

The world's first household air conditioner with an inverter

Registration No.	Number 00265		
Registration Date	September 10, 2019	Registration Category	Category 1

Name (Model, etc.)	Inverter driven air conditioner RAS-225PKHV
Location	Fuji-shi, Shizuoka
	Toshiba Carrier Corporation
Owner (Custodian)	Toshiba Carrier Corporation
Manufacturer (Company)	Tokyo Shibaura Electric Co., Ltd. (now Toshiba Corporation)
Year Manufactured	1981
Year first appeared	1981
Reason For Selection	The world's first household air conditioner equipped with an inverter. A disadvantage of air conditioners of the time was that they consumed much electric power. Operation with low electric power was achieved by finely controlling the rotation of the motor driving the compressor for efficiency using an inverter. Control of the indoor unit, the method of communication with the outdoor unit, and some other aspects had new solutions that were forerunners for the present day. The development of technologies for this inverter miniaturization, weight reduction, and other features were later applied in many household appliances. This technology was developed in the region where east meets west on Japan's boundary for electric power source frequency, and was an epoch-making event that made it possible to build inverters into household appliances so that the product is not dependent on one power source frequency. This unit is valuable as proof in exhibiting the history of this technological development.
Registration Standard	1-A (Show an important aspect or stage of the development of science and technology.) 2-A (Played a notable role in improving people's way of life and creating new ways of living.)

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Other useful information	