Technical Notes

FREEZE CONTROL®

Introducing FREEZE CONTROL® Systems

FREEZE CONTROL® patented freezing systems, designed and manufactured by CryoLogic, provide a unique and reliable method for temperature control in the cryopreservation of biological material._The systems are suitable for controlled rate freezing and thawing of specimens. Freezing operations can be performed repeatedly. CryoLogic offers a range of controlled rate freezing systems and accessories.

Performance

With FREEZE CONTROL®, specimen temperature is precisely specified and accurately maintained at all times. The unique design of the cryochamber ensures uniformity of specimen temperature and ensures stable temperature control. The systems provide stable and precise cooling without temperature fluctuations, and can hold temperatures at any point within the control range.

Proven

FREEZE CONTROL® systems are recognized worldwide and are extensively used in a range of laboratories. They have been successfully used for routine cryopreservation of embryos, semen, and other reproductive material. Results are consistent, and accurately reproducible.

Convenient and Portable

FREEZE CONTROL® systems are compact and light weight, easily moved from one place to another. Most models are equipped with universal power supplies and all models can operate worldwide. Systems can also be run from a dedicated power pack for secure work in unreliable power situations or for in the field applications.

Customisation

Systems can be tailored to meet user's requirements. Customer specified protocols can be pre-installed in preprogrammed systems or protocols can be developed by using Cryogenesis™ software.

FREEZE CONTROL® Advantages

- Modular, interchangeable parts
- Fast set up and dismantle
- The interchangeability of these chambers and controllers offers flexibility and allows customers to purchase a customized system to meet their specific requirements
- Uniformity of specimen temperature along and between straws due to the geometry of the freezing chamber
- Efficient extraction of Latent Heat due to tight thermal coupling of specimen containers with the heat exchanger
- Simplicity of manual seeding, and convenient inspection
- Thermal mass has been kept to a minimum so that a more significant amount of the thermal control is spent on the specimens, and so that LN2 and power requirements are reduced.
- Low cost, low operating and maintenance costs
- No noise, no moving parts to wear out
- Portable
- Competitively priced to suit all budgets
- Two year manufacturer's warranty

For Further Information Contact CryoLogic
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Fax: 61 3 9574 7300

CryoLogic
Innovative Instrumentation for Medicine & Life Sciences

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Enhanced Functionality, User Friendly operation

Economical
-Running costs are low, minimal maintenance requirements

Quiet & Safe
-Requires no pumps for liquid nitrogen, minimal consumption of liquid nitrogen and operation of systems is silent

Reliable
-No compressors, solenoids, fans or valves
-No expensive replacement costs
-Long term calibration stability

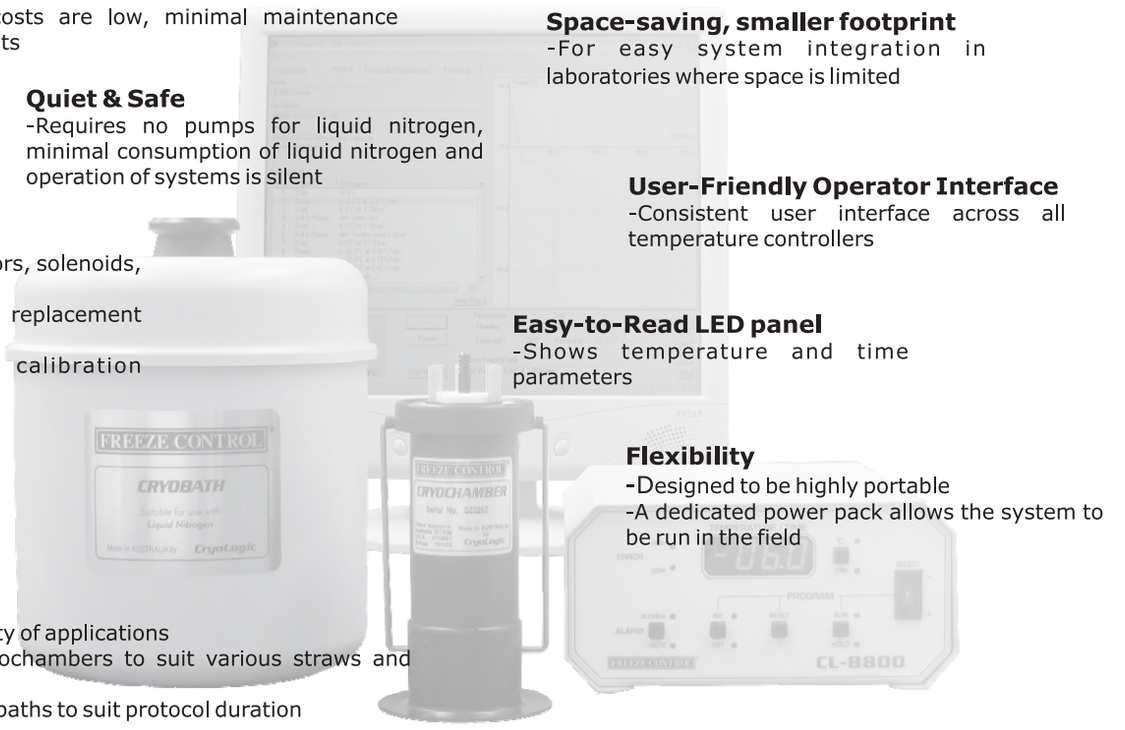
Space-saving, smaller footprint
-For easy system integration in laboratories where space is limited

User-Friendly Operator Interface
-Consistent user interface across all temperature controllers

Easy-to-Read LED panel
-Shows temperature and time parameters

Flexibility
-Designed to be highly portable
-A dedicated power pack allows the system to be run in the field

Versatile
-Used for variety of applications
-Choice of cryochambers to suit various straws and ampoules
-Choice of cryobaths to suit protocol duration



Complete Off-The-Shelf System Packages

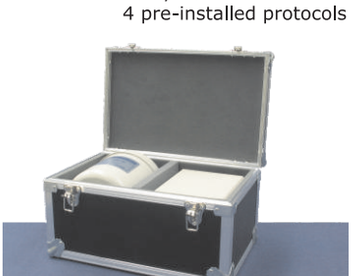
With pre-configured standard system packages, CryoLogic has made it quick and easy to select a FREEZE CONTROL® system for routine cryopreservation.

You get everything you need - a temperature controller, standard straw cryochamber, 1.5L cryobath, and a carry case - a complete system for the job.

If necessary, other modules can be added later.

Configuration	System Includes	Order Code
CL 8800 System	User-Programmable temperature controller 23-slot cryochamber 1.5L Cryobath Carry Case Internal temperature logger Cryogenesis™ Software 16 pre-installed protocols	8800SYS
CL 3300 System	User-Programmable temperature controller 23-slot cryochamber 1.5L Cryobath Carry Case Cryogenesis™ Software	3300SYS
CL 5500 System	Prerogrammed temperature controller 23-slot cryochamber 1.5L Cryobath Carry Case In built Battery pack 8 pre-installed protocols	5500SYS
CL 2200 System	Preprogrammed temperature controller 23-slot cryochamber 1.5L Cryobath Carry Case 4 pre-installed protocols	2200SYS

FREEZE CONTROL® CL5500 System



Carry Case

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