

## USB DATA RECORDER: USER MANUAL

### Introduction

The USB data recorder will register into a .txt file all the data during the cycles of the machine: Blast Chilling or Freezing and also during conservation phase.

The data is registered every minute and will include:

- Date and time
- Cabinet Temperature
- Core probe Temperature
- Type of Cycle
- Start and Stop of Cycle
- Door openings
- Alarms

The data is constantly stored on the internal recorder, and can be downloaded anytime from the internal recorder introducing a USB pen drive into the plug on the machine.

### Instructions to download the data

1. Find on the machine the USB plug and insert the USB pen drive →
2. **IMPORTANT:** wait until the led of the pen drive stops flashing, which means that all the data is recorded on the pen drive.
3. Extract the pen drive
4. On the pen drive you will find a file named **log00n000001.txt** which is a text file, delimited with “;” (semicolon).



The best way to see the data on the file is using Microsoft Excel, following this sequence:

- Launch Microsoft Excel
- Go to “open file”
- Select “text file” on the type of file
- Open the file registered on the pen drive
- Select “Delimited” file
- Select as delimitator the semicolon “;”

As an alternative you can open the file with a normal text editor

Every time you insert the pen drive, a new log file will be generated, with a progressive number (*log00n000002.txt, log00n000003.txt, log00n000004.txt, etc*).

Every file generated will contain the complete historical data recorded, up to the moment of insertion of the pen drive. So every time the file is bigger.

As a consequence, the time to save the file on the pen drive (see point 2.) will increase from some seconds to several minutes, depending on how much data is stored on the recorder. **IT'S VERY IMPORTANT TO WAIT UNTILL ALL THE DATA IS RECORDED ON THE PEN DRIVE BEFORE REMOVING IT, WAITING UNTIL THE LED ON THE PEN DRIVE STOPS FLASHING.**