CONTROL SOLUTIONS

Control Solutions

CONTROLLER LINEUP for V6/V6i/V6R/V4+I(10-12HP)/ Mini C

Wireless Remote Controllers	Wired Remote Controllers	Central Controllers Data converter		Network Control System	BMS Gateways	Accessories	
						Hotel Key Card Interface Module	
RM05B(A) RM12F	WDC-86E/KD WDC-120G/WK(A)	CCM-180A/BWS(A)		IMMP-BAC(A)	IMMP-BAC(A)	MA-HKCW	MA-HKCS
				+		Infrared Sensor Controller	
	WDC-120G/WK(HTHM)	CCM-270B/WS(A)		IMMP-S(A)	GW-LON(A)	MA-IS	
						Diagnosis software	
		CCM-15		CCM-270B/WS(A)	GW-MOD(A)	MCAC-DIAG-B(A)	
				+		XYE Extension Kit	IDU Online Kit
				IMMP-S(A)	GW-KNX,GW-KNX(A)*	MA-EK	MCAC-PIDU

Note：
1. GW-KNX(A) is only used for High Temperature Hydro Module in V6R systems.
2. The diagnosis software is only compatible with V6/V6i outdoor unit.

CONTROLLER LINEUP for V4+I(except 10/12HP)
V4+W/ Mini VRF- Standard Series

Wireless Remote Controllers	Wired Remote Controllers	Central Controllers		Network Control System Data Converter	BMS Gateways	Accessories
RM05B(A)	WDC-86E/KD	CCM-180A/BWS(A)		M-interface Gateway + IMM Software	IMMP-BAC(A)	Hotel Key Card Interface Module MA-HKCW MA-HKCS
RM12F	WDC-120G/WK(A)	CCM-270B/WS(A)			GW-LON(A)	Infrared Sensor Controller MA-IS
		MD-CCM09		CCM-15	Modbus Gateway CCM-18A/N CCM-18A/N-U	Network Electricity Distribution Module (Special for Mini VRF) MD-NIM10
		CCM30			GW-KNX	XYE Extension Kit Indoor Unit Online Kit MA-EK MCAC-PIDU

Remote Controllers

Features

Model	RM05B(A)	RM12F
On / Off	●	●
Mode selection	●	●
Temperature setting	● (0.5℃ or 1℃ steps)	● (0.5℃ or 1℃ steps)
7-speed fan control		●
Auto swing	●	●
5-step swing louver	●	●
Address setting		●
Follow me	✕	●
Eco mode	●	●
Silent mode	●	●
Display shut-off	●	●
Daily timer	●	●
Keyboard lock	●	●
Background light	●	●
Indoor Unit parameter setting	●	●
Dimensions (H×W×D) (mm)	150×65×20	170×48×20
Batteries	1.5V (LR03/AAA) × 2	
Indoor unit series	2nd generation AC/DC IDU	

Note:
●: equipped as standard; ✕: without this function

0.5℃/1℃ Setting Temperature Adjustment
Set temperature can be adjusted in 0.5℃ or 1℃ steps, enabling precise comfort control.
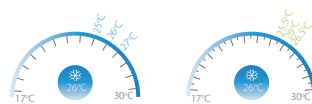
Digital Display On/Off
Indoor unit displays can be shut off at night, creating a better environment for rest.

Digital display

5 Swing Angles for Louver
Thanks to the 5 swing angles for indoor unit louver, the air flow direction can be controlled more precisely.
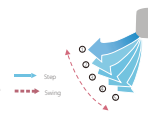
Follow Me
With the follow me function, the indoor unit responds to the temperature measured by the temperature sensor built-in to the wireless remote controller, rather than the temperature sensor in the indoor unit itself, enabling more precise control of the temperature in the user's immediate environment.

Multiple Fan Speed Control
The DC Series comes with 7 indoor fan speed options and AC Series with 3 indoor fan speed options to meet the needs of different indoor conditions.

7 fan speeds DC IDUs
Speed 7
Speed 6
Speed 5
Speed 4
Speed 3
Speed 2
Speed 1

Exercise time strong airflow
Leisure time gentle airflow
Rest time soft airflow

3 fan speeds AC IDUs
Speed 3
Speed 2
Speed 1
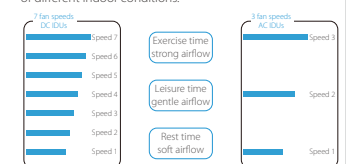
Wired Controllers

Features

Model	WDC-86E/KD	WDC-120G/WK (A)
On / Off	●	●
Mode selection	●	●
Temperature setting	● (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	●	●
Silent mode	●	●
Remote signal receiver	●	●
Clean filter reminder	●	●
Extension function	×	●
Daylight saving time	×	●
Clock display	×	●
Dot matrix display	×	●
Error check function	●	●
System parameter querying	●	●
After Hours/Off Timer function	●	●
Language	English	English, French, Spanish, Polish
HRV control	×	●
Puro-Air Kit control	×	●
System setting control	●	●
Dimensions (WxHxD) (mm)	86x86x18	120x120x20
Power supply	18V DC	18V DC
Indoor unit series	2nd generation AC/DC IDU	

Note:
●: equipped as standard; ×: without this function
when the 2nd generation AC indoor units connect to group controller WDC-120G/WK(A), the indoor units need to customize D1 D2 terminals.

Features

Model	WDC-120G/WK(HTHM)
On / Off	●
Mode selection	●
Water Outlet Temperature Control	●
Silent Mode	●
Screen lock	●
Room Temperature Control	●
Multiple Set Points	●
Address setting	●
Disinfection Mode	●
Holiday Home Mode	●
Holiday Away Mode	●
°F/°C display	●
Keyboard lock	●
Background light	●
Daily timer	●
Weekly schedule timer	●
Auto restart	●
Child Lock	●
Bi-directional communication	●
Service Call	●
DHW Temperature Control	●
Parameter Checking	●
Silent mode	●
Remote signal receiver	●
Maximum Power Limitation	●
Operating Parameters Checking	●
Heating Temperature Control	●
Clock display	●
Dot matrix display	●
Error check function	●
Language	English, French, Spanish, Polish
Dimensions (WxHxD) (mm)	120x120x20
Power supply	18V DC
Indoor unit series	High Temperature Hydro Module

Note:
●: equipped as standard

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

Note: when the 2nd generation AC indoor units connect to group controller WDC-120G/WK, the indoor units need to customize D1 D2 terminals.
Group control is not available for 2nd generation AC Wall Mounted Series.

Main or Secondary Controller Setting
Two controllers can be used together with single indoor unit. Operating mode and settings would be set according to the most recent instruction received. The controller display screens are synchronized so that both displays update when a setting is adjusted.

One indoor unit

Two or more indoor units

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

Buzzer Sound On/Off
The buzzer sound of the indoor unit can be turned off to create a quieter environment.

Buzzer

Off Timer Function
We can use the wired controller to set an automatic off timer or after hours function for the indoor unit.
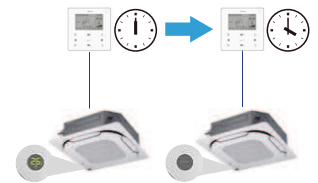
Weekly Schedule Timer
The weekly schedule timer allows users to set multiple schedules each with its own operating mode, temperature settings and fan speeds.

Weekly Schedule

SUN	MON	TUE	WED	THU	FRI	SAT

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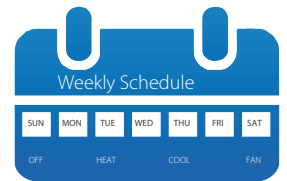
Bi-directional Communication
The wired controller can query the system operating parameters thanks to the new bi-directional communication functionality. In addition, settings including static pressure, cold draft prevention and temperature compensation can be configured on the wired controller.

Bi-directional   Bi-directional
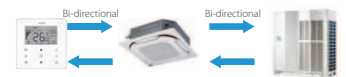
Note：This function is only available for V6/V6i/V6R/V4+I(10-12HP) outdoor unit connected to 2nd generation DC indoor unit.

Control Solutions

Central Controllers

Features

Function	CCM-180A/BWS	CCM-270B/WS
Max. number of indoor units	64	384
Max. number of refrigerant systems	8	48
Touch screen	● (6.2-inch)	● (10.1-inch)
On/Off	●	●
Mode selection	●	●
Temperature setting	● (0.5°C steps)*	
7-speed fan control	●*	
Auto swing	●	●
5-step swing louver*	●	●
Room temperature display	●	●
Holiday setting	●	●
°C/°F display	●	●
Schedule management	●	●
Clock display	●	●
2 permission levels	●	●
Extension function	●	×
Indoor unit type/model recognition	●*	
Indoor unit with capacity larger than 16kW recognition	●*	
HRV Control	●	●
Visual schematic	×	●
Energy management	●	●
Group management	●	●
Error check function	●	●*
System parameter querying	●	●
USB output	●	●
Report display	Error report	Error report and operation record
Operation log	×	●
LAN access	×	●
Language supported	English, Chinese, French, Spanish, Portuguese, Italian, German, Polish, Turkish, Hungarian, Russian, Korean	
Dimensions (W×H×D) (mm)	182×123×34	270×183×27
Power supply	12V DC	24V AC
Outdoor unit series or indoor unit series	All series	

Note:
●: equipped as standard; ×: without this function
*means this function is only available for V6/V6i/V6R/V4+i(10-12HP), Mini C outdoor unit.

Control Solutions

Features

Function	CCM30	CCM09
Max. number of indoor units	64	64
Max. number of refrigerant systems	8	8
Touch screen	✕	✕
On/Off	●	●
Mode selection	●	●
Temperature setting	● (1℃ steps)	
7-speed fan control	3-speed fan control	
Auto swing	●	●
5-step swing louver*	✕	✕
Room temperature display	●	●
Holiday setting	✕	✕
℃/℉ display	●	●
Schedule management	●	Weekly timer
Clock display	✕	✕
2 permission levels	✕	✕
Extension function	✕	✕
Indoor unit type/model recognition	✕	✕
Indoor unit with capacity larger than 16kW recognition	Identify as two or four units (depend on units model)	
HRV Control	●	●
Visual schematic	✕	✕
Energy management	Mode/Remote controller limit	
Group management	✕	✕
Error check function	●	●
System parameter querying	●	●
USB output	✕	✕
Report display	✕	✕
Operation log	✕	✕
LAN access	✕	✕
Language supported	English	
Dimensions (W×H×D) (mm)	179×119×74	179×119×74
Power supply	198-242V AC (50/60Hz)	
Outdoor unit series or indoor unit series	V4+i(except for 10-12HP)/ V4+W/Mini VRF-Standard Series ODU	V4+i(except 10/12HP)/V4+W/ Mini VRF- Standard Series ODU

Note:
●: equipped as standard; ✕: without this function
*means this function is only available for V6/V6i/V6R/V4+i(10-12HP) outdoor unit.

Touch Screen
Colorful touch screen and vivid display make operation more convenient and simple.

Electricity Charge Distribution
The controllers use the patented Midea Calculation Method to estimate the electricity consumption of the outdoor units and then divide it among the indoor units so that the electricity charges can be equitably divided among building occupants.

Energy Management
User can set limits or locks on an indoor unit, such as minimum cooling temperature, maximum heating temperature, fan speed, operation mode, swing lock, remote controller lock and wired controller lock.
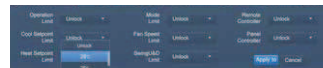
Unit Model Recognition
The controller recognizes the model of indoor and outdoor units and different models are represented by different icons.

Visual Schematic
By importing floor plans and then dragging and dropping the indoor units to their actual positions on the floor plan, users can create a tailored system schematic which enables monitoring and control of the indoor units through a clear visual representation of the system layout.

Group Management
Units can be viewed according to group, system or location, making unit management clearer and more convenient.

Outdoor Unit Configuration
Outdoor unit configuration and settings can be monitored and controlled without having to go outdoors.

Note: This function is only available for V6/V6i outdoor unit.

Schedule Management

Daily, weekly or annual schedules can be used to set unit settings such as on/off, operating mode, set temperature, fan speed and swing.
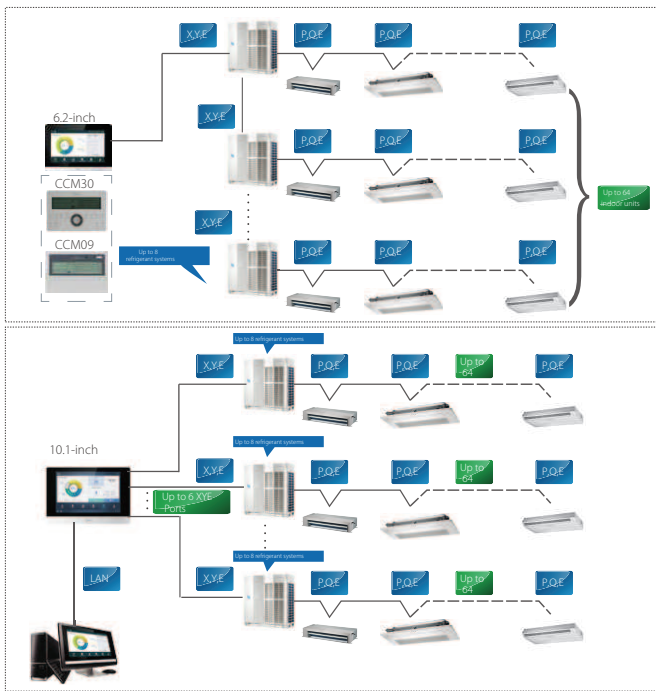
LAN Access

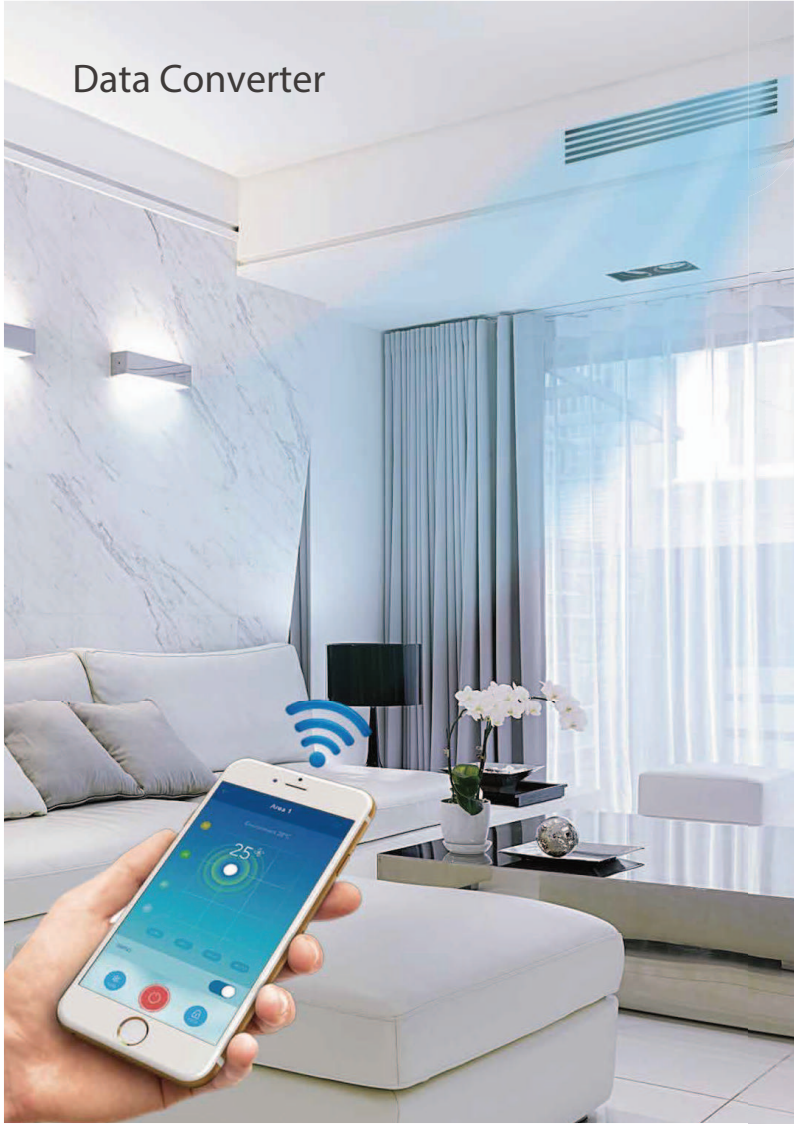A desktop or laptop PC can be used for browser-based access via a LAN connection.

Wiring Flexibility

The controllers can be connected to the master outdoor unit directly.

6.2-inch

CCM30

CCM09

Up to 8 refrigerant systems

Up to 64 indoor units

10.1-inch

Up to 6 XYE –Ports

LAN

Up to 8 refrigerant systems

Up to ~64

Data Converter

Features

Hardware model		
	CCM-15	
Application scenarios	Mobile Phone Application	Cloud Server Website
Max. number of CCM-15 for one mobile APP	10	10
Max. number of indoor units	640	640
Max. number of refrigerant systems	80	80
On/Off	●	●
Mode selection	●	●
Temperature setting	● (1℃ steps)	● (1℃ steps)
7-speed fan control	×	×
Auto swing	●	●
5-step swing louver	×	×
Room temperature display	●	●
℃/℉ display	●	●
Weekly timer	●	●
Indoor unit type recognition	×	×
Energy management	●	●
Group management	●	●
User group management	●	●
Operation log	●	●
Device log	●	●
Login record	●	●
Error log	×	●
Configuration	●	×
Account registration	●	×
Virtual	●	×
Mode display	●	●
Languages supported	English, French, Spanish	English, French, Spanish
Dimensions (W×H×D) (mm)	187×115×28	
Power supply	1 phase, 100-240V, 50/60Hz	
Outdoor unit series	All series*	

Note:
●: equipped as standard; ×: without this function
*For the V6R series , the CCM-15 is under development.

High Compatibility

Compatible with a variety of operating systems.

User Friendly Interface

Clear, stylish interface designed by leading industrial designers.

Cloud Server Website

In addition to "M-control", users can control air conditioners and query the status of air conditioning equipment anytime and anywhere through the cloud server website.

Virtual Experience

After downloading "M-control", you can experience the operation of the interface through the virtual experience function without registration.

Easy Configuration

User groups can be joined simply by scanning a QR code.

Convenient Operation

Drag the position of the floating bubbles to change temperature and fan speed.
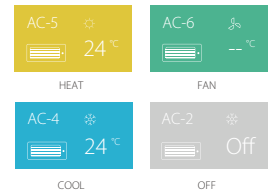

Anytime Control

Remote access to CCM-15 allows anytime, anywhere control.

Clear Icons

Clear, color-coded icons allow unit operating states to be viewed at a glance.

AC-5 ☀ 24 ℃ — HEAT

AC-6 ♨ -- ℃ — FAN

AC-4 ❄ 24 ℃ — COOL

AC-2 ❄ Off — OFF

Group Management
The user can group the air conditioners equipment, and the air conditioner in the same group can be controlled together just with one tap.

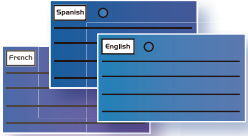### 2 Permission Levels
Administrators can set different permissions for different users to facilitate better management of devices.

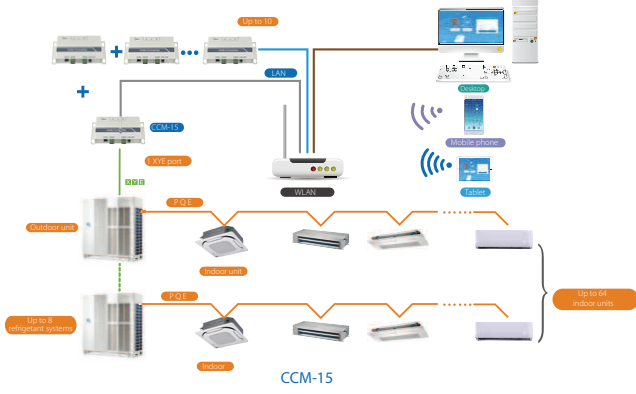### Multiple Language Options
Supports multiple languages so that users of different languages can operate easily.

Flexibility
The Data Converter can be connected directly to a network of indoor/outdoor units.

CCM-15

Network Control System

Features

Software model	IMMP-S(A)		IMM
Hardware model	IMMP-BAC(A)	CCM-270B/WS(A)	M-interface
Max. number per software system	10	10	4
Max. number of indoor units	2560	3840	1024
Max. number of refrigerant systems	320	480	16
Temperature setting	● (0.5℃ steps)	● (0.5℃ steps)	● (1℃ steps)
7-speed fan control*	●	●	✕ (3-speed)
Auto swing	●	●	●
5-step swing louver	●	●	✕
Outdoor unit Eco mode setting	●	●	✕
Holiday setting	●	●	✕
Schedule management	●	●	●
Clock display	●	●	●
2 permission levels	●	●	●
Unit model recognition	●	●	✕
Electricity charge distribution	●	●	●
Visual schematic	●	●	●
Energy management	●	●	●
Group management	●	●	●
Error check function	●	●	●
System parameter querying	●	●	●
Report output	●	●	●
Operation log	●	●	●
LAN access	●	●	●
Languages supported	English, Chinese, French, Spanish, Portuguese, Italian, German, Polish, Turkish, Hungarian, Russian, Korean		9 languages
Dimensions (WxHxD) (mm)	251×319×61	270×183×27	251×319×66
Power supply	1 phase, 100-240V, 50/60Hz	24V AC	1 phase, 100-240V, 50/60Hz
Outdoor unit series	V6/V6i/V6R/V4+i(10-12HP)/Mini C		V4+i(except for 10-12HP)/ V4+W/Mini VRF-Standard Series

Note:
●: equipped as standard; ✕: without this function
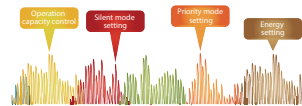*means this function is only available for V6/V6i/V6R/V4+i(10-12HP) outdoor unit.

User-friendly Interface

Simple, practical user interface makes for a user-friendly experience even for first-time users.

Outdoor Unit Configuration

Outdoor unit configuration and settings can be monitored and controlled without having to go outdoors.

Note: This function is only available for V6/V6i outdoor unit.

Electricity Charge Distribution

The IMMPRO uses the patented Midea Calculation Method to estimate the electricity consumption of the outdoor units and then divide it among the indoor units so that the electricity charges can be equitably divided among building occupants.

Public and Idle Devices

Marking a unit as a public device or idle device ensures the electricity charge distribution is more accurate and reasonable.
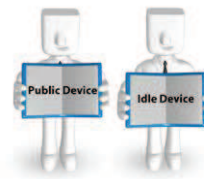
Floor Plan

By importing floor plans and then dragging and dropping the indoor units to their actual positions on the floor plan, users can create a tailored system schematic which enables monitoring and control of the indoor units through a clear visual representation of the system layout.

Schedule Management

Daily, weekly or annual schedules can be used to set unit settings such as on/off, operating mode, set temperature, fan speed and swing.
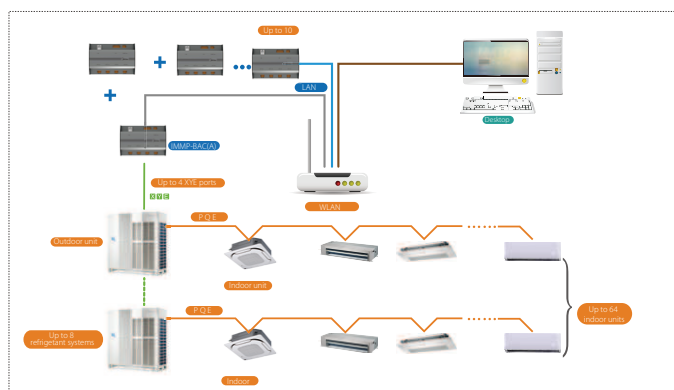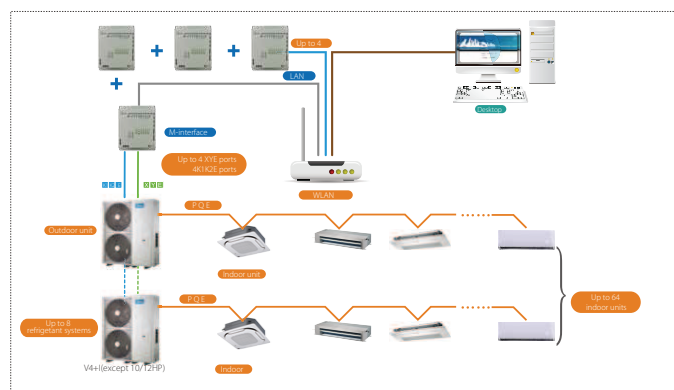
Xpress Installation

With the Xpress Installation wizard, IMMPRO can be installed quickly and easily without requiring support from a technical support engineer.
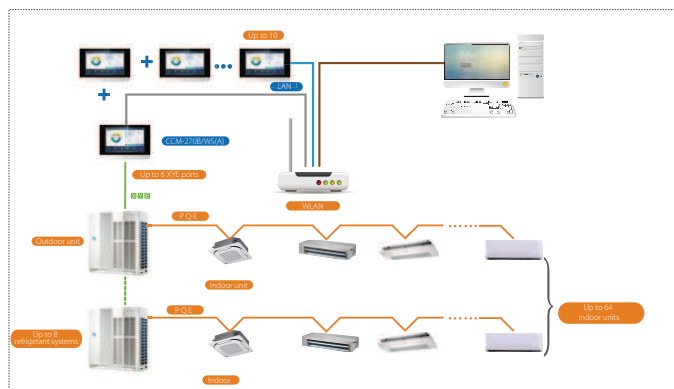
Network Flexibility

IMMP-BAC(A)

M-interface

CCM-270B/WS(A)