



COMMERCIAL AIR CONDITIONERS

R410A All DC Inverter VRF V5 X Series 50/60Hz

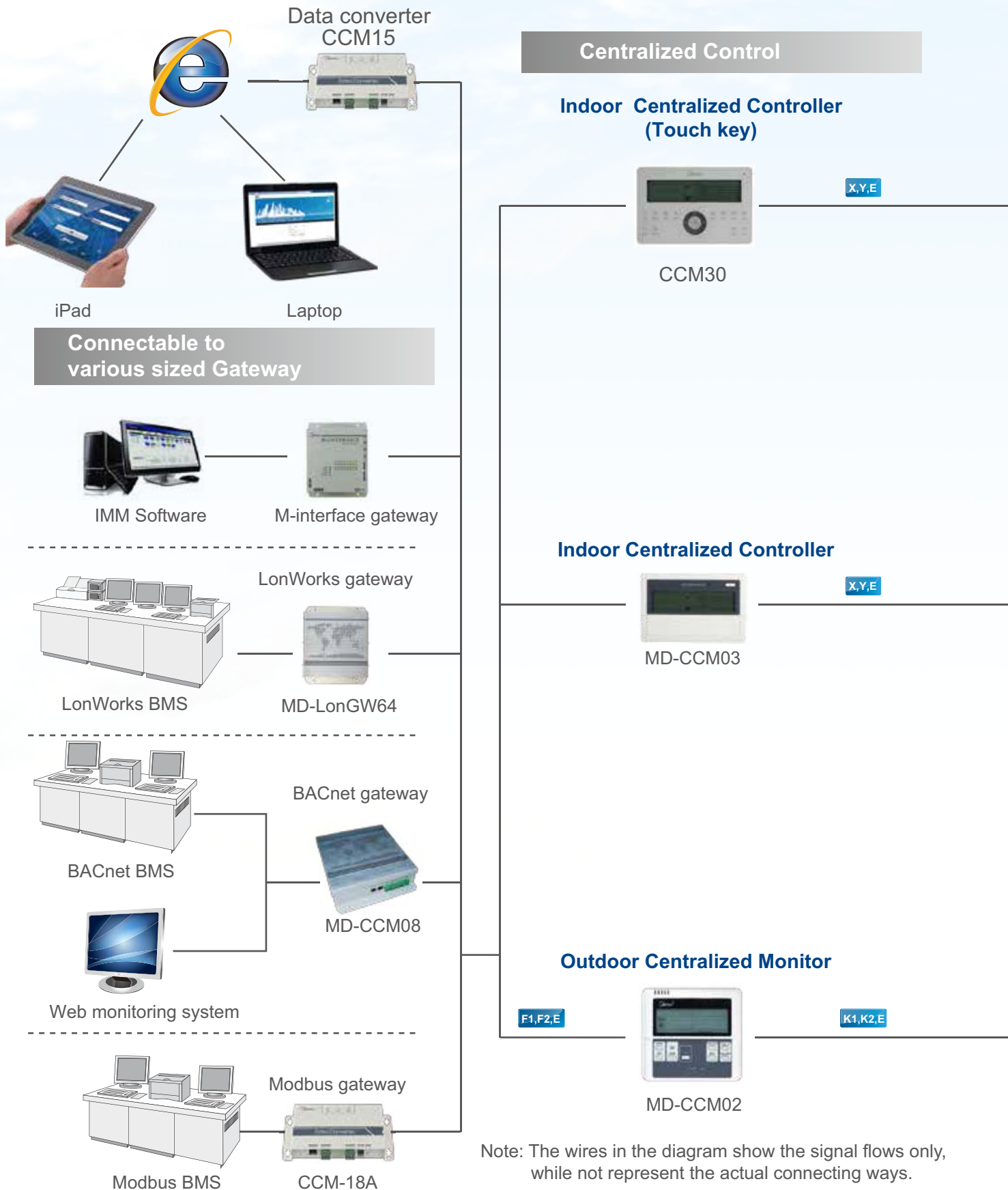


Control Systems →



Control Systems

Network Control



Individual control

Wired controller

KJR-10B KJR-86C
KJR-12B KJR-120B
KJR-90A KJR-90C
KJR-29B KJR-120C



Remote controller

RM02
RM05
R05
R51
R71



Accessories

Card-key Interface MD-NIM05



MD-NIM05



Card-key



Wired controller

Infrared Sensor MD-NIM09



Infrared control box



Infrared sensor module



Wired controller

Outdoor units

Comparison of Controllers

Item		Remote controller			Wired Controller				Centralized Controller		
Model name		RM05/ RM02	R51/ R71	R05	KJR-10B /KJR-12B	KJR-120B	KJR-90A /KJR-86C	KJR-29B KJR-90C	CCM30/ MD-CCM03	MD-CCM09	KJR- 90B
MAX. controllable IDU		/			1	1	1	1	64	64	16
A/C control function	On/Off	●	●	●	●	●	●	●	●	●	●
	Operation mode setting	●	●	●	●	●	●	●	●	●	●
	Fan speed setting	●	●	●	●	●	●	●	●	●	-
	Room temp. setting	●	●	●	●	●	●	●	●	●	-
	Vertical swing	●	●/-	●	-	-	-	-	-	-	-
	Horizontal swing	●	●	●	●	●	●/-	●	●	●	-
	Air direction	●/-	-/●	●	-	-	-	-	-	-	-
	Economic mode	●	●	●	●	●	-	-	-	-	-
	Central setting	-	-	-	-	-	-	-	●	●	●
	Keyboard lock	●	●/-	●	●	●	-	●	●	●	-
	Mode lock	-	-	-	-	-	-	-	●	●	-
	Remote signal receiving	-	-	-	-	-	-	●	-	-	-
	26°C shortcut setting	-/●	-	-	-	-	-/●	-	-	-	-
	Silent mode	-	-	-	-	●	-	●	-	-	-
Display	Backlight	●	●/-	●	-/●	●	-/●	●	●	●	●
	Current time	●/-	-	●	●/-	●	●/-	-	-	●	-
	RC prohibition	-	-	-	-	-	-	-	●	●	-
	Address	-	-	-	-	-	-	-	●	●	-
	Error code	-	-	-	-	●	-	-	●	●	-
	Room temp.	-	-	-	-	-	-/●	-	●	●	-
Timer	Period	-	-	-	-	-	-	-	-	Week	-
	On/Off per day	-	-	-	-	-	-	-	-	4	-
	On/Off per week	-	-	-	-	-	-	-	-	28	-
	On/Off timer	●	●	●	●	●	●/-	●	●	●	-
Control	FOLLOW ME	-/●	-	-	-/●	-	-	●	-	-	-
	Emergent stop	-	-	-	-	-	-	-	●	-	-
	Emergent start	-	-	-	-	-	-	-	●	-	-
	Address setting	●	-	-	●/-	-	-	●	-	-	-
	BMS access	-	-	-	-	-	-	-	●	-	-
	Control via internet	-	-	-	-	-	-	-	●	-	-
	Air filter cleaning reminding	-	-	-	●/-	●	-	●	●/-	-	-

● : Available controller functions

— : Not available controller functions

Wireless Remote Controller



RM02



RM05



R05



R51



R71

Functions

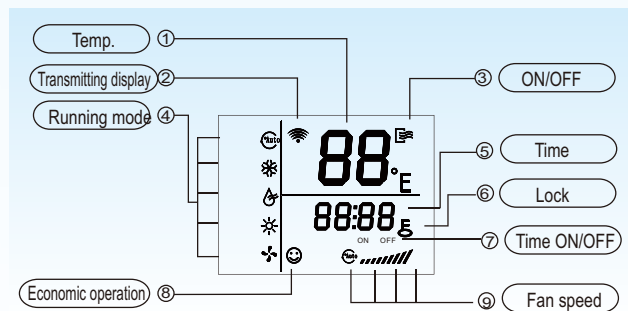
Portable device

The wireless remote controller is a portable control device that enables users to control the A/C anywhere within a distance of 11m.



Simplified user interface

Users can synchronize the air conditioners' parameters with the display panel on the wireless remote controller to precisely control a room's environment.



Background light

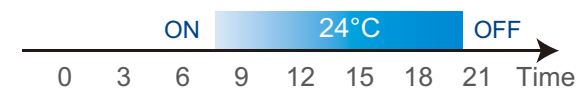
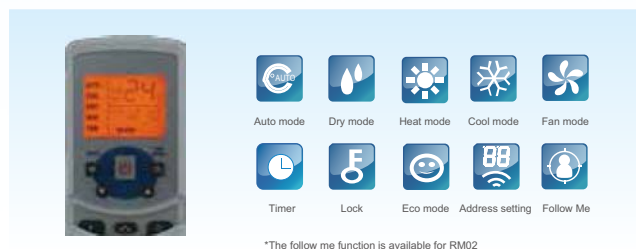
The background light allows users to operate the device in a dark room. The device lights up when a button is pressed, and turns off when a given operation is completed.

Built-in timer

The built-in daily timer offers the convenience of automatically starting and stopping the system at set times.

Setting addresses

Besides the machine's auto addressing function, users can set the indoor unit's address on the wireless remote controller RM05/RM02.



The indoor unit is set to work in automode from 8:00 to 20:00



Specifications

Model	RM02	RM05	R05	R51	R71
Dimensions (H×W×D)(mm)	150×60×15	150×65×20	150×65×20	140×60×15	125×42×27
Power (V)	1.5V(LR03/AAA)×2				

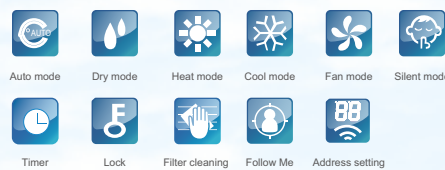
Wired Controller



KJR-29B



KJR-90C

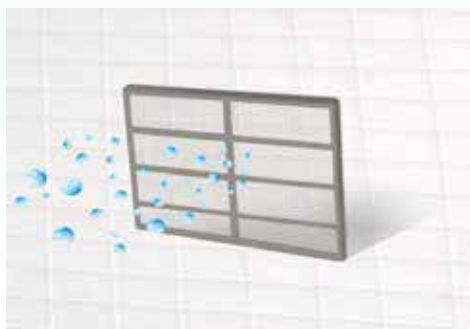


Functions

Air filter cleaning reminding

The wired controller records the total running time of the indoor unit. When the accumulated running time reaches the pre-set value, it will remind users need to clean the air filter of the indoor unit.

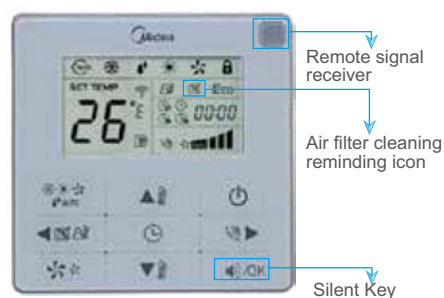
Clean the filter regularly can keep indoor air fresh and clean, good for your health.



*Available for KJR-10B/KJR-29B/KJR-90C model.

Silent mode

Under the cooling, heating and auto mode, when operate the silent mode, it can reduce the running noise through setting the fan speed to low. This will help you bring a quieter environment.



KJR-29B
(Touch key)

Remote signal receiving function

KJR-29B and KJR-90C provide a signal receiver for remote controller. Signal from remote controller can be received by a wired controller, then sent to the indoor unit and it conveniences to control.

Locking wired controller

The locking function can be used to prevent other people from using the controller.

Specifications

Model	29B	90C
Dimensions (H×W×D)(mm)	120×120×20	86×86×16.5
Power (V)	DC 5V	

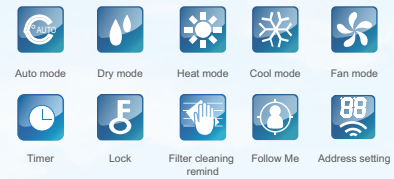
Wired Controller



KJR-10B

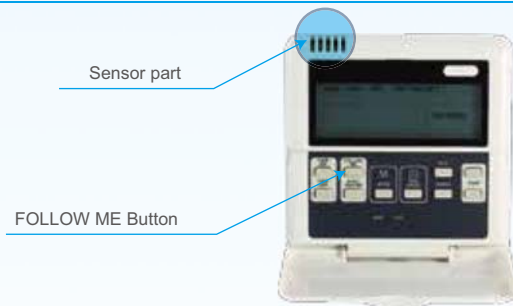


KJR-12B



Functions

Follow me



With the FOLLOW ME function, the wired controller can detect the air temperature at the user's altitude instead that of the ceiling or floor. This helps making the room environment comfortable and the temperature accurate.

*Follow me function is available for KJR-12B, KJR-29B and KJR-90C model.

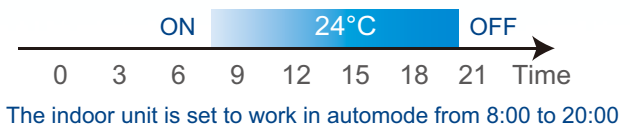
Setting addresses

With the address setting function, and easy for the installation and future service. The service person can set the address for indoor unit by KJR-10B, KJR-29B and KJR-90C.



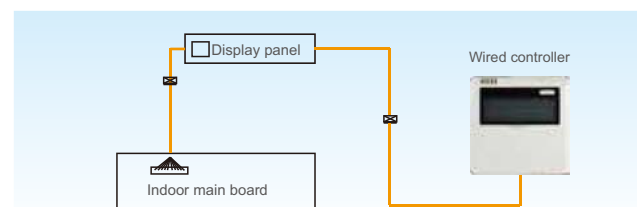
Built-in timer

Built-in daily timer offers the convenience of automatically starting and stopping the system at set times.



Easy connection

The wired controller conveniently connects to the indoor unit's display panel via connecting wire.



Specifications

Model	10B	12B
Dimensions (H×W×D)(mm)	120×120×15	120×120×15
Power (V)	DC 5V	

Wired Controller



KJR-90A



KJR-86C



KJR-120B

Functions

Features

- Small and easy to install
- Suitable for all types of indoor units
- Can be stored in a mounting cabinet

Built-in timer

Built-in daily timer offers the convenience of automatically starting and stopping the system at set times.



KJR-90A

Mode setting

Mode-button hidden controller: Press the temperature buttons "▲" and "▼" simultaneously for 3 seconds to select the operation mode: COOL and HEAT. The design is suitable for hotels, hospitals, schools and other similar types of buildings.



26°C Shortcut setting

Combination key

Selecting mode

KJR-86C

Auto mode

For V4 plus R series used only. Under the auto mode of V4 plus R system, it can automatically switch to COOL or HEAT mode according to the temperature difference value between Tf(indoor temperature) and Ts(setting temperature)



KJR-120B

Specifications

Model	90A	86C	120B
Dimensions (H×W×D)(mm)	90×86×13	86×86×18	120×120×20
Power (V)	DC 5V		

Wired Controller

HRV Wired Controller

KJR-27B



Functions

HRV controller

KJR-27B is individually designed for HRV—Heat Recovery Ventilator. The HRV can work in the following modes: exhaust, air supply, bypass, heat exchange, and auto.

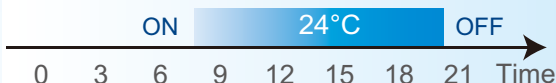
**AUTO->HEAT EXCHANGE->
EXHAUST->BYPASS->AIR SUPPLY**

Built-in timer

Built-in daily timer offers the convenience of automatically starting and stopping the HRV at the set times.

Setup screen example

Set to wednesday: 8:00 to 20:00



Specifications

Model	KJR-27B	
Dimensions(H×W×D)(mm)	120×120×15	
Power (V)	198-242V(50/60Hz)	

Weekly Schedule Controller

MD-CCM04

KJR-120C



Functions

Simple design

Weekly schedule wired controller has different appearances to choose. They can query the indoor temperature and the setting parameters of the weekly schedule. They can show the error codes and running state of the indoor unit. With the LCD backlight, and enables users to operation the device in a dark room.

Delay function

The function is specially designed for a person who is working overtime. During the weekly schedule running, press Delay button, then it will delay 1 hour or 2 hours to turn off the air conditioner.

Weekly schedule

With the weekly schedule function, and users can set up 4 periods schedule per day to avoid setting frequently. During operation, can change the mode, fan speed, temperature, and then the next startup will run at the status according to the latest setting.

Specifications

Model	MD-CCM04	KJR-120C
Dimensions (H*W*D)(mm)	120×120×15	120×120×20
Power (V)	DC 5V	DC 12V

Centralized Controller

Indoor Centralized Controller



MD-CCM03



CCM30



Cool mode



Swing



Filter cleaning remind



Heat mode



Keyboard lock



Remote controller lock



Timer



Fan mode



Cooling lock



Heating lock



Net connection

Functions

Centralized control

The centralized controller is a multifunctional device that can control up to 64 indoor units within a maximum connection length of 1,200m.

The device connects to the master outdoor units of Midea's newly designed products to simplify and centralize the wiring configuration. The 2 ways of connecting are as follow:



*If it connects to X,Y,E ports of master ODU, ODU must be set to auto addressing mode.

Three lock modes

Centralized controller provides a superior way to manage the indoor units. Users are able to make their own choice from locking the wireless controller, locking the running mode or lock the centralized controller's keyboard as they wish.

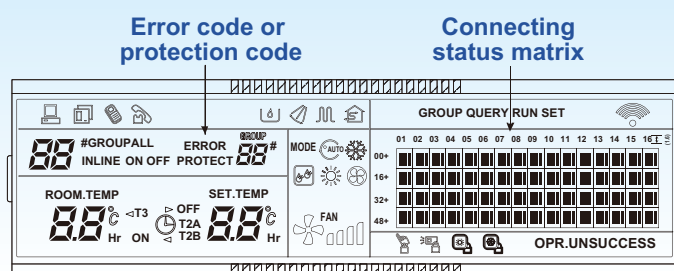


Indoor unit working status display

The centralized controller displays indoor units' working status and error codes so users can easily identify faults via checking the error codes table in the user's manual before contacting a service engineer.

Air filter cleaning reminding function

The air filter cleaning reminder function is only available on the touch-key central controller CCM30. The "FL" icon indicates that the air filter in a given indoor unit needs cleaning.



Air filter cleaning reminding icon



CCM30

Functions

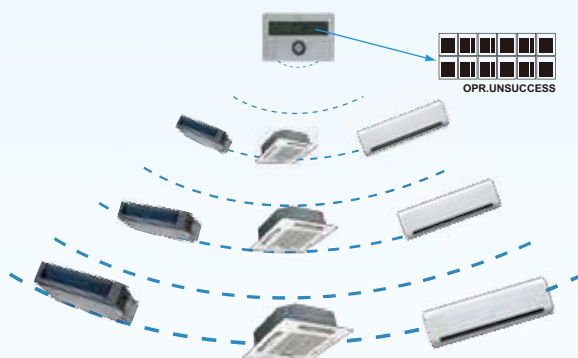
Stylish design

CCM's stylish design suits high-end environments. The keyboard lock function is used to prevent operational mistakes.



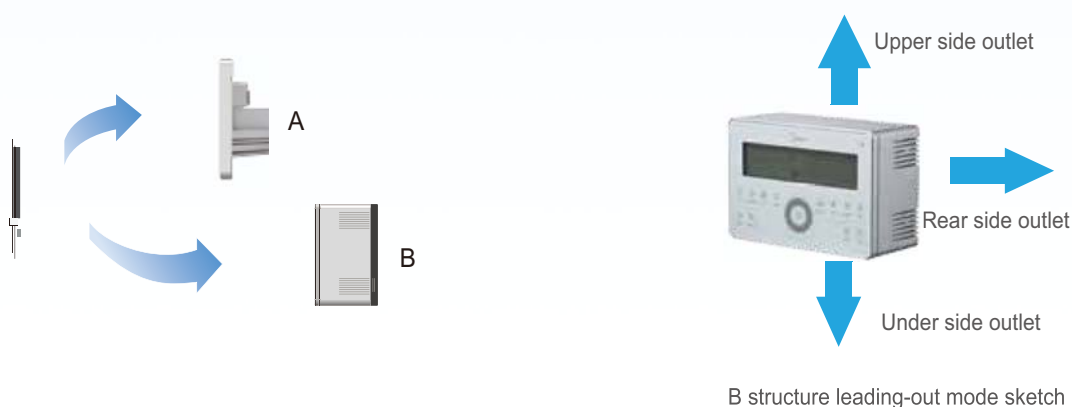
Single/unified control

The control object can be either a single unit or all units, which vastly simplifies the control process. Operation signal feedback ensures that all units are working in the correct mode.



Easy installation

Centralized controller offers two different appearances to mostly suit the installation. The A structure must be embedded into the wall and the B structure doesn't need. Both of them are easy to operate.



Control system

Access to network monitoring

The centralized controller is able to bridge up to 64 indoor units on the network monitoring and building management systems.



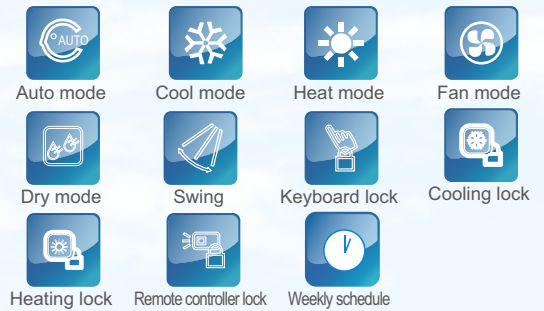
Specifications

Model	MD-CCM03	CCM30
Dimensions (H*W*D)(mm)	179×119×74	180×122×78 and 180×122×68
Power (V)	198-242V(50/60Hz)	

Centralized Controller

Weekly Schedule Centralized Controller

MD-CCM09



Functions

Weekly schedule

MD-CCM09 can include up to 64 indoor units in the weekly schedule. Users can set up to 4 periods per day, and select the desired running mode and room temperature. The operating object can be a single indoor unit or all the indoor units.

	8:00	16:00	23:59
Sun	28°C	22°C	24°C
Mon	26°C	22°C	17°C
Tue	26°C	22°C	17°C
Wed	26°C	22°C	17°C
Thu	26°C	22°C	26°C
Fri	26°C	22°C	26°C
Sat	28°C	off	24°C

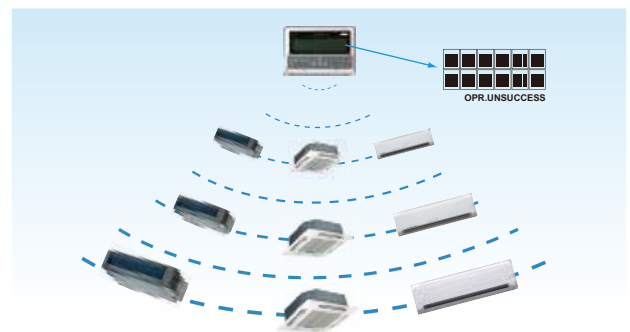
Three lock modes

Centralized controller MD-CCM09 provides a superior way to manage the indoor units. Users are able to make their own choice from locking the wireless controller, locking the running mode or lock the MD-CCM09's keyboard as they wish.



Single/unified control mode

The control object can be either a single unit or all units, which vastly simplifies the control process. Operation signal feedback ensures that all units are working in the correct mode.



Indoor unit working status display

MD-CCM09 displays indoor units' working status and error codes so users can easily identify faults via checking the error codes table in the user's manual before contacting a service engineer.

*If it connects to XYE ports of master ODU, ODU must be set to auto addressing mode.

Error code or protection code

Current

88

Online

ALL

Protect

Set. temp

88

°C

Mode

Auto

☀

☀

☀

☀

☀

☀

☀

☀

128

129

130

131

132

133

134

135

88

88

88

88

88

88

88

88

°C

°C

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°C

°C

°C

°C

°C

Week

Sun

Mon

Tue

Wed

Thu

Fri

Sat

88

18

28

28

38

38

°C

°C

°C

°C

°C

°C

Far

☀

☀

☀

Connecting status matrix

Query

Set

Opr. unsuccess

00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63

Weekly Timer

Off

🕒

🕒

🕒

🕒

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Centralized Controller

Unified On/Off Controller

KJR-90B

Unified controller design with graceful appearance and explicit panel.
Can control single or group indoor units.



Functions

Unified control

KJR-90B offers on/off and heating/cooling functionality for indoor units based on preset temperatures to ensure easy management.



Centralized control

KJR-90B can be used to centrally control up to 16 indoor units.



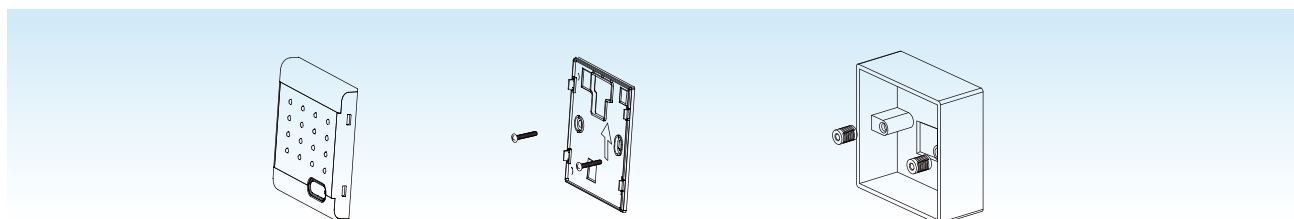
Light indicator

The LEDs on KJR-90B indicate the indoor units' running status for easy fault detection. The lights switch off automatically to save energy once a given operation is complete. The indicators are as follows:

Light	Blue	Red	Flash
Single On/Off key	Cooling/Fan	Heating	IDU Error
Unified On/Off key			EEPROM Error

Easy installation

KJR-90B can be easily mounted on the built-in cabinet:



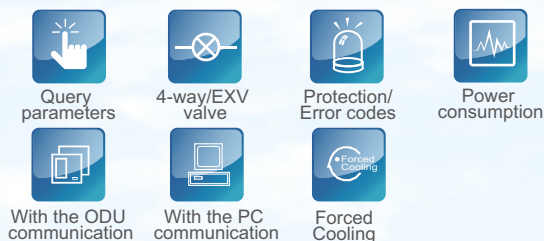
Specifications

Model	KJR-90B
Dimensions (H*W*D)(mm)	90×86×8
Power (V)	DC 5V

Centralized Monitor

Outdoor Centralized Monitor

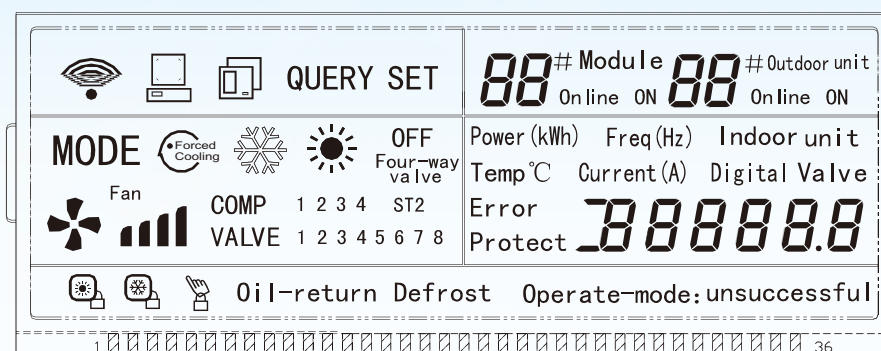
MD-CCM02



Functions

ODU parameters display

MD-CCM02 enables users to easily check outdoor units' running status, including frequency, temperature, current, pressure, protection codes and error codes.



Graph 2 LCD Screen

Access to network monitoring

MD-CCM02 can connect up to 8 refrigerant systems and 32 outdoor units to the network system.



Specifications

Model	MD-CCM02
Dimensions(H×W×D)(mm)	120×120×15
Power (V)	198-242V(50/60Hz)

Central Control Software



Central Control Software

IMM(Intelligent Manager of Midea) 4th Generation Network Control System



Functions

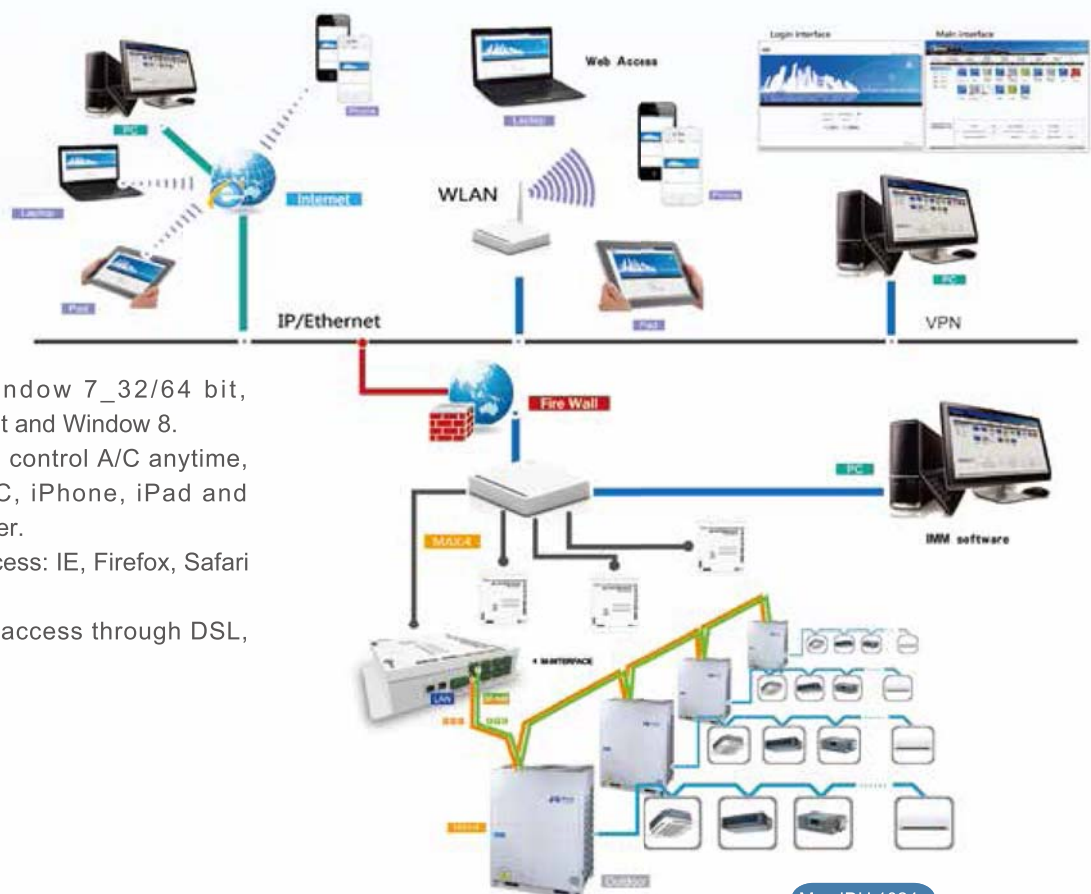
Intelligent Manager of Midea, designed specifically to control VRF systems, is based on a centralized format and dedicated to the complete control and monitoring of all the system's functions. It can be used as a flexible multi-purpose system and applied to a variety of needs, according to the scale, purpose and control method of each building.

- Up to 4 M-interfaces, 64 refrigerant systems, 1,024 indoor units, and 256 outdoor units can be controlled by one PC.
- Web Access
- User friendly operation
- Central building monitoring and control
- Energy saving management
- SMS modem (optional)
- Electricity charge distribution
- Schedule management
- Low-load operation indicate
- Generate operational history reports (daily, weekly, monthly)
- Fault display & Warning message
- Air filter cleaning reminding function
- Emergency stop and Alarm signal output

Network Control Application

Web Access

Local



- Can run on Window 7_32/64 bit, Window XP_32 bit and Window 8.
- Can monitor and control A/C anytime, anywhere by PC, iPhone, iPad and notebook computer.
- Support WEB access: IE, Firefox, Safari and Chrome.
- Enables remote access through DSL, VPNs and so on.

Various Managements



Simple Operation and Management

Click & Operate, a user-friendly interface allows even non-experts to perform the building management system easily.

Data Management

Operational information of individual indoor units are monitored, allowing for distribution of power consumption at outdoor units.

Stores operation data on multiple systems and displays it in graphical format for visual management.

Uses IMM software to generate tenant reports and help building owners bill for energy use.

Electricity Charge Distribution(Patented)

Provides information on proportional electrical power distribution to optimize electricity consumption management.

Uses software to calculate electric power proportional distribution, output and save electricity consumption data for each indoor unit (or group) which is connected to the intelligent manager.

Applies the patented Midea Calculation Method to calculate consumption rates according to capacity demand which is based on various parameters: setting temperature, room temperature, running mode, rated HP, public areas, unused rooms, and nighttime use; outputs this information on a charge calculation sheet to evenly divide power consumption charges among tenants.

Highlights



Web Access function

With the web access function, a PC, laptop computer or a smart phone can be used as a remote controller.



Visual Navigation

Clicking the jump button will display a list of all available screens. Clicking the back button will return to the previous screen.



Energy Saving Management

Based on a predetermined schedule, the Intelligent Manager executes capacity control and intermittent operations on all air conditioning units to maintain a high comfort index.



Data Backup

The M-interface will automatically back up data on the installed SD card (2GB) in case system failure occurs, such as: power failure or system dam. IMM software also stores the previous 3 months' operational data on the HDD.



Schedule Control

Automatically performs facility start/stop control, switches the operating mode, sets temperatures and enables/disables the remote control according to the present time schedule. 4 sections and 20 actions per day for each single unit or group.



Multiple Languages

Provides seven language settings:

English	French	Italian
Russian	German	Spanish
Simple Chinese		



Warning Message

The system can receive error messages from air conditioning units in more than one buildings or structures via public phone lines.

*Requires the Midea "SMS Modem" to send automatic warning messages to designated phone numbers.



Electricity Charge Distribution

Electricity charges can be easily divided when billing users for air conditioning power charges; for example, for tenants in a commercial building, offices in a rented building, or rooms in a hotel.

Weekly schedule control

- With weekly schedule function for iPad and Web function.
- Multiple sections in each day for single unit or group.
- Automatically performs facility start/stop control, operating mode, setting temperatures and according to the present time schedule.



Web features

- Query and control single unit or group.
- Weekly schedule setting: can set multiple sections in each day for single unit or group.
- Group user control : a user can use the same ID to manage hundreds of CCM15, when selecting the "As group user" button on the login page.
- History error: easy service and management with history error function.

Intelligent control

- The air conditioner remote control can be realized by mobile phone or tablet computer.
- You can query and control the running state of the air conditioner any time and any where and even make an appointment in advance.
- Can remotely turn off the air conditioner to avoid the power waste, when you are in a hurry to leave.



Accessories

BACnet® BMS Gateway

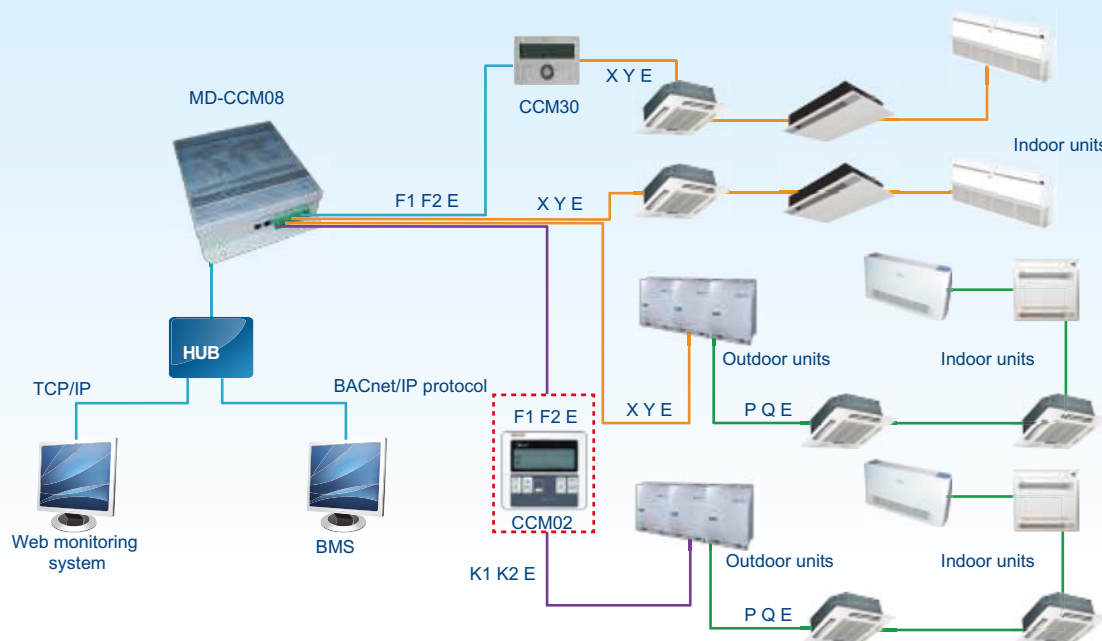
MD-CCM08

Contains 4 groups of RS485 communication ports and be able to connect up to 256 indoor units or 128 outdoor units to the BMS. Be free to connect to the BMS or not. Built-in WEB function.



Network example

Each port can connect to X Y E ports of IDU/ODU or the K1K2E ports of the outdoor units. Each port can also connect to one CCM03 or one CCM02 through F1F2E ports.



*If it connects to X Y E ports of master ODU, ODU must be set to auto addressing mode.

Monitoring units online

MD-CCM08 allows users to track units' operational status and change their running parameters on Internet Explorer for maximum control convenience.

Wide compatibility

CCM08 has a wonderful adaptability to the BMS

	Company	BMS software	Brand
1	SIMENS	APOGEE	
2	TRANE	Tracer Summit	
3	Honeywell	Alerton	
4	Schneider	Andover	
5	Johnson	METASYS	

Accessories

Modbus BMS Gateway CCM-18A

Supports Modbus protocol networks
Bridges the Midea central A/C system to BMS
Connect up to 64 or 16 indoor units and 4 outdoor units
Built-in WEB server function
*4 outdoor units must be in the same system

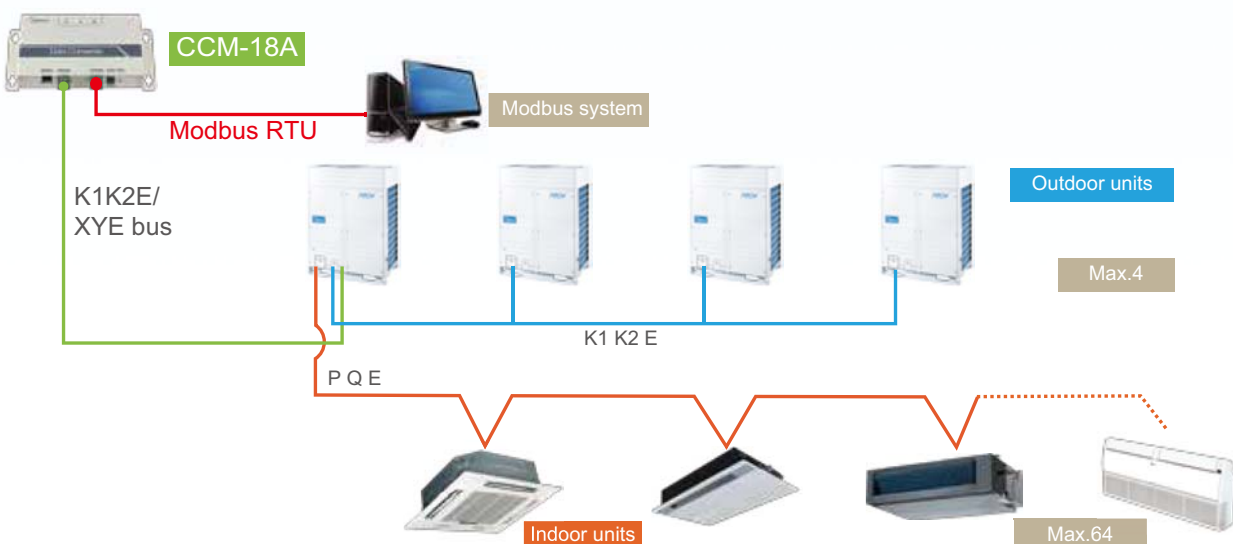


Network example

1) TCP connection method



2) RTU connection method



- *1. If it connects to XYE ports of master ODU, ODU must be set to auto addressing mode.
- 2. XYE and K1K2E must be connected hand by hand.

Config A/C System via Web



When the Modbus network is set, users can conveniently configure their A/C network system over the Internet using different TCP/IP browsers.

Accessories

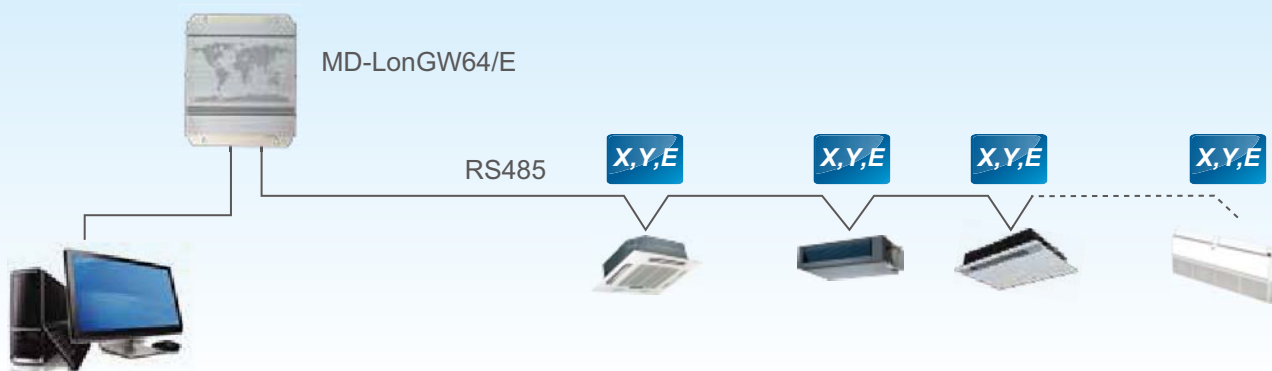
LonWorks® BMS Gateway MD-LonGW64

Compliance with LonMark protocol, and realizes the management and control of A/C.
Can connect up to 64 indoor units to the BMS.
Realizes non-polarity communication, and also the application can be download online.



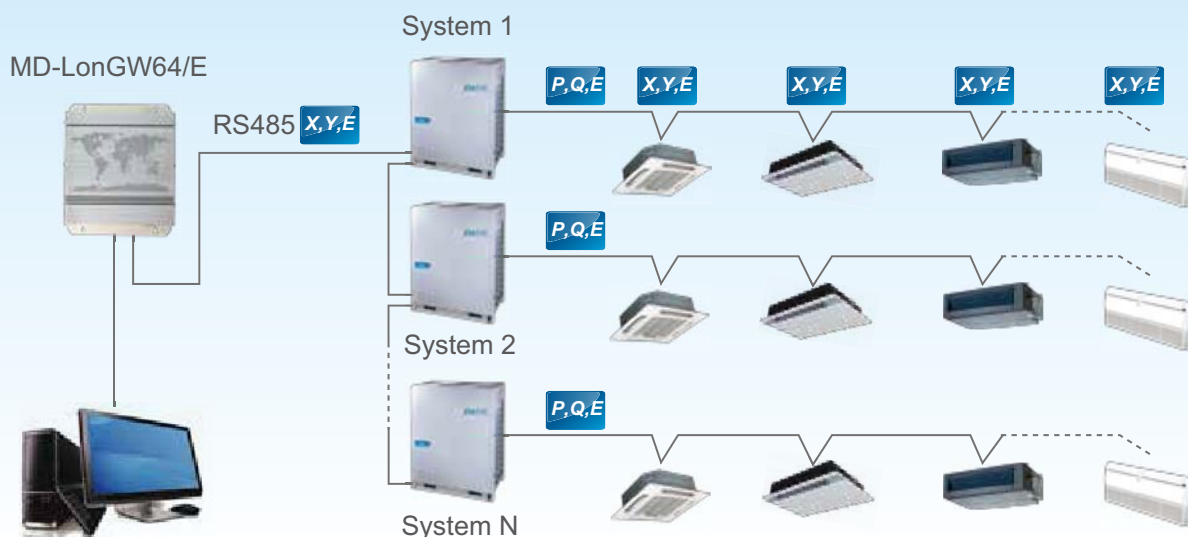
Network example

Connection method 1: Suitable for all of air conditioner systems and connect max.64 indoor units.



BMS system

Connection method 2: Only suitable for V4 plus system and connect max.64 indoor units.



BMS system

*If it connects to XYE ports of master ODU, ODU must be set to auto addressing mode.

Specifications

Model	MD-LonGW64
Dimensions (H*W*D)(mm)	319×251×61
Power (V)	177~265V AC(50Hz/60Hz)

Accessories

3-Phase Protector

HWUA/DPB71CM48

Detect the power condition and make the corresponding protecting action.

Protect the compressor from being damaged.

Automatically distinguish the abnormal power supply conditions and automatically recover.



HWUA DPB71CM48

Excellent reliability

The protector protects the entire system from power supply problems, and auto restart after recovery.

Specifications

Model	With over/under voltage function				Without over/under voltage function
	HWUA	DPA53CM23	HWUA	DPB71CM48	DPA51CM44
Power supply (V-N-Hz)	220~480V-3N 50/60Hz	208~480V-3N 50/60Hz	220~480V-3N 50/60Hz	380~480V-3N 50/60Hz	208~480V-3N 50/60Hz
Temp. range(°C)	-20 °C~50 °C	50Hz: -20 °C~60 °C 60Hz: -20 °C~50 °C	-20 °C~50 °C	-20 °C~50 °C	50Hz: -20 °C~60 °C 60Hz: -20 °C~50 °C
Rated operational power(VA)	2.9 VA	7 VA	2.9 VA	13 VA	13 VA
Over voltage	12%	12%	18%	18%	/
Under voltage	-12%	-12%	-12%	-12%	
Phase imbalance	8%	/	8%	8%	
Dimensions(W×H×D)(mm)	90×69×35	81×67.2×17.5	90×69×35	81×67×35	81×67.2×17.5

Digital Power Ammeter

DTS634/DTS636

Calculates power consumption.

Does not need adjusting after long-term use.

Corresponds one outdoor unit to one digital power meter.



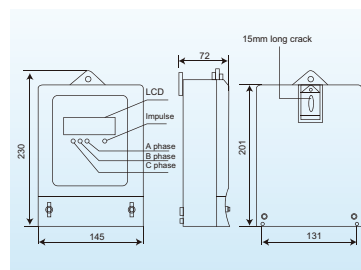
Low power consumption

The digital power meter consumes minimal energy.

Voltage circuit: less than 2W/10VA

Current circuit: less than 2.5VA

Indications and installation



The digital power meter is tested after manufacture so it can be immediately deployment and used on-site. The LED indicators and installation schematic are shown in the figure on the left.

Specifications

Model	DTS634/DTS636
Dimensions (H*W*D)(mm)	230×145×72
Power (V)	200V-500V(50/60Hz)

Remote Alarm Controller

KJR-32B



Functions

Simple design

KJR-32B is specially designed for engineering applications. It does not display the ODU's working parameters, but it can connect to the alarm device when ODU is working abnormally, the RUN light will flash.

Specifications

Model	KJR-32B
Dimensions (H*W*D)(mm)	150×85×70
Power (V)	198-242V(50/60Hz)

Indoor Unit Group Controller

KJR-150A



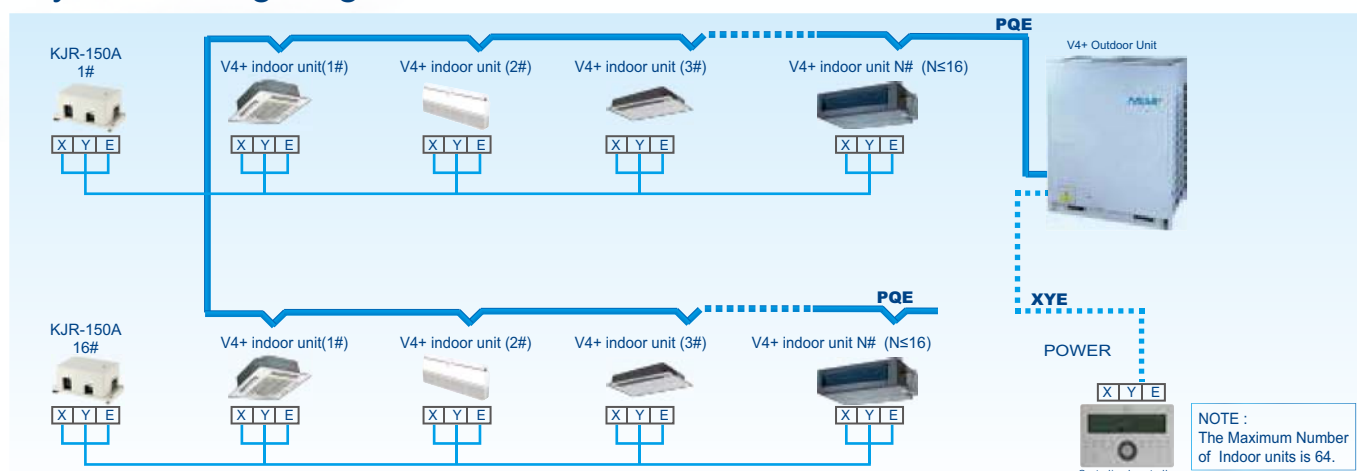
Functions

Simple design

KJR-150A is a indoor group controller, designed specifically for V4 plus indoor units. It can connect up to 16 indoor units through XYE ports.

With a display panel connected to KJR-150A, signal from wired controller and remote controller can control a group of indoor units simultaneously and all indoor units will run at the same setting parameters. You can also control the indoor units separately in each room by remote controller. The indoor unit will run at the state according to the latest setting.

System wiring diagram



* If you need to use a centralized controller, you can connect to the XYE from an outdoor unit.

Specifications

Model	KJR-150A
Dimensions (H*W*D)(mm)	150×85×70
Power (V)	198-242V(50/60Hz)

Accessories

Infrared sensor controller

MD-NIM09

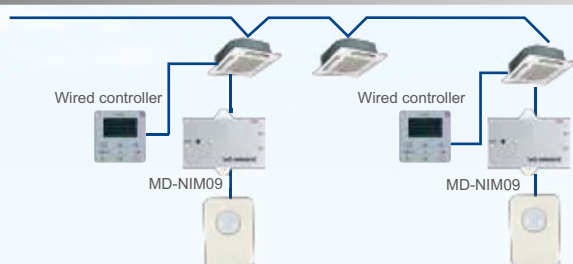
Automatically adjust the room environment.

Automatically extend the shutting down time, avoiding frequent ON/OFF.

Graceful appearance accommodates itself to different buildings.

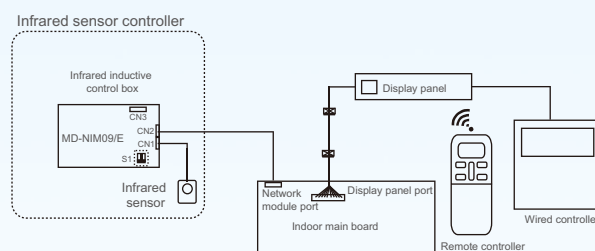


Installation example



Remote controller or wired controller can control indoor unit.

Electrical wiring



Specifications

Model	MD-NIM09
Dimensions(H×W×D)(mm)	Sensor part: 46×30×25.6, Control box: 86×72.8×15.5
Power	DC 5V

Hotel Card Key Interface Module

MD-NIM05

Cooperate with the wired controller to automate control.

Eliminates the need for high voltage power, making the device safe and steady.

Includes a build-in auto-restart function.

Remote controller or wired controller can control indoor unit.

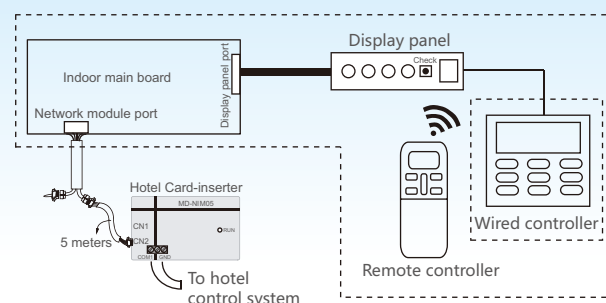


Installation example



Electrical wiring

Hotel card key interface module



Specifications

Model	MD-NIM05
Dimensions (H*W*D)(mm)	86×72.8×15.5
Power (V)	DC 5V

Accessories

AHU Control Box

AHUKZ-01A/AHUKZ-02A/AHUKZ-03A

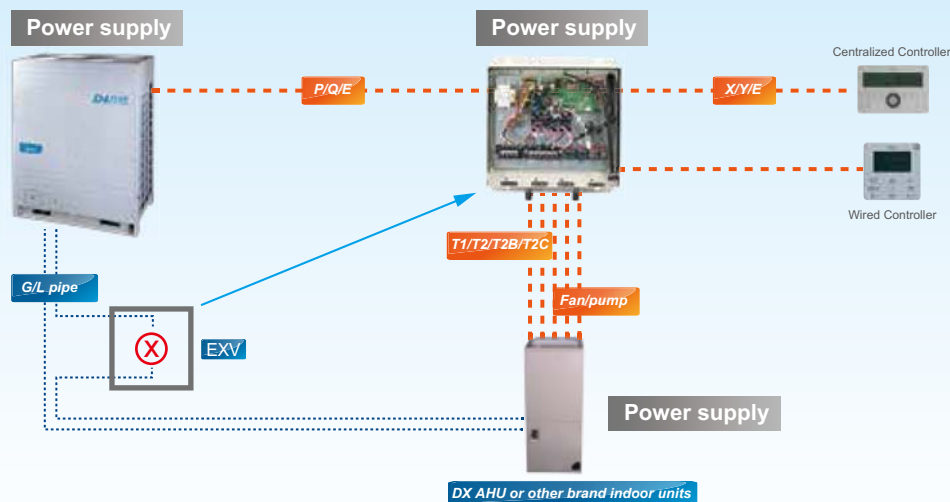
V4+ functions inside.

Can be used to connect VRF outdoor units with DX AHU or other brand indoor units



Introduction

AHUKZ-01A/AHUKZ-02A/AHUKZ-03A is an independent control box that can connect a AHU to V4 plus system to realize centralized control with V4 plus system. Control box wiring is as follows:



Specifications

Model	AHUKZ-01A/AHUKZ-02A/AHUKZ-03A	
Dimensions(H×W×D)(mm)	335×375×150	
Power (V)	220-240V~ 50Hz	208-230V~ 60Hz

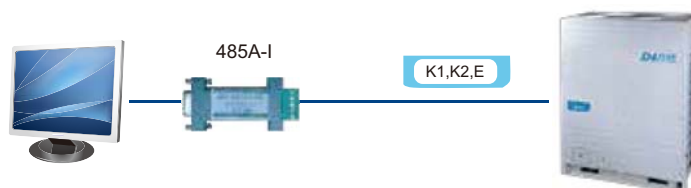
Midea Outdoor Unit Diagnosis Software MCAC-DIAG/E

Display the outdoor units' real-time running conditions.
Automatically outputs running status charts.
Supports V3, V4, V4+, D3, D4, V4+S and V4+R outdoor units.



Wiring diagram

The diagnostic software applies to K1, K2, E of the outdoor units. The corresponding wiring diagram is shown in the figure on the right.



Recommended config

Operating system	WIN XP SP4/WIN 7
CPU	Pentium 4 2G or above
HDD	30G free space
Interface port	RS-232 terminal

Selection software

To meet consultants' and distributors' requirements, Midea has developed an advanced design automation tool that can be used in AutoCAD-based CAD version or Windows-based Sales version. The software provides quick and convenient selectable options for users, supports multiple languages, and greatly improves the selection process.

Windows Version

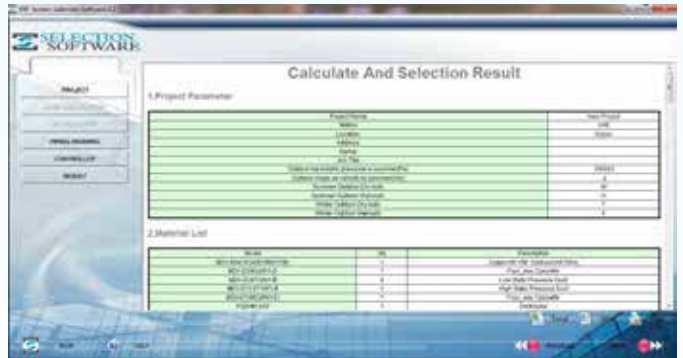
Load calculation: Provides two calculation methods (detailed room load calculation and rough load calculation).

Indoor & outdoor units selection: There are versatile indoor units and different outdoor units for choosing.

Piping drawing: Displays the detailed layout of an A/C system and the parameters for piping and branch distributors.

Controller selection: Provides a selection of controllers for indoor units and outdoor units, including wireless and remote controllers for indoor units.

Report output: Outputs a comprehensive selection report as a Word or PDF document.



CAD Version

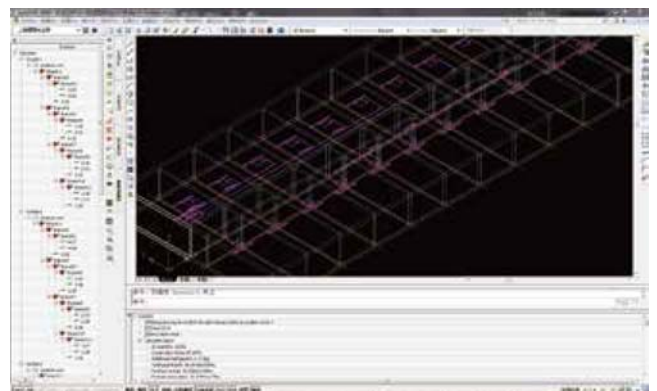
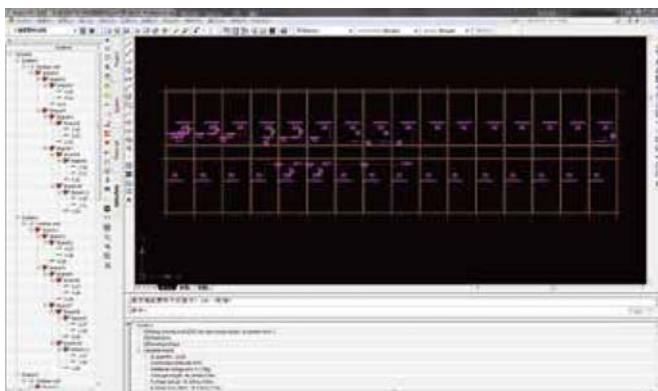
AutoCAD add-on software

Automatic Calculation: Refrigerant & drain pipe size

Automatic Selection: Distributor kit & branch joint

System Check: Installation regulation & refrigerant addition

Automatic Report: Piping installation diagram, equipment list & quotation



Central Control Software

Data converter

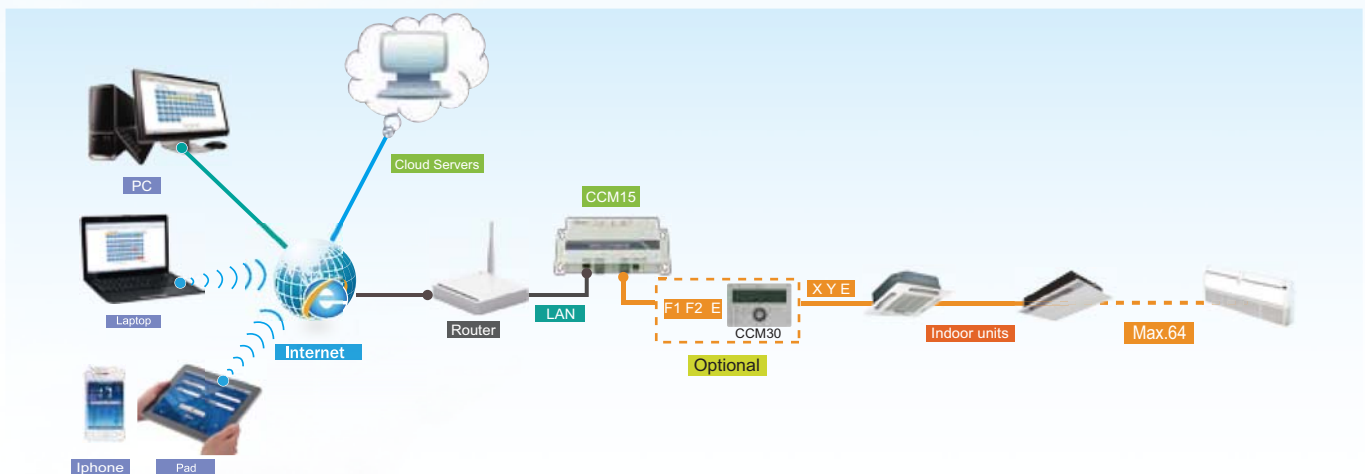
CCM15

- Can realize data conversion between TCP/IP protocol and 485 protocol.
- WEB function realizes VRF system's webpage access.
- Through LAN and remote to query and control the air conditioners.
- Providing the TCP / IP port for VRF system of Midea to achieve WEB/HTTP/TCP/IP access.
- Can control and query the A/C systems through computer, iPhone, iPad or other intelligent terminals.



Network example

- Can be directly connected with XYE port of the indoor/outdoor units.
- Up to connect 64 indoor units.
- CCM03/CCM30 is optional and can be connected with CCM15 through F1F2E ports.
- The system consisting A/C system, data converter CCM15, router, cloud server and control terminal.



*If it connects to XYE ports of master ODU, ODU must be set to auto addressing mode.

Simply control interface

- Software control/ Cloud server control (WEB access).
- Click & operate, a user-friendly interface.
- Allows single and group control.
- Simplified user control interface.
- Colour indication and icon makes it easy to recognize unit state.
- Can full screen display and temperature can be adjusted by fingers' sliding.





GD Midea Heating & Ventilating Equipment Co., Ltd.
Is certified under the ISO 14001 International standard
for environmental management.
Certificate No.15912E10020R0L



GD Midea Heating & Ventilating Equipment Co., Ltd.
Is certified under the ISO 9001 International standard
for quality assurance.
NO.01 100 019209



GD Midea Heating & Ventilating Equipment Co., Ltd.
Certificate of Occupational Health and Safety Management System
Certificate No. 15912S20006R0L-1.

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We have the Solution

Commercial Air Conditioner Business Units Midea Group

Add: West Region of Midea Commercial Air Conditioner Department, Industry Avenue,
Beijiao, Shunde, Foshan, Guangdong, P. R. China

Postal code: 528311

Tel: +86-757-26338346 Fax: +86-757-22390205

<http://global.midea.com.cn>

<http://www.midea.com>

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Ver.2015.01