

# CoolBox



## CoolBox

Ice-Free /  
Sample Cooling &  
Freezing

# Ice Cooling



Current method of cooling samples in ice. Directly inserting tubes into ice can result in temperature variability, lost or illegible labels, mis-identification, errors in aliquoting and increased risk of contamination.

“BioCision’s proprietary and patented portable bench top tools **reduce variability and ensure consistency in clinical sample handling.** How samples are handled prior to analysis is critical to the outcome of experiments in basic and clinical research. *“Biotech International” (November 2010)*

# CoolBox eliminates ice

## Consistent ice-free cooling and freezing

- cartridges provide up to 10 hours of ice-free 0.5 – 4°C cooling
- continuous +/- 0.1°C consistency to all wells

## Cool, freeze or snap-freeze

- five temperature options using cartridges, dry ice or LN2
- portable
- accommodates variety of tubes & plates



## Highly recommended for

- PCR and RNA work, cell culture, cooling in biosafety cabinet, GMP/GLP suites and vivarium, bio-hazardous containment, short transport

# CoolBox 30 & CoolBox Microplate



## CoolBox 30 System (for tubes)

- Ice-free tube cooling / freezing
- Includes CoolBox, lid, blue +2°C cartridge, red stage, purple insulator pad
- Accommodates all 30-well CoolRacks
- Sold separately OR with CoolRack

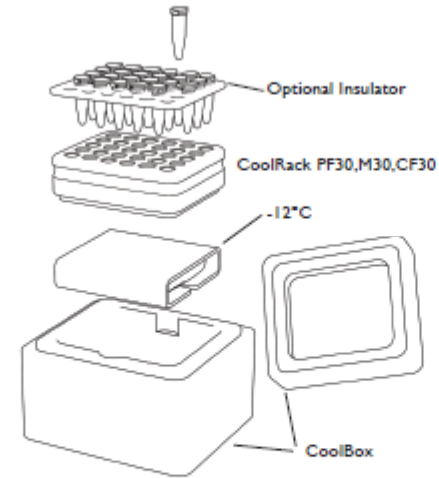
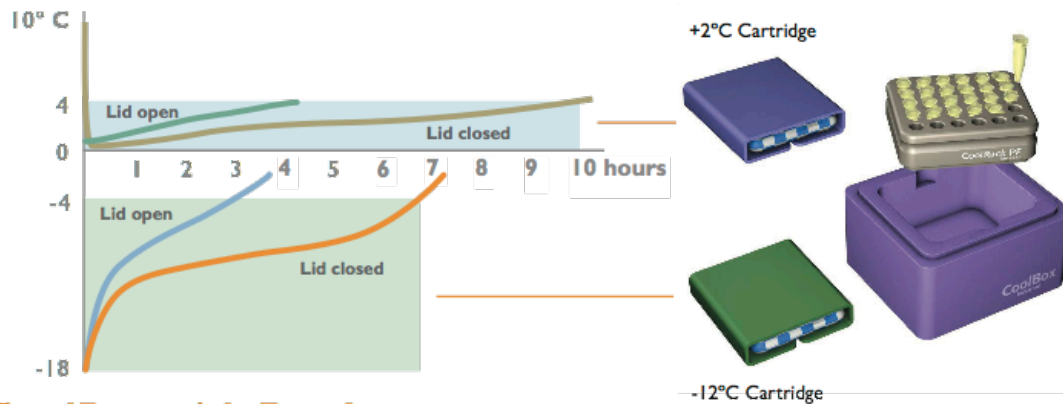
## CoolBox Microplate System (for plates)

- Ice-free SBS-format plate & tube cooling & freezing
- Includes CoolBox, lid, blue +2°C cartridge
- Accommodates all SBS format modules - CoolSinks, CoolRack PCRs, CoolRack 1mlx96
- Sold separately OR with CoolRack/CoolSink

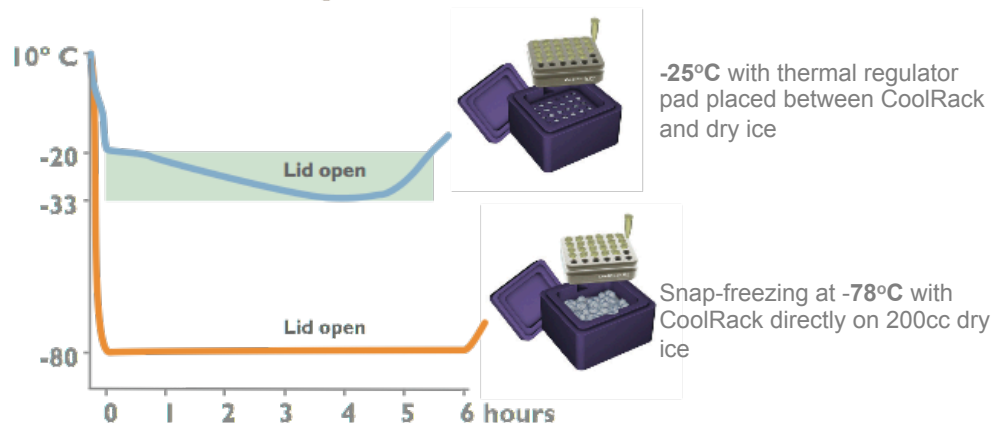


# CoolBox Performance

## CoolBox with Cool / Freeze Cartridges



## CoolBox with Dry Ice



NOTE: Performance may vary depending on ambient conditions, starting temperature and other specific set-up criteria. See instructions for complete information.

# CoolBox Advantage

| CoolBox  | Gel-Filled Container  |
|--|---|
| <b>Well-to-well Temperature Variance:</b><br>+/-0.1°C  | <b>Well-to-well Temperature Variance:</b><br>Up to 4°C                      |
| <b>Cooling Media:</b><br>LN2, Dry ice, Wet ice, Cartridge  | <b>Cooling Media:</b><br>Gel  |
| <b>Temperature range:</b><br>-150°C through +150°C   | <b>Temperature range:</b><br>Fixed at -20°C or 0°C                          |
| <b>Tube &amp; Plate Formats:</b><br>0.5ml conical, 1.5ml conical, 1.5-2.0ml cylindrical, 12.5mm dia cryos, mass spec tubes, PCR 96- and 384-well plates, 6-, 12-, 24-, 48-, 96-well plates | <b>Tube &amp; Plate Formats:</b><br>0.5ml conical, 1.5ml conical, PCR tubes |
| <b>Cooling Duration:</b><br>10h (2°C), 6h (-12°C), 5h (-25°C), 6h (-78°C)  | <b>Cooling Duration:</b><br>8h (0°C), 3h (-21°C)                            |
| <b>Down Time:</b><br>None – switch cartridge with another frozen one from the freezer or replenish dry ice, LN2  | <b>Down-Time:</b><br>4-6 hours to re-freeze gel-filled tube rack            |



CoolBox provides temperature uniformity and versatility



# Customer Feedback - CoolBox

## **Fraser Moss Ph.D. - Case Western Reserve University, Dept. of Physiology and Biophysics, President Scientist Solution**

BioCision has now eliminated the ice factor and have the CoolBox in which you can keep the 96 well CoolRack.....*I'm using it to keep my RNA cold for oocyte injections right now. I'll be using it to assemble my PCR reactions* in the not to distant future. This has been a great new little toy to have on the bench recently because our departmental ice machine broke in April and still is not fixed!

## **Laura Matthews - Sarah Cannon Research Institute (SCRI)**

I am writing regarding the demo CoolRack and CoolBox that we have been testing. They are both great products. The CoolRacks have eliminated the mess of mushy cardboard freezer boxes. The samples also freeze much faster in the CoolRacks. *The CoolBox was especially helpful in the transport of fresh biopsies on dry ice* from one location to another

# Standardizing Sample Handling

- Sample handling has become increasingly important
  - growing number of multi-site research projects/trials
  - increasing use of biomarkers and other temperature-sensitive specimens
- BioCision products address common and **often overlooked inconsistent procedures** in every laboratory
  - Non-standardized methods of cooling/freezing/thawing
- Consistency. Reproducibility. Standardization.
  - Test to test
  - Researcher to researcher
  - Lab to lab
  - Site to site





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