Cool Cube'

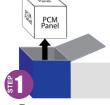
Call for (608) 526-6901



- 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 are 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).

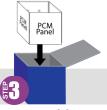


Remove PCM Panels

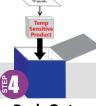


Prep **PCM** Panels

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



Assemble **PCM Panels**

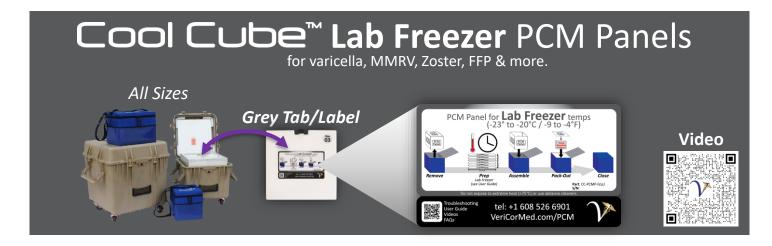


Product

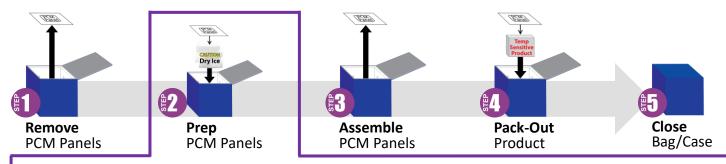


Close Bag/Case





Prep Method B: Dry Ice Prep to keep product frozen



Panel Prep

- **2.1 Pack out cooler with dry ice** until the PCM (phase change material inside the panel) panels become solid. The more dry ice, the faster the PCM will solidify.*
 - * Time varies dependent on the starting temperature of the panels, size of panels, and amount of dry ice used. CAUTION: Dry ice has a surface temperature of -78.5°C/-109.3°F, so handle with care.
- **2.2** (Optional) If product to be packed out cannot withstand an initial -70°C temperature, transfer panels into a standard freezer at least 3 hours before use. Panels may be stored in the freezer until needed for assembly or the PCM melts.

If a freezer maintains -23°C or below, the PCM within the panels will not melt (melting point is -21.5°C), keeping the PCM solid indefinitely until pack-out. If the freezer maintains -21.5°C or above, periodically check for melting and restart at step 2.1 to ensure the longest hold time.

2.3 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.

