Warranty and Liability

All BIONEER products are tested under extensive Quality Control procedures. BIONEER guarantees the quality under the warranty period. Any problems should be reported immediately. Liability is conditional upon the customer providing full details of the problem to BIONEER. Once the problem occurred, customer must report to BIONEER within 30 days.

QC Testing

Each lot of BIONEER's product is carefully tested in the quality control team.

Trademarks

MyGenie^{TM} 32 Thermal Block is trademark of Bioneer Corporation.

MyGenie^{TM} 32 Thermal Block can be used the polymerase chain reaction (PCR). PCR is covered by patents owned by Hoffmann-La Roche, Inc., and F.Hoffmann-La Roche, Ltd. Roche and its licensees provide end-user licenses within their respective fields. Anyone who intends to use MyGenie^{TM} 32 Thermal Block to do PCR is encouraged to contact Hoffmann-La Roche for more information, at one of the addresses below.

In the United States :

Kathe Kiehn
Licensing Manager
Roche Molecular Systems, Inc
1145 Atlantic Avenue
Alameda, CA 94501 USA
(510) 814-2970
Fax : (510) 814-2997

In other nation:

Dr. Agnieszka Junosza-Jankowski
PCR Licensing Manager
F. Hoffmann-La Roche Ltd.
Building 222/350
CH-4002 Basel, Switzerland
41-61-687-3031
Fax : 41-61-687-21

Content

MyGenie^{TM} 32 Thermal Block

Version 4.0

< User's Guide >

CHAPTER 1. Introduction

1. Introduction

MyGenie**TM** 32 Thermal Block (version IV) is a cost-effective, peltier-based thermal block for life science research, equipped with a temperature control system.

MyGenie**TM** 32 Thermal Block (version IV) is light and compact size that it doesn't take too much space and easily movable. It has friendly user's interface that it is convenient for users to program for their own usage.

MyGenie**TM** 32 Thermal Block (version IV) has various function (Temperature increment, time increment, ramp rate control). You can use conveniently.

CHAPTER 2. System components & specification

2. System components and specifications

This product has one (1) year warranty.   There will be no warranty if the damages caused by user's mistake or mishandling.   After the warranty period, one (1) year, repair will be charged.

2.1. System components

Cat. No. A – 2030 – 4	
Main body	1 unit
User's manual	1 copy
Guarantee card	1 copy
A/S request	1 copy

2.2. Specifications

Physical specifications	
Dimension (mm)	241 (w) X 220 (h) X 296 (d)
Weight (Kg)	7.0 kg
Sample capacity/Size	32 well / 0.2 ml micro tubes
Display	20 × 4 Character LCD
Keypad	20 Key
Power input	110/220 Volt 400 Watt
Operating specifications	
Method of heating	Peltier
Method of cooling	Peltier
Temperature range	4℃ ~ 99℃
Temperature accuracy	± 0.3℃
Temperature uniformity	± 0.5℃
Ramping speed	Max 2.5℃/s
Lid temperature	90~120℃
Temperature increment range	0.1℃~9.9℃
Time increment range	1s~60s
Ramp rate control	0.1℃/s Set up per unit
Operating temperature	20 ~ 30℃
Operating humidity	20~80%(Condensate will happen in the bath)
Software specification	
Number of program	100
Number of repeated cycles	99
Number of steps/program	15
Temperature input range	4℃ ~ 99℃

2.3. System views

(1) Front view

Lid

Knob

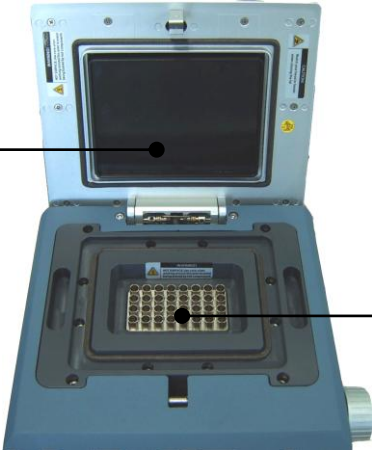Display window

Soft Key

(2) Side views

Knob
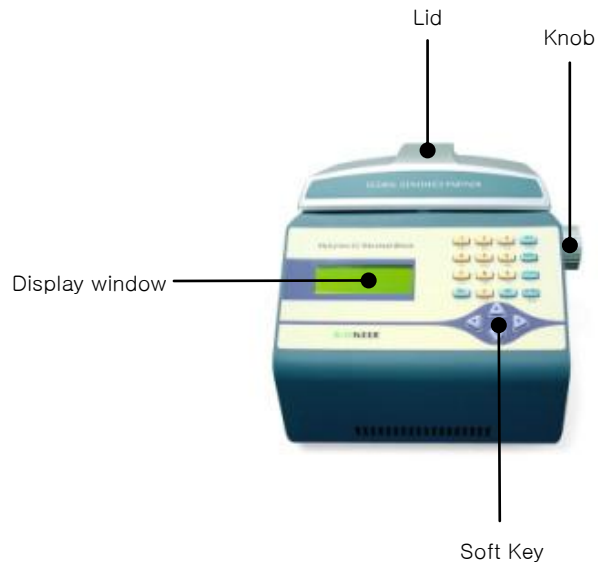
Air outlet vents
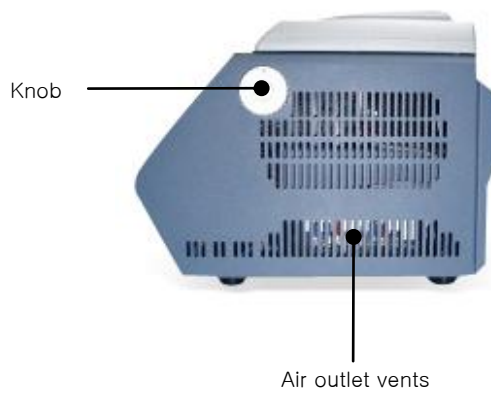
(3) Rear view

220/110 volt selector

Power on/off switch
& Plug connector

(4) Top view

Heating cover

Sample block

(5) Soft keys

Numeric key

Function key

Arrow key
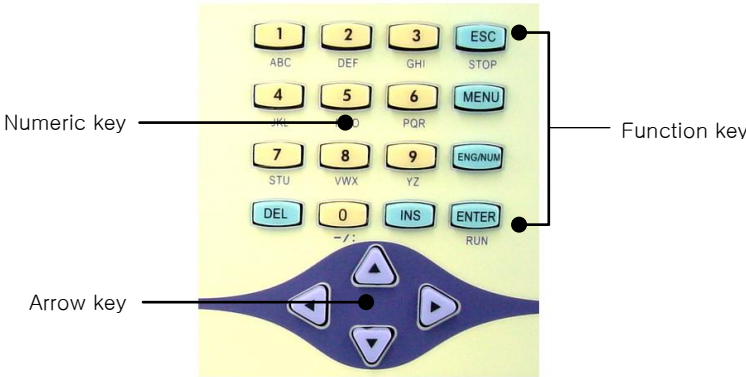
CHAPTER 3. Safety warnings

3. Safety warnings

Before operating the instrument, read the information in this section concerning hazards and potential hazards.

⚠ Warning: If not followed the serious damage and harm will occur even death.

⚠ Caution: If not followed, there will be danger to face serious damages and harms.

3.1. Set up

⚠ Warning

1) Before connecting the mains supply, check the voltage against the rating plate. This instrument is configured to use either at 220 Voltage or at 110 Voltage; the unit is set at 220 volt at the time of shipment.

2) Use ground connected Power. If it is not grounded, the system may break down or there may have electric leakage to cause electric shock.

3) If the power plug is loose, DO NOT use it since there may be damage in the plug. Damage in plug may cause electric shock and fire.

4) DO NOT use many instruments sharing the Power plug at the same time. It may heat up to cause fire.

5) While you plug in and plug out the power plug, MAKE SURE hands are dry.

6) DO NOT put hot objects on or near flammable objects. This may cause fire.

7) DO NOT place any liquid directly in your unit.

8) DO NOT install My Genie 32 in the place where inflammable, acid gas could be leaked nor close to such environment. If any gas is leaked, DO NOT turn on the power, but open the widow immediately to ventilate, any case of fire sparkle, this may cause the explosion and fire.

9) DO NOT disassemble nor modify the product.

⚠ Caution

1) MAKE SURE there is no dust on the plug before plug the power in. Plug the power tightly that it is not loose.

2) Use the product in the room temperature between 20℃~30℃. If the temperature is too high, the product may not operate efficiently.

3) DO NOT PLACE any items on the sides of the product. The items may block the fan that it may damage during operation.

4) DO NOT Drop the product. Any percussion may damage the product.

5) If the product is not used for long time, unplug the power to prevent possible heat up.

3.2. Operating and Managing

⚠ Warning

1) DO NOT use this product other than Thermal Block. Damage and accident may occur.

2) DO NOT place any paper, cardboard, cloth, etc under the product. This is to prevent any cause of fire.

3) DO NOT cover with any paper, cloth, or plastic on the product.

4) DO NOT open or touch right after the operation. This is to prevent burning.

5) In case of any modification is done or assemble during block change, this may not operate normally and if any damage occurs, BIONEER will charge for the repair.

CHAPTER 4. Operation

4. Operation

4.1. Using the keys

The keys on the control panel have the following functions:

1) ENTER/RUN: Enters information typed into a field and advances the cursor to the next field on a screen; Start a Program you selected.

2) MENU: Returns to the Main menu.

3) ENG/NUM: Switch between English letter and number while entering a Program name.

4) ESC/STOP: Moves to one step upper level of menu; Clears an entry; Stops a Program while it is running.

5) INS: Insert a letter or a number into a word or number; Insert a step into a Program.

6) DEL: Deletes the information from a field.

7) Numeric key: Enters numbers from left to right into a field you highlight.

8) Arrow key: Moves the cursor to different fields on the display screen in the direction of the arrow.

4.2. Main Menu

1) RUN: Displays a Program last used, which can be run directly by pressing the ENTER/RUN key.

2) SELECT & RUN: Displays the stored Programs. After reviewing all the parameters of a Program, you can start the selected Program.

3) PROGRAM: A Program can be created, modified, copied, or deleted.

4) OPTION: Shows system version information, A/S request information.

4.3. Instrument Self-Test

After turning on the instrument, MyGenie™ 32 Thermal Block will perform self-test routine. Make sure that the Main menu appears after the self-test. If any error occurs, call a BIONEER service representative for service.

1) Turn on the instrument.
2) The Display Widow will be like either (a) or (b)

(a) <u>If everything is OK</u>

: After 3~10 seconds of self-test, the Main menu appears.

```
    MyGenie 32 V4

    SYSTEM CHECKING...

BATH TEMP : 27.9    37.3

LID    TEMP : 38.4    43.1
```

⇩

```
1 >RUN: TEST

2   SELECT & RUN

3   PROGRAM

4   OPTION
```

(b) **If there is a problem with the instrument**

: The system will show an error message where the problem occurs.

```
MyGenie 32 V4

SYSTEM CHECKING…


RESET   STM . REQ . A / S
```
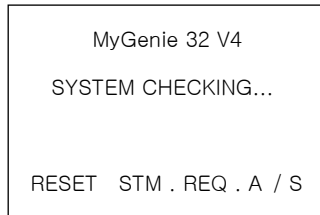
If you have an error message, turn off the instrument and call a BIONEER service representative.

CHAPTER 5. Using User Interface

5. Using the User's Interface

5.1. Using the RUN

From the RUN menu, you can start a Program by selecting the ENTER/RUN key. The Program last used appears on the Main menu, and you can start the Program by either pressing the soft key '1', or moving the cursor to '1. RUN' and then pressing the ENTER/RUN key.

The Program last used appears on the Main menu

```
1 >RUN: TEST
2   SELECT&RUN
3   PROGRAM
4   OPTION
```

Select "1" / Press the ENTER/RUN

```
RUNNING     TEST
PRECOOLING
BLOCK TEMP: 41.9 ℃
ESTI.  TIME:  01 : 32 : 02
```

```
RUNNING     TEST
COVER HEATING: 006.9
BLOCK TEMP : 29.8 ℃
ESTI.  TIME:  01 : 31 : 29
```

```
RUNNING     TEST
01   TEMP   93.7℃   00 : 30

ESTI.  TIME:  01: 31 : 09
```
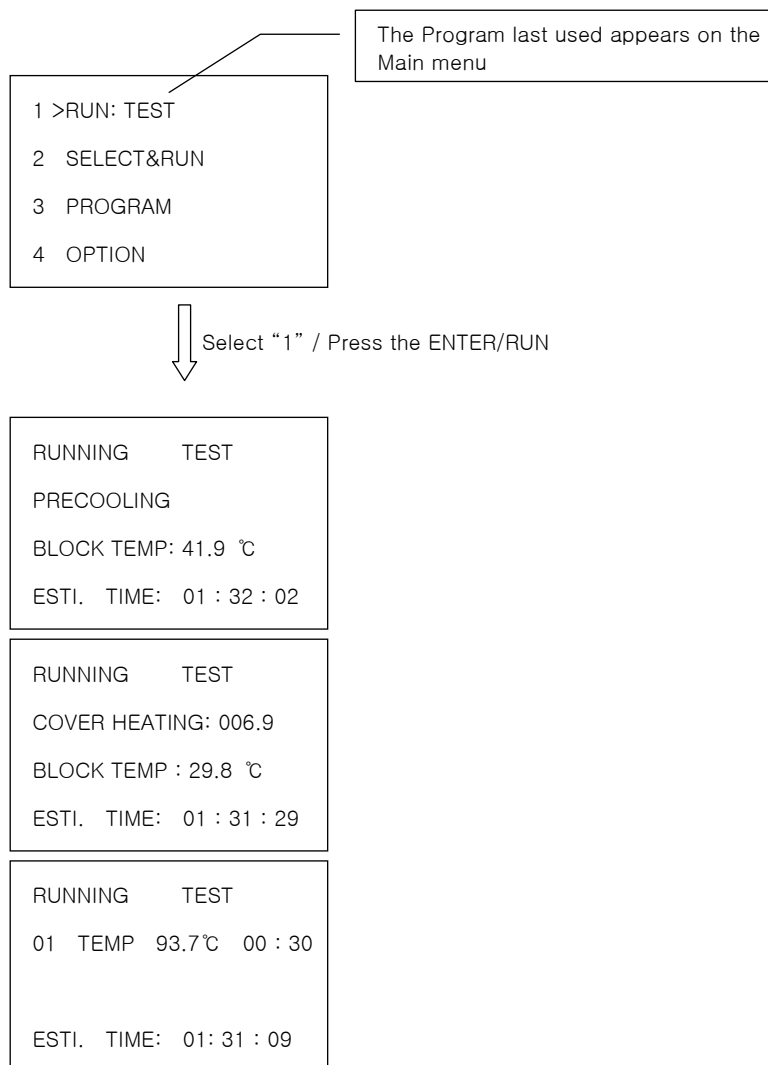
Use ESC/STOP key to stop the system.　If ESC/STOP Key is pressed, the dialog will confirm to stop again.　Select ESC key to continue or select Enter key to stop.

```
┌─────────────────────────────────┐
│  RUNNING     TEST               │
│                                 │
│  01  TEMP  93.7℃  00 : 30       │
│                                 │
│                                 │
│  ESTI.  TIME:  01 : 31 : 09     │
└─────────────────────────────────┘
```

⬇ Press the ESC/STOP

```
┌─────────────────────────────────┐
│   MyGenie 32   STOP ?           │
│                                 │
│                                 │
│      YES ==> ENTER              │
│                                 │
│      NO  ==> ESC                │
└─────────────────────────────────┘
```

① Press the ENTER/RUN　　　　② Press the ESC/STOP key

```
┌──────────────────────┐   ┌──────────────────────┐
│ 1 >RUN: TEST         │   │ RUNNING      TEST    │
│                      │   │                      │
│ 2  SELECT&RUN        │   │ 01  TEMP  93.7℃  00 : 30 │
│                      │   │                      │
│ 3  PROGRAM           │   │                      │
│                      │   │ ESTI.  TIME:  01: 31 : 06 │
│ 4  OPTION            │   │                      │
└──────────────────────┘   └──────────────────────┘
```
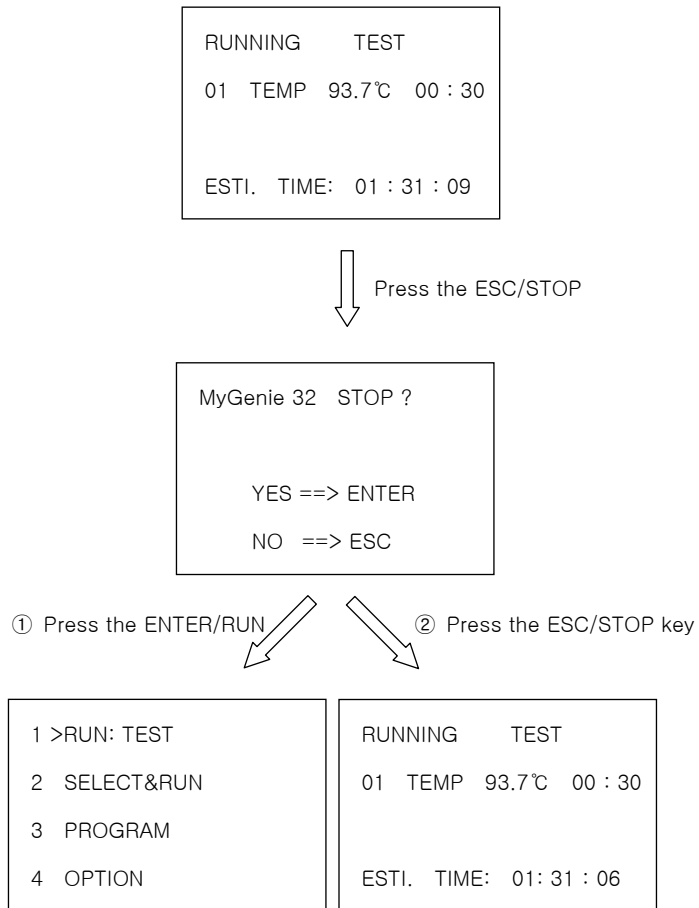
If the system does not shot down normally, such as sudden blackout or by user's mistake, it will go through self-testing so that it could execute again from the time where the system has shot down or it could stop operating.   The diagram below shows as you press ENTER key, the system can execute again or press ESC key to stop to go to main menu.

```
PROGRAM TEST

STOPPED AT 05 CYCLES

ENTER TO CONTINUE

ESC FOR STOP          299
```

Press the ENTER/RUN   Press the ESC/STOP

```
RUNNING     TEST

02  TEMP  52.8℃   00 : 30

       ===05/30===

ESTI.  TIME:  01 : 21 : 06
```

```
1 >RUN: TEST

2  SELECT & RUN

3  PROGRAM

4  OPTION
```
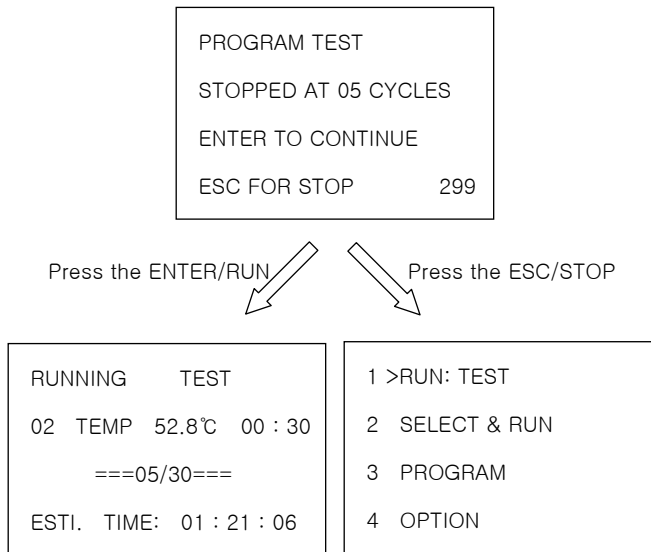
5.2. Using the SELECT & RUN

From the SELECT & RUN menu, you can select and run a stored Program. After reviewing Program parameters by selecting a stored Program, you can run the Program by pressing the ENTER/RUN key.

1) From the Main menu, select the SELECT & RUN by either pressing the numeric key '2', or moving the cursor to '2. SELECT & RUN', and then pressing the ENTER/RUN key.

```
1  RUN: TEST
2 >SELECT& RUN
3  PROGRAM
4  OPTION
```

2) This displays a stored list of Programs. Use the up and down arrow keys to move to a Program you want, and then press ENTER/RUN key.

```
SELECT&RUN       012/100
01   TEST
02   BIONEER
03   SYSTEM
```

3) After reviewing the Program parameters, press the ENTER/RUN. Use the up and down arrow keys to select YES or NO. The system can execute again or press ESC key to stop to go to main menu.

```
TEST            LID : 100℃
01   TEMP      94℃   00:30
02   TEMP      53℃   00:30
03   TEMP      72℃   00:30
```

ENTER/RUN key ⇩

```
┌─────────────────────────────────┐
│                                 │
│   PROGRAM   SELECTED            │
│                                 │
│   RUN   PROGRAM ?   YES         │
│                                 │
│   NAME : TEST                   │
│                                 │
└─────────────────────────────────┘
```

① YES & ENTER ↙   ↘ ② NO & ENTER or ESC

```
┌─────────────────────────┐   ┌─────────────────────────┐
│                         │   │                         │
│  RUNNING      TEST      │   │  SELECT&RUN     012/100 │
│                         │   │                         │
│  PRECOOLING             │   │  01   TEST              │
│                         │   │                         │
│  BLOCK TEMP : 41.9 ℃    │   │  02   BIONEER           │
│                         │   │                         │
│  ESTI.  TIME:  01 : 32 : 02 │ │  03   SYSTEM            │
│                         │   │                         │
└─────────────────────────┘   └─────────────────────────┘
```

5.3. Using the PROGRAM

5.3.1. Command usage

You can choose up to 7 commands to use the machine. Make sure to understand each command and usage before creating the program.

1) TEMP: Temperature and time setting. (Temp. range: 4℃~99℃ / Time range: 00:01 ~99:59)

```
01  TEMP     94℃   00:30
02  TEMP     53℃   00:30
03  TEMP     72℃   00:30
04  GOTO   01   30TIMES
```

2) GOTO: Repeat from step previous step and input step and repeating times you had programmed. The following is the example. It will repeat step 2 and step 4 for 30 times.

```
01  TEMP     94℃   05:00
02  TEMP     94℃   00:30        ┐
03  TEMP     53℃   00:30        ├── Repeating range (02 step ~ 04 step)
04  TEMP     72℃   00:30        ┘
05  GOTO   02   30TIMES
```

3) TEMP± (Temperature increment) : Insert the temperature increment. The temperature could be programmed up to ±9.9℃. The temperature will be changed per cycle as you programmed.

```
01  TEMP     94℃   05:00
02  TEMP     94℃   00:30
03  TEMP     53℃   00:30
04  TEMP±  − 0.5 °/ cyc.
05  GOTO   02   30TIMES
```

In each cycle, the step 3, the temp. 53° will change.

4) TIME± (Time increment) : Insert the time increment. The time could be programmed up to ±60 sec. The time will be changed per cycle as you programmed.

```
01   TEMP      94℃   05:00
02   TEMP      94℃   00:30
03   TEMP      53℃   00:30
04   TIME±   +01sec / cyc.
05   GOTO    02   30TIMES
```

In each cycle, the step 3, the time 30s will change. 1s will increase to run it.

5) RAMP (Ramp rate control): It is to control Ramp rate. The step before and right after the changes of the temperature and the time will be set in the Ramp rate control. In case of the following as an example, the temperature from 01 step, (94℃) to 03 step (53℃) will change at the speed of 0.5℃/sec.

```
01   TEMP      94℃   05:00
02   RAMP      0.5 ° / sec
03   TEMP      53℃   00:30
04   TEMP      72℃   00:30
```

6) STORE : The temperature (8℃) will remain at what you had stored.

7) END : It is command to finish the Program. END command must be inserted to finish the program. Otherwise, the program will be inserted automatically saved.

```
11   TEMP      94℃   00:30
12   TEMP      68℃   00:30
13   GOTO    10   30TIMES
14   TEMP      72℃   10:00
15   END ============
```

5.3.2. NEW

In NEW function, you can give various commands such as Temperature increment, time increment, ramp rate control.   It is possible to input up to 15 steps and even any complicated and long programs can be created conveniently.   You can save up to 100 programs that many users are able to use the same machine.

1)   From the Main menu, select Program by either pressing the numeric key '3', or moving the cursor to '3. PROGRAM' and then pressing the ENTER/RUN key.

```
1   RUN : TEST

2   SELECT&RUN

3 >PROGRAM

4   OPTION
```

2)   On the below screen, you can select NEW by either pressing the numeric key '1', or moving the cursor to '1. NEW' and then pressing the ENTER/RUN key.

```
1 >NEW

2   EDIT

3   COPY

4   DELETE
```

3)   From the below screen, enter the way you want to appear.   In the PROGRAM NO field, a number will be automatically given.   In the NAME field, enter alphanumeric name up to ten characters in length.   Press ENTER/RUN key.

```
NEW                ENG

PROGRAM NO : 02

NAME : BIO_

LID ON : 100  ℃
```

Use the ENG/NUM key

4) In the LID HEATING field, use the direction keys (↑↓) to select ON or OFF. If you select LID ON mode, the default lid temperature is 100℃. But, you can set lid temperature ranges from 90~120℃.

NOTE : If you select LID OFF mode, lid is not heated.

```
NEW                  ENG

PROGRAM NO : 02

NAME : BIONEER

LID ON : 100  ℃
```

5) Next, from the below screen, move the cursor to ① by pressing the direction keys.

```
BIONEER        LID : 100℃

0 1   ①

0 2

0 3
```

6) TEMP is the only command for 01 step. The other commands are begun at 02 step, however, you can use the direction keys (↑↓) to select one of the eight commands.

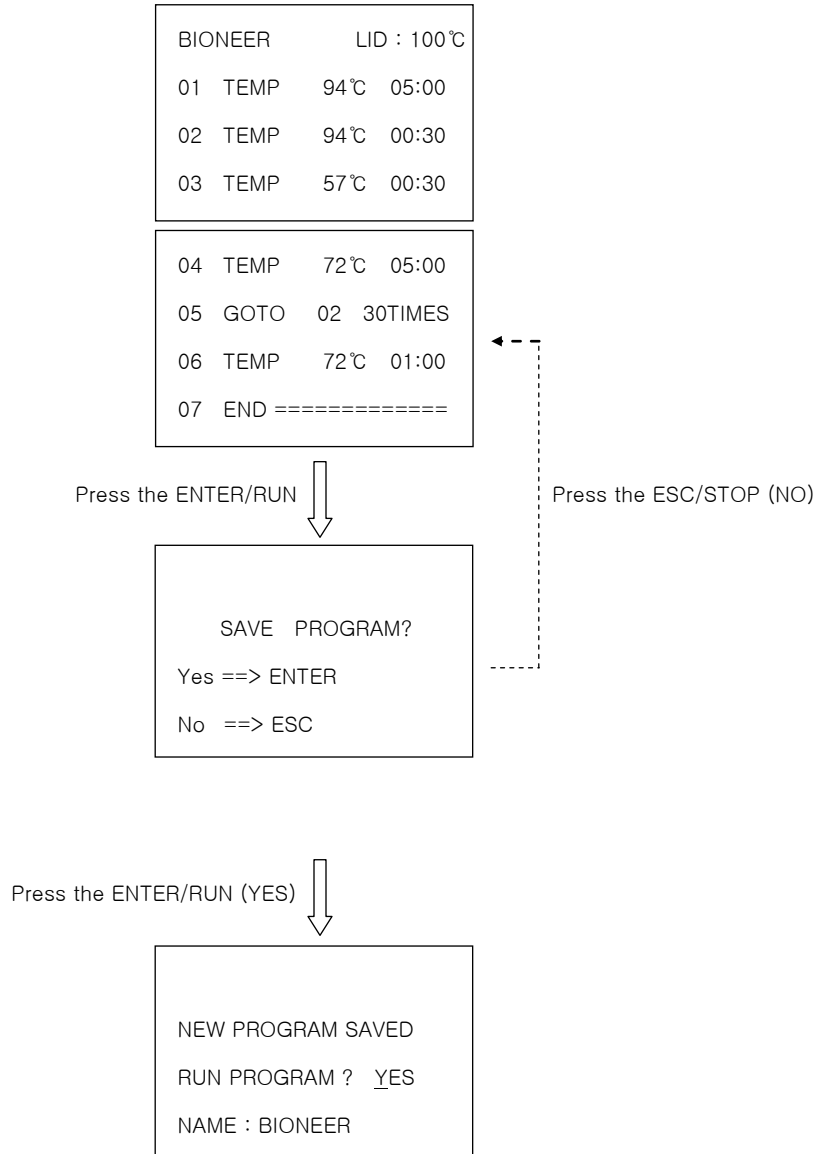※ The direction of command usage will be described in 5.3.1.

```
BIONEER        LID : 100℃

01  TEMP    94℃   05:00

02  TEMP

03
```

```
TEMP
GOTO
STORE
TEMP±
TIME±
RAMP
END
```

7) On the below screen, you can enter temperature and time control parameters. Storing a method completes the creation of it. Pressing the ENTER/RUN key displays the SAVE PROGRAM screen. Press ENTER/RUN or ESC/STOP as you wish.

```
BIONEER          LID : 100℃

01   TEMP      94℃   05:00

02   TEMP      94℃   00:30

03   TEMP      57℃   00:30
```

```
04   TEMP      72℃   05:00

05   GOTO     02   30TIMES

06   TEMP      72℃   01:00

07   END ============
```

Press the ENTER/RUN   Press the ESC/STOP (NO)

```
     SAVE   PROGRAM?

Yes ==> ENTER

No  ==> ESC
```

Press the ENTER/RUN (YES)

```
NEW PROGRAM SAVED

RUN PROGRAM ?   YES

NAME : BIONEER
```

5.3.3. EDIT

After you create a Program, you can edit the parameters in it and store it by the same name. Name of a Program cannot be modified.

1) From the Main menu, select Program by either pressing the numeric key '3', or moving the cursor to '3. PROGRAM' and then pressing the ENTER/RUN key.

```
1  RUN : TEST

2  SELECT&RUN

3 >PROGRAM

4  OPTION
```

2) On the below screen, you can select EDIT by either pressing the numeric key '2', or moving the cursor to '2. EDIT' and then pressing the ENTER/RUN key.

```
1  NEW

2 >EDIT

3  COPY

4  DELETE
```

3) This displays a list of stored Programs. Use the arrow keys to move to a Program you want to edit, and then press ENTER/RUN key.

```
EDIT              012/100

01   TEST

02   BIONEER

03   SYSTEM
```

4) View the parameters of a Program before making a selection. Edit control parameters as necessary.

NOTE : Use the INS or DEL keys to insert or delete a particular step after locating the cursor in place.

```
EDIT              012/100

PROGRAM NO : 02

NAME : BIONEER

LID ON : 100 ℃
```

```
BIONEER        LID : 100℃

01   TEMP      94℃   05:00

02   TEMP      94℃   00:30

03   TEMP      57℃   00:30
```

5) Press the ENTER/RUN key and store the Program. Pressing the ENTER/RUN key or ESC/STOP key.

```
This will overwrite

    previous program.

Yes ==> ENTER

No  ==> ESC
```

ENTER/RUN

```
     SAVE   PROGRAM?

Yes ==> ENTER

No  ==> ESC
```

ESC/STOP (NO)

```
BIONEER        LID : 100℃

01   TEMP      94℃   05:00

02   TEMP      94℃   00:30

03   TEMP      57℃   00:30
```

ENTER/RUN (YES)

```
EDIT PROGRAM SAVED

RUN PROGRAM ?  YES

NAME : BIONEER
```

ESC/STOP (NO) ⟹

```
1 >NEW

2  EDIT

3  COPY

4  DELETE
```

5.3.4. COPY

In the COPY menu, you can copy and save a Program by a different name. You may want to edit the copied Program and save the Program with a different Program name.

1) From the Main menu, select Program by either pressing the numeric key '3', or moving the cursor to '3. PROGRAM' and then pressing the ENTER/RUN key.

```
1  RUN : TEST

2  SELECT&RUN

3 >PROGRAM

4  OPTION
```

2) On the below screen, you can select COPY by either pressing the numeric key '3', or moving the cursor to '3. COPY' and then pressing the ENTER/RUN key.

```
1  NEW

2  EDIT

3 >COPY

4  DELETE
```

3) This displays a list of stored Programs. Use the arrow keys to move to a Program you want to copy, and then press ENTER/RUN key.

```
COPY              012/100

01  TEST

02  BIONEER

03  SYSTEM
```

4) In the COPY screen, enter a new name for the Program, and press the ENTER/RUN key. Next, choose whether or not to use the lid heating option by pressing the up and down arrow keys.

```
COPY                    ENG

OLD NAME : TEST

NEW NAME : TEST-1

LID ON : 100℃
```

5) From the below screen, edit parameters of the copied Program as necessary. Press the ENTER/RUN key.

```
You may want to edit parameters
in the copied Program.
```

```
TEST-1          LID : 100℃

 01  TEMP     94℃  00:30

 02  TEMP     53℃  00:30

 03  TEMP     72℃  00:30
```

6) Selecting ENTER/RUN key allows to store the Program and to run the Program right away. Press the ESC to abort what you have done and return to the PROGRAM screen.

```
      SAVE PROGRAM?

Yes ==> ENTER

No  ==> ESC
```

ESC/STOP (NO)

```
TEST-1          LID : 100℃

 01  TEMP     94℃  05:00

 02  TEMP     94℃  00:30

 03  TEMP     57℃  00:30
```

ENTER/RUN (YES)

```
COPY PROGRAM SAVED

RUN PROGRAM?  YES

NAME : TEST-1
```

ESC/STOP (NO)

```
1 >NEW

2  EDIT

3  COPY

4  DELETE
```

5.3.5. DELETE

You can delete Programs from the DELETE screen.

1) From the Main menu, select Program by either pressing the numeric key '3', or moving the cursor to '3. PROGRAM' and then pressing the ENTER/RUN key.

```
1   RUN : TEST

2   SELECT&RUN

3 >PROGRAM

4   OPTION
```

2) On the below screen, you can select DELETE by either pressing the numeric key '4', or moving the cursor to '4. DELETE' and then press the ENTER/RUN key.

```
1   NEW

2   EDIT

3   COPY

4 >DELETE
```

3) This displays a list of stored Programs. Use the arrow keys to move to a Program you want to delete, and then press ENTER/RUN key.

```
DELETE              12/100

01   TEST

02   BIONEER

03   SYSTEM
```

4) This displays the Delete Confirmation screen. Use the up and down arrow key to select YES confirm the deletion, then press the ENTER/RUN key. This deletes the Program and returns you to the select folder menu.

```
   DELETE PROGRAM
  ARE YOU SURE ?  YES

 NAME : SYSTEM
```

⇩

```
1 >NEW

2  EDIT

3  COPY

4  DELETE
```

5.4. Using the OPTION.

From the OPTION, you can access the version of the system and how to contact for a service. System setting is to be used only for service.

5.4.1. SYSTEM VERSION

From the SYSTEM VERSION screen, you can get information about the version of the software and the hardware system.

1) From the Main menu, select Program by either pressing the numeric key '4', or moving the cursor to '4. OPTION' and then pressing the ENTER/RUN key.

```
1   RUN : TEST

2   SELECT&RUN

3   PROGRAM

4 >OPTION
```

2) On the below screen, you can select SYSTEM VERSION by either pressing the numeric key '1', or moving the cursor to '1. SYSTEM VERSION' and then pressing the ENTER/RUN key.

```
OPTION.

1 >SYSTEM VERSION

2   SYSTEM SETTING

3   A/S REQUEST
```

3) After reviewing the system information, press the ENTER/RUN again to return to the Main menu.

```
S/W   version   4.0

H/W   version   4.0


BIONEER      Corporation
```

5.4.2. A/S REQUEST

From the A/S REQUEST screen, you get BIONEER contact information for an emergency call.

1) From the Main menu, select Program by either pressing the numeric key '4', or moving the cursor to '4. OPTION' and then pressing the ENTER/RUN key.

```
1  RUN : TEST

2  SELECT&RUN

3  PROGRAM

4 >OPTION
```

2) On the below screen, you can select A/S REQUEST by either pressing the numeric key '3', or moving the cursor to '3. A/S REQUEST' and then pressing the ENTER/RUN key.

```
OPTION.

1  SYSTEM VERSION

2  SYSTEM SETTING

3 >A/S REQUEST
```

3) After viewing the contact information, press the ENTER/RUN key to return to the Main menu.

```
BIONEER

     CALL CENTER

          1588-9788
```

CHAPTER 6. TROUBLESHOOTING

CHAPTER 6. TROUBLESHOOTING

6. Troubleshooting

Problem	Solution
Power is not on	Check if it is plugged and turn on the switch.
Delay in operating or temperature control is not accurate.	Check the temperature of the outside of the system and the humidity.

Error message	Solution
RESET STM. REQ . A / S	Please contact sales@bioneer.com for the support.
No Program Press any key!!	Program that executed right before had been deleted. Please select other program to execute.
Memory full Press any key	There are 100 programs stored in the system. If you need to create or copy, please delete some of the programs.
Save Error No Steps Press any key!	While program is being created, there is no information of operating condition. Input operating conditions.
Save Error Step overflow Press any key!	Use all 15 steps to program but did not input END command. Input END command.
Same name was used! Enter other name.	While inserting the Program name, you have used the same name with existing program. Insert the new name.
Operating Temp. Overflow at ▢ cycle	In case of executing inserted Temp. Increment, operating temperature range will exceed in designated cycle. Check the program and reduce the temperature or adjust the number of the cycle.

Operating Temp. Underflow at ▢ cycle	In case of executing inserted Temp. Increment, designated cycle will be 0℃. Check the program and reduce the temperature or adjust the number of the cycle. Temp.
Operating Time Overflow at ▢ cycle	In case of executing inserted Time Increment, operating time range will exceed in designated cycle. Check the program and reduce the temperature or adjust the number of the cycle.
Operating Time Underflow at ▢ cycle	In case of executing inserted Time. Increment, designated cycle will be 0 sec. Check the program and reduce the temperature or adjust the number of the cycle.
No Program To Edit Press any key	There is no program in a stored list. Create the new program.
No Program To Copy Press any key	There is no program in a stored list. Create the new program.
No Program To Delete Press any key	There is no program in a stored list. Create the new program.
No Program.	There is no program in 'SELECT & RUN' menu.
Loop Option Error! Press any key!!!	In case of creating or editing the program, entered protocol will not save normally. Check the program and correct the invalid GOTO step.
Ramp Option Error! Press any key!!!	In case of creating or editing the program, entered protocol will not save normally. Check the program and correct the invalid RAMP step.
Temp Option Error! Press any key!!!	In case of creating or editing the program, entered protocol will not save normally. Check the program and correct the invalid Temp.± step.
Time Option Error! Press any key!!!	In case of creating or editing the program, entered protocol will not save normally. Check the program and correct the invalid Time± step.

CHAPTER 7. ORDERING INFORMATION

& LIMITED WARRANTY

& AFTER SERVICE APPLICATION

BiONEER CORPORATION

7. Ordering information

Product	Cat. No.
MyGenie^{TM} 32 Thermal Block	A-2030-4

LIMITED WARRANTY

Bioneer Corporation tests quality for each product from the Quality Control. During the limited warranty period, Bioneer will repair any products at free of charge that are caused by mishandled components or any errors by manufacturer.

Product	**MyGenie™ 32 Thermal Block**
Catalog No.	**A-2030-4**
Serial No.	
Date of purchase	Year Month Day
Warranty period	From the date of the purchase

1. Guide for Service Application

Once you find that there is a problem in the product, fill out the after service application attached to this manual and summit it by fax or by mail. If it is not that complicated case, or the repair maybe fixed by simple direction, then you can call directly to the office to request direct line service. All the reply of the service application will be replied within 7 days and with the solution Bioneer will reply within 14 days.

2. Guide for Free Service

The Warranty period is one (1) year from the date you have purchased the goods. If the product error occurred by Bioneer, the repair cost is at free of charge.

3. Guide for Paid Service

The following conditions are charged service.

1) In the case the system is broken by mishandled by the users.

- When the system is broken by careless handled or purposely mishandled.

- Any modification made by the users or the 3rd companies without Bioneer's approvals.

- Dropped after the installation.

2) Miscellaneous

- Any damage caused by natural disaster

Headquarters	Bioneer, Inc.	Bioneer Co., Ltd. China	Order

| AFTER SERVICE APPLICATION ||||

Product	MyGenie^{TM} 32 Thermal Block		
Catalog No.	A-2030-4		Serial No.	
Application Date				
Purchase Date				

Problem	Date problem occur	
	Problems location	
Description	Symptom of the system	
	Miscellaneous Remark	

Customer	Address	
	Job Title	
	Name	
Information	Contact	Tel:	Fax:
	E-mail	

Headquarters	Bioneer, Inc.	Bioneer Co., Ltd. China	Order
8-11, Munpyeongseo-ro, Daedeok-gu, Daejeon 306-220, South of Korea Phone:+82-42-930-8777, Fax:+82-42-930-8688 Email: sales@bioneer.com Web Site: www.bioneer.com	1000 Atlantic Avenue, Alameda, CA 94501 USA Toll free : 1-877-264-4300 Fax : 1-510-865-0350 E-mail: order.usa@bioneer.us.com Web Site: us.bioneer.com	403 Room, Building 88, number 887, Zuchongzhi Road, Zhangjiang High Technology Park, PuDong new District, Shanghai 201203, China Tel: +86-21-5080-0969/1191/1651 Fax: +86-21-5080-1620 E-mail: salescn@bioneer.com Web Site: www.bioneercn.com	Korea: order@bioneer.co.kr 1588-9788 International: sales@bioneer.com +82-42-930-8777