

Asymptote EF600 Series Controlled Rate Freezer

Quick Start Guide – With PC

Please see the accompanying full user manual for comprehensive details of operating procedure, data logging configuration and cryopreservation protocols.

1. Switch on the EF600 freezer

Connect the EF600 freezer unit to the power supply and connect the data logging cable between the freezer and the serial port of the computer. Switch the unit on using the switch on the front of the freezer.

2. Launch the data logging program

Start the data logging program by either clicking on the 'Asymptote Data Logger' desktop shortcut icon or by selecting it from the program list.

3. Select freezing profile and data logging interval

After communications with the freezer are established, select the required freezing profile and data logging interval from the respective drop down lists in the program software.

4. Set up the file path and name

In the program software, browse to the folder into which you wish to store the data log file. Enter a suitable name for the data log file.

If the file already exists then new data will be appended to the end of the file.

5. Load samples

When the 'Ready To Load' light illuminates, position the samples in the sample plate. The sample holders and sample plate must both be dry to prevent icing.

6. Complete freezing cycle

Click the 'START LOGGING' button in the program software to begin saving the data log file. Press the 'START CYCLE' button on the freezer. The buzzer will sound and the 'Nucleate Now' light will illuminate when the sample is ready for nucleation. Silence the buzzer using the "BUZZER OFF" button and nucleate the samples with an appropriate nucleating tool. The buzzer will sound and the 'Cycle Complete' light will illuminate when the freezing program has ended and the samples can be removed. Click the 'STOP LOGGING' button in the program software to complete the data log file.

7. Switch off the EF600 freezer

The freezer must be switched off before completing another freezing cycle. The freezer unit and sample plate can be cleaned and sterilised if required.

8. View data log file

Use Excel to view the data log file by browsing to the location you selected earlier. The default path is:

"C:\Program Files\Asymptote\Asymptote Data Logger\"

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Quick Start Guide – Standalone

Please see the accompanying full user manual for comprehensive details of operating procedure, data logging configuration and cryopreservation protocols.

The EF600 can work in standalone mode but must first be configured using a host PC. Please note that using this method does not create a data log file for process verification.

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2. Launch the data logging program

Start the data logging program by either clicking on the 'Asymptote Data Logger' desktop shortcut icon or by selecting it from the program list.

3. Select freezing profile

After communications with the freezer have been established, select the required freezing profile from the drop down list in the program software. Wait for approximately ten seconds. Close the 'Asymptote Data Logger' software. Disconnect the data logging cable between the freezer and the serial port of the computer.

The freezer is now configured to work in standalone mode and can be switched off and moved if required. The freezer will always run the selected freezing profile each time the start button is pressed.

4. Load samples

Switch the unit on using the switch on the front of the freezer. When the 'Ready To Load' light illuminates, position the samples in the sample plate. The sample holders and sample plate must both be dry to prevent icing.

5. Complete freezing cycle

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The freezer must be switched off before completing another freezing cycle. The freezer unit and sample plate can be cleaned and sterilised if required.

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