in a closed circuit.

Both stirred and circulating baths comprise of a high quality corrosion stainless steel tank, with a bright clean finish housed in a durable painted outer case with non slip rubber feet. Painted surfaces feature anti-bacterial finish with good chemical resistance.

Analogue Stirred Lab Bath

Analogue baths have an easy to use dial pointer for setting temperature, graduated in 5°C increments. When low liquid is detected heating is suspended and a warning indicator is visible.

Digital Stirred Lab Bath

Temperatures can be easily and rapidly set with the push button, wipe clean control, featuring a bold LED display. The high precision PID temperature controller ensures that uniformity and sensitivity is guaranteed.

MADE IN BRITAIN®

Stirred Water Baths

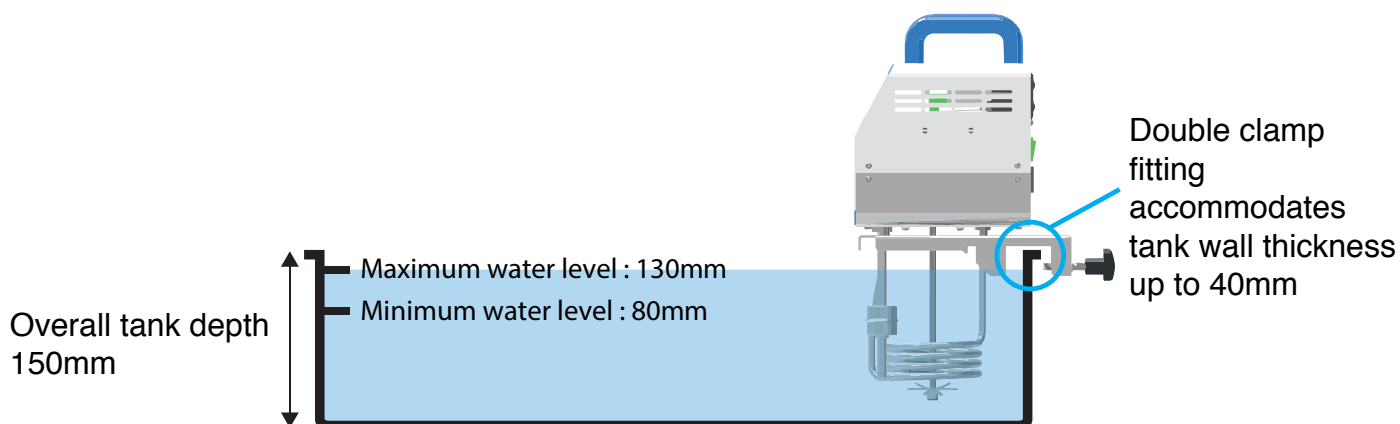# NE4 - SB Universal Heated Thermostirrer

Clifton Range NE4-SB features a digital PID temperature controller which provides even water circulation and temperature stability.

Designed to be fully compatible and easy to fit onto an array of tanks and vessels. Built in the United Kingdom using stainless steel and other premium quality materials the NE4-SB is backed with a three year warranty. Featuring a low-level float device, which ensures heating is switched off if the liquid falls below the recommended level.

Painted surfaces are powder coated with tough anti-bacterial finish with good chemical resistance. Easy to use controls that are wipe clean also have an anti-bacterial finish.

NE4 - SB

GENERAL	
Max Tank Capacity	60 Litre
Temperature Range	Ambient + 5°C - 99°C (-20°C with accessory cooling)
Temperature Control	PID Digital, LED display, resolution 0.1°C
Temperature Alarm	Under/over temperature alarm is automatically set 4°C above and 4°C below set point
Sensitivity	±0.05°C
Timer	Visual indicator and audible end message - Variable 00:01 to 99:59 hh:mm
Heater Power (220-240V)	2000W
Voltage	230V models available 50-60Hz
DIMENSIONS	
External (mm)	122w x 240d x 335h mm
Tank mounting (mm)	Double clamp fitting accommodates tank max wall thickness 40mm
Tank water Levels (mm)	Example : with overall tank depth 150mm / max water level 130mm / min 80mm (see below)

Maximum water level : 130mm

Minimum water level : 80mm

Overall tank depth 150mm

Double clamp fitting accommodates tank wall thickness up to 40mm

NE4-T Series Analogue Stirred Baths

Clifton analogue stirred water baths are designed for immersion of flasks, bottles and racks in a stable temperature environment.

The stainless steel tank is contained within a sturdy outer case and supplied complete with a stainless steel shelf, which provides good water circulation and temperature stability.

NE4-14T

	NE4-8T	NE4-14T
GENERAL		
Chamber Capacity	8 Litre	14 Litre
Temperature Range	Ambient + 5°C - 99°C	
Temperature Control	Analogue dial pointer, graduated in 5°C divisions	
Sensitivity/Uniformity	±0.2°C / ±0.05°C	
Heater Power (220-240V)	1250W	
Voltage	230V models available 50-60Hz	
DIMENSIONS		
External (mm)	271w x 332d x 170h	361w x 332d x 170h
Internal (mm)	129w x 300d x 150h	219w x 298d x 150h
Water Level Max. (mm)	130	

	NE4-22T	NE4-28T
GENERAL		
Chamber Capacity	22 Litre	28 Litre
Temperature Range	Ambient + 5°C - 99°C	
Temperature Control	Analogue dial pointer, graduated in 5°C divisions	
Sensitivity/Uniformity	±0.2°C / ±0.05°C	
Heater Power (220-240V)	1250W	
Voltage	230V models available 50-60Hz	
Drain Outlet	☒	☑
DIMENSIONS		
External (mm)	537w x 332d x 170h	537w x 332d x 290h
Internal (mm)	395w x 298d x 150h	395w x 298d x 200h
Water Level Max. (mm)	130	180

NE4-D Classic Digital Stirred Baths

Clifton stirred water baths feature a digital PID temperature controller and are designed for immersion of flasks, bottles and racks in an accurate temperature environment throughout the water bath.
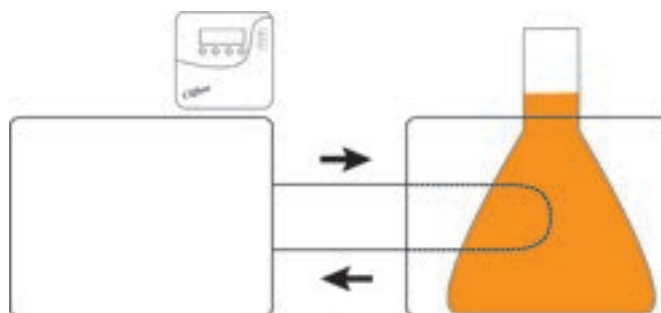
Constructed using durable stainless steel, painted surfaces are powder coated with anti-bacterial finish with good chemical resistance. Easy to use controls that wipe clean also have an anti-bacterial finish.

NE4-22D

The stainless steel tank is housed in a sturdy outer case and is supplied complete with a stainless steel shelf which provides even water circulation and temperature stability.

	NE4-8D	NE4-14D	NE4-22D
GENERAL			
Chamber Capacity	8 Litre	14 Litre	22 Litre
Temperature Range	Ambient + 5°C - 99°C (-20°C with accessory cooling)		
Temperature Control	PID Digital, LED display, resolution 0.1°C		
Temperature Alarm	Under/over temperature alarm is automatically set 4°C above and 4°C below set point		
Sensitivity/Uniformity	±0.05°C / ±0.01°C		
Timer	Visual indicator and audible end message - Variable 00:01 to 99:59 hh:mm		
Heater Power (220-240V)	1250W		
Voltage	120V or 230V models available 50-60Hz		
DIMENSIONS			
External (mm)	271w x 332d x 170h	361w x 332d x 170h	537w x 332d x 170h
Internal (mm)	129w x 300d x 150h	219w x 298d x 150h	395w x 298d x 150h
Water Level Max. (mm)	130		

	NE4-28D	NE4-38D	NE4-56D
GENERAL			
Chamber Capacity	28 Litre	38 Litre	56 Litre
Temperature Range	Ambient + 5°C - 99°C*	Ambient + 5°C - 99°C (-10°C with accessory cooling)	
Temperature Control	PID Digital, LED display, resolution 0.1°C		
Temperature Alarm	Under/over temperature alarm is automatically set 4°C above and 4°C below set point		
Sensitivity/Uniformity	±0.05°C / ±0.01°C		±0.2°C / ±0.02°C
Timer	Visual indicator and v end message - Variable 00:01 to 99:59 hh:mm		
Heater Power (220-240V)	1250W		2000W
Voltage	120V or 230V models available 50-60Hz		230V / 50-60Hz
Drain Outlet	☑		
DIMENSIONS			
External (mm)	537w x 332d x 290h	715w x 330d x 235h	660w x 540d x 290h
Internal (mm)	395w x 298d x 200h	570w x 295d x 200h	490w x 500d x 200h
Water Level Max. (mm)	180	190	180

*-20°C with accessory cooling

NE4 - D/CT Clear Tank Digital Baths

NE4-22D/CT

Clifton stirred water baths feature a digital PID temperature controller and are designed for immersion of flasks, bottles and racks in an accurate temperature environment throughout the water bath.

	NE4-14D/CT	NE4-22D/CT
GENERAL		
Chamber Capacity	14 Litre	22 Litre
Temperature Range	Ambient + 5°C - 90°C (0°C with accessory cooling)	
Temperature Control	PID Digital, LED display, resolution 0.1°C	
Temperature Alarm	Under/over temperature alarm is automatically set 4°C above and 4°C below set point	
Sensitivity/Uniformity	±0.05°C / ±0.01°C	
Timer	Visual indicator and audible end message - Variable 00:01 to 99:59 hh:mm	
Heater Power (220-240V)	1250W	
Voltage	120V or 230V models available 50-60Hz	
DIMENSIONS		
External (mm)	530w x 325d x 295h	530w x 325d x 345h
Internal (mm)	385w x 290d x 150h	385w x 290d x 200h
Water Level Max	130	

NE4-HT High Temp. Digital Stirred Baths

Clifton digital circulating baths are designed for circulation of temperature controlled water in a closed circuit or for maintaining a stable temperature environment.

Clifton circulating baths are constructed using durable stainless steel, painted surfaces are powder coated with tough anti-bacterial finish with good chemical resistance. Easy to use controls that wipe clean also have an anti-bacterial finish. Quiet running in use and providing excellent water temperature stability. Indication of heating, over temperature alarm and timer running.

This range features the ability to pump temperature controlled liquid around a closed circuit.

NE4-8HT

	NE4-8HT	NE4-14HT	NE4-22HT
GENERAL			
Chamber Capacity	8 Litre	14 Litre	22 Litre
Temperature Range	Ambient + 5°C - 130°C (-20°C with accessory cooling)		
Temperature Control	PID Digital, LED display, resolution 0.1°C		
Temperature Alarm	Under/over temperature alarm is automatically set 4°C above and 4°C below set point		
Sensitivity/Uniformity	±0.05°C / ±0.01°C		
Timer	Visual indicator and audible end message - Variable 00:01 to 99:59 hh:mm		
Pump Capacity & Pressure	10 litres/min - 150 mbar		
Pump Connection Ports	Inlet & outlet ports take 4mm bore x 6mm o/d tubing		
Heater Power (220-240V)	1250W		
Voltage	120V or 230V models available 50-60Hz		
DIMENSIONS			
External (mm)	271w x 332d x 170h	361w x 332d x 170h	537w x 332d x 170h
Internal (mm)	129w x 300d x 150h	219w x 298d x 150h	395w x 298d x 150h
Water Level Max. (mm)	130		

Capable of external circulation in a closed circuit

NE4 - P Circulating Digital Baths

Clifton digital circulating baths are designed for precise temperature control and immersion of flasks, bottles, and racks. These baths are constructed using durable stainless steel with a tough anti-bacterial finish, with good chemical resistance.

Immersed components are corrosion-resistant, while the quiet operation ensures excellent water temperature stability. The range includes a circulation pump with a capacity of 10 litres per minute, providing reliable circulation in a closed circuit.

NE4-8P

Features include heating indication, over temperature alarm, and timer function.

	NE4 - 8P	NE4 - 14P
GENERAL		
Chamber Capacity	8 Litres	14 Litres
Temperature Range	Ambient + 5°C - 99°C (-20°C with accessory cooling)	
Temperature Control	PID Digital, LED display, resolution 0.1°C	
Temp. Alarm	Under/over temperature alarm is automatically set 4°C above and 4°C below set point	
Sensitivity/Uniformity	±0.05°C / ±0.01°C	
Timer	Visual indicator and audible end message - Variable 00:01 to 99:59 hh:mm	
Pump Capacity & Pressure	10 litres/min - 150 mbar	
Pump Connection Ports	Inlet & outlet ports take 4mm bore x 6mm o/d tubing	
Heater Power (220-240V)	1250W	
Voltage	120V or 230V models available 50-60Hz	
DIMENSIONS		
External (mm)	271w x 332d x 170h	361w x 332d x 170h
Internal (mm)	129w x 300d x 150h	219w x 298d x 150h
Water Level Max. (mm)	130	

	NE4 - 22P	NE4 - 28P	NE4 - 56P
GENERAL			
Chamber Capacity	22 Litre	28 Litre	56 Litre
Temperature Range	Ambient + 5°C - 99°C (-20°C with accessory cooling)		
Temperature Control	PID Digital, LED display, resolution 0.1°C		
Temperature Alarm	Under/over temperature alarm is automatically set 4°C above and 4°C below set point		
Sensitivity/Uniformity	±0.05°C / ±0.01°C		±0.2°C / ±0.02°C
Timer	Visual indicator and end message - Variable 00:01 to 99:59 hh:mm		
Pump Capacity & Pressure	10 litres/min - 150mbar		
Pump Connection Ports	Inlet & outlet ports take 4mm bore x 6mm o/d tubing		
Drain Outlet	☒		☑
Heater Power (220-240V)	1250W		2000W
Voltage	120V or 230V models available 50-60Hz		230V / 50-60Hz
DIMENSIONS			
External (mm)	537w x 332d x 170h	537w x 332d x 290h	660w x 540d x 290h
Internal (mm)	395w x 298d x 150h	395w x 298d x 200h	490w x 500d x 200h
Water Level Max. (mm)	130	180	

Stirred & Circulating Water Bath Accessories

Product Code	Stainless Steel Gabled Lid with Insulated Handle	Stainless Steel Flat One Piece Lid with Insulated Handle	Stainless Steel Raised Shelves
NE4-8T	SL4-8	LD4-8	N/A
NE4-14T	SL4-14	LD4-14	RS4-14
NE4-22T	SL4-22	LD4-22	RS4-22
NE4-28T	SL4-22	LD4-22	RS4-22
NE4-8D	SL4-8	LD4-8	N/A
NE4-14D	SL4-14	LD4-14	RS4-14
NE4-22D	SL4-22	LD4-22	RS4-22
NE4-28D	SL4-22	LD4-22	RS4-22
NE4-38D	SL4-38	N/A	RS4-38
NE4-56D	SL4-56	N/A	N/A
NE4-8HT	SL4-8	LD4-8	N/A
NE4-14HT	SL4-14	LD4-14	RS4-14
NE4-22HT	SL4-22	LD4-22	RS4-22
NE4-8P	SL4-8	LD4-8	N/A
NE4-14P	SL4-14	LD4-14	RS4-14
NE4-22P	SL4-22	LD4-22	RS4-22
NE4-28P	SL4-22	LD4-22	RS4-22
NE4-56P	SL4-56	N/A	N/A

Stainless Steel Test Tube Racks	Polypropylene Spheres: Pack of 200
6870 : 26 holes x 17mm Dia. **6873** : 18 holes x 19mm Dia. **6871** : 16 holes x 26mm Dia. **6900** : 12 holes x 32mm Dia. **6872** : 36 holes x 13mm Dia.	
1 Rack	BP0368 : 1 Pack
3 Racks	BP0368 : 2 Packs
5 Racks	BP0368 : 3 Packs
5 Racks	BP0368 : 3 Packs
1 Rack	BP0368 : 1 Pack
3 Racks	BP0368 : 2 Packs
5 Racks	BP0368 : 3 Packs
5 Racks	BP0368 : 3 Packs
7 Racks	BP0368 : 5 Packs
10 Racks	BP0368 : 8 Packs
1 Rack	BP0368 : 1 Pack
3 Racks	BP0368 : 2 Packs
5 Racks	BP0368 : 3 Packs
1 Rack	BP0368 : 1 Pack
3 Racks	BP0368 : 2 Packs
5 Racks	BP0368 : 3 Packs
5 Racks	BP0368 : 3 Packs
10 Racks	BP0368 : 8 Packs

Universal Accessories

CAL	Calibration record
BX0616	Drain Syphon
HS-1	Push fit insulated hose for circulating bath -40°C to 130°C 1m length
HS-2	Push fit insulated hose for circulating bath -40°C to 130°C 2m length
DC1-300	Immersion Cooler (see page 44 for more details)
BX0953	Drain Tap (for use with 28, 38 and 56 litre stirred baths)

Clifton Boiling Baths

All Clifton boiling baths feature an integral constant level device to maintain constant water level during operation. On rectangular baths, the constant water level device has a visible water spout for checking water flow.

There are three styles in the range of Clifton boiling baths, designed for applications that require continuous boiling and for gentle heating of samples in steam.

The NE1B series of boiling baths comprise of a high quality corrosion resistant stainless steel tank, with a bright clean finish house in a durable painted outer case. Painted surfaces feature anti-bacterial finish with good chemical resistance. Also available as a digital option.

1000 and 1100 Series

The 1000 and 1100 series rectangular boiling baths provide an effective source of heat for samples that may be damaged by a naked flame. The baths are available in stainless steel or aluminium. An energy regulator option allows bath to be controlled from a gentle simmer to a vigorous boil.
The steam produced provides an effective source of heat for samples:

- That may be otherwise thermally damaged by a
naked flame.
- Used for applications to distil/concentrate liquids, melt agar and other solids.
- Metallurgical analysis, protein analysis and
bacteriological examinations.

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NE1B Analogue Boiling Baths

Designed for applications that require continuous boiling. This bath also has the flexibility where the control can be regulated from a gentle simmer to a vigorous boil.

Comprising of a stainless steel tank housed in a durable paint finished outer case. Painted surfaces feature a tough anti-bacterial finish with good chemical resistance. Complete with a removable stainless steel perforated false base, drain tap and clear lift off lid. The bath, which is simmer-statically controlled, is ideally suited to prolonged periods of boiling.

NE1B-14

Fitted with a sheathed immersion element. With the heater directly immersed in water it provides rapid boiling. A standard feature is a constant level device, which maintains a fixed level of liquid thereby eliminating the need to regularly top up the bath.

	NE1B-14	NE1B-18W	NE1B-28
GENERAL			
Chamber Capacity	14 Litres	18 Litres	28 Litres
Temperature Range	Simmer to boiling at 100°C		
Temperature Control	Featuring an energy regulator which controls the amount of boiling from a gentle simmer to vigorous boil		
Heater Power (220-240V)	2500W		
Voltage	230V / 50-60Hz		
Water Level Alarm	Features low liquid level float device, heating automatically suspended		
Sterilising Tray	☒	☑	☒
Clear Lift Off Lid Supplied	☑		
Drain Tap Fitted	☑		
Constant Level Device	☑	☒	☑
DIMENSIONS			
External (mm)	362w x 332d x 290h		538w x 332d x 290h
Internal (mm)	325w x 300d x 150h	325w x 300d x 200h	500w x 300d x 200h

Low liquid float device

A low liquid float device protects the heaters and a red warning light on the front panel alerts users to refill the bath.

NE1B-18W

Raise and lower sterilising tray along with pair of guide rail assemblies comes as standard. Provides a safe method of lifting sterilised items from boiling water. Excess hot water drains away.

NE1BD Digital Boiling Baths

NE1BD-14

Designed for applications that require continuous boiling. This bath also has the flexibility where the digital control can be regulated from a gentle simmer to a vigorous boil.

Comprising of a stainless steel tank housed in a durable paint finished outer case. Painted surfaces feature a tough anti-bacterial finish with good chemical resistance. Complete with a removable stainless steel perforated false base, drain tap and clear lift off lid.

Fitted with a sheathed immersion element. With the heater directly immersed in water it provides rapid boiling. A standard feature is a constant level device, which maintains a fixed level of liquid thereby eliminating the need to regularly top up the bath.

	NE1BD-14	NE1BD-18W	NE1BD-28
GENERAL			
Chamber Capacity	14 Litres	18 Litres	28 Litres
Temperature Range	Simmer 80°C to boiling at 105°C		
Temperature Control	Digital, LED display showing actual or set, resolution 1°C		
Heater Power (220-240V)	2500W		
Voltage	230V / 50-60Hz		
Water Level Alarm	Features low liquid level float device, heating automatically suspended		
Sterilising Tray	☒	☑	☒
Clear Lift Off Lid Supplied	☑		
Drain Tap Fitted	☑		
Constant Level Device	☑	☒	☑
DIMENSIONS			
External (mm)	362w x 332d x 290h		538w x 332d x 290h
Internal (mm)	325w x 300d x 150h	325w x 300d x 200h	500w x 300d x 200h

Low liquid float device

A low liquid float device protects the heaters and a red warning light on the front panel alerts users to refill the bath.

NE1BD-18W

Raise and lower sterilising tray along with pair of guide rail assemblies comes as standard. Provides a safe method of lifting sterilised items from boiling water. Excess hot water drains away.

1000 Series Boiling Baths

1026ER

Stainless steel round boiling baths. 1026ER regulates from a gentle simmer to a vigorous boil, whereas the 1026E continuously boils. Both fitted with a sheathed immersion heater and constant water level device, with resettable thermal cut out for low water level condition. Supplied with a set of rings to vary the aperture diameter accommodating different sizes of vessels such as evaporating dishes, glassware and round bottom flasks heated by steam.

The steam produced provides an effective source of heat for samples:

- That may be otherwise thermally damaged by a naked flame.
- Used for applications to distil/concentrate liquids, melt agar and other solids.
- Metallurgical analysis, protein analysis and bacteriological examinations.

	1026ER	1026E
GENERAL		
Chamber Capacity	3.24 Litres	
Temperature Range	Simmer to boiling at 100°C	Boiling at 100°C
Temperature Control	Energy regulator controls the amount of boiling from a gentle simmer to vigorous boil	Constant boiling no control
Heater Indicator	This indicates ON = heating, off safety cut out has fired	
Heater Power (220-240V)	1000W	
Voltage	230V models 50-60Hz	
DIMENSIONS		
External (mm)	200w x 130d	

By removing concentric rings, the hole sizes can be varied to accommodate different sizes of vessels.

Centre ring - removed, aperture 30mm hole

Ring 1 - removed, aperture 42mm hole
Ring 2 - removed, aperture 58mm hole
Ring 3 - removed, aperture 78mm hole
Ring 4 - removed, aperture 103mm hole
Ring 5 - removed, aperture 128mm hole
Ring 6 - removed, aperture 153mm hole

Constant level device maintains liquid level during boiling. Use standard laboratory tubing and connect one outlet to a tap and adjust the water supply to maintain boiling water level. The other outlet acts as an overflow to a sink or drain.

1100 Series Boiling Baths

Rectangular boiling baths available in a choice of aluminium or stainless steel are both electrically heated. The multi-place baths are fixed temperature for boiling water, fitted with sheathed immersion heater, resettable cut-out for safety and concentric ringed lids to vary the hole size. The ER range regulates from a gentle simmer to a vigorous boil whereas the E range continuosly boils. Complete with lid.

1105ER & 1105E are made with aluminium.
1101ER, 1101E, 1104ER, 1104E & 1102E are made with stainless steel.

GENERAL	1105E	1105ER	1101E	1102E
Temp. Range	Boiling at 100°C	Simmer to boiling at 100°C	Boiling at 100°C	
Temp. Control	Constant boiling no control	Energy regulator controls the amount of boiling from a gentle simmer to vigorous boil	Constant boiling no control	
Heater Power (220-240V)	1000W			
Voltage	230V models 50-60Hz			
DIMENSIONS				
Tank Capacity	5 litres (nominal capacity)		4.5 litres	8.8 litres
External (mm)	400w x 200d x 90h		321w x 219d x 90h	425w x 321d x 90h
No. of holes & Diameter	6 hole x 80 mm diameter			6 hole x 101 mm dia

GENERAL	1101ER	1104E	1104ER
Temp. Range	Simmer to boiling at 100°C	Boiling at 100°C	Simmer to boiling at 100°C
Temp. Control	Energy regulator controls the amount of boiling from a gentle simmer to vigorous boil	Constant boiling no control	Energy regulator controls the amount of boiling from a gentle simmer to vigorous boil
Heater Power (220-240V)	1000W		
Voltage	230V models 50-60Hz		
DIMENSIONS			
Tank Capacity	4.5 litre	8.8 litre	
External (mm)	321w x 219d x 90h	425w x 321d x 90h	
No. of holes & Diameter	6 hole x 80 mm diameter	12 hole x 80 mm diameter	

By removing concentric rings, the hole sizes can be varied to accommodate different sizes of vessels simultaneously.
Centre ring – removed, aperture 30mm hole
Ring 1 – removed, aperture 42mm hole
Ring 2 – removed, aperture 58mm hole
Ring 3 – removed, maximum 80mm hole
Ring 4 – removed, maximum 101mm hole
1101E, 1104E and 1105E have 3 concentric ring sets, and centre ring.

1104E

Boiling Bath Accessories

Bath Product Code	Stainless Steel Gabled Lid	Stainless Steel Hinged Gabled Lid	Stainless Steel Flat Lid	Clear Lift Off Gable Lid
NE1B-14	N/A	SL1-14H/SS	LD-14	GL1-14AF
NE1B-18W	N/A	SL1-14H/SS	LD-14	GL1-14AF
NE1B-28	SL1-22SS	N/A	LD-22	GL1-22AF
NE1BD-14	N/A	SL1-14H/SS	LD-14	GL1-14AF
NE1BD-18W	N/A	SL1-14H/SS	LD-22	GL1-14AF
NE1BD-28	SL1-22SS	N/A	LD-22	GL1-22AF

Bath Product Code	Stainless Steel Lid with Concentric Rings *Please see below for sizes	Stainless Steel Hinged Gabled Lid	Clear Lift Off Gable Lid
NE1B-14	SLR1-14, SLR2-1	GL1-14	GL1-14AF
NE1B-18W	N/A	GL1-14	GL1-14AF
NE1B-28	SLR1-22	GL1-22	GL1-22AF
NE1BD-14	SLR1-14, SLR2-14	GL1-14	GL1-14AF
NE1BD-18W	N/A	GL1-14	GL1-14AF
NE1BD-28	SLR1-22	GL1-22	GL1-22AF

*SLR1-4 : 2 x 114mm holes / SLR1-8 : 4 x 83mm holes / SLR2-8 : 2 x 114mm holes / SLR1-14 : 4 x 114mm holes
SLR2-14 : 6 x 83mm holes / SLR1-22 : 6 x 114mm holes

Boiling Baths

Shaking Baths

Clifton shaking water baths are ideal for day to day use. Available in digital or analogue option. Featuring a broad range of accessory flask clips and racks ensures flexibility for routine and specialised work.

Comprising of a high quality corrosion resistant stainless steel tank, with a bright clean finish housed in a durable painted outer case. Painted surfaces feature anti-bacterial finish with good chemical resistance. Fitted with non slip rubber feet.

Accessory clips and racks can be easily mounted onto the perforated tray which fits onto the reciprocating stainless steel trolley. The trolley can also be easily removed for cleaning.

Analogue Shaking Bath

Analogue shaking water bath features analogue temperature and shaking speed control. An adjustable over temperature device can be set a few degrees above set working temperature, protecting samples from damage and over heating.

Digital Shaking Bath

Digital shaking water baths allow temperatures to be easily and rapidly set with the push button, wipe clean control panel, featuring bold LED display. The high precision PID temperature controller, ensures that accurate results and repeatability is guaranteed.

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NE5 Series Shaking Baths

The Clifton NE5-D series of shaking water baths, feature precision PID control, allowing observation of set and actual temperature simultaneously. A broad range of accessory flask clips and racks ensures flexibility for routine and specialised work.

NE5-D features bold LED display of measured temperatures in real-time, increments of ±0.1°C, using precision PID temperature control. NE5-28DT has a built in timer, settings variable, 00:01 to 99:59 [hh:mm] which activates at set temperature. Settings retained even after turning the unit off.

NE5-10D

	NE5-10D	NE5-28D	NE5-28DT	NE5-28
GENERAL				
Chamber Capacity	10 litres	28 litres		
Temperature Range	Ambient +5°C - 100°C (-15°C with accessory cooling)			Ambient +5°C - 99°C
Temperature Alarm	Under/over temperature alarm is automatically set 4°C above and 4°C below set point.			Adjustable over temperature device
Temperature Control	Digital touch keypad, high precision controller, resolution 0.1°C			Analogue dial pointer
Sensitivity/Uniformity	±0.1°C/±0.1°C @ 45°C (optimal water level 75mm to 120mm)			±0.2°C/+0.1°C @ 45°C (optimal water level 75mm to 120mm)
Temperature Control and Run Back Timer	N/A		Audible end message, 00:01 to 99:59 [hh:mm], activates at set temperature	N/A
Heater Power (220-240V)	800W	1000W		
Voltage	230V models 50-60Hz			
Linear Shaking Control	Shaking control 0 to 400 strokes / 0 to 200rpm			
Stroke Length	Fixed 20mm Stroke	Variable up to 40mm Stroke		
Speed Display	Analogue			
Drain Outlet	☒	☑		
DIMENSIONS				
External (mm)	449w x 332d x 290h	715w x 332d x 290h		
Internal (mm)	242w x 300d x 200h	500w x 298d x 200h		
Perforated Shelf/Trolley (mm)	175w x 270d	389w x 270d		
Water Level Max. (mm)	120			
Water Level Min. (mm)	50			

Shaking Baths

Shaking Bath Accessories - Lids

	Stainless Steel Gabled Lid with Insulated Handle	Stainless Steel Hinged Gabled Lid with Insulated Handle	Clear Lift Off Gable Lid	Clear Lift Off Gable Lid
Product Code				
NE5-10D	SL1-8	N/A	GL1-8AF	GL1-8
NE5-28D	SL1-22	SL1-22H	GL1-22AF	GL1-22
NE5-28DT	SL1-22	SL1-22H	GL1-22AF	GL1-22
NE5-28	SL1-22	SL1-22H	GL1-22AF	GL1-22

Trays

	Stainless Steel Flask Clip Tray *Please see sizes below	Universal Spring Tray	Stainless Steel Perforated Tray	Stainless Steel Test Tube Rack Tray
Product Code				
NE5-10D	N/A	N/A	SA01773	N/A
NE5-28D	1 Tray	SFT9000	SBF01804	STT004
NE5-28DT	1 Tray	SFT9000	SBF01804	STT004
NE5-28	1 Tray	SFT9000	SBF01804	STT004

*SFT0025 : 39 x 25ml / SFT0050 : 32 x 50ml / SFT0100 : 18 x 100ml / SFT0250 : 12 x 250ml
SFT0500 : 8 x 500ml / SFT1000 : 5 x 1000ml / SFT2000 : 2 x 2000ml

Universal

	Stainless Steel Test Tube Racks *Please see sizes below	Polypropylene Spheres Pack of 200	Stainless Steel Flask Clips *Please see sizes below	Drain Tap
Product Code				
NE5-10D	2 Racks	BP0368 : 2 Packs	Available	BX0953
NE5-28D	4 Racks	BP0368 : 4 Packs	Available	BX0953
NE5-28DT	4 Racks	BP0368 : 4 Packs	Available	BX0953
NE5-28	4 Racks	BP0368 : 4 Packs	Available	BX0953

6870 : 26 holes x 17mm Dia.
6871 : 16 holes x 26mm Dia.
6872 : 36 holes x 13mm Dia.
6873 : 18 holes x 19mm Dia.
6900 : 14 holes x 32mm Dia.

FC0025 : 25ml
FC0050 : 50ml
FC0100 : 100ml
FC0250 : 250ml
FC0500 : 500ml
FC1000 : 1000ml
FC2000 : 2000ml

Ultrasonic Baths

These industrial strength ultrasonic baths are designed for demanding applications. The baths are also ideal for cleaning delicate or fragile components which may otherwise be damaged by mechanical cleaning.

Supplied complete with lid and basket.

Clifton ultrasonic baths are constructed from high quality stainless steel for durability, with side lifting handles on models SW3H upwards for easy transportation.

Control Panel

The touch pad, wipe clean, control panel with rotary dials for time and temperature, can be set between 30°C and 80°C in 5°C increments. The timer can be selected to operate between 1-30 minutes or continuously up to 6 hours.

Range of sizes

The baths are available from 1 to 30 litres capacity and feature eco and dynamic sonic modes. Eco offers quiter gentler ultrasonic activity whilst dynamic running provides vigorous cleaning.

SW Series Ultrasonic Baths

	SW1H	SW3H	SW6H
GENERAL			
Chamber Capacity	1 Litre	3 Litre	6 Litre
Temperature Range	30°C - 80°C in 5°C increments		
Temperature Control	Analogue dial pointer		
Timer	Time setting OFF, 1 , 2, 3, 4, 5, 10, 15, 20, 25, 30 minutes or continuous		
Voltage	120V or 230V models 50-60Hz		
Ultrasonic Effective Power	30W	80W	150W
Ultrasonic Peak Power/ Frequency	240W / 37kHz	320W / 37kHz	600W / 37kHz
Heater Power (220-240V)	60W	200W	400W
Drain Tap Fitted	☒		☑
Complete with Lid & Basket	☑		
DIMENSIONS			
External (mm)	235w x 135d x 190h	305w x 190d x 230h	370w x 200d x 275h
Internal (mm)	190w x 85d x 60h	220w x 120d x 100h	275w x 125d x 150h

	SW12H	SW30H
GENERAL		
Chamber Capacity	12 Litre	30 Litre
Temp. Range	30°C - 80°C in 5°C increments	
Temp. Control	Analogue dial pointer	
Timer	Time setting OFF, 1 , 2, 3, 4, 5, 10, 15, 20, 25, 30 minutes or continuous	
Voltage	120V or 230V models 50-60Hz	
Ultrasonic Effective Power	200W	300W
Ultrasonic Peak Power/ Frequency	800W / 37kHz	1200W / 37kHz
Heater Power (220-240V)	800W	1200W
Drain Tap Fitted	☑	
Complete with Lid & Basket	☑	
DIMENSIONS		
External (mm)	380w x 290d x 330h	575w x 355d x 330h
Internal (mm)	300w x 215d x 200h	475w x 270d x 200h

Accessories

Neutral foam-inhibited cleaning concentrate

Bath	SW1H	SW3H	SW6H	SW12H	SW30H
Accessory Code	SW-CL2				

Clifton Immersion Dip Cooler
DC Series Dip Cooler

DC1-300 immersion cooler constantly extracts heat with the stirrer or circulator controlling the actual temperature of the bath liquid.

The unit consists of a stainless-steel immersion coil (65mm diameter) on a 900mm flexible stainless steel pipe with a protective outer shield which is connected to the refrigeration unit. With NE4 series of digital stirred baths; the cooling coil is placed at the rear of the thermostirrer and does not impact on the useable area of the bath thus maintaining maximum working space. The immersion cooler designed to cool liquids 20°C or below.

The outer casing of the refrigeration unit has an anti-bacterial painted finish. It is recommended that accessory lid or spheres are used on the bath to maximise efficiency.

Time taken to cool glycol / water mix from 20°C to -20°C based on NE4-8D and NE4-28D Bath:

	NE4-8D	NE4-28D
0°C	13 mins	40 mins
-10°C	22 mins	120 mins
-20°C	40 mins	330 mins

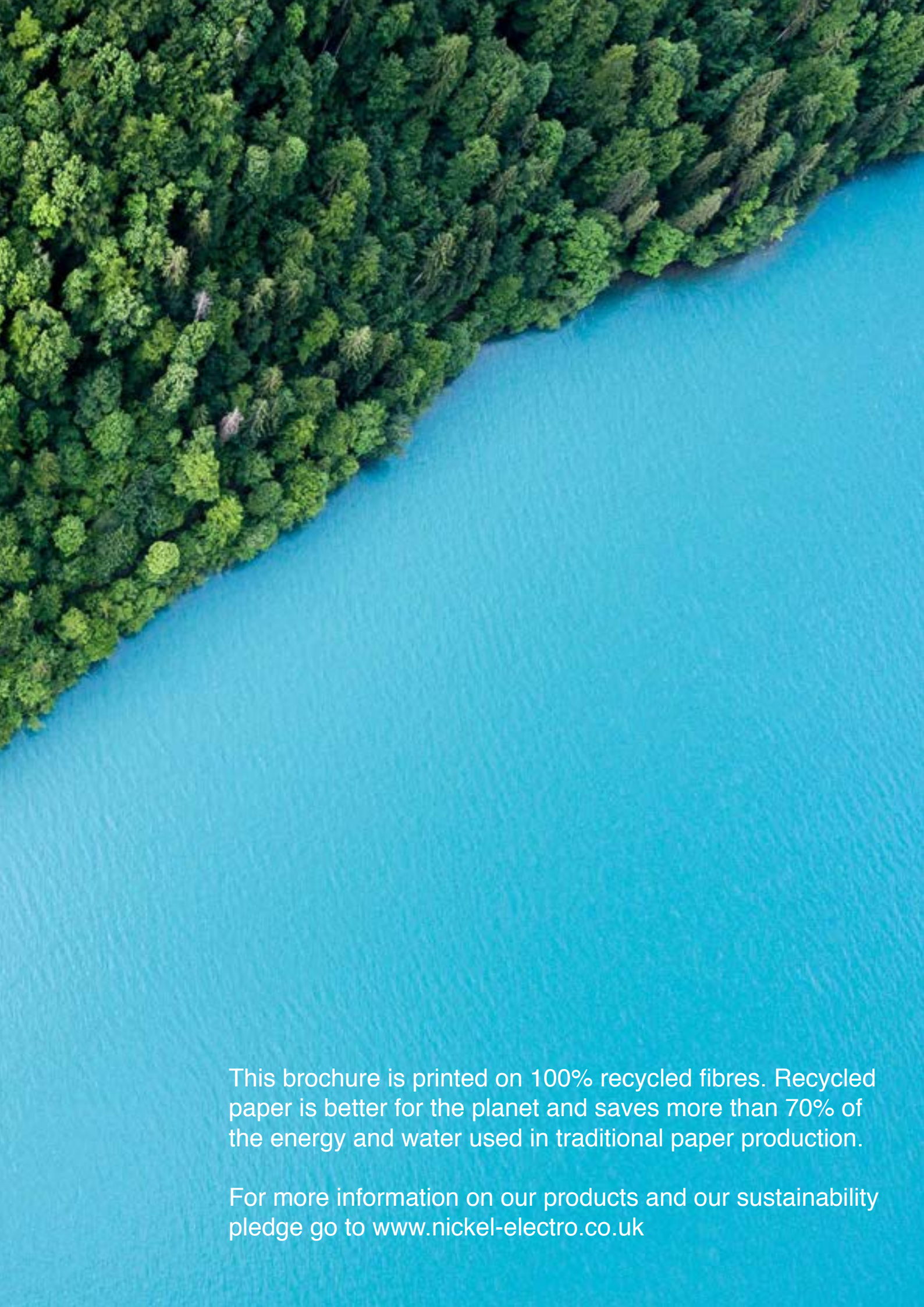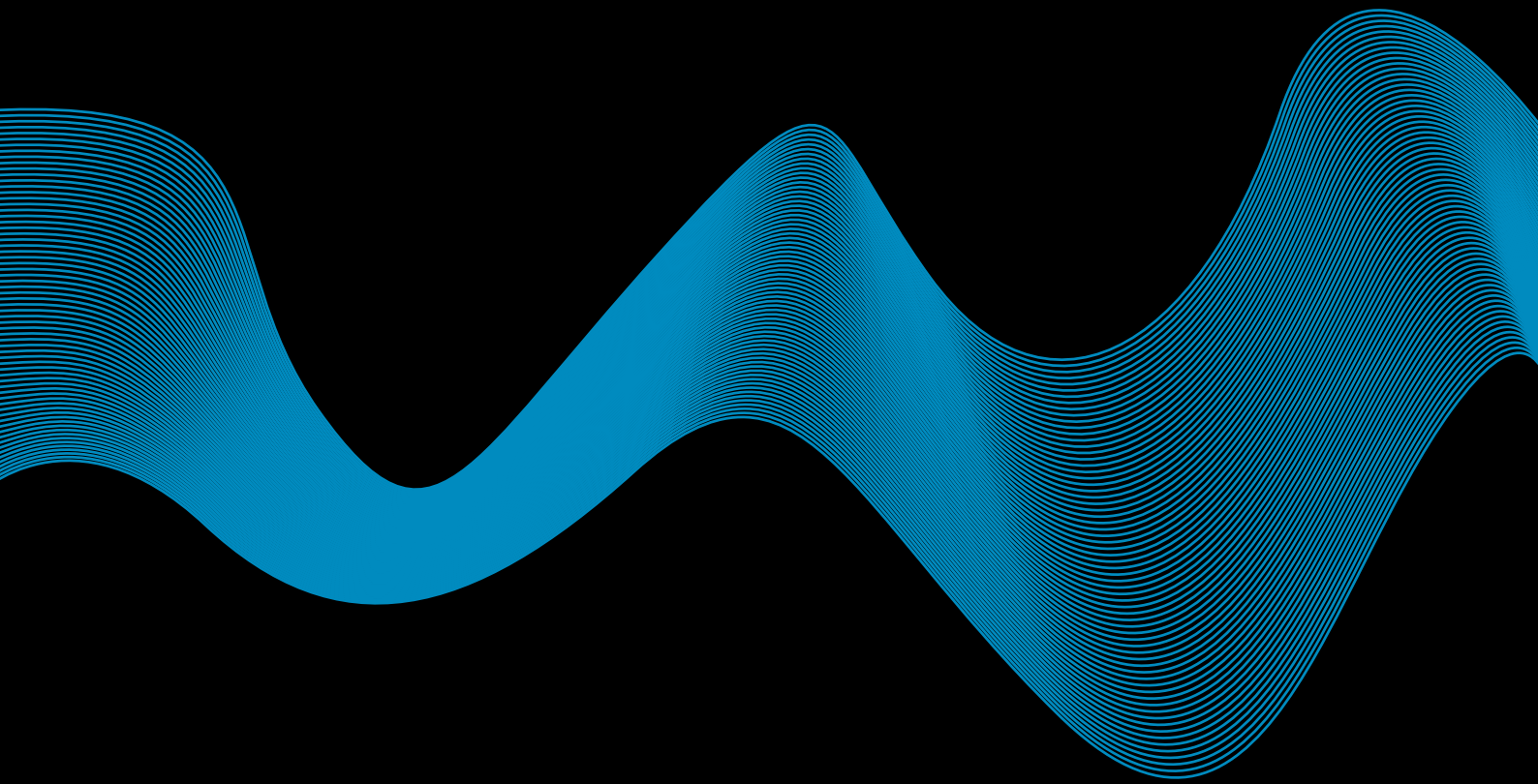| DC1-300	
GENERAL	
Temp. Range	Ambient -20°C
Temp. Control	None. Continuously providing counter cooling with stirrer/circulator providing temp control.
Cooling Power	10°C : 800W 0°C : 580W -10°C : 400W -20°C : 250W Refrigerant : R134a
Voltage	230V 50-60Hz
DIMENSIONS	
External (mm)	345w x 470d x 300h
Internal (mm)	Coil diameter 65mm fitted onto the end of a 900mm long flexible cooling line.

Clifton

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Clifton Range®

METALWARE RANGE ™

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