Climate-friendly and energy-efficient cold stores

Reduce heat load, switch to high efficient technology options using natural refrigerants and improve operations for green cooling

Key facts

- Use green cooling appliance by switching to energy-efficient chiller with low-GWP refrigerants
- Combined energy optimization of the equipment’s energy performance, its operation, and improved insulation can save 30 to 40% of energy
- About 23% of losses of perishable food can be accounted to lack of refrigeration
- In emerging economies and developing countries, global cold store capacity is growing by 8.6% annually
- Capacity Growth: 8.6%
- Food Loss: 23%
- Food Loss Reduction: 30 – 40%

Cooling Source

Heat Source

Reduce unnecessary cooling by optimizing cooling settings according to stored goods

Cooling Source

Heat Source

Reduce additional heat load by minimizing time and frequency of open door

Reduce heat load of building by improving thermal insulation of walls, floor and ceiling using low-GWP foam blowing agents

Natural foam blowing agents

Remove heat by precooling goods before storage

Avoid refrigerant leakage by servicing equipment by certified RAC technicians, ensuring efficient operation

Ensure professional handling by training staff to optimize energy-efficient operation and cooling load in storage facility

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