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.



• Module will equilibrate and maintain temperature via thermo-conductivity

How to Configure a CoolBox[™] Ice-free System

	1. Identify Tube or Plate	2. Choose CoolRack [®] or CoolSink [®] Module	3. Choose CoolBox™ capacity and color
Example	up to 24 microcentrifuge tubes	CoolRack [®] XT M24	CoolBox™ XT
Example 2	up to 48 microcentrifuge tubes	2 x CoolRack [®] XT M24	CoolBox [™] 2XT
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 [™] 2XT

Choose Your CoolRack® Module

			(Manager and State)					XT Starter	CoolBox XT	CoolBox 2XT	CoolBox 30
	Service of the					Contract: your			I MILINI MI	Armanit's	(SECON
Collace Collace Made		and Condinan City		Contrack' SVs	Coeffect' Sylo			- Press			
Microfuge tube modu	les: Co	olRack [®] M					Open Closed	4 hr	10 hr 16 hr	10 hr 16 hr	4 hr 10 hr
For Use With		Well Shape	Dimensions (L x W x H)	Well Dia.	Well Depth	Description	Item No.			pacity	10 11
1.5 mL or 2.0 mL tubes	6	Cylindrical	6.0 x 4.3 x 3.8 cm	·····	32.7 mm	CoolRack M6	BCS-163	1	up to 3	up to 8	up to 2
1.5 mL or 2.0 mL tubes	15	Cylindrical	10.2 x 6.4 x 3.8 cm	11.1 mm	32.7 mm	CoolRack M15	BCS-125	1	1	up to 4	1
1.5 mL conical tubes	15	Conical	10.2 x 6.4 x 3.8 cm	11.1 mm	35.3 mm	CoolRack M15-PF	BCS-127	1	1	up to 4	1
1.5 mL or 2.0 mL tubes	24	Cylindrical	12.8 x 8.5 x 3.8 cm	11.1 mm	32.7 mm	CoolRack XT M24*	BCS-535	1	1	up to 2	
5.0 mL centrifuge tubes	12	Conical	12.7 x 8.6 x 5.0 cm	16.5 mm	48.7 mm	CoolRack XT 5ml*	BCS-539	1	1	up to 2	
1.5 mL or 2.0 mL tubes	30	Cylindrical	12.0 x 10.2 x 3.8 cm		32.7 mm	CoolRack M30	BCS-108	1		up to 2	1
1.5 mL conical tubes	30	Conical	12.0 x 10.2 x 3.8 cm	11.1 mm		CoolRack M30-PF	BCS-128	1		up to 2	1
500 uL conical tubes	30	Conical	12.0 x 10.2 x 3.8 cm	11.1 mm	35.3 mm	CoolRack M30-PF 500ul	BCS-137	. 1		up to 2	1
Cryogenic vial and FA	CS tub	e modules:	CoolRack [®] CF								
For Use With	Wells	Well Shape	Dimensions (L x W x H)	Well Dia.	Well Depth	Description	Item No.				
cryogenic vials or FACS tubes	15	Cylindrical	10.2 x 6.4 x 3.8 cm	12.7 mm	32.7 mm	CoolRack CF15	BCS-126	1	1	up to 4	1
cryogenic vials or FACS tubes	24	Cylindrical	12.8 x 8.5 x 3.8 cm	12.7 mm	32.7 mm	CoolRack XT CFT24*	BCS-534	1	1	up to 2	
cryogenic vials or FACS tubes	30	Cylindrical	12.0 x 10.2 x 3.8 cm	12.7 mm	32.7 mm	CoolRack CFT30 ⁺	BCS-138	1		1	1
cryogenic vials or FACS tubes	45	Cylindrical	17.3 x 9.7 x 3.8 cm	12.7 mm	32.7 mm	CoolRack CF45	BCS-105			1	
PCR plate, strip well o	or tubo	modulos: C	oolPack [®] DCP								
For Use With			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 2.5 cm	- -	13.2 mm	CoolRack XT PCR96*	BCS-529	1	1	up to 2	
6 strip wells and	∠A8(PCR)	Tapered (PCR)	12.7 x 8.6 x 3.8 cm	-	13.2 mm	CoolRack XT M-PCR*	BCS-523	1	1	up to 2	
12 x 1.5 or 2.0 mL microfuge tubes	12(M)	Cylindrical _(M)	,	11.1 mm	32.7 mm		,,				
One 384-well PCR plate	384	Tapered	12.7 x 8.6 x 1.9 cm	-	7.6 mm	CoolRack XT PCR384*	BCS-538	1	1	up to 2	
				<u>.</u>			1				
2D barcode storage tu						Development	1 N				
For Use With 0.5 mL 2D storage	Wells 96		Dimensions (L x W x H) 13.1 x 8.9 x 3.6 cm		24.6 mm	Description CoolRack 96x0.5ml	Item No. BCS-231			up to a	
tubes	90	Cymruncar	13.1 x 0.9 x 3.0 Cm	0.4 mm	24.0 mm	COOTRACK 90x0.5mi	DC3-231	1		up to 2	
1.4 mL 2D storage tubes	96	Cylindrical	13.2 x 8.9 x 4.3 cm	11.1 mm	32.7 mm	CoolRack 96x1ml	BCS-149	1	ı	up to 2	
Cell therapy injectable		ا - ام میں مل	CoolPool [®] SV								
For Use With		Well Shape	Dimensions (L x W x H)		Well Denth	Description	Item No.				
2.0 mL injectable cell	12	Cylindrical	12.7 x 8.6 x 3.8 cm		24.0 mm	CoolRack SV2	BCS-266	1	1	up to 2	
therapy ampules	12	Cymnuncar	12.7 x 0.0 x 3.0 cm	10.0 11111	24.0 11111	COOINACK 5V2	DC3-200	1		up 10 2	-
10.0 mL injectable cell therapy ampules	12	Cylindrical	12.7 x 8.6 x 3.8 cm	23.6 mm	27.9 mm	CoolRack SV10	BCS-265	1	1	up to 2	
		® 1 ~ 1		÷			i	•			
Tall tube modules: Co For Use With	olRack Wells	Well Shape	Rack [®] 50ml, CoolRack [®] Dimensions (L x W x H)	-	Well Depth	Description	Item No.				
15 mL centrifuge tubes	12	Cylindrical	13.7 x 9.5 x 11.8 cm	17.5 mm	105.4 mm	CoolRack L⊵	BCS-232	1	1*	up to 2"	
15 mL centrifuge tubes	9	Cylindrical	8.9 x 8.9 x 10.7 cm	17.1 mm	106.7 mm	CoolRack 15ml	BCS-153	1	1*	up to 2"	
50 mL centrifuge tubes	4	Cylindrical	8.9 x 8.9 x 10.7 cm	29.5 mm	101.6 mm	CoolRack 50ml	BCS-154	1	1"	up to 2"	
250 mL centrifuge tube	1	Conical	8.9 x 8.9 x 14.0 cm		133.3 mm	CoolRack 250ml-PF	BCS-532	1	1*	up to 2"	
		. <u>1</u>	<u>.</u>			1	,,,-				
Blood collection tube For Use With		es: CoolRac Well Shape	k [®] V Dimensions (L x W x H)	Well Dia.	Well Depth	Description	Item No.				
13 mm or 16 mm blood tubes	12	Cylindrical	13.7 x 9.5 x 9.6 cm	16.6 mm	83.3 mm	CoolRack LV⊵	BCS-235	1	1"	up to 2"	
13x75 mm blood tubes	9	Cylindrical	8.9 x 8.9 x 6.1 cm	13.0 mm	61.0 mm	CoolRack VS13	BCS-157	1	1"	up to 2"	
13x100 mm blood	9	. <u>.</u>	8.9 x 8.9 x 8.4 cm		83.8 mm	CoolRack V13	BCS-155	1	1*	up to 2"	
tubes or 5 mL cryogenic vials	,	,	у - у - т - · · ·	<i>.</i>			J				
16x100 mm blood tubes	9	Cylindrical	8.9 x 8.9 x 8.4 cm	16.0 mm	83.8 mm	CoolRack V16	BCS-156	1	1"	up to 2"	
*****			······				<u>.</u>	• D • • • •			

*SBS-compatible * "gripping" wells for one-hand vial opening/closing > Thermo-conductive base and insulative exterior

 Requires extension collar accessory for closed lid cooling

For a complete list of CoolRack modules, please visit www.biocision.com

Choose Your CoolBox[™] System

	At Spring		Contraction of the second	
	XT Starter	CoolBox XT & 2XT	CoolBox 30	
Holds Tubes	•	•	•	
Holds Plates	•	•	n/a	
0.5° - 4°C cooling with lid open	4 hours	10 hours	4 hours	
0.5° - 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 (L x W x H)
BCS-504 •	XT Starter, complete, purple	External: 16.2 x 12.1 x 6.1 cm
BCS-513 •	XT Starter Holder only, purple	
BCS-511 X	T Cooling Core only	

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 $4^\circ C$ cooling.

Item No.	Description	Dimensions (L x W x H)
BCS-502	 CoolBox XT, purple 	Internal: 14.0 x 9.4 x 9.9 cm*
BCS-502G	 CoolBox XT, green 	External: 20.0 x 16.0 x 15.0 cm
BCS-502O	 CoolBox XT, orange 	
BCS-502PK	 CoolBox XT, pink 	
*Internal height	t of open space when core is in the	e base.



CoolBox[™] 2XT System

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

Item No.	Description	Dimensions (L x W x H)
BCS-503	 CoolBox 2XT, purple 	Internal: 21.0 x 14.3 x 13.4 cm*
BCS-503G	 CoolBox 2XT, green 	External: 26.5 x 20.0 x 15.0 cm
BCS-503O	 CoolBox 2XT, orange 	
BCS-503PK	 CoolBox 2XT, pink 	
*Internal height	t of onen snace when core is in the	hase

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

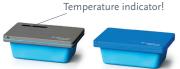


XT and 2XT Extension Collar

Optional Accessories

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 (L x W x H):
BCS-502-C	 XT Extension Collar, purple 	Internal: 14.0 x 9.4 x 7.0 cm
BCS-502-CG	 XT Extension Collar, green 	External: 20.0 x 16.0 x 7.0 cm
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 7.0 cm
BCS-503-CG	• 2XT Extension Collar, green	External: 26.5 x 20.0 x 7.0 cm
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
	XT Cooling Core, 0.5° to 4°C
BCS-512	XT Freezing Core, below 0°C

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.

Item No.	Description	Dimensions (L x W x H)
BCS-130	 CoolBox 30, purple 	Internal: 12 x 10.4 x 7.9 cm*
		External: 16.5 x 15.25 x 12.7 cm
*Internal he	ight of open space when cartri	dge is in the base.



 CoolBox 30 Cartridges

 Item No.
 Description

 BCS-132
 Cooling Cartridge, blue, 3 per pack

 BCS-131
 Freezing Cartridge, green, 3 per pack

Popular Pre-assembled Configurations



XT Starter PCR Cooling Systems, pre-assembled

Application	For Use With	Includes	Description	Item No.	Color
PCR/qPCR plate and reagent tube preparation	One 96-well PCR plate, 12 strip-wells or 96 o.2 mL tubes		XT Starter PCR96 System	BCS-556	•
,	12 x 1.5 mL or 2.0 mL microfuge tubes and 6 rows of PCR stripwells		XT Starter M-PCR System	BCS-557	•



CoolBox™ XT and CoolBox™ 2XT Systems, pre-assembled

Application	For Use With	Includes	Description	Item No.	Color
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	•
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		BCS-575	•
PCR/qPCR plate preparation	One 96-well PCR plate, 12 strip wells or 96 o.2 mL tubes	1 x CoolBox XT System 1 x SBS-compatible CoolRack XT PCR96	CoolBox XT PCR96 System	BCS-570	•
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	•
, , , , , , , , , , , , , , , , , , , ,	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	•

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CoolBox[™] 30 Systems, pre-assembled

Application	For Use With	Includes	Description	Item No.	Color
Enzyme, PCR reagent or other biological specimen cooling		1 x CoolBox 30 System 1 x CoolRack M30	CoolBox M30 System	BCS-133	•
	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	•



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