

What is a PCM container?

Unrivalled experience in designing and advising on PCM installations and application. These containers are constructed of blow moulded HDPE and can be filled with positive or negative temperature PCMs, although high temperature PCMs may be unsuitable due to softening of the plastic.

What is PCM phase change material?

PCM Phase Change Material can store thermal energy in the form of latent heat for cooling or heating functions in a later stage. Energy storage is as important as new clean energy in terms of environmental protection.

How many litres of PCM are in a container?

Each container holds approx 3 litres of PCM and due to their design they can be stacked on top of each other to achieve a large bulk volume of PCM for, e.g., building temperature control applications.

What is PCM TES?

PCM-TES is practiced with a large tank fully filled with phase change material panels. It realizes the storage of precious thermal energy from a source, either solar, chilled water or geothermal, for another heating or cooling functions in a later stage. [Learn more ...](#)

What is PCM & how does it work?

PCM built into panels or sheets can be used to keep stuff at specific temperature required for temperature-controlled apps: advancing chiller system efficiency, facilitating a cold chain or storing solar energy. The Greater China's Best Environmental Energy Saving Enterprise of the Year [See More ...](#) We are excited to announce:

What is a good PCM?

Proven PCMs include hydrated salts, paraffins, fatty acids, alcohols and more. Each material has its own performance profile, so the most appropriate PCM can be closely matched to the specific temperature requirements of each shipment.

The space between the product itself and the VIP panels is then available to accommodate inserts that use specialty phase-change material (PCM) to help maintain the temperature setpoint inside the container. PCM is engineered material that can effectively store and release energy, and undergo a change in phase (for instance, solid-solid ...

The reviewed results showed that the rectangular PCM container is the effective container for the bulk storage due to its high melting rate and storage efficiency. Moreover, the use of longitudinal finned geometry within PCM integrated triplex tube heat storage units significantly achieved better heat transfer performance

compared to the other ...

The findings reveal that PCM-based containers can sustain a range of temperatures ($7\text{ }^{\circ}\text{C} \sim 12\text{ }^{\circ}\text{C}$) and humidity levels ($85\% \sim 95\%$), resulting in higher cargo quality and a longer cargo shelf life. The evaluation showed that PCM-based containers reduced energy and operating costs by 71.3% and 85.6% , respectively, compared to the same ...

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Often the geometrical design of a PCM container is based on empirical observations. To enhance convection and melting of the PCM, authors propose here new design guidelines for an improved...

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