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### **Toshiba Air Conditioning Double Wins Energy Conservation Grand Prizes for Light Commercial and Residential Air Conditioners**

In January 2009 Toshiba Air conditioning won the Japanese Minister of Economy, Trade and Industry Prize for its light commercial 'Super Power Eco Cube' air conditioner series (named the Super Digital Inverter 4 series for overseas market) and the Chairman of Energy Conservation Center Prize for its residential 'DAISEIKAI' PDR air conditioner series (named the Super DAISEIKAI for overseas) in the 19th Energy Conservation Grand Prize Program (aimed to commend highly energy saving equipment/systems) for 2008. This program is sponsored by the Japanese Ministry of Economy, Trade and Industry (METI). The award winners were highly rated for excellent energy saving technologies in the store, office and residential air conditioner segment. The residential 'DAISEIKAI' air conditioner series received the prize for the second time following the previous year.

Reducing CO<sub>2</sub> emissions from the commercial and residential sectors has become an issue of top priority to be coped with preferentially. Since energy consumption by air conditioners at stores, offices and homes accounts for about 30% of total energy consumption, it is very important to attain further energy savings in the field of air conditioning. In these circumstances, Toshiba Air conditioning has promoted energy savings by laying emphasis on improvement of air conditioner efficiency during stable operation which greatly affects the energy consumption.

All models in the Super Power Eco Cube series have attained the world's best class (JIS B8616) annual performance factor. The main features are as follows:

(1) 10 rps Economy Drive Control function which greatly contributes to a reduction in running cost

This function causes the outdoor unit's DC twin rotary compressor to run at a ultra low speed of 10 rps. It enhances energy efficiency by changing intermittent operation which tends to occur under low load or when room temperature reaches the preset value and operation stabilizes, over to continuous operation.

(2) Self Cleaning function

This function enables the ceiling cassette 4-way cassette ceiling type to maintain energy efficiency at the time of purchase for a long time.

(3) In order to facilitate the spread of space heating with a heat pump, the new models have been improved so that they can perform space heating even when outside temperature is -20. C.

The award winning Super Power Eco Cube series models are also sold overseas as the Super Digital Inverter 4 series in a full lineup of 1.5, 1.7, 2, 3, 4 and 5 hp.



The 'DAISEIKAI' PDR series has realized the industry's top-class energy efficiency.

(1) This series has incorporated Toshiba's own Dual stage compressor which operates at high efficiency over the entire capacity range from large capacity at the start of operation to small capacity when room temperature has stabilized. The new models have enabled electric power saving operation which requires such small electric power as that required by an electric bulb under low cooling load or when room temperature reaches the preset value and operation stabilizes.

(2) The new models for the Japanese market have adopted the industry's first 'Energy Monitor' which visually shows electric power consumption, etc.

(3) The new series has incorporated a new air purifier which removes airborne dust or pollen by a plasma ion charger and a hybrid arc heat exchanger with different diameters.

From February 2009, the company began shipping the DAISEIKAI PDR series which won the Chairman of Energy Conservation Center Prize to overseas markets centering on the European countries under the name Super DAISEIKAI.



**TOSHIBA AIRCONDITIONING**

Advancing the **eco**-evolution