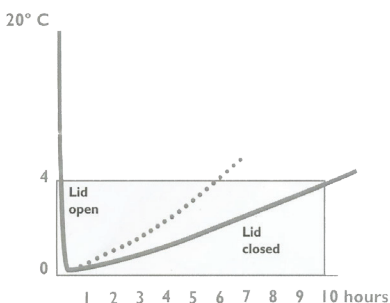
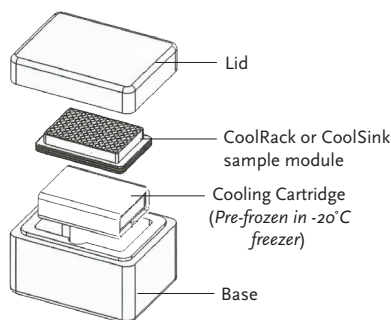


Overview of CoolBox MP System

CoolBox MP is a portable cooling system for use with CoolRack® and CoolSink® tube and plate modules. The design and thermal-conductivity of CoolRack and CoolSink modules provide samples with identical well to well temperatures throughout the cooling period regardless of sample position. Using the provided +2°C cartridge, the sample modules can be maintained at temperatures at or below 4°C for up to 10 hours under normal laboratory conditions.



Results may vary when room temperature exceeds 18-20°C



Temperature Range	Cooling Source	Cooling Duration Open Lid	Cooling Duration Closed Lid
0.5°C to 4°C	+2°C Cartridge - Blue	Over 4 hours	Over 10 hours
-78°C	200ml Dry Ice	Over 4 hours	Over 5 hours

Quick Start

- Place the blue +2°C cartridge in -20°C freezer for a minimum of 4 hours.
- Place frozen cartridge into the CoolBox MP base and place a CoolRack or CoolSink plate module on top of the cartridge.

Note: If CoolRack or CoolSink is already chilled, allow cartridge to rest on the bench until the frost begins to melt before placing CoolRack or CoolSink as this will prevent cooling below 0°C.

- Place lid on CoolBox MP whenever possible to enhance cooling duration.

Temperature Measurement

The CoolRack and CoolSink plate module design ensures that all well temperatures are identical ensuring sample temperature uniformity. Sample temperature can be measured indirectly by checking the module temperature with a surface contact probe thermometer or continuously monitored by placing a bead thermocouple in a representative sample tube containing water or mineral oil. The measuring tube may be placed in any location in the CoolRack module.

Care and Cleaning

CoolBox MP is constructed from high density closed cell polyethylene foam. CoolBox is compatible with prolonged cryogenic temperature exposure. The foam may be cleaned with water and mild soap. Rinse thoroughly. CoolBox is resistant to alcohols and 10% bleach solutions. Avoid abrasive or sharp objects. Do not use CoolBox for pulverizing dry ice. Do not autoclave. Maximum temperature exposure: 60°C. Avoid exposure to UV light sources. CoolBox MP is not recommended for shipping temperature-sensitive samples.

CoolRack and CoolSink Thermo-Conductive Sample Modules Compatible with CoolBox MP

Item	Description	Accommodates
BCS-125	CoolRack M15	15 x 1.5ml or 2ml microfuge tubes
BCS-127	CoolRack M15-PF	15 x 1.5ml conical microfuge tubes
BCS-535	CoolRack XT M24	24 x 1.5 or 2.0 mL microcentrifuge tubes, SBS-compliant
BCS-265	CoolRack SV10	12 x 10 mL injectable aseptic ampules
BCS-126	CoolRack CF15	15 x 1ml or 2ml cryovials
BCS-534	CoolRack XT CFT24	24 cryogenic vials, with “gripping” wells for one-hand vial open/close, SBS-compliant
BCS-529	CoolRack XT PCR96	PCR tubes, strips or 96-well plate
BCS-523	CoolRack XT M-PCR	12 x 1.5 or 2.0 mL microcentrifuge tubes and 6 PCR strip wells
BCS-538	CoolRack XT PCR384	one 384-well PCR plate, SBS-compliant
BCS-231	CoolRack 96x0.5ml	96 x 0.5ml 2D barcode tubes
BCS-149	CoolRack 96x1ml	96 x 1ml 2D barcode tubes
BCS-536	CoolSink XT 96F	one flat-bottom 96- or 384-well assay plate, SBS-compliant
BCS-537	CoolSink XT 96U	one u-bottom 96-well assay plate, SBS-compliant

CoolBox MP Dimensions:

Internal(with Cooling Cartridge loaded): 13.3 x 8.8 x 7.3 cm. (L x W x H) / 5.2 x 3.4 x 3 in. (L x W x H)

External: 20.3 x 15.25 x 15.25 cm. (L x W x H) / 8 x 6 x 6 in. (L x W x H)

⚠ CAUTION: *The products described here are intended for the exclusive use by trained and experienced laboratory and medical personnel. Use of dry ice can be dangerous. Direct skin contact with dry ice or metal components that have been in contact with dry ice can cause freezing injury. Always use appropriate protective equipment for eyes and skin when handling dry ice and cold metal components.*

Made in USA.



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CoolBox Instructions, January 2014

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