

HOSPITAL & CLINIC

Air-conditioning systems for hospitals must fulfill a variety of critical needs. Does the system offer an environment adequate to the requirements of both inpatients and outpatients? Is that environment appropriate to the needs of medical professionals in caring for their patients? For hospital managers, does the air-conditioning equipment function economically? And not least, is the air-conditioning system reliable? Hospitals are used by a wide range of people, all of whose needs must be met. For patients, airflow should be kept even to avoid draughts, with minimal variations in indoor temperature. Remote controllers should be easy to use and placed in a convenient location, and the air conditioners should function quietly. The climate settings must be adjustable for each room and zone. For hospital employees, the air-conditioning equipment must function with minimum vibration to avoid affecting delicate instruments and be easy enough to operate that employees can do so without calling in a specialist. Hospital managers want a system that can be maintained and upgraded at minimum cost and consumes as little energy, human and financial resources as possible. After installation manufacturer and client contact should be friendly and enduring. Hospitals operate 24 hours a day, and the air-conditioning must do the same. Finally, in the event of a rare system failure, back-up equipment must be available, along with an emergency response facility.

Daikin's VRV system has extensive features that meet the customer's needs described above.

- Indoor units to suit any type of indoor environment
- Wired and wireless control systems, as well as centralized control system with full operation management features
- Indoor and outdoor units designed for low noise and vibration
- Extra-long piping allowing installation flexibility of outdoor units
- Low operating load for exceptionally low annual energy consumption
- No dedicated operations manager required
- Easily configurable indoor and outdoor units to fit any detailed zoning plan
- Entire system available from Daikin, for convenient "one-stop shopping"
- Comprehensive service menu
- Compatibility with new refrigerants

By providing a single, comprehensive, flexible and economical air-conditioning system for an entire hospital, the Daikin VRV system makes a significant contribution to the needs of modern society.



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The Vision Department Building of the 3rd Hospital Attached to Beijing University in CHINA

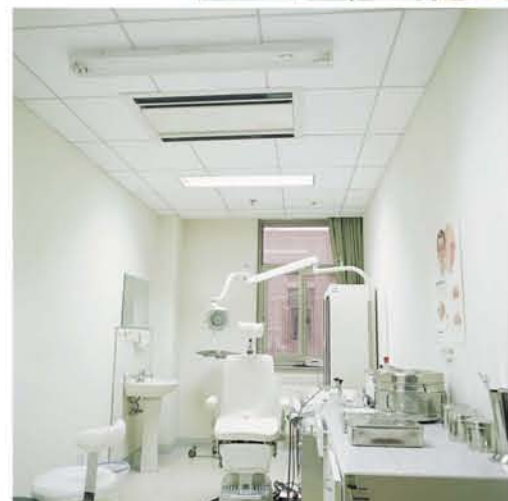
Total floor area is 19,000 m² and 10 stories. Construction was completed in 2002.
To complement the different condition of each patient, the color of the building is not only the traditional white.
The VRV system perfectly suits the interior design and brings a clearer and more comfortable environment to every patient.



Air-conditioning capacity is 710 Hp, or 2064 kW, 587 USRT.

Equipment

- Outdoor units: 71 units of 10 Hp heat pump type
- Indoor units: 192 units of Ceiling Mounted Cassette Type <Double (2) way flow>
- 220 units of Ceiling Mounted Cassette Type <Multi (4) way flow>
- 50 units of Ceiling Mounted Built-in (or Concealed Ceiling Unit) Type
- 4 units of Ceiling Mounted Duct (or Concealed Ceiling Unit Large) Type





Shangdong Provincial Hospital in CHINA

Total floor area is 50,000 m² and 16 stories. Construction was completed in 1999. Shangdong Provincial Hospital, which was established in 1897, is a well-known polyclinic throughout the province and the country. The main part of the hospital, especially the emergency rooms, have to be on call night and day. Accordingly the VRV system, which has a great reputation for reliability, was certainly the best choice.



Air-conditioning capacity is 1580 Hp, or 4593 kW, 1306 USRT.

Equipment

Outdoor units:

158 units of 10 Hp heat pump type

Indoor units:

420 units of Ceiling Mounted Cassette Type <Double (2) way flow>

160 units of Ceiling Mounted Cassette Type <Multi (4) way flow>

980 units of Wall Mounted Unit Type



University Hospital in MALAYSIA



Construction was completed in 2000.



Equipment

Outdoor units: 22 units

Indoor units: 74 units



Ang Mo Kio Polyclinic in SINGAPORE



Total floor area is 3,400 m² and 2 stories. Construction was completed in 2003. The VRV system was selected for this clinic because its signature energy-saving characteristics were appropriate to customer needs. Also, VRV permits piping lengths of up to 100 m between the indoor and outdoor units, offering a degree of design freedom that was appreciated by the customer. The clinic was also impressed with the low cost of maintenance a VRV system requires.



Air-conditioning capacity is 710 Hp, or 2064 kW, 587 USRT.

Equipment

- Outdoor units: 22 units
- Indoor units: 91 units of Ceiling Mounted Cassette Type
<Multi (4) way flow>
& Ceiling Mounted Built-in
(or Concealed Ceiling Unit) Type



Ren Ci Hospital in SINGAPORE

Total floor area is 4,500 m² and 5 stories. Construction was completed in 2002.

The VRV system was selected for this hospital because of the exceptional length of piping permitted between indoor and outdoor units (up to 100 m), which provides a wide degree of design freedom.

The virtually noiseless operation of the VRV system was also important to the customer, who expressed great satisfaction with the installation.



Air-conditioning capacity is 290 Hp, or 843 kW, 240 USRT.

Equipment

Outdoor units: 29 units

Indoor units: 70 units of Ceiling Mounted Cassette Type
<Multi (4) way flow>
2 units of Ceiling Mounted Duct
(or Concealed Ceiling Unit Large) Type
70 units of Wall Mounted Unit Type

