



**Improving the Environmental Friendliness of Life & Energy related Products**

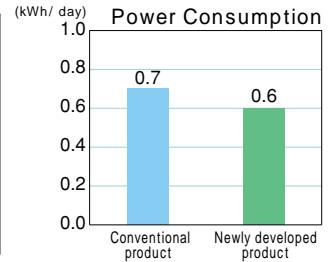
Our key concern is to offer consumers products that are kind to both people and the earth. To this end, we are developing products that offer reduced power consumption, improved efficiency, and less emissions of CO<sub>2</sub> and NO<sub>x</sub>.

**【Energy-saving Shower-toilet Seats】**

By mixing air into the flush water, we have achieved flushing performance having a feel equivalent to the 1.3 liters per minute of water of a conventional toilet, yet using only 0.9 liters per minute of water. This makes it possible to reduce the capacity of the tank by 30%. What is more, a change in the shape of the toilet lid prevents such problems as heat radiation from the toilet seat, making possible energy savings of 0.1 kWh per day compared with conventional types.



Shower-toilet Seats

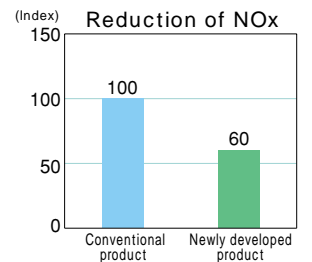
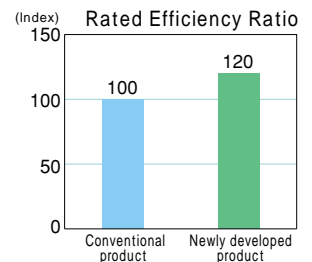


**【Highly Efficient Gas Engine Driven Heat-pump Air Conditioners】**

In consideration for the global environment, Aisin is developing gas engine driven heat-pumps designed to be more efficient, consume little fuel, and have exhaust-gas systems that emit small amounts of environment-impacting substances. We have also made efforts to make the 56kW model that we began manufacturing in March 2003 more energy-efficient. For instance, in low-load cases of cooling only a single room, control of engine speed and of the compressors drives only one of the four compressors. The air conditioner is thereby able to achieve optimized, energy-saving operation under such load conditions.



Gas Engine Driven Heat-pump Air Conditioners (56kW model)



**【Development of a Fuel-cell Cogeneration System】**

The fuel-cell cogeneration system generates hydrogen from sources such as natural gas, and generates electricity and produces hot water through an electrochemical reaction. It can supply households and the like with electrical power and hot water while achieving clean emissions. This product has less environmental impact and is more efficient than combinations of conventional electric and gas-powered hot-water equipment. (Under development jointly with Toyota Motor Corporation)



Fuel-cell Cogeneration System

**Effective Use of Energy**

