



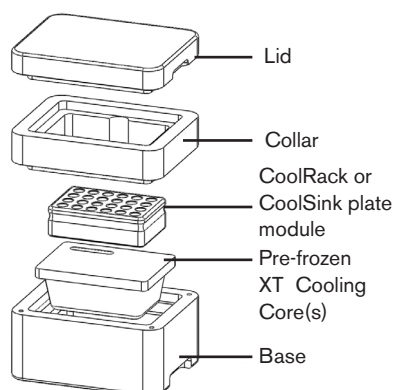
CoolBox™ – Ice-Free Cooling and Freezing

CoolBox®. ice-free systems are bench top cooling workstations that provide sample cooling or freezing without ice, electricity or batteries. CoolBox systems are versatile and accommodate a variety of sample formats and temperatures. The modular design enables the use of CoolRack® and CoolSink® thermo-conductive sample modules to hold microfuge tubes, cryogenic vials, PCR tubes or plates, assay plates and more.



HOW IT WORKS:

- ✓ Freeze the XT Cooling Core in -20°C freezer
- ✓ Place frozen core in base
- ✓ Rest CoolRack or CoolSink module on core
- ✓ Module will equilibrate and maintain temperature via thermo-conductivity



HOW TO CENTRIFUGE A COOLBOX ICE-FREE SYSTEM:

1. Identify Tube or Plate

2. Choose CoolRack® or CoolSink® Module

3. Choose CoolBox®. capacity and color

Example 1

up to 24 microcentrifuge tubes



CoolRack® XT M24



CoolBox® XT

Example 2

up to 48 microcentrifuge tubes



2 x CoolRack® XT M24



CoolBox® 2 XT

Example 3

24 microcentrifuge tubes and one PCR plate, 12 PCR strips, or 0.2 mL PCR tubes



CoolRack® XT M24 + CoolRack® XT PCR96



CoolBox® 2 XT

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CHOOSE YOUR COOLRACK MODULE



Microfuge tube modules: CoolRack M

For Use with	Wells	Well Shape	Dimensions (L x W x H)	Well Dia.	Well Depth	Description	Item No				
1.5mL or 2.0mL tubes	6	Cylindrical	6.0 x 4.3 x 3.8cm	11.1mm	32.7mm	CoolRack M6	BCS-163	1	1	up to 8	up to 2
1.5mL or 2.0mL tubes	15	Cylindrical	10.2 x 6.4 x 3.8cm	11.1mm	32.7mm	CoolRack M15	BCS-125	1	1	up to 4	1
1.5mL centrifuge tubes	15	Coniccal	10.2 x 6.4 x 3.8cm	11.1mm	35.3mm	CoolRack M15PF	BCS-127	1	1	up to 4	1
1.5mL or 2.0mL tubes	24	Cylindrical	12.8 x 8.5 x 3.8cm	11.1mm	32.7mm	CoolRack XT24*	BCS-535	1	1	up to 2	-
5mL centrifuge tubes	12	Coniccal	12.7 x 8.6 x 5.0cm	11.1mm	48.7mm	CoolRack XT 5mL*	BCS-539	1	1	up to 2	-
1.5mL or 2.0mL tubes	30	Cylindrical	12.0 x 10.2 x 3.8cm	11.1mm	32.7mm	CoolRack M30	BCS-108	1	-	up to 2	1
1.5mL conical tubes	30	Coniccal	12.0 x 10.2 x 3.8cm	11.1mm	35.3mm	CoolRack M30PF	BCS-128	1	-	up to 2	1
500uL conical tubes	30	Coniccal	12.0 x 10.2 x 3.8cm	11.1mm	35.3mm	CoolRack M30PF 500ul	BCS-137	1	-	up to 2	1

Cryogenic vial and FACS tube modules: CoolRack CF

For Use with	Wells	Well Shape	Dimensions (L x W x H)	Well Dia.	Well Depth	Description	Item No				
Cryogenic vials and FACS tubes	15	Cylindrical	10.4 x 6.4 x 3.8cm	12.7mm	32.7mm	CoolRack CF15	BCS-126	1	1	up to 4	1
Cryogenic vials and FACS tubes	24	Cylindrical	12.8 x 8.5 x 3.8cm	12.7mm	32.7mm	CoolRack CFT24*	BCS-534	1	1	up to 2	-
Cryogenic vials and FACS tubes	30	Coniccal	12.0 x 10.2 x 3.8cm	12.7mm	32.7mm	CoolRack CFT30	BCS-138	1	-	up to 2	1
Cryogenic vials and FACS tubes	45	Cylindrical	17.3 x 9.7 x 3.8cm	12.7mm	32.7mm	CoolRack CFT45	BCS-105	-	-	1	-

PCR plate, stripwell or tube modules: CoolRack PCR

For Use with	Wells	Well Shape	Dimensions (L x W x H)	Well Dia.	Well Depth	Description	Item No				
One 96 well PCR plate, strip wells, 0.2mL tubes	96	Tapered	12.7 x 8.6 x 2.5cm	-	13.2mm	CoolRack XT PCT96*	BCS-529	1	1	up to 2	-
6 strip wells and 12 x 1.5 or 2.0mL microfuge tubes	48 (PCR) 12(M)	Tapered(PCR) Cylindrical(M)	12.7 x 8.6 x 3.8cm	11.1mm	13.2mm 32.7mm	CoolRack XT M-PCR*	BCS-523	1	1	up to 2	-
One 384 well PCR plate	384	Tapered	12.7 x 8.6 x 1.9cm	-	7.5mm	CoolRack XT PCR384*	BCS-538	1	1	up to 2	-

2D barcode storage tube modules: CoolRack 96

For Use with	Wells	Well Shape	Dimensions (L x W x H)	Well Dia.	Well Depth	Description	Item No				
0.5mL 2D storage tubes	96	Cylindrical	13.1 x 8.9 x 3.6cm	8.4mm	24.6mm	CoolRack 96x 0.5mL	BCS-231	1	1	up to 2	-
1.4mL 2D storage tubes	96	Cylindrical	13.2 x 8.9 x 3.6cm	8.3mm	32.7mm	CoolRack 96x 1mL	BCS-149	1	1	up to 2	-

Cell therapy injectable ampule modules: CoolRack SV

For Use with	Wells	Well Shape	Dimensions (L x W x H)	Well Dia.	Well Depth	Description	Item No				
2.0mL injectable cell therapy ampules	12	Cylindrical	12.7 x 8.6 x 3.8cm	16.0mm	24.0mm	CoolRack SV2	BCS-266	1	1	up to 2	-
2.0mL injectable cell therapy ampules	12	Cylindrical	12.7 x 8.6 x 3.8cm	23.6mm	27.9mm	CoolRack SV10	BCS-265	1	1	up to 2	-

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CHOOSE YOUR COOLRACK MODULE (CONT'D)

Tall tube modules: CoolRack 15mL, CoolRack 50mL, CoolRack 250mL

For Use with	Wells	Well Shape	Dimensions (L x W x H)	Well Dia.	Well Depth	Description	Item No				
15mL centrifuge tubes	12	Cylindrical	13.7 x 9.5 x 11.8cm	17.5mm	105.4mm	CoolRack L***	BCS-232	1	1"	up to 2"	-
15mL centrifuge tubes	9	Cylindrical	8.9 x 8.9 x 10.7cm	17.1mm	107.7mm	CoolRack 15mL	BCS-153	1	1"	up to 2"	-
50mL centrifuge tubes	4	Cylindrical	8.9 x 8.9 x 10.7cm	29.6mm	101.8mm	CoolRack 50mL	BCS-154	1	1"	up to 2"	-
250mL centrifuge tubes	1	Conical	8.9 x 8.9 x 14.0cm	60.4mm	133.3mm	CoolRack 250mL-PF	BCS-532	1	1**	up to 2**	-
250mL centrifuge tubes	1	Cylindrical	8.9 x 8.9 x 7.2cm	73.6mm	66.0mm	N/A	BCS-533	1	1	up to 2	-

Blood Collection tube modules: CoolRack V

For Use with	Wells	Well Shape	Dimensions (L x W x H)	Well Dia.	Well Depth	Description	Item No				
13mm or 16mm blood tubes	12	Cylindrical	13.7 x 9.5 x 9.6cm	16.6mm	83.3mm	CoolRack LV***	BCS-235	1	1	up to 2"	-
13 x 75mm blood tubes	9	Cylindrical	8.9 x 8.9 x 6.1cm	13.0mm	61.0mm	CoolRack VS13	BCS-157	1	1"	up to 2"	-
13 x 100mm blood tubes or 5mL cryogenic vials	9	Cylindrical	8.9 x 8.9 x 8.4cm	13.0mm	83.8mm	CoolRack V13	BCS-155	1	1"	up to 2"	-
16 x 100mm blood tubes	9	Cylindrical	8.9 x 8.9 x 8.4cm	16.0mm	83.8mm	CoolRack V16	BCS-156	1	1"	up to 2"	-

* SBS compatible O 'gripping' wells for one hand vial opening/closing ***Thermo conductive base and insulative exterior

* requires extension collar accessory for closed lid cooling
** lid closure not possible even with the addition of extension collar

CHOOSE YOUR COOLBOX SYSTEM



XT Starter



CoolBox XT and 2XT



CoolBox 30

Holds tubes	Yes	Yes	Yes
Holds Plates	Yes	Yes	n/a
0.5°C - 4°C cooling with lid open	4 hours	10 hours	4 hours
0.5°C - 4°C cooling with lid closed	n/a	16 hours	10 hours
<0°C freezing with lid open	n/a	5 hours	3 hours
<0°C freezing with lid closed	n/a	8 hours	6 hours

XT Starter

An open-platform ice-free cooler that accommodates most CoolRack® and CoolSink® modules. Low profile and small footprint make it ideal for use in the hood, keeping samples cold (0.5° to 4.0°C) up to four hours. 1°C to 8°C temperature indicator provides visual assurance of temperature performance. To extend the cooling duration, keep an additional XT Cooling Core in the freezer and rotate the Cores as needed.



Item No	Description	Dimensions
BCS-504	XT Starter complete, purple	External 16.2 x 12.1 x 6.1
BCS-513	XT Starter holder only, purple	
BCS-515	XT cooling core only	

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COOLBOX XT OR COOLBOX 2XT SYSTEM

Keep sample tubes or plates cold for over 16 hours with the lid on, and over 10 hours with the lid off. Use optional XT Freezing Core to maintain frozen samples for over 8 hours. Dry ice may be used in place of the cores to create a compact snap freezing workstation.



CoolBox- XT System

Includes: CoolBox XT base, collar, lid and (1) XT Cooling Core for 0.5° to 4°C cooling.

Item No	Description	Dimensions
BCS-502	CoolBox XT, purple	Internal 14.0 x 9.4 x 9.9cm*
BCS-502G	CoolBox XT, green	External 20.0 x 16.0 x 15.0cm
BCS-502O	CoolBox XT, orange	
BCS-502PK	CoolBox XT, pink	

* Internal height of open space when core is in the base.



CoolBox- 2XT System

Includes: CoolBox 2XT base, collar, lid and (2) XT Cooling Core for 0.5° to 4°C cooling.

Item No	Description	Dimensions
BCS-503	CoolBox 2XT, purple	Internal 21.0 x 14.3 x 13.4cm*
BCS-503G	CoolBox 2XT, green	External 26.5 x 20.0 x 15.0cm
BCS-503O	CoolBox 2XT, orange	
BCS-503PK	CoolBox 2XT, pink	

* Internal height of open space when core is in the base.

OPTIONAL ACCESSORIES



XT and 2XT Extension Collar

For use with CoolBox XT and CoolBox 2XT systems to accommodate tall tube modules. The collar is magnetized and easily adheres to the unit base.

Item No	Description	Dimensions
BCS-502-C	XT extension collar, purple	Internal 14.0 x 9.4 x 7.0cm
BCS-502-CG	XT extension collar, green	External 20.0 x 16.0 x 7.0cm
BCS-502-CO	XT extension collar, orange	
BCS-502-CPK	XT extension collar, pink	
BCS-503-C	2XT extension collar, purple	Internal 21.0 x 14.3 x 7.0cm
BCS-503-CG	2XT extension collar, green	External 26.5 x 20.0 x 7.0cm
BCS-503-CO	2XT extension collar, orange	
BCS-503-CPK	2XT extension collar, pink	



XT Cores

Keep additional cooling or freezing cores in the freezer for flexibility and extended duration. XT Cooling Core features a 1 to 8°C temperature indicator. Both cooling and freezing cores feature a thermo-conductive surface for uniform temperature distribution.

Item No	Description
BCS-511	XT Cooling Core 0.5° to 4°C
BCS-512	XT Freezing Core below 0°C

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COOLBOX 30 SYSTEM

Keeps tubes cold (0.5° to 4.0°C) for up to 10 hours. Use the optional freezing cartridge to maintain frozen samples below 0°C for up to 6 hours



CoolBox 30 System

Includes: CoolBox 30 base and lid, blue cooling cartridge



CoolBox 30 Cartridges

Item No	Description	Dimensions
BCS-130	CoolBox 30, purple	Internal 12.0 x 10.4 x 7.9cm
BCS-502G	CoolBox XT, green	External 16.5 x 15.25 x 12.7cm

* Internal height of open space when core is in the base.

Item No	Description
BCS-132	Cooling cartridge blue, pack of 3
BCS-131	Cooling cartridge green, pack of 3

POPULAR PRE-ASSEMBLED CONFIGURATIONS



XT Starter PCR Cooling Systems, pre- assembled

Application	For Use With	Includes	Description	Item No	Colour
PCR/qPCR plate and reagent tube preparation	One 96-well PCR plate, 12 strip-wells or 96 0.2 mL tubes	1 x XT Starter 1 x CoolRack XT PCR96	XT Starter PCR96 System	BCS-556	Purple
PCR/qPCR strip well and reagent tube preparation	12 x 1.5 mL or 2.0 mL microfuge tubes and 6 rows of PCR stripwells	1 x XT Starter 1 x CoolRack XT M-PCR	XT Starter M-PCR System	BCS-557	Purple

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POPULAR PRE-ASSEMBLED CONFIGURATIONS



CoolBox XT and CoolBox 2XT Systems, pre- assembled

Application	For Use With	Includes	Desription	Item No	Colour
Enzyme, PCR reagent or other biological specimen cooling	24 x 1.5 mL or 2.0 mL microfuge tubes	1 x CoolBox XT System 1 x SBS-compatible CoolRack XT M24	CoolBox XT MicroTube 24 System	BCS-576	Green
Cell thawing, tissue culture	24 x 1.0 mL or 2.0 mL cryogenic vials with "gripping" wells for one-hand tube opening/closing	1 x CoolBox XT System 1 x SBS-compatible CoolRack XT CFT24	CoolBox XT CryoTube 24 System	BCS-575	Green
PCR/qPCR plate preparation	One 96-well PCR plate, 12 strip wells or 96 0.2 mL tubes	1 x CoolBox XT System 1 x SBS-compatible CoolRack XT PCR96	CoolBox XT PCR96 System	BCS-570	Green
PCR/qPCR strip well and reagent tube preparation	6 strip wells and 12 microfuge tubes (1.5 to 2.0 mL)	1 x CoolBox XT System 1 x SBS-compatible CoolRack XT M-PCR	CoolBox XT PCR Strip System	BCS-572	Green
PCR/qPCR plate and reagent tube preparation	One 96-well PCR plate 12, strip wells 96 0.2 mL tubes and 24 x 1.5 mL or 2.0 mL microfuge tubes	1 x CoolBox 2XT System 1 x SBS-compatible CoolRack XT M24 1 x CoolRack PCR96	CoolBox 2XT PCR Sample Preparation System	BCS-573	Green



CoolBox 30 Systems, pre- assembled

Application	For Use With	Includes	Desription	Item No	Colour
Enzyme, PCR reagent or other biological specimen cooling	30 x 1.5 mL or 2.0 mL microfuge tubes	1 x CoolBox 30 System	CoolBox M30 System	BCS-133	Purple
Cell preparation or thawing, tissue culture	30 x 1.0 mL or 2.0 mL cryogenic vials, with "gripping" wells for one-hand vial opening and closing	1 x CoolBox 30 System 1 x CoolRack CFT30	CoolBox CFT30 System	BCS-166	Purple

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