

Aircooler high energy storage ice crystal

What are the advantages of ice-crystal type ice storage air-conditioning system?

Ice-crystal type ice-storage air-conditioning system not only has the advantages of stable ice making and ice melting process and large energy-storage density, but also can save the storage space of the system and have a strong adaptability. It has good energy saving effect and economic benefit.

What is ice crystal cool-storage air-conditioning system?

For ice crystal cool-storage air-conditioning system, because the ice crystal which produced in the ice-storage tank is very small and uniform with the diameter of about 100 μ m and can be directly pumped to participate in the refrigeration cycle at the load end, the system eliminates the need for secondary cooling medium and heat exchanger.

What is coiled ice storage air conditioning?

Coiled ice storage air conditioning technology integrates ice storage and air conditioning systems by utilizing off-peak electricity to make ice during nighttime hours. The ice is then melted during the peak electricity consumption period to provide cooling for buildings.

What is coil-type ice storage air conditioning?

The coil-type ice storage air conditioning technology combines ice storage technology with the air conditioning system, using valley electricity for ice storage at night, storing cold energy in low-temperature ice, and releasing cold energy through ice melting during peak electricity usage in the daytime.

Does coiled ice storage air conditioning improve grid peak regulation?

The coiled ice-storage-based air conditioning system plays a significant role in enhancing grid peak regulation and improving cooling economy. This paper presents theoretical and experimental studies conducted on the ice storage process of coiled ice storage air conditioning technology.

What is ice-storage air-conditioning technology?

Ice-storage air-conditioning technology is a kind of phase change energy storage. It makes use of the valley load electricity to make ice to storage cool at night and melt ice into water during daytime peak hours. It can release the amount of cool stored in the ice and supply cooling capacity to the load end with refrigeration unit.

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