



Advanced Heat System for Sustainable Energy Usage in Winter Condition

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Message from the Guest Editors

The demand for energy used in the winter has increased rapidly in recent decades. A series of advanced heat systems for sustainable energy usage in the winter have been widely developed, including not only for the requirements of space heating and hot water supply, but also for industrial drying and equipment cooling, etc. High-efficiency energy systems have consistently faced problems linked to frosting, icing, lack of energy sources, complicated systems, big space, high cost, etc. In heat pumps, for example, frosting always causes operational issues in the winter. There has been a great deal of efforts focused on applying and studying emerging sustainable and energy-efficient technologies.

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