

CoolSink™

Standardized Plate Cooling

Error-Free



- Accommodates a variety of plates, including 6-, 12-, 24-, 48- and 96-well plates, 96-well and 384-well PCR plates
- Uniform temperature to all wells
- Stable platform on ice, dry ice or other cooling or warming media
- Decontaminate with bleach, alcohol or autoclave



CoolSink thermo-conductive plate holders provide temperature-equalizing interface between plate and temperature sources such as ice, dry ice, incubators, hot plate and water baths. The novel alloy rapidly adapts to source temperature and ensures uniformity across all wells – eliminating edge effect.



CoolSink 96F with 96-well plate on ice

- Multi-well plates placed directly on ice do not reach critical $<4^{\circ}\text{C}$ temperature in any of the wells. (Fig. 1, A.)
- CoolSink plate modules bring all wells $<4^{\circ}\text{C}$ and evenly distribute the temperature. (Fig. 1, B.)

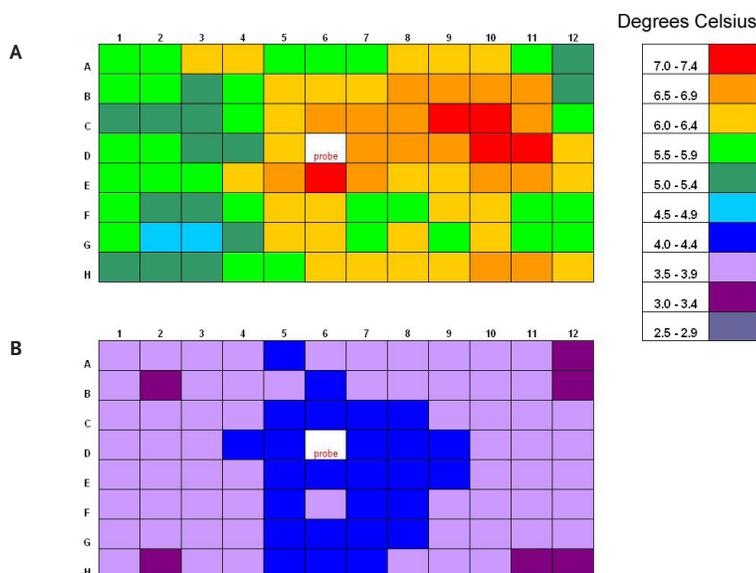


Figure 1. Final equilibrium well temperature for a 96-well flat bottom plate in direct contact with (A) crushed ice and (B) CoolSink 96F on ice. Colors represent 0.5°C temperature intervals of the corresponding plate wells. The white cell represents the well that was fitted with the thermocouple probe. (Published in Biotechniques, November 2010)

Extended plate cooling or warming: Our ThermalTray™ platform supports CoolSink and CoolRack® modules in liquid temperature media such as melted ice, liquid nitrogen and water baths. Tubes and plates do not come in direct contact with temperature source ensuring better organization, reduced error and minimized risk of contamination.



Cooling: Place the ThermalTray platform into a pan of ice and place the CoolSink or CoolRack modules on top. Units will equilibrate to less than 2°C in approximately four minutes. Assembly will ultimately equilibrate to approximately 1°C and hold that temperature as long as there is ice in the melted ice water (10-12 hours).



Warming: Place the ThermalTray into the basin of a water bath and place a CoolRack tube holder or CoolSink plate holder on top. Both units will equilibrate to water bath temperature within minutes and will hold temperature as long as they remain in the water bath and water level is maintained.

Ice-free plate cooling



CoolBox MP System is an ice-free cooling or freezing container that accommodates all CoolSink and CoolRack plate modules. The reusable cooling cartridge will provide up to 10 hours of <4°C cooling while ensuring temperature uniformity across all wells of the plate. Place dry ice in the CoolBox instead of the cooling cartridge and obtain hours of -78°C freezing in a compact, portable workstation.

Part Number	Description
BCS-106	CoolSink 96F, for one 96-well flat bottom plate
BCS-107	CoolSink 96U, for one 96-well u-bottom plate
BCS-101	CoolSink 48, for one 6-, 12-, 24-, or 48-well plate
BCS-120	CoolRack PCR96, for one 96-well PCR plate or 0.2ml strips and tubes
BCS-139	CoolRack PCR384, for one 384-well PCR plate
BCS-180	CoolSink BX50, for one Biotix brand BioX-resin 50ml reagent reservoir
BCS-144	CoolBox MP System, ice-free cooling container with cartridge
BCS-123	ThermalTray LP, low profile platform
BCS-104	ThermalTray HP, high profile platform (recommended for use in water bath)
BCS-111	Maxi ice pan, green (accommodates ThermalTray platforms)

For more information, please see our full product catalogue at www.biocision.com. Made in USA.



Biocision, LLC 12 E. Sir Francis Drake Boulevard, Larkspur, CA 94939 USA Tel: 888.478.2221 info@biocision.com www.biocision.com