CONTROLLER LINEUP

Wireless Remote/ Wired Controllers	Centralized Controllers	Data converter
RM05B RM12D	CCM-180A/WS	CCM-15
WDC-86E/K	CCM-270A/WS	
WDC-86E/KD		
WDC-120G/WK		

Network Control System	BMS Gateways	Accessories
IMMP-M **+** IMMP-S	GW-BAC or IMMP-BAC	Hotel Key Card Interface Module MD-NIM05/E MD-NIM05B/E
IMMP-BAC **+** IMMP-S	GW-LON	Infrared Sensor Controller MD-NIM09
CCM-270A/WS **+** IMMP-S	GW-MOD	Diagnosis software MCAC-DIAG-B

Wireless Remote Controllers

Features

Model	RM05B	RM12D
On / Off	●	●
Mode selection	●	●
Temperature setting	● (0.5°C or 1°C steps)	● (0.5°C or 1°C steps)
7-speed fan control	●	●
Auto swing	●	●
5-step swing louver	●	●
Address setting	●	●
Follow me	—	●
Eco mode	●	●
Night silent mode	●	●
Display shut-off	●	●
Daily timer	●	●
Keyboard lock	●	●
Background light	●	●
Dimensions (H×W×D) (mm)	150×65×20	170×48×20
Batteries	1.5V (LR03/AAA) × 2	

Temperature Setting

Set temperature can be adjusted in 0.5°C or 1°C steps, enabling precise comfort control.

26°C

25.5°C   26.5°C

25°C   27°C
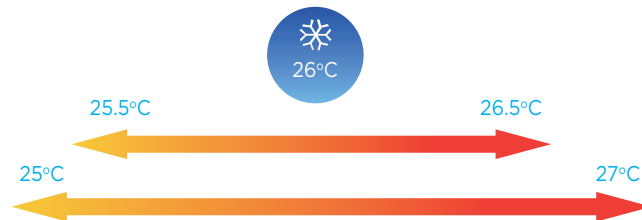
7-Speed Fan Control

7 indoor fan speeds provide control flexibility to meet the needs of different indoor conditions.

Rest time
soft airflow

Leisure time
gentle airflow

Exercise time
strong airflow

Fan speed 1   Fan speed 2   Fan speed 3   Fan speed 4   Fan speed 5   Fan speed 6   Fan speed 7

Soft airflow   Strong airflow
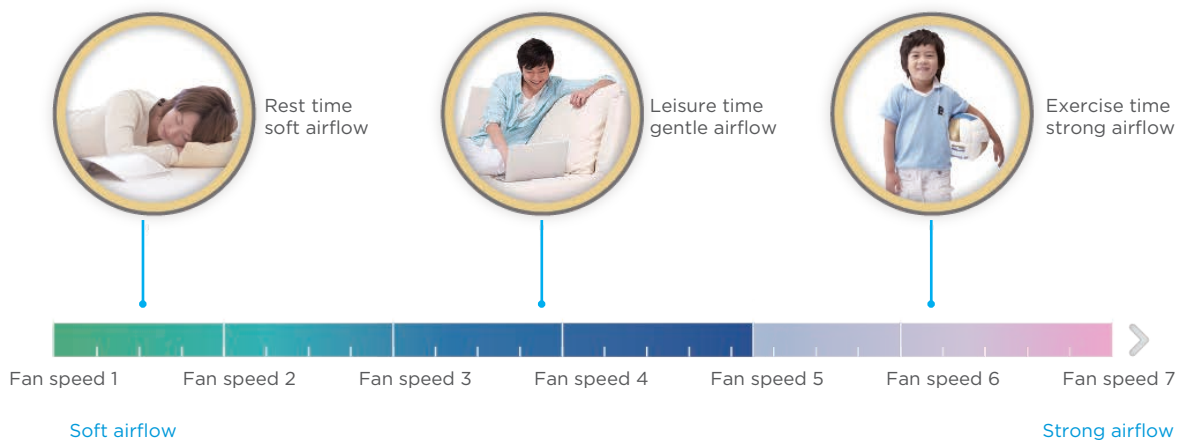
Dispaly Shut-off

Indoor unit displays can be shut off at night, creating a better environment for rest.

5-step Swing Louver

The air is comfortably spread upwards and downwards thanks to the 5-step swing louver that can be programmed via the controller.
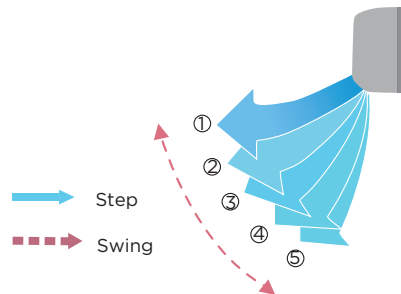
Follow Me

With the follow me function, the indoor unit responds to the temperature measured by the temperature sensor built-in to the wireless remote controller, rather than the temperature sensor in the indoor unit itself, enabling more precise control of the temperature in the user's immediate environment.

Eco Mode

Eco mode saves energy whilst retaining a comfortable indoor environment.

Features

| Model	WDC-86E/KD	WDC-86E/K	WDC-120G/WK
On / Off	●	●	●
Mode selection	●	●	●
Temperature setting	● (0.5°C or 1°C steps)	● (0.5°C or 1°C steps)	● (0.5°C or 1°C steps)
Dual temperature set points	●	—	●
7-speed fan control	●	●	●
Auto swing	●	●	●
5-step swing louver	●	●	●
Address setting	●	●	●
Follow me	●	●	●
Eco mode	●	●	●
Room temperature display	●	—	●
°F/°C display	●	●	●
Keyboard lock	—	—	●
Background light	●	●	●
Daily timer	●	●	●
Weekly schedule timer	—	—	●
Auto restart	●	●	●
2 permission levels	—	—	●
Bi-directional communication	●	—	●
Group control	—	—	●
Main or secondary controller setting	●	—	●
Display shut-off	●	●	●
Night silent mode	●	●	●
Remote signal receiver	●	●	●
Clean filter reminder	●	●	●
Extension function	—	—	●
Daylight saving time	—	—	●
Clock display	—	—	●
Dot matrix display	—	—	●
Error check function	●	—	●
System parameter querying	●	—	●
System setting control	●	—	●
Dimensions (WxHxD) (mm)	86x86x18	86x86x18	120x120x20
Power supply	18V DC	5V DC	18V DC

Group Control

One controller can be used to unify the settings across up to 16 indoor units.

Main or Secondary Controller Setting

Two controllers can be used together, with the indoor units' operating mode and settings being set according to the most recent instruction received. The controller display screens are synchronized so that both displays update when a setting is adjusted.

Main   One indoor unit   Secondary

Main   Two or more indoor units   Secondary
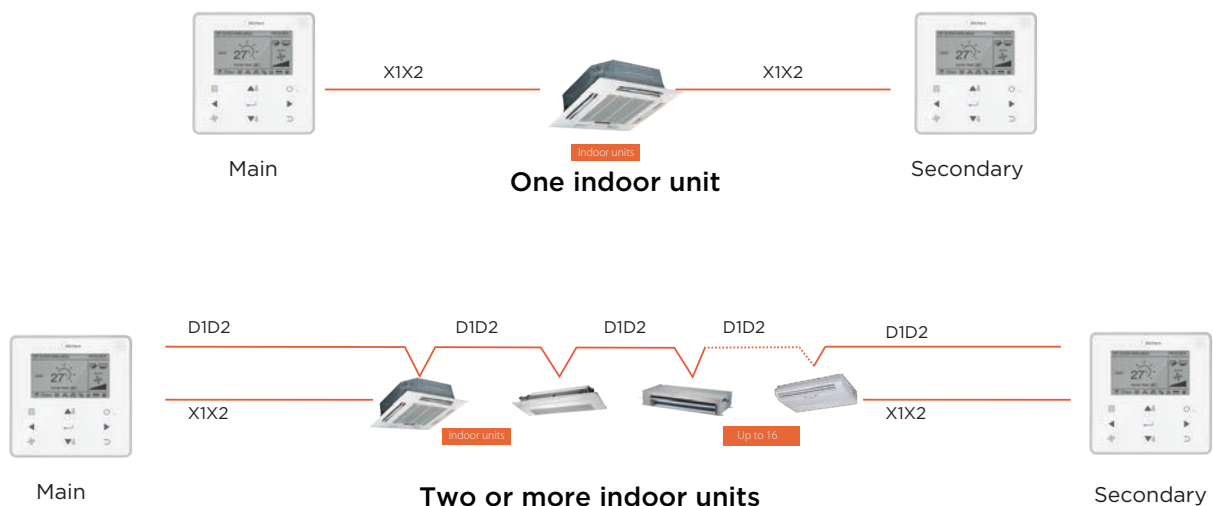
2 Permission Levels

2 permission levels ensure users can easily access control functions and allow administrators convenient access to operating parameters.


Admin
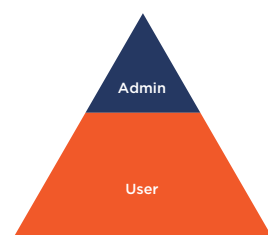
User

Extension Function

The extension function is specifically designed for users working overtime. Pressing the delay button postpones system shutdown by 1 or 2 hours.

ON	24°C	Extension
	OFF	

Dual Temperature Set Points

With dual temperature set point control, the set temperature changes automatically when the operating mode is changed.

17°C   Switch   30°C
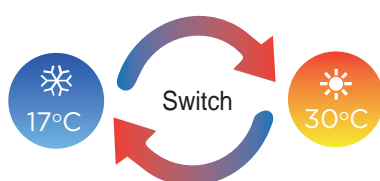
Weekly Schedule Timer

The weekly schedule timer allows users to set multiple schedules each with its own operating mode, temperature settings and fan speeds.

Weekly Schedule

SUN	MON	TUE	WED	THU	FRI	SAT

OFF   HEAT   COOL   FAN
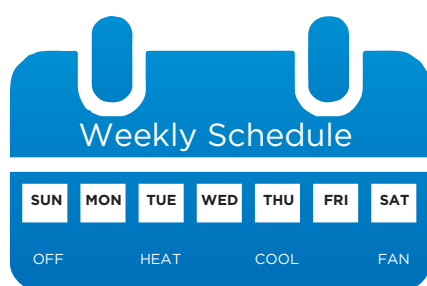
Bi-directional Communication

The wired controller can query the system operating parameters thanks to the new bi-directional communication functionality. In addition, settings including static pressure, cold draft prevention and temperature compensation can be configured on the wired controller.

Bi-directional   Bi-directional

GW-BAC or IMMP-BAC

BACnet Gateway

Full Integration

The GW-BAC or IMMP-BAC Gateway allows Climacool VRF systems to be monitored and controlled alongside other building management technology that use the BACnet protocol such as access control, fire detection and lighting systems.

Network Flexibility

The gateway can be connected to master outdoor units' XYE ports directly.

GW-BAC or IMMP-BAC

Up to 8 refrigerant systems

X,Y,E   P,Q,E   P,Q,E   Up to 64   P,Q,E

Up to 4 XYE Ports

TCP/IP   BACnet/IP protocol

HUB

Web acess

BACnet BMS
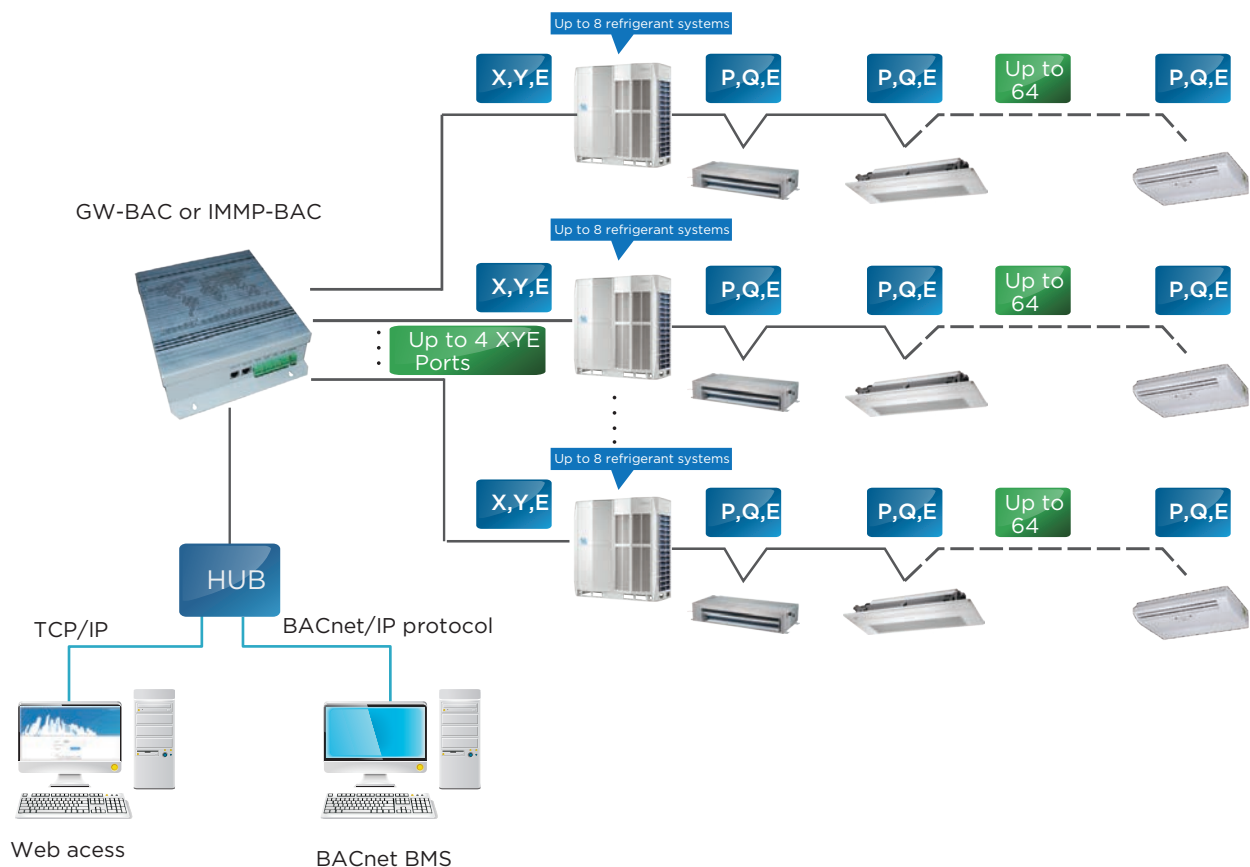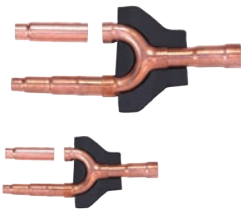
Features

Model	GW-BAC or IMMP-BAC		
Max. number of devices (include indoor and outdoor units)	256		
Max. number of refrigerant systems	32		
Control	On / Off	●	
	Mode selection	●	
	Temperature setting	●	
	Fan speed	●	
	Energy management	●	
Indoor unit monitoring	Room temperature display	●	
	Error status	●	
	Error alarms	●	
Outdoor unit monitoring	Operating mode	●	
	Outdoor ambient temperature	●	
	Fan speed	●	
	Compressor operating frequency	●	
	Discharge temperature	●	
	System pressure	●	
	Error status	●	
	Error alarms	●	
LAN access		●	
BTL certification		●	
Compatibility	Siemens	APOGEE	
	Trane	TRACER	
	Honeywell	ALERTON	
	Schneider	Andover Continuum	
	Johnson Controls	METASYS	
Dimensions (HxWxD)(mm)	319×251×61		
Power supply	1 phase, 100-240V, 50/60Hz		

Note: the IMMP-BAC gateway has integrated the fucntions of IMMP-M gateway and GW-BAC gateway.

BRANCH JOINTS

Type	Appearance	Model	Packed Dimensions mm	Gross Weight kg	Note
Branch joints for outdoor units		FQZHW-02N1E	255×150×185	2.0	Connecting two outdoor units
		FQZHW-03N1E	345×160×285	4.3	Connecting three outdoor units
Branch joints for indoor units		FQZHN-01D	290×105×100	0.4	/
		FQZHN-02D	290×105×100	0.6	/
		FQZHN-03D	310×130×125	0.9	/
		FQZHN-04D	350×180×170	1.5	/
		FQZHN-05D	365×195×215	1.9	/
		FQZHN-06D	390×230×255	3.1	/
		FQZHN-07D	390×230×255	3.4	/

Dimensions

Outdoor Branch Joints

Model	Gas side joints	Liquid side joints
FQZHW-02N1E		
FQZHW-03N1E		

Dimensions

![ClimaCool Air Conditioning]

Indoor Branch Joints

Model	Gas side joints	Liquid side joints
FQZHN-01D	ID:12.7 (ID:15.9) OD:19.1 ID:19.1 OD:19.1 ID:19.1 ID:15.9 / ID:12.7 (ID:15.9) OD:19.1	ID:6.4 OD:9.5 ID:9.5 OD:12.7 ID:9.5 / ID:6.4 ID:9.5 OD:9.5
FQZHN-02D	ID:15.9 (ID:19.1) OD:22.2 ID:22.2 OD:22.2 ID:22.2 ID:25.4 / ID:12.7 ID:15.9 (ID:19.1) OD:22.2	ID:6.4 ID:9.5 OD:12.7 ID:12.7 OD:12.7 ID:12.7 ID:9.5 / ID:6.4 ID:9.5 OD:12.7
FQZHN-03D	ID:19.1 ID:22.2 OD:28.6 ID:28.6 OD:28.6 ID:28.6 ID:31.8 / ID:15.9 ID:19.1 ID:22.2 OD:28.6	ID:9.5 (ID:12.7) OD:15.9 ID:15.9 OD:15.9 ID:15.9 ID:19.1 / ID:6.4 ID:9.5 (ID:12.7) OD:15.9
FQZHN-04D	ID:22.2 ID:28.6 OD:34.9 ID:34.9 OD:34.9 ID:34.9 ID:38.1 / ID:19.1 ID:22.2 ID:28.6 OD:34.9	ID:12.7 (ID:15.9) OD:19.1 ID:19.1 OD:19.1 ID:19.1 ID:22.2 / ID:9.5 ID:12.7 (ID:15.9) OD:19.1
FQZHN-05D	ID:34.9 ID:41.3 ID:44.5 OD:41.3 ID:41.3 ID:44.5 / ID:34.9 ID:41.3	ID:15.9 (ID:19.1) OD:22.2 ID:22.2 OD:22.2 ID:22.2 ID:25.4 / ID:12.7 ID:15.9 (ID:19.1) OD:22.2
FQZHN-06D	ID:41.3 OD:54 ID:63.5 ID:54 OD:54 ID:54 ID:63.5 / ID:34.9 ID:41.3	(ID:19.1) OD:22.2 ID:25.4 ID:22.2 OD:22.2 ID:22.2 ID:25.4 / ID:15.9 (ID:19.1) OD:22.2
FQZHN-07D	ID:41.3 OD:54 ID:63.5 ID:54 OD:54 ID:54 ID:63.5 / ID:34.9 ID:41.3	ID:19.1 ID:22.2 OD:28.6 ID:28.6 OD:28.6 ID:28.6 ID:31.8 / ID:15.9 ID:19.1 ID:22.2 OD:28.6