
TECHNE

BL°CKICE

OPERATOR'S MANUAL

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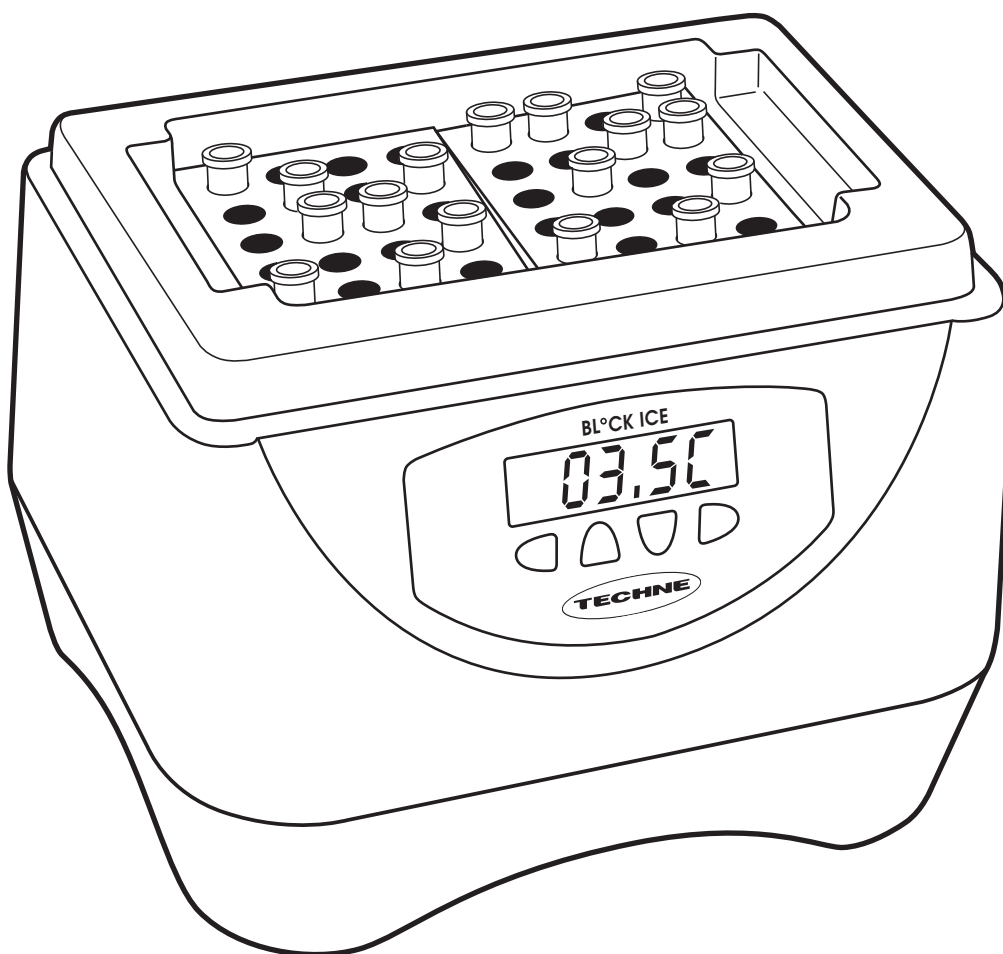
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INTRODUCTION

The BL°CKICE is a Peltier controlled cooling/warming device which is ideal for incubating sample tubes at temperatures in the range of 0 to 40°C. The unit has an integral count down/count up timer with audible alarm to set and monitor reaction times.

The BL°CKICE can hold two interchangeable aluminium insert blocks or one 96-well plate block for cooling a variety of tube formats. The blocks help to maintain a temperature stability of $\pm 0.2^{\circ}\text{C}$ for precise control of reaction temperature.

The unit is supplied with a dark plastic lid which maintains the cooled environment and helps to protect light-sensitive reagents.



BEFORE USE

Before using the BL^oCKICE please make sure you have read this manual carefully. If there is any doubt relating to the proper use of this equipment, the staff at Bibby Scientific Ltd. or your supplier will be happy to assist you.

UNPACKING

When unpacking the unit please ensure that the following have been removed from the packaging:

- BL^oCKICE
- Mains cables (UK, EU and US)
- Operator's manual
- Guarantee card

Note: Block inserts should be ordered separately.

The user is advised to keep the original packaging in case the instrument ever needs to be returned for service or repair. Bibby Scientific Ltd. accepts no responsibility for damage incurred unless the unit is correctly packed and transported in its original packaging.

SAFETY AND INSTALLATION

Please read all the information in this manual before using the BL^oCKICE.

WARNING

Contact with low-temperature objects may cause cold burns. Users should be aware of the following potential hazards:

- USE CARE AND WEAR PROTECTIVE GLOVES TO PROTECT HANDS
- DO NOT place any liquid directly into the instrument.

OPERATOR SAFETY

All operators of Techne equipment must have available the relevant literature needed to ensure their safety. It is important that only suitably trained personnel operate this equipment, in accordance with the instructions contained in this manual and with general safety standards and procedures. If the equipment is used in a manner not specified by Bibby Scientific Ltd. the protection provided by the equipment to the operator may be impaired.

All Techne instruments are designed to conform to international safety requirements and are fitted with an over-temperature cut-out. If a safety problem should be encountered, switch off the unit at the mains socket and remove the plug from the electricity supply.

INSTALLATION

The instrument should be carried using both hands. Never move or carry the instrument when in use or connected to the mains electricity supply.

1. All Techne instruments are supplied with a power cable; this may be integral or plug-in.
2.  Before connecting the instrument to the mains electricity supply, check the voltage against the rating plate (located on the back of the unit). **Please note that the unit must be earthed to ensure proper electrical safety.** Connect the mains cable to a suitable plug according to the table below.

Connection	220/240V, 50/60Hz Supply	110V/120V Supply, 50/60Hz
Live	Brown	Black
Neutral	Blue	White
Earth	Green/yellow	Green

3. UK ONLY: The fused plug supplied with the mains cable is fitted with a 5 amp fuse to protect the instrument and the operator.
4. The units are rated to operate at 100-230V, 50/60Hz.
5. Place the unit on a suitable flat bench or in a fume cupboard if required, ensuring that the air vents on the rear and underside are free from obstruction.

6. Plug the mains cable into the socket on the back of the instrument.
7. Switch on the instrument. Symbols on or near the power switch of the unit have the following meanings:

- I Mains Switch On
- O Mains Switch Off

REPLACEMENT CABLE

Should the mains lead need replacement, a cable of 1mm² of harmonized code H05VV-F connected to an IEC320 plug should be used. **IF IN DOUBT CONSULT A QUALIFIED ELECTRICIAN.**

ENVIRONMENTAL CONDITIONS

The BL°CKICE is designed to operate under the following conditions:

- Indoor use
- Ambient temperature range +5°C to +40°C
- Altitude to 2000m
- Relative humidity not exceeding 80%
- Mains supply fluctuations not exceeding 10%
- Over voltage category II IEC 60364-4-443
- Pollution degree 2

Note: The control specifications are quoted at an ambient temperature of 20°C. The specification may deteriorate outside an ambient temperature of between 10°C and 30°C.

The instrument has been tested for radio frequency interference and is certified under EN61326.

GUARANTEE

The instrument is guaranteed against any defect in material or workmanship for the period specified on the enclosed guarantee card. This period is effective from the date of purchase; within this period all defective parts will be replaced free of charge provided that the defect is not the result of an accident, misuse or negligence. Servicing under this guarantee should be obtained from the supplier of the instrument.

This manual has been prepared for the convenience of Techne's customers and nothing in this manual shall be taken as a warranty, condition or representation concerning the description, merchantability, fitness for purpose or otherwise of the unit or components.

Notwithstanding the description and specification(s) of the instruments contained in the operator's manual, Techne reserves the right to make such changes as it sees fit to the instruments or to any of the components.

SÉCURITÉ ET CONSIGNES D'INSTALLATION

Veuillez lire attentivement toutes les instructions de ce document avant d'utiliser le BL°CKICE.

AVERTISSEMENT

Le contact avec les objets à basse température peut causer les brûlures froides. Les utilisateurs devraient se rendre compte des risques suivants:

- PROCÉDER AVEC PRUDENCE ET PORTER DES GANTS POUR SE PROTÉGER LES MAINS
- NE PAS verser de liquides directement dans l'appareil.

SÉCURITÉ DE L'OPÉRATEUR

Tous les utilisateurs de produits Techne doivent avoir pris connaissance des consignes et instructions nécessaires à la garantie de leur sécurité. Important: cet appareil doit impérativement être manipulé par un personnel qualifié et être utilisé selon les instructions données dans ce document, en accord avec les normes et procédures de sécurité générales. Dans le cas où cet appareil ne serait pas utilisé selon les consignes précisées par Bibby Scientific Ltd., la protection pour l'utilisateur ne serait alors plus garantie.

Tous les appareils Techne sont conçus pour répondre aux normes de sécurité internationales et sont dotés d'un coupe-circuit en cas de surchauffe. En cas de problème de sécurité, couper l'alimentation électrique au niveau de la prise murale et enlevez la prise connectée à l'appareil.

INSTALLATION

Porter l'appareil à deux mains. Ne jamais déplacer ou transporter l'appareil lorsqu'il est en fonctionnement ou branché à l'alimentation électrique.

1. Tous les appareils Techne sont livrés avec un câble d'alimentation, qui peut être intégré à l'appareil ou à raccorder.
2.  Avant de raccorder l'appareil à l'alimentation électrique sur secteur, vérifier la tension requise indiquée sur la plaque d'identification (située au dos de l'appareil). **Il est important que l'appareil soit relié à la terre pour assurer la protection électrique requise.** Brancher le câble secteur sur une prise appropriée, voir tableau ci-après.

Connexion	Alimentation 220/240V, 50/60Hz	Alimentation 110V/120V, 50/60Hz
Phase	Marron	Noir
Neutre	Bleu	Blanc
Terre	Vert/jaune	Vert

3. ROYAUME-UNI SEULEMENT: La prise avec fusible intégré fournie avec le câble secteur est munie d'un fusible 5 A destiné à protéger l'appareil et l'utilisateur.

4. Les unités sont évaluées pour fonctionner à 100-230V, 50/60Hz.

5. Placez l'unité sur un banc plat approprié ou dans un compartiment de vapeur s'il y a lieu, en s'assurant que les événements sur l'arrière et le dessous sont exempts de l'obstruction.
6. Raccorder le câble d'alimentation à la prise située à l'arrière de l'appareil.
7. Allumer l'appareil. Les symboles situés sur ou à côté de l'interrupteur de l'appareil ont la signification suivante :

- I Interrupteur secteur en position Marche
- O Interrupteur secteur en position Arrêt

CÂBLE DE RECHANGE

S'il s'avère nécessaire de remplacer le cordon d'alimentation, utiliser un câble de 1 mm² conforme à la norme H05VV-F relié à une prise IEC320. **EN CAS DE DOUTE, CONSULTER UN ELECTRICIEN QUALIFIE.**

CONDITIONS ENVIRONNEMENTALES

Le BL°CKICE est conçu pour fonctionner dans les conditions suivantes:

- Pour un usage intérieur seulement
- Température ambiante +5°C à +40°C
- Altitude inférieure à 2000m
- Humidité relative ne dépassant pas 80%
- Fluctuations de l'alimentation n'excédant pas 10% de la valeur nominale
- Catégorie II IEC 60364-4-443 de surtension
- Degré de pollution 2

Remarque: Les paramètres sont indiqués pour une température ambiante de 20°C. Ces caractéristiques peuvent se détériorer en dehors d'une température ambiante de 10 à 30°C.

L'appareil a été testé en matière de radiofréquences et est certifié selon la norme EN61326.

GARANTIE

L'appareil est garanti contre tout défaut de matériaux ou vice de fabrication pendant la période précisée sur la carte de garantie jointe. Cette période s'applique à compter de la date d'achat. Au cours de cette période, toutes les pièces défectueuses seront remplacées gratuitement dans la mesure où la défaillance n'est pas due à un accident, une mauvaise utilisation ou une négligence. Toute réparation sous garantie sera effectuée par le fournisseur.

Le présent manuel a été exclusivement rédigé à l'attention des clients de la marque Techne et rien dans son contenu ne doit être pris comme une garantie, une condition ou une affirmation concernant la description, la commercialisation, l'adéquation à un usage particulier de l'appareil ou de ses composants.

Malgré la description et les caractéristiques techniques des appareils données dans le manuel de l'utilisateur, la société Techne se réserve le droit d'apporter les changements nécessaires à l'appareil ou à tout élément qui entre dans sa composition.

SICHERHEITS- UND INSTALLATIONSINFORMATIONEN

Lesen Sie diese Anleitung vor Verwendung des BL°CKICE bitte sorgfältig durch.

ACHTUNG

Kontakt mit niedrigtemperaturgegenständen kann kalte Brände verursachen. Benutzer sollten die folgenden möglichen Gefahren berücksichtigen:

- UMSICHTIG VORGEHEN UND SCHUTZHANDSCHUHE TRAGEN
- Flüssigkeiten NICHT direkt auf das Gerät auftragen.

SICHERHEIT DES BEDIENPERSONALS

Alle Benutzer von Techne Geräten müssen Zugang zu der entsprechenden Literatur haben, um ihre Sicherheit zu gewähren. Es ist wichtig, daß diese Geräte nur von entsprechend geschultem Personal betrieben werden, das die in dieser Gebrauchsanweisung enthaltenen Maßnahmen und allgemeine Sicherheitsbestimmungen und -vorgehungen beachtet. Wenn das Gerät anders eingesetzt wird als vom Hersteller empfohlen, kann dies die persönliche Sicherheit des Anwenders beeinträchtigen.

Die Geräte von Techne entsprechen den internationalen Sicherheitsbestimmungen und sind mit einem automatischen Übertemperaturabschalter ausgestattet. Wenn ein Sicherheitsproblem auftreten sollte, muß das Gerät ausgeschaltet und vom Stromnetz getrennt werden.

INBETRIEBNAHME

Das Gerät mit beiden Händen tragen. Das Gerät unter keinen Umständen transportieren, wenn es in Betrieb ist, oder während das Gerät noch am Netz angeschlossen ist.

1. Alle Geräte von Techne werden mit einem Netzkabel geliefert, das entweder eingesteckt wird oder fest mit dem Gerät verbunden ist.
2.  Vor dem Anschluss bitte kontrollieren, ob die Stromversorgung den Angaben auf dem Typenschild (auf der Geräterückseite) entspricht. **Um die elektrische Sicherheit zu gewährleisten, muss dieses Gerät geerdet werden.** Schließen Sie das Netzkabel entsprechend der folgenden Tabelle an einen geeigneten Stecker an.

Anschluss	220/240V, 50/60Hz	110V/120V, 50/60Hz
Phase	Braun	Schwarz
Neutral	Blau	Weiß
Erde	Grün/Gelb	Grün

3. NUR FÜR GROSSBRITANNIEN: der mit dem Netzkabel gelieferte Sicherungsstecker enthält eine 5 Amp. Sicherung zum Schutz des Geräts und des Anwenders.
4. Die Maßeinheiten werden veranschlagen, um an 100-230V, 50/60Hz zu funktionieren.

5. Legen Sie die Maßeinheit auf eine verwendbare flache Bank oder in einen Dampfschrank wenn erforderlich und garantieren, dass die Luftentlüftungsöffnungen auf der Rückseite und der Unterseite vom Hindernis frei sind.
6. Stecken Sie das Netzkabel in die Buchse auf der Geräterückseite ein.
7. Schalten Sie das Gerät ein:

- ☐ Netzschalter Ein
- ☐ Netzschalter Aus

ERSATZKABEL

Bei einem eventuellen Austausch des Netzkabels wird ein Kabel vom Typ H05VV-F mit 1 mm² Adernquerschnitt und Europastecker (IEC 320) benötigt. **IM ZWEIFELSFALL EINEN ELEKTROFACHMANN HINZUZIEHEN.**

UMWELTBEDINGUNGEN

Der BL°CKICE ist für den Einsatz unter folgenden Bedingungen ausgelegt:

- Gebrauch in Innenräumen
- Umgebungstemperatur zwischen +5°C to +40°C
- Höhe: bis zu 2000 m
- Relative Feuchte nicht über 80%
- Netzspannungsschwankungen nicht über 10%
- Überspannungsklasse 2 IEC 60364-4-443
- Verschmutzungsgrad 2

Hinweis: Die Gerätespezifikationen beziehen sich auf eine Umgebungstemperatur von 20°C und können sich außerhalb des Bereichs 10°C bis 30°C verschlechtern.

Das Gerät wurde auf HF-Störeinflüsse geprüft und entspricht den EMV-Bedingungen nach EN61326.

GARANTIE

Techne gewährleistet, dass dieses Gerät für den auf der Garantiekarte angegebenen Zeitraum keine Herstellungs- und Materialmängel aufweist. Dieser Zeitraum tritt ab dem Verkaufsdatum in Kraft. Innerhalb dieses Zeitraums werden alle defekten Teile kostenlos ausgetauscht, soweit der Defekt nicht auf einen Unfall, Missbrauch oder Nachlässigkeit zurückzuführen ist. Wartungsarbeiten, die unter diese Garantie fallen, müssen von der Verkaufsstelle für dieses Gerät gehandhabt werden.

Diese Anleitung wurde zur Information der Kunden von Techne erstellt und stellt in keinsten Weise eine Gewährleistung, Bedingung oder Darstellung bezüglich der Beschreibung, Marktgängigkeit oder Zweckdienlichkeit dieser Geräte oder Bauteile dar.

Unabhängig von Beschreibung und Spezifikation(en) des hier beschriebenen Geräts behält sich Techne das Recht vor, Änderungen an diesem Gerät oder dessen Bauteilen vorzunehmen.

INFORMAZIONI SULLA SICUREZZA E L'INSTALLAZIONE

Leggere attentamente il presente manuale prima di usare il BL°CKICE.

AVVERTENZA

Il contatto con gli oggetti a bassa temperatura può causare le ustioni fredde. Gli utenti dovrebbero essere informati di seguenti rischi potenziali:

- PRESTARE ATTENZIONE ED INDOSSARE GUANTI PROTETTIVI PER LE MANI
- NON collocare alcun tipo di liquido direttamente nello strumento.

SICUREZZA DELL'OPERATORE

Il personale che utilizza l'apparecchiatura Techne deve avere a disposizione la documentazione necessaria al fine di assicurare la loro incolumità. È importante che solo personale adeguatamente addestrato utilizzi questo apparecchio, in conformità alle istruzioni contenute in questo manuale e nel rispetto delle normative e procedure generali di sicurezza. Se l'apparecchio è utilizzato in modo non specificato da Bibby Scientific Ltd., la protezione fornita dall'apparecchiatura all'utilizzatore potrebbe essere a rischio.

Tutte le unità Techne sono state progettate in conformità ai requisiti internazionali di sicurezza e sono equipaggiate con un interruttore anti surriscaldamento. Se si dovesse verificare qualche problema di sicurezza, disconnettere l'apparecchio dalla rete.

INSTALLAZIONE

Occorre trasportare lo strumento usando entrambe le mani. Non spostare né trasportare lo strumento quando è in funzione o collegato all'alimentazione elettrica di rete.

1. Tutti gli strumenti Techne sono forniti con un cavo di alimentazione; può essere integrale o plugin.
2. Prima di collegare lo strumento all'alimentazione elettrica di rete, controllare la tensione confrontandola con la targhetta riportante i valori nominali (si trova sul retro dell'unità).
 **Notare che al fine di garantire la corretta sicurezza elettrica, occorre che l'unità sia messa a terra.** Collegare il cavo di rete ad una presa idonea secondo la tabella riportata alla pagina successiva.

Connessione	220/240V, Alimentazione 50/60Hz	Alimentazione 110V/120V, 50/60Hz
Sotto tensione	Marrone	Nero
Neutro	Blu	Bianco
Terra	Verde/giallo	Verde

3. SOLO REGNO UNITO: la spina con fusibile fornita con il cavo di rete è dotata di un fusibile da 5 Amp per proteggere lo strumento e l'utente.
4. Le unità sono stimate funzionare a 100-230V, 50/60Hz.

5. Disponga l'unità su un banco piano adatto o in un armadietto di vapore a richiesta, accertandosi che i cunicoli di ventilazione sulla parte posteriore e sul lato siano esenti dall'ostruzione.
6. Inserire il cavo di rete nella presa che si trova sul retro dello strumento.
7. Accendere lo strumento:

- I** Interruttore di rete Acceso
- O** Interruttore di rete Spento

CAVO DI RICAMBIO

Qualora occorra sostituire il cavo di rete, si dovrà utilizzare un cavo di 1mm² codice armonizzato H05VV-F collegato ad una spina IEC 320. IN CASO DI DUBBIO, RIVOLGERSI A UN ELETTRICISTA QUALIFICATO.

CONDIZIONI AMBIENTALI

Il BL°CKICE è stato progettato per funzionare nelle seguenti condizioni:

- uso interno
- range di temperatura ambiente da +5°C a +40°C
- altitudine massima 2000 m.
- umidità relativa non superiore all'80%
- oscillazione dell'alimentazione di rete non superiore al 10%
- categoria di sovratensione II IEC 60364-4-443
- grado di inquinamento 2

Nota: le specifiche di controllo sono indicate ad una temperatura ambiente di 20°C. Le specifiche potrebbero peggiorare fuori da una temperatura ambiente compresa tra 10°C e 30°C.

Lo strumento è stato collaudato per interferenze da radiofrequenze ed è certificato secondo la norma EN61326.

GARANZIA

Lo strumento è garantito da qualsiasi difetto nei materiali o nella lavorazione per il periodo specificato nella scheda di garanzia allegata. Questo periodo è valido dalla data di acquisto; entro tale periodo, tutte le parti difettose saranno sostituite gratuitamente, a condizione che il difetto non sia la conseguenza di un incidente, un uso improprio o negligenza. L'assistenza secondo quanto stabilito dalla presente garanzia deve essere ottenuta dal fornitore dello strumento.

Il presente manuale è stato preparato ad uso dei clienti di Techne e niente di quanto in esso contenuto costituisce garanzia, condizione o rappresentanza riguardo la descrizione, la commerciabilità, l'idoneità allo scopo o altrimenti dell'unità o dei componenti.

Nonostante la descrizione e le specifiche dello strumento contenuti nel manuale dell'operatore, Techne si riserva il diritto di apportare le modifiche ritenute opportune agli strumenti o a qualsiasi loro componente.

INFORMACIÓN DE SEGURIDAD E INSTALACIÓN

Lea atentamente este manual antes de utilizar el BL°CKICE.

ADVERTENCIA

El contacto con los objetos a baja temperatura puede causar quemaduras frías. Los usuarios deben ser conscientes de los peligros potenciales siguientes:

- TENGA CUIDADO Y LLEVE GUANTES DE PROTECCIÓN PARA PROTEGERSE LAS MANOS
- NO coloque un líquido directamente en el instrumento.

SEGURIDAD DEL OPERARIO

Todos los usuarios de equipos Techne deben disponer de la información necesaria para asegurar su seguridad. De acuerdo con las instrucciones contenidas en este manual y con las normas y procedimientos generales de seguridad, es muy importante que sólo personal debidamente capacitado opere estos aparatos. De no ser así, la protección que el equipo le proporciona al usuario puede verse reducida.

Todos los equipos Techne han sido diseñados para cumplir con los requisitos internacionales de seguridad y traen incorporados un sistema de desconexión en caso de sobre temperatura. En caso de que surgiera un problema de seguridad, desconecte el equipo de la red.

INSTALACIÓN

El instrumento se debe transportar con las dos manos. No mueva ni lleve el instrumento cuando se utilice o esté conectado al suministro eléctrico principal.

1. Todos los instrumentos Techne se suministran con un cable de alimentación, que puede ser integrado o 'enchufable'.
2.  Antes de conectar el instrumento al suministro eléctrico, compruebe que el voltaje coincida con el indicado en la placa de régimen (situada en la parte trasera de la unidad). **El instrumento debe disponer de una toma de tierra para garantizar la seguridad eléctrica adecuada.** Conecte el cable de alimentación a un enchufe adecuado según la siguiente tabla.

Conexión	220/240V, 50/60Hz	110V/120V, 50/60Hz
Con corriente	Marrón	Negro
Neutro	Azul	Blanco
Toma de tierra	Verde/amarillo	Verde

3. SÓLO PARA EL REINO UNIDO: El enchufe suministrado con el cable de alimentación incluye un fusible de 5 amperios para ofrecer protección al instrumento y al usuario.
4. Las unidades se clasifican para funcionar en 100-230V, 50/60Hz.
5. Ponga la unidad en un banco plano conveniente o en un armario de humo si procede, asegurándose de que las salidas de aire en la parte posterior y el superficie inferior están libres de la obstrucción.

6. Conecte el cable de alimentación en el enchufe situado en la parte trasera del instrumento.

7. Encienda el instrumento:

- I Interruptor de alimentación encendido
- O Interruptor de alimentación apagado

CABLE DE REPUESTO

Si es necesario sustituir el cable de alimentación, se debe utilizar un cable de 1mm² de código armonizado H05VV, conectado a un enchufe IEC320. **EN CASO DE DUDA, PÓNGASE EN CONTACTO CON UN ELECTRICISTA.**

CONDICIONES AMBIENTALES

El BL°CKICE está diseñado para utilizarse en las condiciones siguientes:

- Uso en interior
- Intervalo de temperatura ambiente +5°C a +40°C
- Altitud: hasta 2000 m
- Humedad relativa no superior al 80%
- Fluctuaciones del suministro eléctrico no superiores al 10%
- Categoría de sobrevoltaje II IEC 60364-4-443
- Nivel de contaminación 2

Nota: Las especificaciones de control corresponden a una temperatura ambiental de 20°C. Las especificaciones pueden empeorar si se utiliza el instrumento fuera del intervalo de temperatura comprendido entre 10°C y 30°C.

Se han realizado pruebas para comprobar la interferencia de radiofrecuencia del instrumento, el cual cumple la normativa EN61326.

GARANTÍA

El instrumento está garantizado contra cualquier defecto en el material o la fabricación durante el período especificado en la tarjeta de garantía que se adjunta. Este período entra en vigor a partir de la fecha de compra. Durante este período, se reemplazarán sin cargo alguno todas las piezas defectuosas, a condición que el defecto sea resultado de un accidente, uso incorrecto o negligencia. El distribuidor del instrumento proporcionará información sobre las reparaciones realizadas bajo esta garantía.

Este manual se ha preparado con una finalidad informativa para los clientes de Techne y ninguna parte del manual se deberá considerar como una garantía, condición o reflejo con respecto a la descripción, comerciabilidad, idoneidad para un fin determinado o de otro tipo de la unidad o sus componentes.

Con independencia de la descripción y las especificaciones del instrumento que se indican en el manual del operario, Techne se reserva el derecho de realizar cambios en el instrumento o en cualquiera de sus componentes cuando lo estime oportuno.

CONTACT INFORMATION

For technical, sales or servicing information, contact your local Techne dealer or:

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SPECIFICATION

Temperature

Temperature range	0.0 to 40.0°C
Temperature accuracy	±1°C
Temperature units	°C or °F
Cooling technology	Peltier
Temperature display resolution	0.1°C
Temperature display	Orange LED, 5 digits
Timer	m/s, h/m, d/h up to 9 days

Dimensions

Height	225mm
Width	240mm
Length	190mm
Weight*	3.0kg

*Shipping weight excludes block inserts which must be ordered separately

Power

Power supply	100 to 230V, 50/60Hz
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OPERATION

INSTALLATION

See also the sections on Safety and Installation.

1. Place the unit on a suitable flat bench or in a fume cupboard if required, ensuring that the air vents on the rear and underside are free from obstruction.
2. Plug the mains cable into the socket on the back of the instrument.
3. Place the required block inserts inside the unit. Up to two standard block inserts or one 96-well block insert can be used.
4. Connect to the mains electricity supply with the plug provided or one wired correctly for the supply. Switch the power ON from the switch located next to the mains input lead. The front display will then light up.

POWER UP SCREEN

When first switched on, the display will show the name of the product and then show the current temperature of the unit. The unit will then proceed to heat or cool to the last set temperature.

FRONT PANEL CONTROLS

The front panel consists of four buttons for setting the unit temperature and timer and a 5 digit LED display.

The SET Button

Use this button to view and set the temperature, set the timer to count up or down, set the count down time and set the temperature units.

The PLUS Button

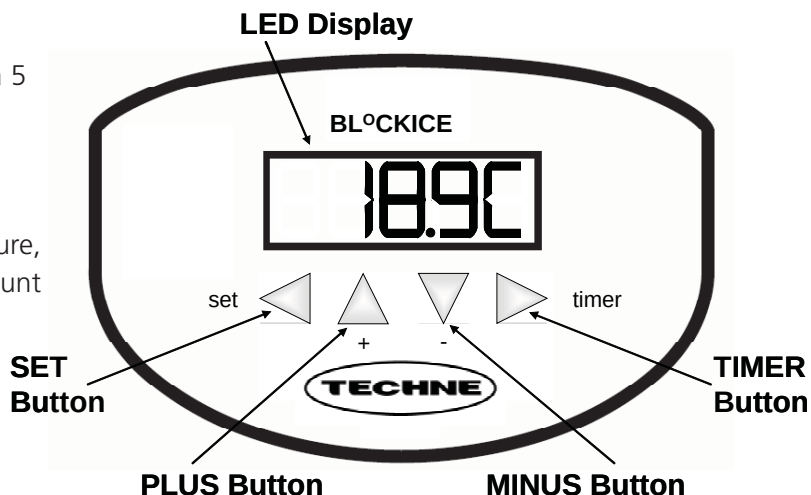
Use this button to increase a temperature or time value and to start the timer.

The MINUS Button

Use this button to decrease a temperature or time value and to pause the timer.

The TIMER button

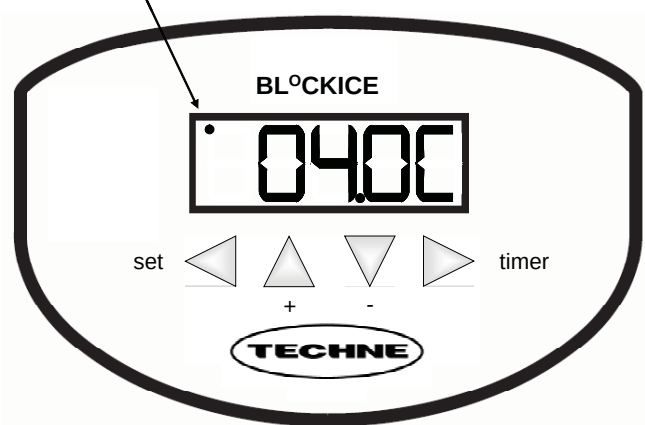
Use this to view the set count down time and to start the timer.



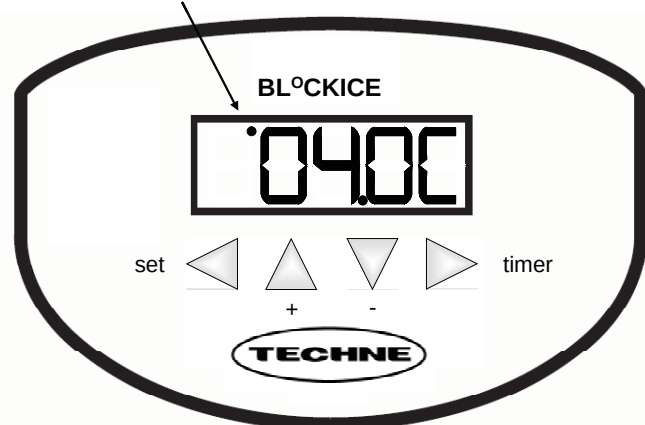
SETTING THE OPERATING TEMPERATURE

1. To view the current set temperature, press the SET button. The set temperature will be displayed and is indicated by the set point indicator in the top left hand corner of the display.
2. To edit the set temperature, press and hold the SET button until the set point indicator moves one position to the right. This is the edit position. Release the SET button.
3. To **increase** the set temperature, whilst the indicator is in the edit position, press the PLUS button. Holding down the PLUS button will cause the value to increase rapidly. A single press of the PLUS or MINUS buttons will increase or decrease the set temperature by 0.1°C.
4. To **decrease** the set temperature, whilst the indicator is in the edit position, press the MINUS button. Holding down the MINUS button will cause the value to decrease rapidly. A single press of the PLUS or MINUS buttons will increase or decrease the set temperature by 0.1°C.
5. Once the set temperature has been changed, the unit will heat or cool to the new set temperature. A buzzer will sound once a stable temperature has been reached.

Set Point Indicator



Edit Set Point Indicator

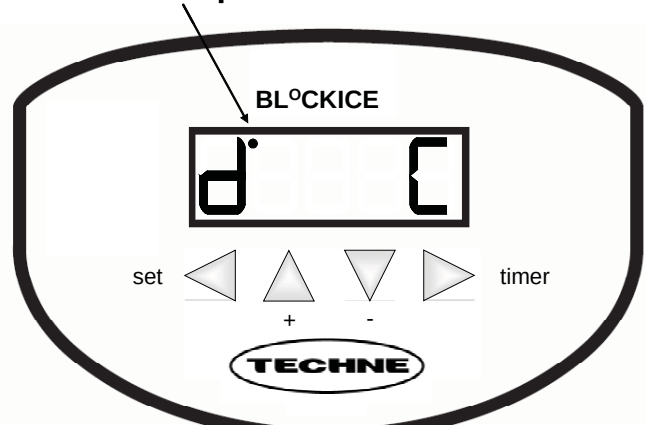


CHANGING THE TIMER MODE

The timer can be set to count up, count down or be disabled.

6. To change the timer mode, press the SET button twice, holding the button down on the second press until the indicator point appears.
7. Press the PLUS button to toggle between **d** for count down, **u** for count up and - - - for timer disabled.
8. A few seconds after the buttons have been released the unit will automatically revert to the temperature display.

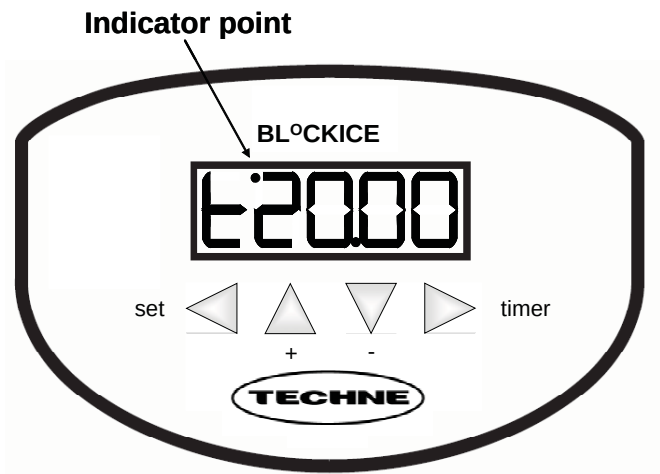
Indicator point



SETTING THE COUNT DOWN TIME

The timer can be set to count down time in minutes and seconds, hours and minutes or days and hours up to a maximum of 9 days.

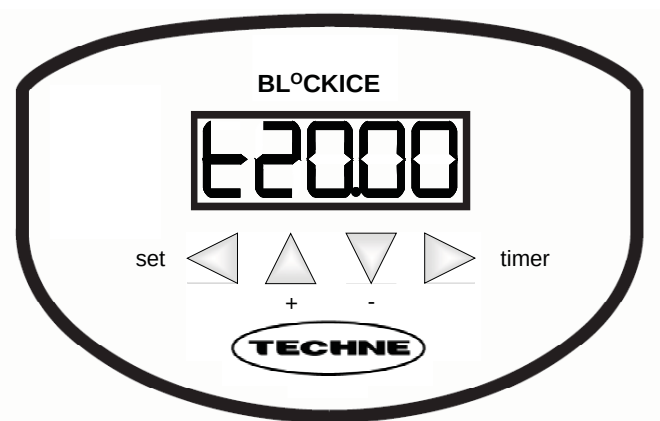
9. First set the timer to count down mode as described in steps 6 to 8.
10. To set the count down time, press the SET button 3 times, holding the button down on the third press until the indicator point appears next to the letter t.
11. To **increase** the count down time, press the PLUS button. Holding down the PLUS button will cause the value to increase rapidly. A single press of the PLUS or MINUS buttons will increase or decrease the time by 1 unit (s, m, h or d).
12. To **decrease** the count down time, press the MINUS button. Holding down the MINUS button will cause the value to decrease rapidly. A single press of the PLUS or MINUS buttons will increase or decrease the time by 1 unit (s, m, h or d).



STARTING THE TIMER

The timer is activated using the TIMER button. The timer will not begin to count up or down until a stable temperature has been reached.

13. To view the timer setting, press the TIMER button. This will show whether the timer is in count down mode (**d**), count up mode (**u**) or disabled (- - -). If the timer is in count down mode, the set time will also be shown. To change the count down time, follow steps 9-12.
14. To activate the timer, press the TIMER button twice, holding down on the second press until the letter **t** appears.
15. To start the timer, press the PLUS button. The letter **t** will flash while the timer is in operation (either counting up or counting down).
16. To pause the timer, press the MINUS button.

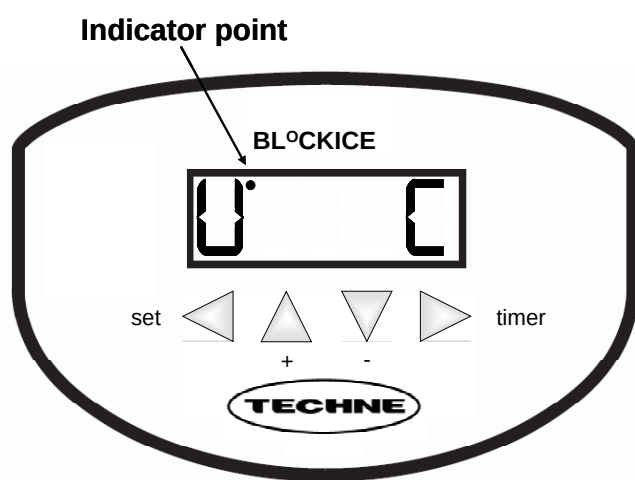


17. To restart the timer after a pause, press the PLUS button.
18. To stop the timer and reset, press the TIMER button.
19. When the count down timer reaches zero, a buzzer will sound and the timer will begin to count up to indicate the over-run time. To stop the buzzer, press the TIMER button.

CHANGING THE TEMPERATURE UNITS

The temperature of the display can be shown in either °C or °F.

20. To change the temperature units, press the SET button 4 times, holding the button down on the fourth press until the indicator point appears next to the letter **U** (units).
21. Press the PLUS button to toggle between °C and °F.
22. A few seconds after the buttons have been released the unit will automatically display the current temperature in the selected units.



AFTER USE

After cooling samples, the bucket and beads may be very cold. Allow to warm to ambient conditions before lifting from the unit or wear protective gloves. Avoid handling cold objects with wet hands.

USER MAINTENANCE

Before cleaning the unit, disconnect it from the power supply. The outer case of the BL°CKICE may be wiped clean with a damp cloth; ethanol, methanol or formaldehyde can also be used. No part of the case or cover should be immersed in the solvents. Do not use aggressive solvents such as acetone or abrasive cleaners. Allow the unit to dry before using.

Before using any cleaning or decontamination method except those recommended here, the responsible person should check with Techne that the proposed method will not damage the equipment.

FAQ'S

Q1 How can I cool the beads more quickly?

A1 If you intend to use the BL°CKICE to keep samples cool, then the block inserts can be stored in a refrigerator and then inserted into the unit when required.

Q2 I have a Techne Dri-Block heater; can I use the block inserts I already use with this?

A2 Yes. The BL°CKICE will accept any two standard block inserts from the Dri-Block range or a single 96-well block insert.

If you require further technical or application assistance please contact Techne at:

E-mail: technehelp@bibby-scientific.com

Phone: +44 (0)1785 810433

Fax: +44 (0)1785 810405

For servicing information please contact:

Bibby Scientific Ltd.

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Fax: +44 (0)1785 810405

We are continually striving to improve our products and software. If you have any comments and suggestions on how we can do things better please send them to us at: techne@bibby-scientific.com

ADDITIONAL INFORMATION

Note that **this equipment should only be dismantled by properly trained personnel**. Removing the outer cover exposes potentially lethal mains voltages. There are no user serviceable parts within this equipment.

FAULT FINDING

Should you have any problems with your BL°CKICE which cannot be easily remedied, you should contact your supplier and return the unit if necessary. Please include details of the fault observed and remember to return the unit in its original packing. Bibby Scientific Ltd. accepts no responsibility for damage to units which are not properly packed for shipping: if in doubt, contact your supplier, giving the full serial number of the unit.

FUSES

If the display on the front panel is not lit, one of the two fuses may have blown. Check that there is no external cause, such as a faulty plug or lead. Check both fuses and replace the faulty fuse with a new one of the correct value (fuse values are given on the label next to the power inlet). Note that **fuses should only be replaced by a qualified electrician**.

The holder for the two fuses is built into the mains input socket. First remove the power cable and then gently prise the fuse drawer open with a flat-bladed screwdriver or similar tool. Each fuse can be removed by using the screwdriver as a lever.

Exchange the faulty fuse in the fuse holder for a working fuse of the correct value. Finally, replace the fuse drawer in the fuse compartment and push the drawer shut. Fuses which blow repeatedly indicate a serious fault and you should return the unit to your supplier for repair.

INSULATION TESTING

This equipment is fitted with RFI suppression circuitry. Any check of the electrical insulation by means of high voltage dielectric testing (for example as in BS EN 61010-1) must be carried out using only a DC voltage.

This unit contains semiconductor components which may be damaged by electric field effects.

ACCESSORIES

The following block inserts are available for use with the BLoCKICE and can be ordered from Bibby Scientific Ltd. or your Techne dealer:

Product code	Tube size (diam.)	Number of holes	Block dimensions (mm)
F3501	Plain block	None	95 x 76 x 51
F3502	6mm	30	95 x 76 x 51
F3503	10mm	20	95 x 76 x 51
F3504	12mm	20	95 x 76 x 51
F3505	13mm	20	95 x 76 x 51
F3506	15mm	12	95 x 76 x 51
F3507	16mm	12	95 x 76 x 51
F3508	19mm	8	95 x 76 x 51
F3509	25mm	6	95 x 76 x 51
F3510	10mm square cuvettes	2 channels	95 x 76 x 51
F4460	Plain block	Thermometer hole only	95 x 76 x 51
F4461	7 and 9mm	20/10	95 x 76 x 51
F4462	24mm	6	95 x 76 x 51
F4463	26mm	6	95 x 76 x 51
F4464	1.5ml microfuge tubes	20	95 x 76 x 51
F4465	0.5ml micro tubes	30	95 x 76 x 51
F4467	Hi-Temp 96-well plate	96	95 x 151 x 61
F4468	Falcon round bottom plate	96	95 x 151 x 61
F4469	Falcon flat bottom plate	96	95 x 151 x 61
F4470	2.0ml microfuge tubes	20	95 x 76 x 51
F4471	0.2ml micro tubes	72	95 x 76 x 51
F4473	96 x 0.2ml micro tubes or 96-well plate	96	95 x 151 x 61
F4474	96 x 1.0ml Porvair plate	96	95 x 151 x 48
F4476	Block for Gelation timer	1 sample cup	95 x 76 x 51

REPLACEMENT PARTS

The following replacement parts can be obtained from Bibby Scientific Ltd. or your Techne dealer:

Product Code	Description
HH179(S)	UK 230V mains lead with plug
HH180(S)	European mains lead with plug
FCABLEUS	US mains lead with plug
700738	Fuse Type T5A, 250V (5A)



Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.



UK Office

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Fax: +44 (0)1245 808399

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Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.