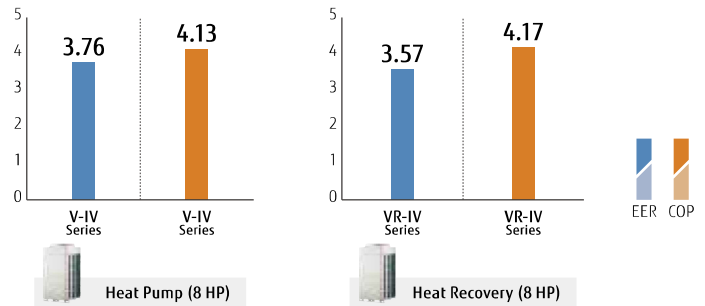


# Features

# High-efficiency

High-efficiency is achieved significantly by the use of a DC twin-rotary compressor, inverter technology, and a large heat exchanger.



\* These specifications are determined by ducted combination.



## High-efficiency design with top-class SEER/SCOP

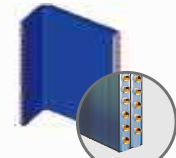
All the VRF Series, including the J-IVL Series, have DC technology to achieve high-efficiency operation. This enhances the durability and reliability of the VRF Series.



1 DC fan motor



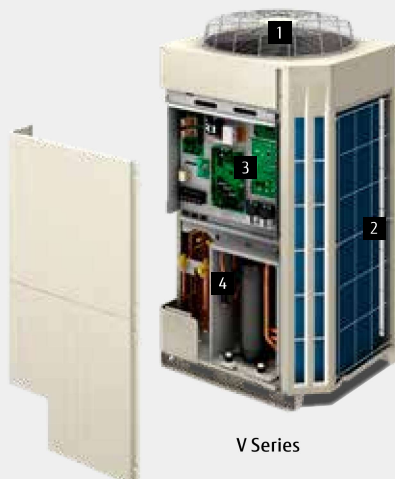
3 DC inverter control



2 Large heat exchanger



4 Subcooling heat exchanger



1 3-phase DC fan motor



3 Sine-wave DC inverter control



2 Large heat exchanger



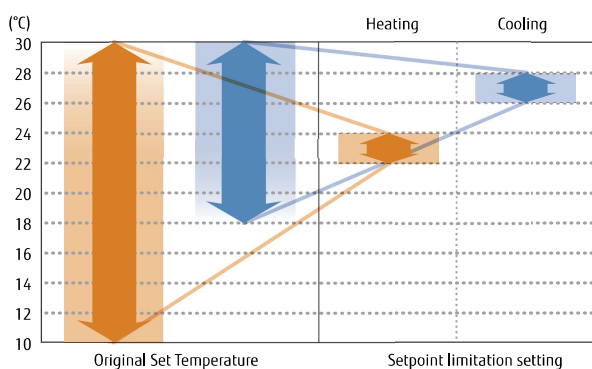
4 Subcooling heat exchanger

## Efficient control of operation



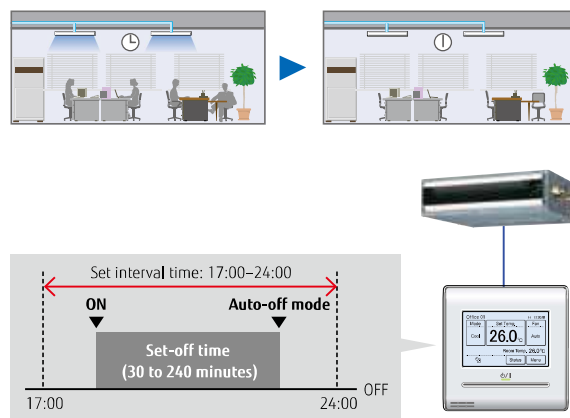
### Setting temperature range limitation

Sets the minimum and maximum limits on room temperature to establish an optimum balance between energy-saving performance and a comfortable environment.



### Auto-off timer

The wired remote controller is equipped with an auto-off timer function that automatically stops operation after a fixed period of time has elapsed from the start of operation to avoid wasting energy. The function also allows you to set the interval for stopping operations.

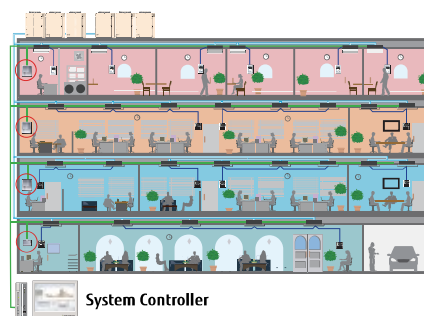


### Energy-saving management

A variety of energy-saving operations can be set and managed depending on the season, climate, and time period. Excellent energy-saving operation using the system controller.

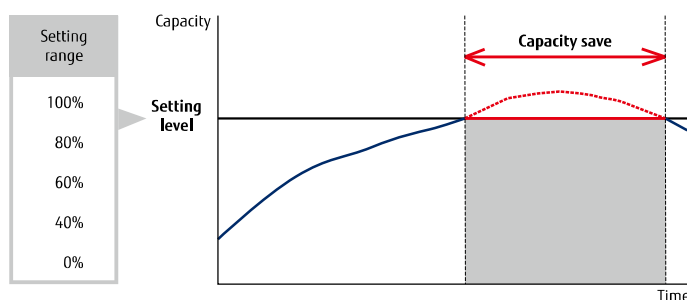


Screen image shows Energy Manager software (option)



### Capacity-saving mode

Operation capacity can be reduced in 5 steps from the rated capacity. This mode cuts down on peak power consumption and eases the maximum load on the unit.

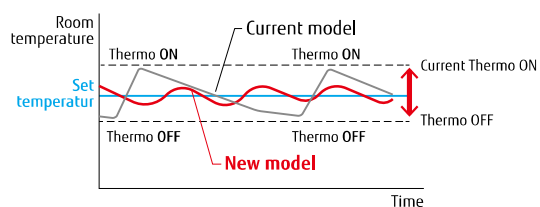






## Intelligent refrigerant control

Fujitsu General is proposing outdoor units equipped with refrigerant control function. The refrigerant control operates with subtle control corresponding to the heat load of the room and offers a more comfortable environment. The refrigerant control can also provide increased energy savings.



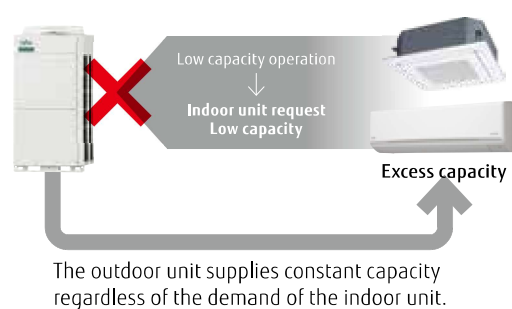
### Current refrigerant control

Thermostat-ON/OFF occurs frequently.  
→ Frequent changes in room temperature interfere with comfort. The compressor starts and stops repeatedly, wasting energy.

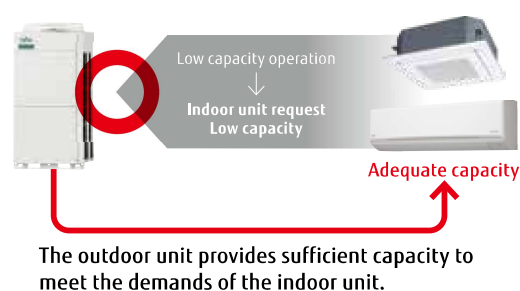
### New refrigerant control

The thermostat is turned on and off less frequently than under current control to maintain the room temperature at the target temperature. Compared to current control, the compressor will run longer, thus saving energy.

### Previous model



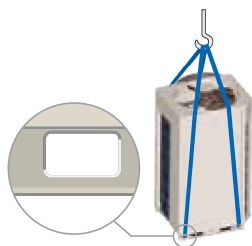
### New model



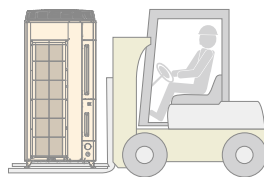
\* The improvements due to the control and the actual sine wave vary depending on the combination of the indoor unit and system operating conditions.

# Easy Installation

## Easily transported



**A lifting strap can be hooked onto an outdoor unit**  
Design of outdoor unit allows for lifting straps to be used



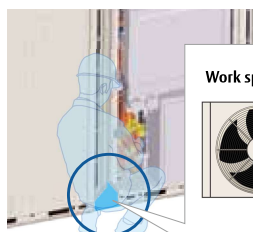
**Transportable by forklift**  
The outdoor unit can be lifted and transported by forklift.



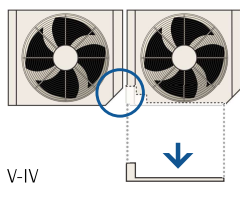
**Fits into a small elevator.**

## Easy access

The removable L-shaped front panel provides more room for installation and service work. Multiple installations can be performed easily and efficiently even in tight spaces.



**Work space expanded**



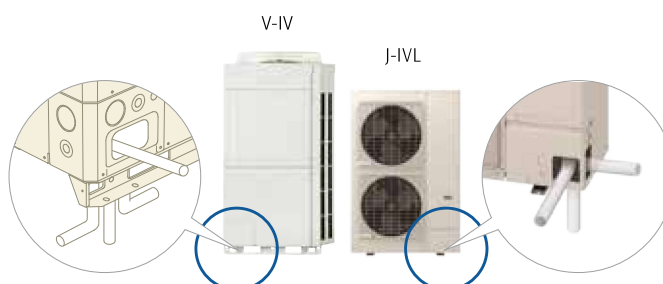
V-IV



**Front access reduces installation intervals**

## Flexible pipe connection

Piping and wiring can be accessed from the front, left, right, and bottom.



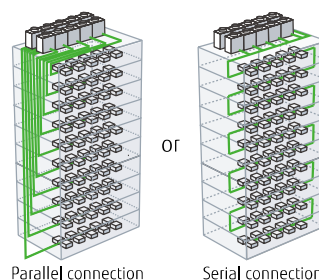
V-IV

J-IVL



## Simplified wiring work

The communication wiring can be installed seamlessly among indoor, outdoor, and RB units, which makes the installation of the wiring system easier.

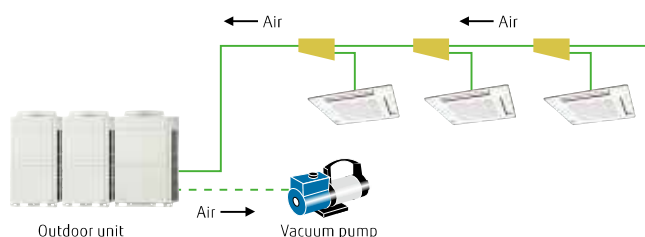


Maximum wiring length:  
**3,600 m**

Note: The automatic address setting is not available on a serially connected multiple refrigerant system.

## Vacuum mode function for easy evacuation

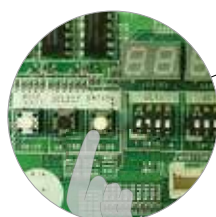
The vacuum mode function enables all expansion valves of an indoor unit to be opened fully, allowing for easier evacuation of air inside pipe lines and indoor units.



## Automatic address setting

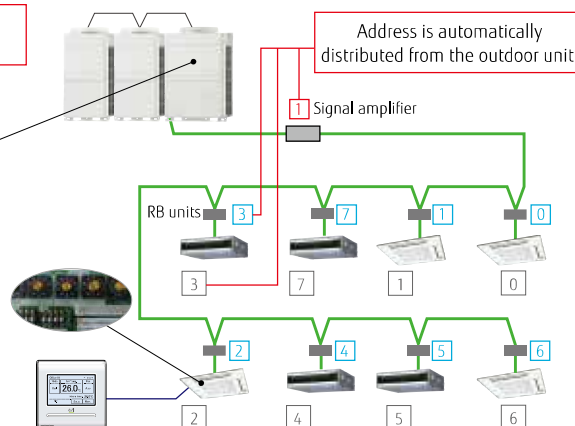
Addresses of connected indoor units, RB units, and Signal amplifier can all be set automatically from the PCB in the outdoor unit.

Address is set automatically by the outdoor unit.



Press the push button on the outdoor unit.

Addresses can be set manually from an indoor unit or a remote controller.



## Easy commissioning with Tools

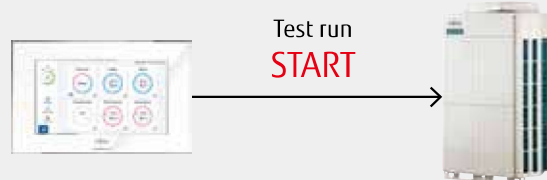
### • Service Tool (UTY-ASGXZ1)

The Service Tool checks the refrigerant temperature and pressure, and the operating status of the electronic expansion valves, making it easy to determine if the units are connected properly.



### NEW • Central Remote Controller (UTY-DCGYZ3)

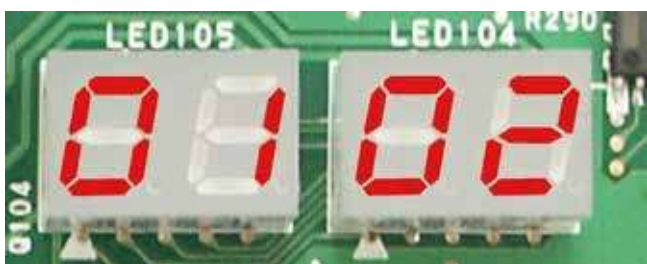
After the VRF system has been installed. Conveniently, the "test run" required to verify proper system operation can be performed from a nearby Central RC.



# Easy Service and Maintenance

## Designed for easy maintenance

A 7-segment indicator lamp panel provides detailed information on the function setting status, refrigerant temperature and pressure, compressor operation time, and other factors, facilitating self-diagnosis for each unit.

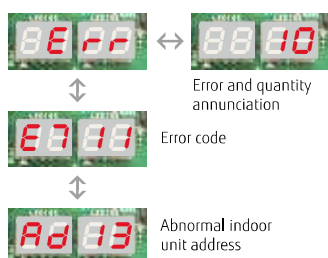


### Easy-to-read 7-segment indicator lamp

Shows the following detailed operation and error status without need of any special tools.

### Error status can be checked on an outdoor unit's display

- System operation mode
- Discharge temperature and pressure
- Compressor operation status
- Address, type, and number of outdoor unit



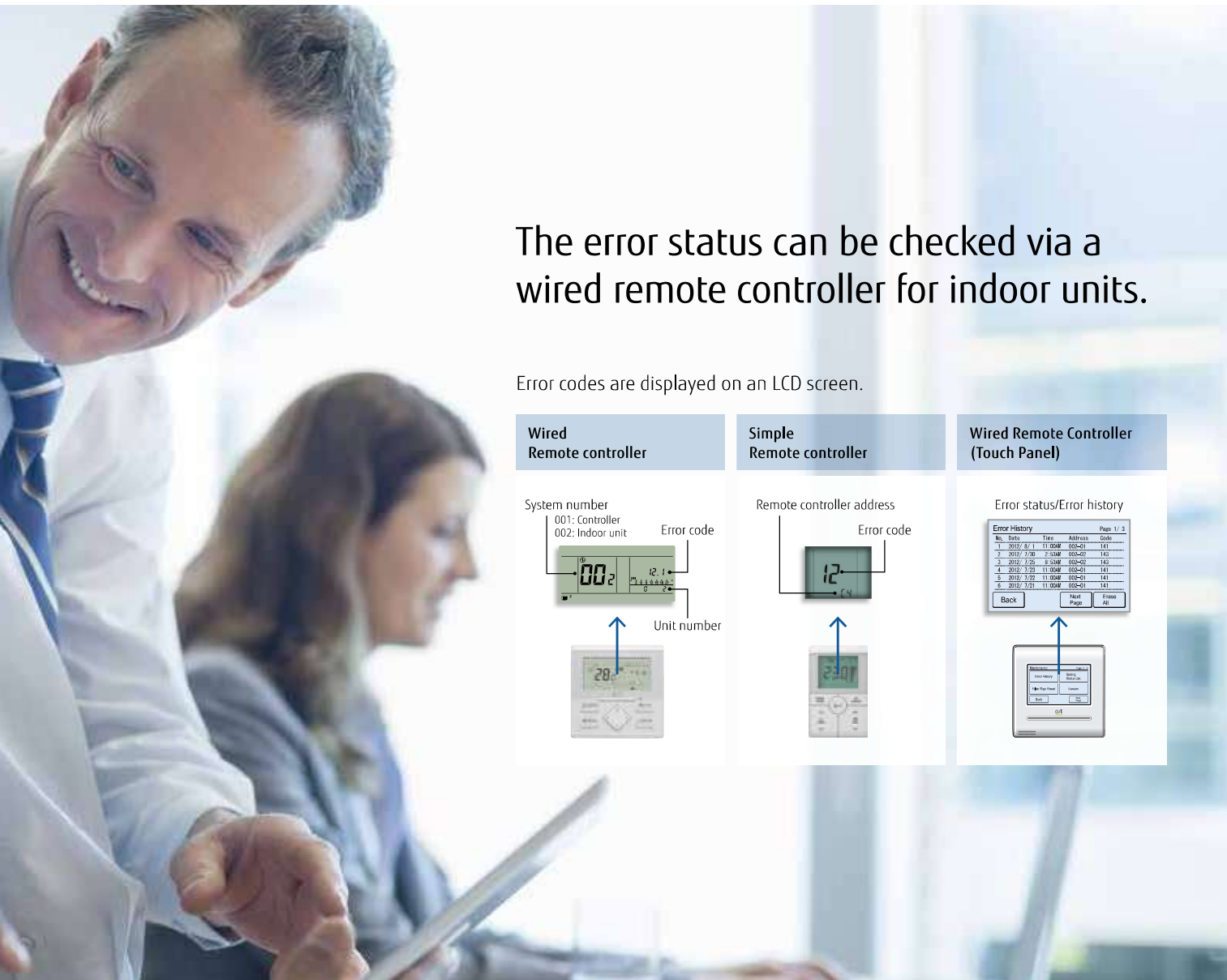
- Error status can easily be checked on an outdoor unit's display.

### Movable PCB panel

Enables easier access behind the PCB for maintenance work.







The error status can be checked via a wired remote controller for indoor units.

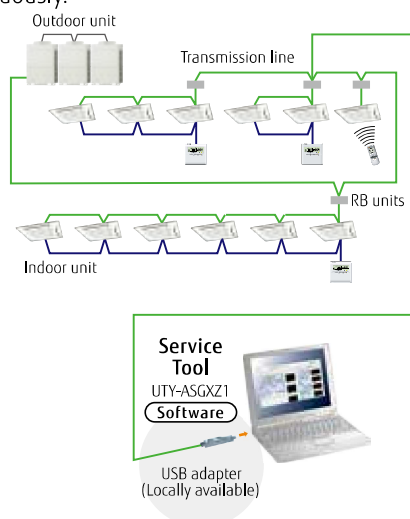
Error codes are displayed on an LCD screen.

Wired Remote controller	Simple Remote controller	Wired Remote Controller (Touch Panel)																																			
<p>System number</p> <p>001: Controller 002: Indoor unit</p> <p>Error code</p> <p>Unit number</p>	<p>Remote controller address</p> <p>Error code</p>	<p>Error status/Error history</p> <table border="1"> <caption>Error History</caption> <thead> <tr> <th>No.</th> <th>Date</th> <th>Time</th> <th>Address</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2012/8/1</td> <td>11:00AM</td> <td>002-01</td> <td>141</td> </tr> <tr> <td>2</td> <td>2012/7/30</td> <td>2:53AM</td> <td>002-02</td> <td>143</td> </tr> <tr> <td>3</td> <td>2012/7/25</td> <td>8:33AM</td> <td>002-02</td> <td>143</td> </tr> <tr> <td>4</td> <td>2012/7/23</td> <td>11:00AM</td> <td>002-01</td> <td>141</td> </tr> <tr> <td>5</td> <td>2012/7/22</td> <td>11:00AM</td> <td>002-01</td> <td>141</td> </tr> <tr> <td>6</td> <td>2012/7/21</td> <td>11:00AM</td> <td>002-01</td> <td>141</td> </tr> </tbody> </table>	No.	Date	Time	Address	Code	1	2012/8/1	11:00AM	002-01	141	2	2012/7/30	2:53AM	002-02	143	3	2012/7/25	8:33AM	002-02	143	4	2012/7/23	11:00AM	002-01	141	5	2012/7/22	11:00AM	002-01	141	6	2012/7/21	11:00AM	002-01	141
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6	2012/7/21	11:00AM	002-01	141																																	

## Error diagnosis by Service tool

### Connection to Service tool

- A detailed operation status and recent error history can be checked and analyzed using Service tool.
- The last 5 minutes of operation status can be recorded continuously.



## Remote monitoring

The Web Monitoring system enables the monitoring of the system's operation status at any time via the internet to ensure trouble-free operation. The operating VRF network system in the building can be monitored real time over the internet.

