

# DBTS - 3821

## Double-Block Thermal Cycler



EPCC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

**Analytical Technologies Limited**

An ISO 9001 Certified Company

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## ▶▶ PRODUCT INTRODUCTION

DBTS 3821 is a Double-block model meticulously built on the basis of the classic DBTS 3821 model. The instrument adopts a Double-block module design and can run two different PCR programs independently. It is especially suitable for small throughput such as teaching and scientific research PCR experiment.

## ▶▶ FEATURES

### ONE MACHINE WITH MULTIPLE USES

#### Double-block design You can run different programs independently

Two 48 wells\*0.2ml modules can be set up separately to run programs, independently and in parallel, flexible to meet the various needs of users for PCR experiments.

## ▶▶ THE EXPERIMENT IS MORE SECURE

#### Long Life Peltier

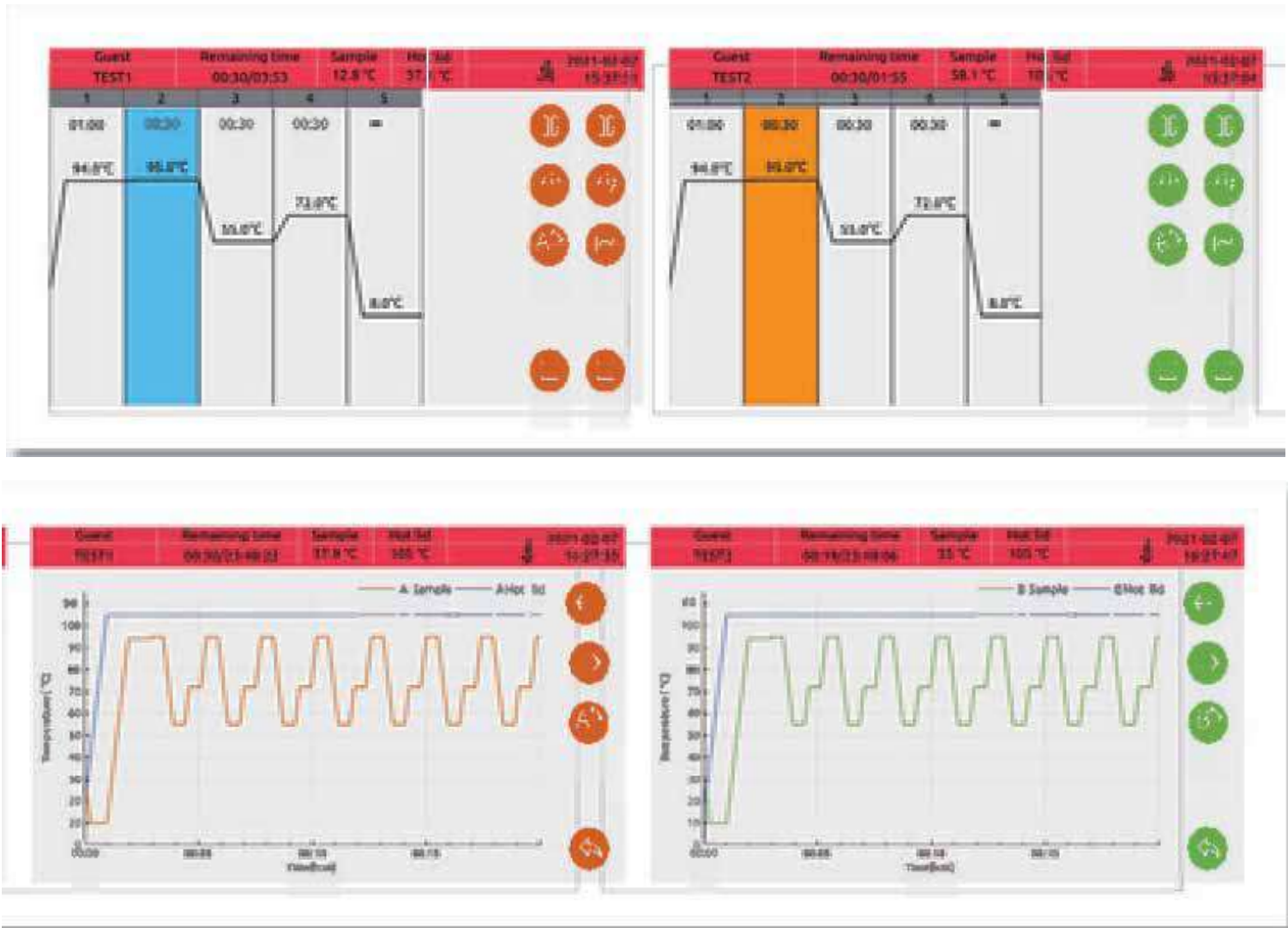
- Using Marlow series Peltier, higher quality and longer life.
- The early warning function of the working status of the Peltier, which automatically evaluates the health status of Peltier, and provides maintenance recommendations, so that you will be confident in the smooth completion of the experiment and will know the reliable use of the instrument.

## ▶▶ INTELLIGENT OPERATION EXPERIENCE

#### Minimal software interface powerful system functions

- Windows style operation interface, easy to use for software operation.
- One-click data import and export, U disk upgrade, efficient and convenient conversion between stations.
- Personal file management system, separate protection of program data.
- A variety of interfaces can be switched at needs for browsing, observation, maintenance to research.

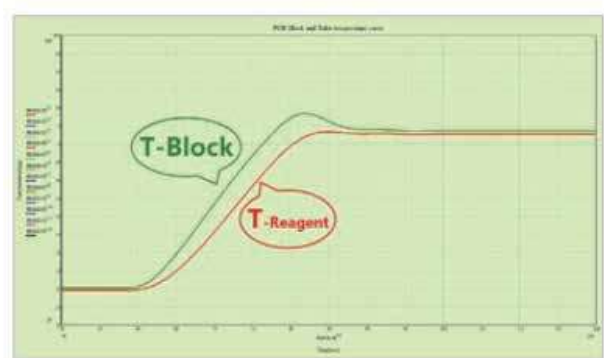
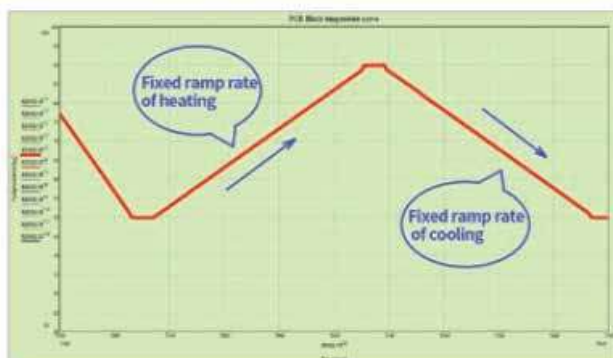
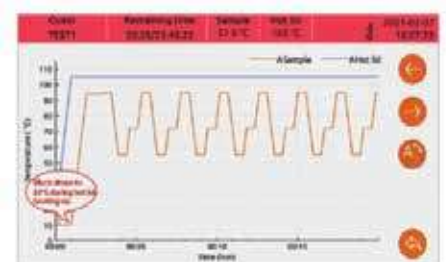




## ►► INHERITED CLASSIC FEATURES

Professional temperature control, excellent performance

- Intelligent suppression of non-specific amplification
- Perfect constant rate temperature change
- Intelligent suppression of reagent evaporation in small volumes



| Basic Parameters of DTBS 3821          |                                |  |
|--|--------------------------------|--|
| 1                                      | Model                          | DTBS 3821  |
| 2                                      | Blocks                         | 2*0.2ml*48 wells, Aluminum                                     |
| 3                                      | Matching Consumables           | 2*48 wells, single tube, 8-stripe tubes, non-skirt, semi-skirt |
| 4                                      | Input power                    | 100-240V~50/60Hz, 600VA  |
| 5                                      | Dimension L*W*H                | 427*288*227 mm   |
| 6                                      | Net Weight                     | 9.5kg  |
| Block thermal performance of DTBS 3821 |                                |  |
| 7                                      | Temperature control accuracy   | $\leq \pm 0.1^{\circ}\text{C}$                                 |
| 8                                      | Block temperature precision    | $\leq \pm 0.1^{\circ}\text{C}$                                 |
| 9                                      | Block temperature umtcrmrty    | $\leq \pm 0.3^{\circ}\text{C}@55^{\circ}\text{C}$              |
| 10                                     | Max. ramp rate                 | $\geq 5^{\circ}\text{C/s}$                                     |
| 11                                     | Avg. ramp rate                 | $\geq 2^{\circ}\text{C/s}$                                     |
| 12                                     | Temperature Control Technology | Peltier  |

| Features |                                    |   |
|----------|------------------------------------|---|
| 13       | Block control mode                 | Tube (Reagent volume setting)/ Block  |
| 14       | Block temperature range            | 0-150 $^{\circ}\text{C}$  |
| 15       | Hot lid temperature range          | 30-150 $^{\circ}\text{C}$ , ON/OFF  |
| 16       | Time setting range                 | 1s-9h0m0s, $\infty$ means forever   |
| 17       | Auto hot lid                       | Yes. Auto setting temperature of the hot lid according to the PCR parameter.          |
| 18       | Real-time curve                    | Yes. Displays dynamic temperature curve of block and hot hd.                          |
| 19       | Temperature touch down             | Yes. $\pm 0.1 \pm 10^{\circ}\text{C}/\text{Cycle}$                                    |
| 20       | Time touch down                    | Yes. $\pm 1 \pm 120\text{s}/\text{Cycle}$   |
| 21       | Waiting for operating              | Yes. Auto pause and hold temperature waiting for user operation according to program. |
| 22       | Cycles setting range               | 1-150X, Non cross dual nest loops available.  |
| 23       | Adjustable ramp rate               | Yes. 0.1-3.5 $^{\circ}\text{C/s}$ , Constant temperature change.                      |
| 24       | Step setting range                 | 1-100   |
| 25       | Memory capacity                    | Max 1000 folders, each folder includes max 1000 files.                                |
| 26       | Wizard template                    | Yes. The wizard template guides editing and prompt errors.                            |
| 27       | Double-block independent operation | Yes, Double-block display, independent operation.                                     |

| File management |                        |   |
|-----------------|------------------------|---|
| 28              | Administrator          | Create user account, set password, software upgrade, system reset.  |
| 29              | Guest                  | No password   |
| 30              | User                   | Create accounts as needed. Data will be protected independently   |
| 31              | Read-only protection   | Yes File name suffix# makes files read-only.  |
| 32              | Run log                | Yes. Including programs, running times and operations.  |
| 33              | Run history            | Yes   |
| 34              | Editing during runtime | Yes   |
| 35              | File template          | Provide programmable templates  |
| 36              | USB interface          | Yes Files can be imported I exported with one click Easy exchange files between PCR machines. Software upgrade. |

|                                  | More features |                                    |  |
|----------------------------------|---------------|------------------------------------|--|
|                                  | 37            | Display                            | 7 "WVGA 64000, LED backlight, high sensitive touch screen.   |
| *                                | 38            | User Friendly interface            | Yes. Dynamic temperature and color background, animation running status, breathing height indication, buzzing prompt   |
|                                  | 39            | Screen lock                        | For large users, in order to prevent the machine from being mis operated by others in the experiment, the operator can lock the screen so that the click on the screen will not respond until it is unlocked with a password |
| *                                | 40            | Easy interfaces switch             | Simple main interface, operating interface, dynamic curve, engineering interface.  |
| *                                | 41            | Inhibit Non-specific amplification | Yes Before running the cycle program, the block 1s cooled to 10 <sup>0</sup> C until the hot lid temperature get set value during hot lid warming up   |
|                                  | 42            | Tube mode                          | Yes. Precise control according to reagents volume.   |
|                                  | 43            | Adaptive lid                       | Auto adapts to various heights of tubes (high tube, low tube, flat top tube and dome tube)   |
|                                  | 44            | Self test when power on            | Yes.   |
|                                  | 45            | Auto report after running          | Yes  |
| *                                | 46            | Self-diagnosis and report          | Yes.   |
|                                  | 47            | Soaking after running              | Yes The lowest soaking temperature is 0 <sup>0</sup> C   |
|                                  | 48            | Memory function of power down      | Yes.   |
|                                  | 49            | Total time/ Remain time prediction | Yes.   |
| *                                | 50            | Peltier life warning               | Yes, automatically assess peltier's health status and give maintenance suggestions.  |
|                                  | 51            | Screen carbanion                   | Yes.   |
| *                                | 52            | Block temperature calibration      | Yes. Engineering mode only.  |
|                                  | 53            | Key tone                           | On/off   |
|                                  | 54            | Screen brightness adjustment       | Yes  |
|                                  | 55            | System                             | Including system configuration, self-test, Factory setting, software upgrade, and engineering interface (Engineering mode on(y).   |
|                                  | 56            | Help                               | Product features, software features, quick guides, error codes, contact information  |
| *                                | 57            | Interface language                 | English  |
| *                                | 58            | WeChat Service                     | Yes. User can contact us by sending photos to WeChat when errors occur   |
| * Refers to the special function |               |                                    |  |



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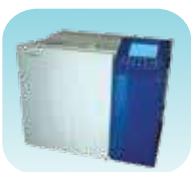
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