FreezeBox™

For over 25 years Crystal Technology & Industries has been driven to deliver exceptional value to the scientific marketplace. Our engineers collaborate with top-tier research institutions to design & develop innovative Benchtop Equipment and Cryo Storage Solutions for today's Scientist.

New Cooling Equipment to Preserve Biological Samples All Day Long

Product Features:

- Provides low temperature protection for biological samples
- Uniformity of temperature between the cavities ensures consistency of sample results, typically +/-0.1°C
- Choice of Cryo-Cores for different storage temperatures
- Applicable to a variety of different Tube Modules
- Highly durable and suitable for frequent and repeated use
- Lightweight, easy to carry, suitable for the collection of biological samples
- Easy to clean and disinfect
- No ice required

Do not put the FreezeBox™ in a Freezer
Only Cryo-Cores and Tube Modules are to be put in a Freezer

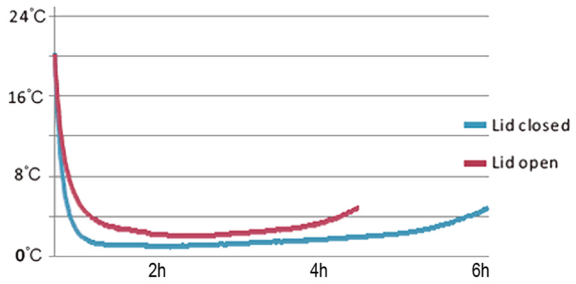
Usage:

The FreezeBox is easy to assemble and simple to use. Simply store the Cryo-Core in an ultra-low temperature freezer for several hours, place the desired Tube Module on the chilled Cryo-Core and insert your sample into the Tube Module. If you choose to use dry ice, remove the cryo-core and place approximately 200g of dry ice in its place. Then place the Tube Module on top.

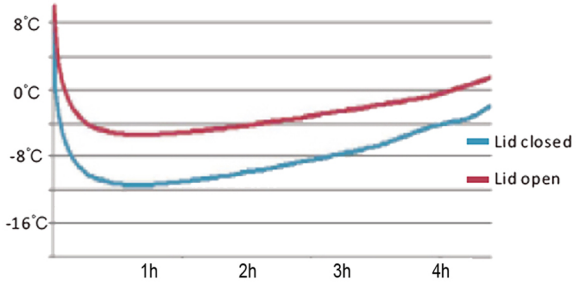
FreezeBox™

Technical Parameters:

Temperature Range	Cooling Sources	Cryo-Core Preparation	Tube Module Preparation	Insulation Time (open cover)	Insulation Time (closed cover)
0.5°C ~ 4°C	Cryo-Core CL	-20°C Freezer for 4 hours, then 10 minutes at room temp, then use	Precool Tube Module at 0.5°C~4°C for 30 min.	4h	6h
0.5°C ~ 4°C		-20°C Freezer for more than 4 hours, then use directly	Use Tube Module at room temperature		
0.5°C ~ 4°C		-80°C Freezer for more than 2 hours, then use directly			
-18°C ~ -4°C	Cryo-Core CF	-20°C Freezer for more than 6 hours	Precool Tube Module at ≤ -20°C for 30 min.	3h	4h
-18°C ~ -4°C		-80°C Freezer for more than 3 hours			
-78°C ~ -30°C	Dry Ice	Add 200g of Dry Ice into the bottom of the FreezeBox	Use Tube Module at room temperature	4h	5h



Sample Temperatures: CL Cryo-Core (Time in hours)



Sample Temperatures: CF Cryo-Core (Time in hours)

Cryo-Cores:

Cryo-Core	Product Name	Temp. Range	Freezer Temperature	Freeze Time	Dimensions
CL	Cooling Core	0.5°C ~ 4°C	-20°C	4h+	105 x 100 x 26 mm
		0.5°C ~ 4°C	-80°C	2h+	105 x 100 x 26 mm
CF	Freeze Core	-18°C ~ -4°C	-20°C	6h+	105 x 100 x 26 mm
		-18°C ~ -4°C	-80°C	3h+	105 x 100 x 26 mm

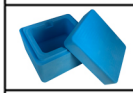
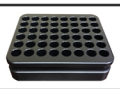
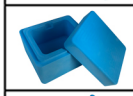
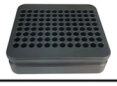
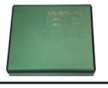
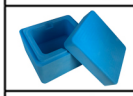
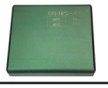
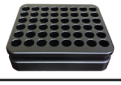
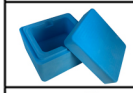
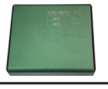
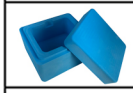
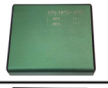
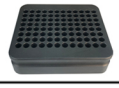
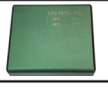
Tube Modules:

The high thermal conductivity metal alloy tube module ensures consistent tube temperatures. The module ensures that all tubes are +/- 0.1°C. It can also be used for cooling, quick freezing, thawing and heating. The Tube Module is suitable for temperatures ranging from -196°C to over 100°C.

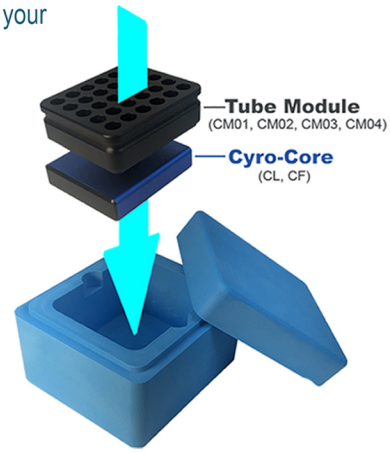
Tube Module	Part Number	Specifications	Dimensions
2 ml Tubes	CM01	30 x 2 ml Cryo Tube	119 x 101 x 38 mm
1.5 ml Tubes	CM02	48 x 1.5 ml Cryo Tube	119 x 101 x 38 mm
5 ml Tubes	CM03	30 x 5 ml Cryo Tube	119 x 101 x 38 mm
PCR Tubes	CM04	96 x PCR Module	119 x 101 x 38 mm

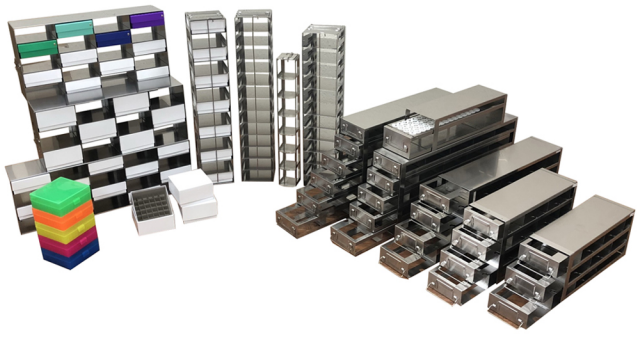
FreezeBox™

Choose your FreezeBox package:

FreezeBox™	Dimensions	Cryo-Core	Tube Module	Package SKU:
 FZB-S1	152 x 170 x 123 mm	 CL 0.5° ~ 4°C	 CM01 30 x 2ml	FZB-CL-01
 FZB-S1	152 x 170 x 123 mm	 CL 0.5° ~ 4°C	 CM02 48 x 1.5ml	FZB-CL-02
 FZB-S1	152 x 170 x 123 mm	 CL 0.5° ~ 4°C	 CM03 30 x 5ml	FZB-CL-03
 FZB-S1	152 x 170 x 123 mm	 CL 0.5° ~ 4°C	 CM04 96 x PCR	FZB-CL-04
 FZB-S1	152 x 170 x 123 mm	 CF -18° ~ -4°C	 CM01 30 x 2ml	FZB-CF-01
 FZB-S1	152 x 170 x 123 mm	 CF -18° ~ -4°C	 CM02 48 x 1.5ml	FZB-CF-02
 FZB-S1	152 x 170 x 123 mm	 CF -18° ~ -4°C	 CM03 30 x 5ml	FZB-CF-03
 FZB-S1	152 x 170 x 123 mm	 CF -18° ~ -4°C	 CM04 96 x PCR	FZB-CF-04
 Extended height box for tubes taller than 60 mm	152 x 170 x 170 mm	 CL 0.5° ~ 4°C	 CM03 30 x 5ml +  CME Tube Module Extender for tubes taller than 60 mm	FZB-CL-L3
		 CF -18° ~ -4°C		FZB-CF-L3

Order FreezeBox with the Cryo-Core & Tube Module that meet your requirements





For the widest selection of ***Freezer Racks***, constructed of high-quality corrosion resistant stainless steel or aluminum, and ***Storage Boxes*** to protect and organize your samples, go to **www.crystalindustries.com**.

If you don't see what you need contact our Technical Support Engineers at **info@crystalindustries.com** for a quote on a custom solution!