Cool Cube' **Best Practices**

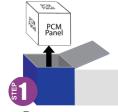
Call for Technical Support (608) 526-6901



- Always prep the PCM (phase change material) panels before use according to one of the described methods provided by VeriCor.
- Ensure all components are clean and free of damage.
- Lay panels flat when turning them solid (to disperse liquid throughout the panel).
- Enable ample air flow around all panel sides.
 - Use spacers (pencils) or racks. \rightarrow
- Freezing/melting times vary depending on number of panels being prepped and equipment being used.



- Using less panels does not change the holding temperature, but does decrease the 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).





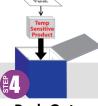


Prep **PCM** Panels

Various methods based on type of panel, equipment available & purpose.



Assemble **PCM Panels**

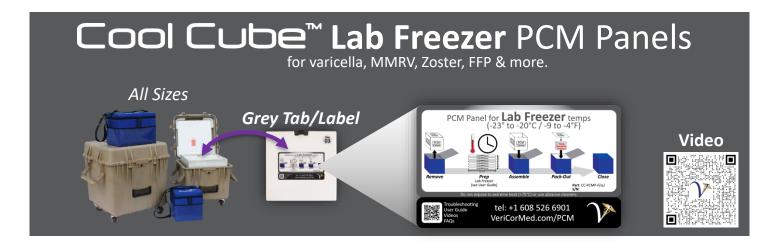


Product

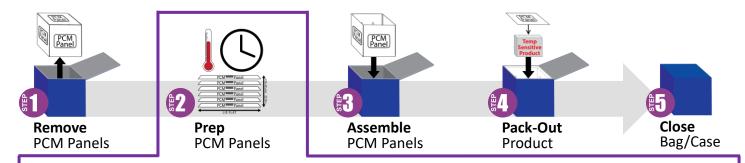


Bag/Case





Prep Method A: Ultra-Low Freezer Prep to keep product frozen



A freezer kept colder than -30°C is necessary to turn PCM completely solid.

Panel Prep

- 2.1 Lay panels flat in an ultra-low freezer until all the PCM (phase change material inside the panel) turns solid. At -30°C/-13°F the PCM will solidify in a day or two.*
 - * If the freezer temperature is ever warmer than -30°C, PCM may not get completely solid (due to the possibility of <u>supercooling</u>). If panels are stored within the temperature parameters of the product but the PCM is liquid, panels may be used but the hold time will decrease.
- **2.2** Shake panels to verify the PCM is solid. If there is liquid, restart at step 2.1 to ensure the longest hold time. Using liquid PCM or panels with a solid/liquid combination decreases the hold time.

