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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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CORNING

Corning® CoolBox® 2XT System

Instructions for Use

Overview of the Corning CoolBox 2XT System

The Corning CoolBox 2XT is designed for maintaining sample temperatures below 4°C on the benchtop without the use of wet ice or electricity. The proprietary dual-phase conductive Corning XT Cooling Core or Corning XT Freezing Core provides the cooling source when a thermo-conductive Corning CoolRack® or Corning CoolSink® tube or plate module is placed on top. The core and sample module in combination ensure uniform well-to-well temperature throughout the cooling period regardless of sample position. For a list of CoolRack and CoolSink modules that are compatible with the CoolBox 2XT System, see back.

| Temperature Range | Cooling Source | Duration* (Open Lid) | Duration* (Closed Lid) |
|-------------------|------------------|----------------------|------------------------|
| 0.5°C to 4°C | XT Cooling core | Over 10 hours | Over 16 hours |
| -20°C to 0°C | XT Freezing core | Over 5 hours | Over 8 hours |
| -78°C | 200 mL dry ice | Over 4 hours | Over 5 hours |

*All tests were performed using a Corning CoolRack XT M24 loaded with 24 2.0 mL microcentrifuge tubes filled with 1.5 mL water. Actual performance may vary depending upon the CoolRack module employed, sample load, initial sample temperature, ambient temperature, air currents, and other conditions.

Quick Start

- ▶ Remove two XT Cooling Cores from a -20°C freezer and place on bench.
- ▶ When temperature strip on the XT Cooling Core registers 1°C, place the CoolRack or CoolSink sample modules in the CoolBox 2XT base, and place the collar on top.
- ▶ Load samples in the CoolRack or CoolSink modules.

⚠ CAUTION

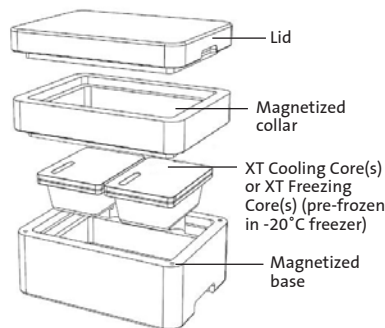
- ▶ Lift the CoolBox 2XT from the bottom using the handholds on the sides.
- ▶ Always use two hands when carrying or lifting the CoolBox 2XT.
- ▶ Avoid touching the top metal surface of the XT Cooling Core and XT Freezing Core when removing from the freezer.

IMPORTANT: To ensure optimal use, refer to the detailed instructions that follow.

Assembly of the Corning CoolBox 2XT System

The CoolBox 2XT system consists of a closed-cell, cross-linked polyethylene foam base, collar, lid, and two reusable XT Cooling Cores. It is meant to be used in conjunction with the CoolRack or CoolSink tube or plate modules. When placed on top of the XT Cooling or Freezing Core, the modules rapidly equilibrate to the temperature of the XT Core. To obtain the maximum cooling duration, we recommend using the collar and lid whenever possible.

1. Remove the frozen XT Cooling Cores from the freezer and place on the benchtop for approximately 10 to 15 minutes. When the temperature indicator displays 1°C, Cores are ready to use. **Note:** Frost will form on the core exterior upon removal from the freezer; when the frost liquefies, the core is at the proper temperature.
2. Place two frozen XT Cooling Cores into the base.
3. Fit the magnetized collar onto the base, seating it securely.
4. Place the CoolRack or CoolSink modules of choice onto the XT Cooling Cores.
5. Load samples.
6. Place the lid on the CoolBox 2XT when not processing samples to maximize cooling duration.



Using the Corning® XT Cooling Core

| Temperature Range | Cooling Source | Duration (Open Lid) | Duration (Closed Lid) |
|-------------------|-----------------|---------------------|-----------------------|
| 0.5°C to 4°C | XT Cooling Core | Over 10 hours | Over 16 hours |

Maintaining Samples at 0.5°C to 4°C

Freeze the XT Cooling Core in a -20°C freezer for at least 12 hours. The XT Cooling Core should be stored in a -20°C freezer when not in use so it is ready when needed. **Note:** Freezing the XT Cooling Core for less than the specified time will result in decreased cooling duration.

Using Room Temperature Corning CoolRack® or Corning CoolSink® Modules

- ▶ Remove two XT Cooling Cores from the freezer and place into the base.
- ▶ Fit the magnetized collar onto the base, seating it securely.
- ▶ Place the CoolRack or CoolSink modules directly onto the Cores and allow to equilibrate to 4°C (approximately 10 to 15 minutes).
- ▶ Load samples.
- ▶ Place the lid on the CoolBox™ 2XT when not processing samples to maximize the cooling duration.

Using Pre-chilled (1°C or less) CoolRack or CoolSink Modules

- ▶ Remove the XT Cooling Cores from the freezer and place on the benchtop for approximately 10 minutes. When the temperature indicator displays 1°C, the XT Cooling Cores are ready to use.
- ▶ **IMPORTANT:** Failure to allow the XT Cooling Cores to reach 1°C may result in undesired sample freezing.
- ▶ Place the XT Cooling Cores into the base.
- ▶ Fit the magnetized collar onto the base, seating it securely.
- ▶ Place the CoolRack or CoolSink modules of choice onto the Core. No equilibration time is needed.
- ▶ Load samples.
- ▶ Place the lid on the CoolBox 2XT when not processing samples to maximize cooling duration.

Using the Corning XT Freezing Core

| Temperature Range | Cooling Source | Freezer | Duration (Open Lid) | Duration (Closed Lid) |
|-------------------|------------------|---------|---------------------|-----------------------|
| -20°C to 0°C | XT Freezing Core | -20°C | Over 5 hours | Over 8 hours |
| -20°C to 0°C | XT Freezing Core | -80°C | Over 8 hours | Over 12 hours |

Maintaining Samples at -20°C to 0°C

Freeze the XT Freezing Core in a -20°C freezer for a minimum of 12 hours, or for a faster start, freeze in a -80°C freezer for a minimum of 6 hours. Freezing in a -80°C freezer also prolongs the cooling duration. The XT Freezing Core should be stored in a -20°C or -80°C freezer when not in use so it is ready when needed. **Note:** Freezing the XT Freezing Core for less than the specified time will result in decreased cooling duration.

Using Room Temperature CoolRack or CoolSink Modules

- ▶ Remove the XT Freezing Core from the freezer and place into the base.
- ▶ Fit the magnetized collar onto the base, seating it securely.
- ▶ Place the room temperature CoolRack or CoolSink modules of choice onto the Core and allow to equilibrate to 0°C (approximately 10 minutes).
- ▶ Load the samples.
- ▶ Place the lid on the CoolBox 2XT when not processing samples to maximize cooling duration.

Using Pre-chilled (1°C or less) Corning® CoolRack® or Corning CoolSink® Modules

- ▶ Remove the Corning XT Freezing Core from the freezer and place into the base.
- ▶ Fit the magnetized collar onto the base, seating it securely.
- ▶ Place the CoolRack or CoolSink modules of choice onto the Core.
- ▶ Load samples.
- ▶ Place the lid on the Corning CoolBox™ 2XT when not processing samples to maximize the cooling duration.

Using Dry Ice as a Cooling Source

| Temperature Range | Cooling Source | Duration (Open Lid) | Duration (Closed Lid) |
|-------------------|----------------|---------------------|-----------------------|
| -78°C | 200 mL dry ice | Over 4 hours | Over 5 hours |

Maintaining or Snap Freezing Samples at -78°C

- ▶ Remove the XT Cooling or Freezing Core from the CoolBox 2XT base.
- ▶ Fill the base with approximately 200 mL of pulverized dry ice.
- ▶ Fit the magnetized collar onto the base, seating it securely.
- ▶ Place the CoolRack or CoolSink modules directly onto the dry ice and allow the modules to equilibrate to dry ice temperature -78°C (approximately 7 to 8 minutes).
- ▶ Load samples.
- ▶ If snap freezing, freezing will occur in 7 to 10 minutes depending upon sample volume and type.

Note: The thermo-conductive design of the CoolRack and CoolSink modules ensures uniform well-to-well temperature regardless of the consistency of the dry ice.

Care and Cleaning

The CoolBox 2XT housing is constructed from a cross-linked, closed-cell polyethylene foam. The material has excellent resistance to fluid absorption and abrasion. Do not use the CoolBox 2XT base for pulverizing dry ice. Maximum temperature exposure is 60°C. Avoid prolonged exposure to ultraviolet (UV) light sources.

All components including the housing, the XT Cooling Core, and the optional XT Freezing Core are compatible with repeated and prolonged ultra-low temperature exposure. All components can be cleaned with aqueous detergents, alcohol, 10% bleach, and acid/base viricide (such as Virkon S) solutions. Rinse with clear water after using cleaning solutions. Do not autoclave components of the CoolBox 2XT system. The CoolRack and CoolSink sample modules may be autoclaved or cleaned with alcohol.

Dimensions (L x W x H)

Interior (with XT Cooling Core in base): 8.3 x 5.6 x 5.3 in./21.0 x 14.3 x 13.4 cm

Exterior: 10.4 x 7.9 x 6.3 in./26.5 x 20.0 x 15.0 cm

⚠ 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.

Ordering Information

Corning® CoolRack® and Corning CoolSink® Thermo-conductive Sample Modules Compatible with the Corning CoolBox™ 2XT

| Cat. No. | Description | Qty | Accommodates |
|----------|------------------------|-----|--|
| 432034 | CoolRack M6, gray | 8 | 6 x 1.5 mL or 2.0 mL microcentrifuge tubes |
| 432035 | CoolRack M6, green | 8 | 6 x 1.5 mL or 2.0 mL microcentrifuge tubes |
| 432036 | CoolRack M6, orange | 8 | 6 x 1.5 mL or 2.0 mL microcentrifuge tubes |
| 432037 | CoolRack M15, gray | 4 | 15 x 1.5 mL or 2.0 mL microcentrifuge tubes |
| 432038 | CoolRack M15, green | 4 | 15 x 1.5 mL or 2.0 mL microcentrifuge tubes |
| 432039 | CoolRack M15, orange | 4 | 15 x 1.5 mL or 2.0 mL microcentrifuge tubes |
| 432040 | CoolRack XT M24 | 2 | 24 x 1.5 mL or 2.0 mL microcentrifuge tubes |
| 432041 | CoolRack M30, gray | 2 | 30 x 1.5 mL or 2.0 mL microcentrifuge tubes |
| 432042 | CoolRack M30, green | 2 | 30 x 1.5 mL or 2.0 mL microcentrifuge tubes |
| 432043 | CoolRack M30, orange | 2 | 30 x 1.5 mL or 2.0 mL microcentrifuge tubes |
| 432046 | CoolRack M30-PF 500 µL | 2 | 30 x 0.5 mL conical microcentrifuge tubes |
| 432047 | CoolRack M15-PF | 4 | 15 x 1.5 mL conical microcentrifuge tubes |
| 432048 | CoolRack M30-PF | 2 | 30 x 1.5 mL conical microcentrifuge tubes |
| 432049 | CoolRack CF15 | 4 | 15 cryogenic vials or FACS tubes |
| 432050 | CoolRack XT CFT24 | 2 | 24 cryogenic vials or FACS tubes |
| 432051 | CoolRack CF45 | 1 | 45 cryogenic vials or FACS tubes |
| 432052 | CoolRack CFT30 | 2 | 30 cryogenic vials or FACS tubes with "gripping" wells |
| 432053 | CoolRack XT PCR96 | 2 | 12 x 96-well PCR microplates, PCR 12-strip tubes, or 10 centrifuge tubes |
| 432054 | CoolRack XT M-PCR | 2 | 12 x 1.5 or 2 mL microcentrifuge tubes or PCR 6-strip tubes |
| 432055 | CoolRack XT PCR384 | 2 | 384-well PCR microplate |
| 432056 | CoolRack 96 x 0.5 mL | 2 | 96 x 0.5 mL 2D bar code tubes |
| 432057 | CoolRack 96 x 1 mL | 2 | 96 x 1.4 mL 2D bar code tubes |
| 432058 | CoolRack SV2 | 2 | 12 x 5 mL sample vials |

Warranty/Disclaimer: Unless otherwise specified, all products are for research use only. Not intended for use in diagnostic or therapeutic procedures. Corning Life Sciences makes no claims regarding the performance of these products for clinical or diagnostic applications.

For additional product or technical information, visit www.corning.com/lifesciences or call 800.492.1110. Outside the United States, call +1.978.442.2200 or contact your local Corning sales office.

| Cat. No. | Description | Qty | Accommodates |
|----------|--------------------|-----|---|
| 432059 | CoolRack SV10 | 2 | 12 x 10 mL sample vials |
| 432060 | CoolRack XT 5 mL | 2 | 12 x 5.0 mL microcentrifuge tubes |
| 432061* | CoolRack 15 mL | 2 | 9 x 15 mL centrifuge tubes |
| 432062* | CoolRack 50 mL | 2 | 4 x 50 mL centrifuge tubes |
| 432063** | CoolRack 250 mL-PF | 2 | 1 x Corning 250 mL centrifuge tube (Cat. No. 430776) |
| 432064* | CoolRack 250 mL-B | 2 | 1 x Corning 250 mL Easy Grip storage bottle (Cat. No. 430281) |
| 432065* | CoolRack VS13 | 2 | 9 x 13 x 75 mm blood tubes |
| 432066* | CoolRack V16 | 2 | 9 x 16 x 100 mm blood tubes |
| 432067* | CoolRack V13 | 2 | 9 x 13 x 100 mm blood tubes or 5 mL cryogenic vials |
| 432068* | CoolRack L | 2 | 12 x 15 mL centrifuge tubes, insulated, lightweight |
| 432069* | CoolRack LV | 2 | 12 x 13 mm or 16 mm tubes, insulated, lightweight |
| 432070 | CoolSink XT 96F | 2 | 1 x 6-, 12-, 24-, 48-, 96-, or 384-well flat-bottom plate |
| 432071 | CoolSink XT 96U | 2 | 1 x 96-well U-bottom microplate |
| 432072 | CoolSink LX55 | 2 | 1 x 55 mL reagent reservoir |

Corning CoolBox 2XT Cooling and Freezing Cores

| | | | |
|--------|------------------|---|---|
| 432081 | XT cooling core | 2 | – |
| 432082 | XT freezing core | 2 | – |

Corning CoolBox 2XT Extension Collars

| | | | |
|--------|---|---|---|
| 432087 | Extension collar, for CoolBox 2XT, purple | 1 | – |
| 432088 | Extension collar, for CoolBox 2XT, green | 1 | – |
| 432089 | Extension collar, for CoolBox 2XT, orange | 1 | – |
| 432090 | Extension collar, for CoolBox 2XT, pink | 1 | – |

* Requires CoolBox 2XT Extension Collar (Cat. Nos. 432087, 432088, 432089, or 432090) for lid closure.

** Lid closure is not possible even with the addition of an extension collar.

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