

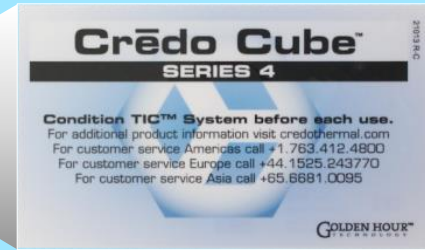
# Cool Cube™ Series 4 PCM Panels

Refrigerated Temps for vaccine, blood, medicine & more.

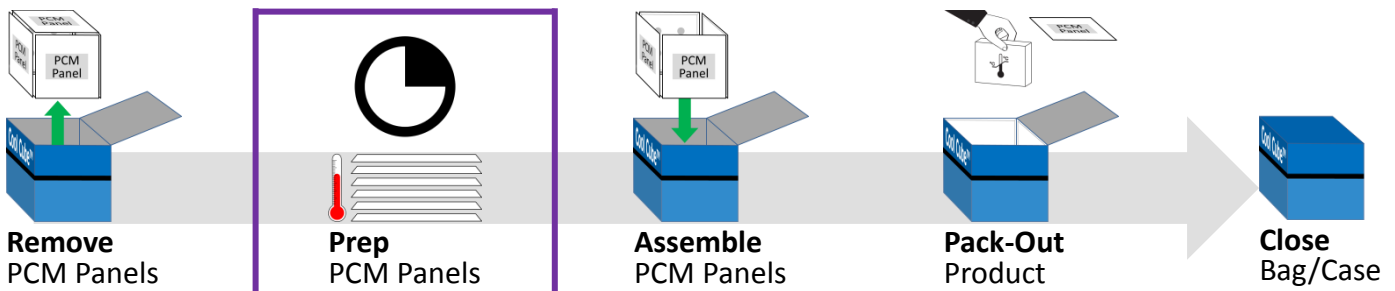
All Sizes



Blue Tab/Label




## Prep Method A: Freezer/Fridge Prep to keep product cold



**DO NOT assemble panels directly from a freezer, as they may be initially below 0°C.**

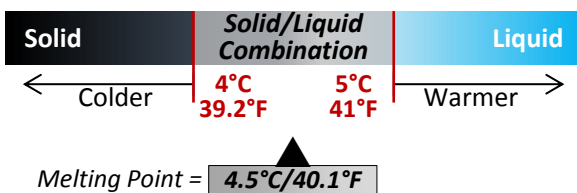
### Panel Prep Stages

- Place panels in a freezer until PCM (phase change material inside the panel) is solid (i.e. 2 hrs. @ -15°C). Shake to verify. 
  - Transfer panels into a fridge at least 3 hours before use. Panels may be stored in the fridge until needed for assembly or the PCM melts.  
*If a refrigerator maintains 4°C or below, the PCM within the panels will not melt (melting point is 4.5°C), keeping the PCM solid indefinitely until pack-out. If the refrigerator maintains 5°C or above, periodically check for melting and restart prep to ensure best performance.*
- ❖ Before assembly, shake panels to verify PCM is solid. If liquid can be heard, panels may be used but hold times will decrease.



### Cool Cube™ Series 4 PCM Panel Shake Test

Thermal Properties of Panels



### ISTA 7D Thermal Performance Study Temperature Hold Times

	Refrigerated Temps	2-8°C	1-6°C	1-10°C
Cool Cube™ 03		65 hrs	39 hrs	70 hrs
Cool Cube™ 08	<b>Series 4</b>	76 hrs	53 hrs	83 hrs
Cool Cube™ 28	<b>Blue Tab/Label</b>	103 hrs	68 hrs	108 hrs
Cool Cube™ 96	<b>(6-panel pack-out)</b>	126 hrs	112 hrs	128 hrs

Times listed are based on lab-validated, ISTA 7D summer (hot conditions) and winter (cold conditions) 24-hour cycled shipping profiles without the additional thermal mass of a payload. Actual performance times may vary.

# Cool Cube™

## Best Practices

Call for  
Technical Support  
(866) 469-6019



- Always prep the PCM panels before use according to one of the described methods provided by VeriCor.
- Ensure all components are clean and free of damage.
- During prep, enable ample air flow around all panel sides.
  - Use spacers (pencils) or racks.....customer solution→
- Lay panels flat when “freezing”.
- Freeze/melting times vary depending on number of panels being prepped and equipment specifications being used.
- Assemble using all six panels for maximum hold time.
  - Using less panels does not change the holding temperature but does decrease hold time.
- Panels are reusable (10,000+ cycles)
  - End-of-life disposal: Panels use a plastic #2, typically recycled by businesses/communities. PCM is nontoxic and readily biodegradable.
- Use a calibrated data logger or other temperature monitoring device to observe internal temperature.
- Avoid unnecessary opening of the Cool Cube™ after loading payload. Opening of the Cool Cube™ will decrease hold time.
- An infrared temperature thermometer can assist in ensuring the panels reach a safe pack-out temperature (good for finding out the approximate temperature of each panel).
- The farther the ambient temperatures are from the melting point, the quicker PCM will change states (solidify/liquefy).

