

Contributing to CO₂ Reduction Inverter for Air Conditioning and Ventilation Applications in Singapore Hospital



FE's Inverter
FRENIC-HVAC Series

In Singapore, responding to the rapid changes in the health-care system landscape and challenges posed by aging population. The government mission building more “community hospital” is to sharpen the current model of integrated care for patients in need of rehabilitation. Outram Community Hospital (OCH), one of the “community hospitals” opening in December 2019, is located within Singapore General Hospital (SGH) the first and largest hospital in Singapore. OCH mainly support the increased healthcare demands in SGH, provide medical services that include medical, nursing and rehabilitation care for patients who require short period of continuation of care.

Fuji Electric Asia Pacific (FAP) have provided 719 units of Inverter “FRENIC-HVAC Series” for air conditioning and ventilation applications manufactured by Fuji Electric Manufacturing (Thailand) Co., Ltd. (FMT). These inverter control of the flow rate and air volume of fans and pumps used for air conditioning and ventilation in OCH and contribute to energy savings and keep down CO₂ emissions.



The FRENIC-HVAC Series is the first in the inverter industry to obtain UL Environmental Product Declaration (UL/EPD) certification*1 and is highly regarded worldwide as an environmentally friendly product. Furthermore, in Singapore, The FRENIC-HVAC Series have been acquired a green label 4 ticks class*2. Building owners in Singapore using the inverter can gain social reputation as an environmentally friendly business and benefit from tax incentives in acquiring and retaining buildings.

“I am very pleased to contribute to the development of medical care in Singapore. We will continue to expand Fuji Electric’s inverter business to support customers’ energy savings and continue to contribute to improving the health and welfare of all people in Singapore and the world.” Said President & CEO Atsushi Shirayama.

*1: Certification of environment-friendly products by a third party (UL/EPD - Environmental Product Declaration)

*2: Certification of environment-friendly products by the Singapore Green Building Council. Rated “4 ticks Leader” product.



Example of SDGs

7 AFFORDABLE AND CLEAN ENERGY



● Goal 7
Affordable and clean energy

The goal calls for improved energy efficiency as well as the spread of renewable energy. In office buildings and hospitals, air conditioning consumes a lot of energy. “FRENIC-HVAC” optimally controls air conditioning to provide a comfortable environment, while also saving energy and contributing to the prevention of global warming.