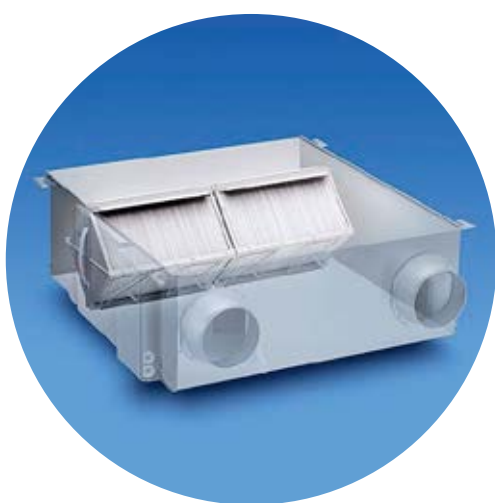


Mitsubishi Electric Quality

Try blowing into a rolled up piece of paper. The warmth of your breath travels through the paper to your hands. Some 38 years ago, this simple principle led to the development of our most effective air-conditioning technology.

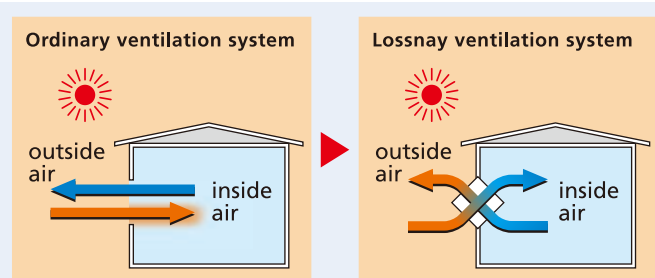


Lossnay and Lossnay Core

Mitsubishi Electric's Lossnay Energy Recovery Ventilators —heat-exchange technology that refreshes room air without affecting temperature and humidity.

Lossnay Energy Recovery Ventilator eliminates air conditioner energy loss during ventilation

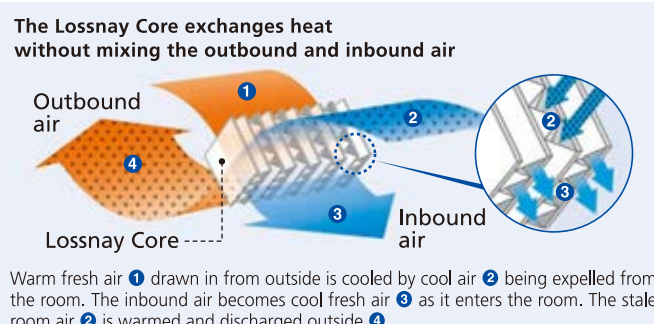
On a hot summer day, if you decide to ventilate a cool, air-conditioned room with fresh outside air, the hot air entering the room will cause the temperature and humidity of the room to rise. If you adjust the air conditioner to a more powerful setting to maintain the temperature and humidity of the room, your electricity bills will rise. The Lossnay* ventilation system lets you refresh the room air while maintaining the same level of cool, dry air that you desire. The system prevents energy loss during ventilation and helps to reduce electricity usage.



* The Lossnay brand name, in use since the system was developed in 1970, was coined through a combination of English and Japanese words that mean "no loss."

Lossnay Core: heat exchange using a specially treated paper filter

At the heart of the Lossnay Energy Recovery Ventilator is the Lossnay Core, a heat exchange filter developed exclusively by Mitsubishi Electric. As the exiting room air and the fresh outside air pass through the Lossnay Core, they are kept separate by partition plates made of a specially processed paper. It allows the transmission of temperature and humidity but prevents the passage of air. The idea for this technology was sparked when an engineer, watching his daughter at play, rolled a sheet of paper into a tube and then blew air through it. He noticed that the heat of his breath was transferred through the paper to his hand.



Lossnay can be adapted to many different applications

As the global demand for energy-efficient commercial and home heating and cooling systems increases, it's no wonder that Lossnay Energy Recovery Ventilators are found in a wide range of facilities, including office buildings, department stores, and municipal buildings. Around the world, Lossnay Energy Recovery Ventilators are earning accolades for energy efficiency. The system has twice won Japan's Ministry of Economy, Trade and Industry's Energy Conservation Award. In addition, Japan and seven other countries in Europe and North America have awarded patents to Lossnay technology.

