



**PLUSS<sup>®</sup>**

TECHNOLOGY FOR  
A BETTER WORLD

**Sustainable  
Solution**

**Improve Post  
harvest Quality**

**HIMACOOOL<sup>TM</sup>**

**Revolutionize agriculture with 24/7  
Off-Grid PCM cooling technology**

# HimaCool™ OFF-GRID COLD ROOM

**Grid-Independent:** Maintains temperature 24/7 without batteries or grid connectivity. Energy is stored in Phase Change Materials (PCM).

**Long Lifespan:** Operates battery-free, the PCM has a lifespan of up to 25 years.

**Cost-Effective:** Minimal recurring costs for operation and maintenance.

**Extended Shelf-Life:** Enhances shelf-life of fresh produce & freezes fish or meat products.

**Eco-Friendly:** Reduces carbon footprint as a grid-independent & zero-emission appliance.

**Available Sizes:** 3Mt, 5Mt, 20Mt, 40Mt & 50Mt





## How it Works

HimaCool™ is a sustainable, grid-independent micro cold room that uses Phase Change Material (PCM), to maintain chilled or frozen temperatures.

During six hours of sunshine, the PV solar panels on the roof or alongside the HimaCool™ storage, run a cooling installation to cool down the cold room and charge PCM thermal batteries inside.

This stored thermal energy, maintains a stable temperature in the HimaCool™ cold storage for the next 18 hours. Every day/night this cycle repeats itself.

In the HimaCool™ cold storage, you can preserve a variety of products such as apples, bananas, grapes, limes and mangoes.

# Why Pluss Advanced Technologies

PLUSS is a **materials research** and **manufacturing** company involved in the field of **Phase Change Materials (PCMs)** for **thermal energy storage**.

A **sustainable** concept with endless **energy-saving applications**.



Your partner in PCM supply



European warehousing and encapsulating in the Netherlands



Custom solutions for special needs by strong research and development



15+ years of experience

## Pluss Advanced Technologies B.V.

Helftheuvelweg 11  
5222 AV 's-Hertogenbosch  
The Netherlands

+31 (0) 85 06 04 828  
pcm@plussat.eu  
www.plussat.eu



**Jan van Acqouij**  
General Manager  
Jan@PlussAT.eu



**Joris de Luij**  
Chief Commercial Officer  
Joris@PlussAT.eu



**Eddy Borst**  
Sales Manager  
Eddy@PlussAT.eu