

# How Hitachi's Inverter and Dual Fan Cooling Work Together

In Hitachi's cooling system, the inverter compressor adjusts cooling power over a wide range, changing the amount of chilled air generated inside as required. The two dedicated fans of Dual Fan Cooling then deliver the chilled air to each of the compartments. In this way, Hitachi's cooling system provides optimum cooling at all times.

## Compact but High Power Inverter Compressor

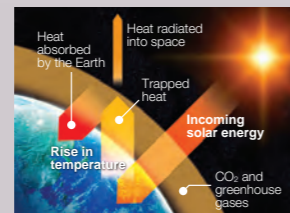
The high-precision, high-durability inverter compressor finely adjusts cooling power over a wide range from high to low. Unlike a conventional compressor that cools only by switching a fixed power on or off, the inverter compressor is capable of providing exceptionally powerful cooling by generating a large volume of chilled air, while also providing efficient low power cooling. Depending on conditions inside and outside the refrigerator detected by the Eco Thermo Sensor and with microcomputer control, it provides optimum cooling power at all times.



Quiet Operation

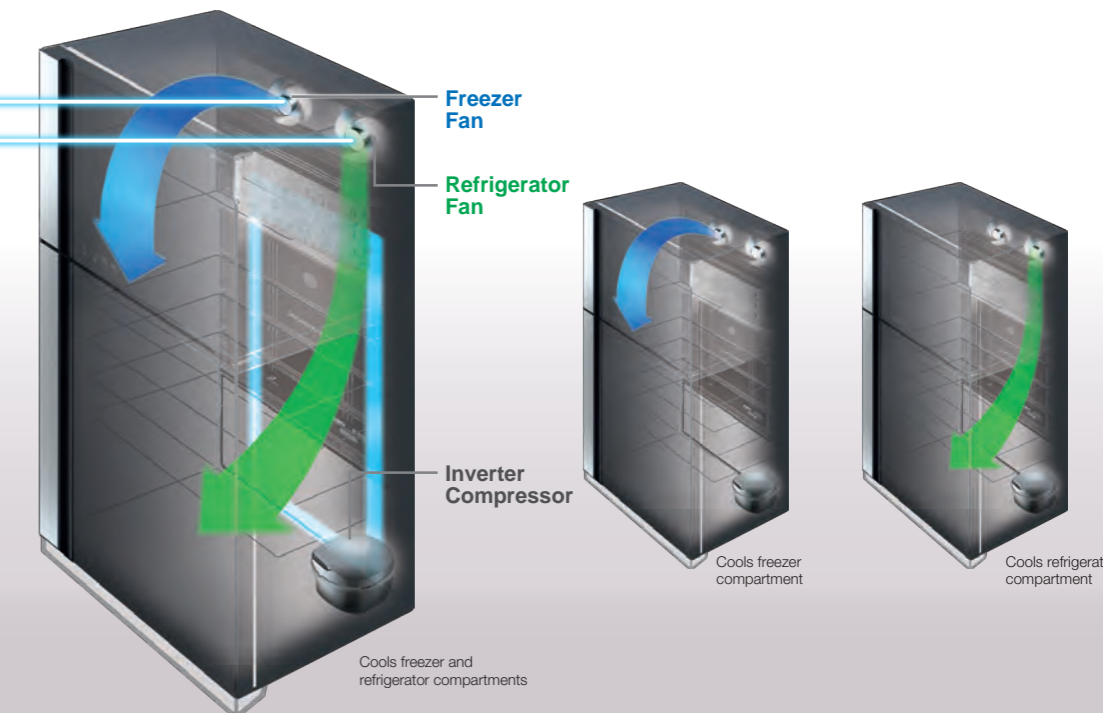


R-600a Eco-Friendly Refrigerant



## Dual Fan Cooling — Dedicated Fans for Each of the Compartments

Two dedicated fans, one for the refrigerator compartment, the other for the freezer, independently cool each of the compartments. So according to conditions, chilled air can be delivered only to the refrigerator compartment, only to the freezer, or to both, which is impossible with conventional refrigerators that have only one fan. What's more, the fans adjust airflow to provide even more powerful and efficient cooling when required.



## Why Hitachi's Inverter?

Currently used in high-speed railway systems and the latest hybrid cars, Hitachi's inverter technology has always contributed to the development of society and provided a comfortable living environment. By automatically controlling the motor, this inverter technology enables optimum operation with little wasted energy, so it's also expected to play a vital role in reducing environmental impact.



## Why Hitachi's Dual Fan Cooling?

Hitachi's Dual Fan Cooling enables independent cooling of the freezer and refrigerator compartments, something a single fan can't do. Using two fans, Dual Fan Cooling also quickly and effectively circulates the cold air provided by powerful inverter operation. Making the most of the inverter's capabilities, Dual Fan Cooling is the ideal cooling system.

