



01

## Installed System

### Outdoor unit

Air-cooled Y series



PUHY × 75

Air-cooled S series



PUMY × 133

### Indoor unit

Ceiling Concealed

PDFY × 602  
PEFY × 49

Ceiling Suspended

PCFY × 19

### Controller

Centralized Controller



GB-50A × 16

Centralized Control Software

TG-2000A × 1

Local Remote Controller

PAR-FL32MA × 604

PAR-FA32MA × 604

PAR-21MAA × 65



## Q Langsuan Condominium, Bangkok, Thailand

### The Challenge

This building was originally designed with water-cooled chiller system for a hotel and serviced apartment type building. In Thailand, the project consultant and designer would mainly select water-cooled chiller system, due to their familiarity to the system. In late 2007, while the ground and foundation of the building had already been under construction, the concept of this market building was changed to "for-sale condominium," even though the project owner concern about the difficulty of managing air-conditioning system charges for such split apartment unit usage. And so, originally rejected CITY MULTI multi-split system was re-proposed. The problem of our design in 2008, when CITY MULTI was back into the project, was the public corridors of all apartment floors, which have to be air-conditioned but there was no space in-between floors to install outdoor units.

### The Solution

No other VRF system was able to solve the problem without requiring some serious structural design changes. Normally a building at such construction stage is impossible to change design or A/C system. However, the switching from water-cooled chiller system to CITY MULTI did not interfere in the original architectural and structural design of the building almost at all. In fact, the building actually gained more public space. Overall, the change was made so smoothly with cooperation of the owner, designer, and consultant.

Also, the extra vertical height extending mechanics made it possible to install units on top floor and parking area located on the 7th floor. This is for the first time in Thailand, such long vertical distance piping installation is done for VRF system.

In addition, this building has been designed A/C automation system with our TG-2000A and GB-50A. Monitoring the system would be managed by the building management office.

