

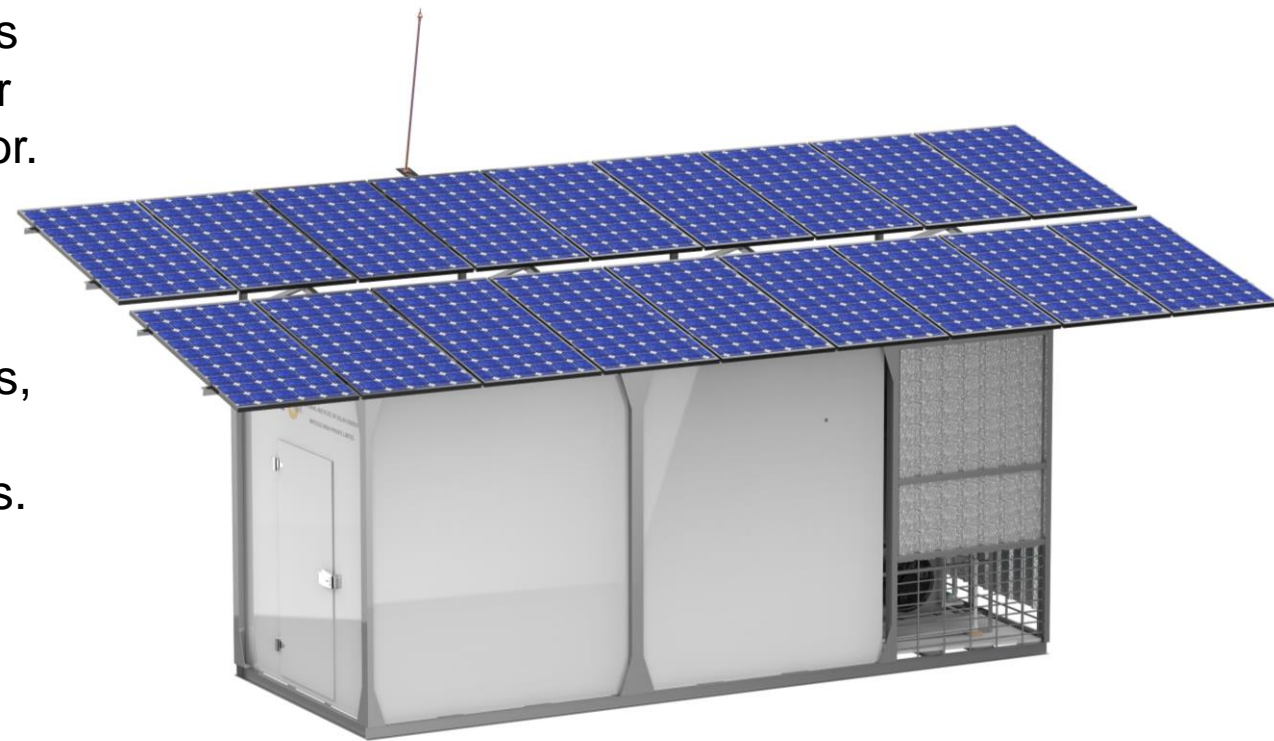
Solar Cold Storage – Staging Application

Powered with hybrid ice technology

This cold storage works on hybrid ice technology with features such as fast cooling, cooling backup from thermal energy storage for non-solar hours and no requirement of electric batteries to power the compressor. Using the hybrid ice technology, compressor and thermal energy storage work in tandem to boost the cooling performance.

The cold storage is ideal for medium to long term storage of the pulses, chilly, fish, eggs, and other perishable commodities. The system can also be utilized as a storage chamber for milk and other dairy products.

The entire system is automatic and doesn't require user intervention. The solar integration is jointly developed in partnership with National Institute of Solar Energy, Government of India.



Features

FLEXIBLE CONFIGURATION

Can retrofit to existing system;
Large capacity systems feasible with multiple refrigeration units

0 to 15 °C TEMPERATURE RANGE

World's one of the few solar cold storage based on thermal energy storage with wide temperature applications

SITE & USAGE OPTIMIZED SIZING

Sizing of compressor, solar panels & energy storage is optimized for site & usage conditions

MUTI CHAMBER

Same system can have 2 chambers with different temperature set points

Specifications

| Description | 10 MT | 20 MT | 40 MT |
|---------------------------|------------------------------------|------------------------------------|------------------------------------|
| Internal storage volume | 1500 cubic feet | 3000 cubic feet | 6000 cubic feet |
| Temperature range | 4 to 15 °C 0 to 8 °C (optional) | 4 to 15 °C 0 to 8 °C (optional) | 4 to 15 °C 0 to 8 °C (optional) |
| Cooling backup capacity | 200 MJ | 300 MJ | 500 MJ |
| Compressor | 2 to 2.6 TR | 3 to 3.5 TR | 5 to 6 TR |
| Solar photovoltaic panels | 5 to 6 kWp | 8 to 10 kWp | 14 to 18 kWp |
| Multiple chamber options | 1 & 2 | | |
| System configuration | Indoor: on-site assembly | | |

Notes:

1. All performance data is based on 5 kWh/m²-day of global solar horizontal irradiance and standard operating conditions
2. Cold storage capacity is indicative and commodity dependent
3. Alternate power supply such as grid backup is strongly recommended for system operations during cloudy conditions
4. Cold storage capacity other than the mentioned sizes are possible and can be designed as per requirement
5. Rendered picture shown in the brochure is representative in nature

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