CYTO Sensei

Controlled-Rate Freezer

This small footprint system freezes your important cells while keeping high viability without using additional refrigerants.

- There is no need for refrigerants, such as liquid nitrogen or ethanol, to reach -80°C.
- Great for iPS and ES cells!
- Compact benchtop design small enough to fit in a biological safety cabinet.

No liquid nitrogen or additional refrigerants are required

- Employs a free-piston Stirling cooler system, which does not need to add refrigerants such as liquid nitrogen to the system.
- Reduces the running cost drastically.

Compact design

- Lightweight with compact design for individual benchtop use.
- Can be placed on a safety cabinet or biological isolator.

Removable sample freezing block

- Sample blocks are replaceable per purpose.
- Custom design of the block is available .

Data management on a PC

- A configurable custom freezing profile is available.
- Temperature can be monitored and recorded on a PC.
- Monitoring of temperature at three points, at the top of the rack, bottom, and sample.

An optional heater is available

- Quickly reset the system back to room temperature in as little as 15 minutes ready for the next freeze cycle. Not for sample thawing.

Specification	
Lowest Temperature	-80°C
Power	AC 100-240 V/50-60 Hz
Temperature Control	PID Control
Refrigeration Unit	Stirling Cooler
External Size	W 430 × D 220 × H 430 mm
Number of Housing Blocks	1
Communication Port	RS232C (Freezer) USB (PC)
Electric Consumption	200W
Weight	12.7 kg
Attachments	Laptop Computer (not included)