

CONTROL SYSTEM

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Individual Controller

The individual control system has a variety of wired and wireless controllers which enable you easy and intelligent control of your air conditioners. You can choose the one which best suits for your air conditioning management.

Individual Controller

YR-HQS01

- On/Off, operation mode, fan speed, temperature setting, swing
- Turbo and quiet
- Individual louver control for round flow 4-way cassette and mini 4-way cassette
- Clock & timer
- Health function
- Self-cleaning function
- Backlight
- Convenient to operate most functions through one button



YR-HRS01

- On/Off, operation mode, fan speed, temperature setting, swing
- Turbo and quiet
- Individual louver control for round flow 4-way cassette and mini 4-way cassette
- Self-cleaning function
- Timer
- Health function
- Backlight



Individual Controller

HW-SA201ABK

- Individual & group control(Max. 16 indoor units)
- On/Off, mode, fan speed, temperature, swing
- °C/°F, Temp. adjustment sensitivity $\pm 0.5^{\circ}\text{C}(\pm 1^{\circ}\text{F})$
- Timer
- Backlight off
- Built-in infrared signal receiver for duct units
- Individual louver control for round-way cassette
- R32 refrigerant leakage alarm
- Self-cleaning function



HW-BA116ABK

- Alternating current
- Basic function: On/Off, mode, fan speed, temperature
- Individual & group control (Max.16 indoor units)
- Simple and smart design, 86*86*14.80mm
- Could receive wireless controller signal



HW-BA101ABT

- Individual & group control (Max. 16 indoor units controllable)
- Compact design 86*86mm
- Touch screen
- Black and tempered glass body with highlight LED icon display
- Basic function: On/Off, mode, swing, dry, auto
- Built-in infrared signal receiver for infrared remote control
- Built-in buzzer



HW-PA201ABK

- Colorful screen
- Individual & group control(Max. 16 indoor units)
- Basic function : On/Off, mode, fan speed, temperature, swing
- °C/°F, Temp. adjustment sensitivity $\pm 0.5^{\circ}\text{C}(\pm 1^{\circ}\text{F})$
- Weekly timer
- Electric heater
- Individual louver control for round-way cassette
- R32 refrigerant leakage alarm
- Multi-language



HA-SB101DB

- Infrared signal receiver
- Realize the remote control of duct type indoor unit
- Model selection depends on the duct indoor unit



Central Control WIFI Module (HI-WA164DBI)

- Individual/central remote control by APP
- Max.64 IDUs controllable for single wifi module (Max. 256 for combinations)
- Remote monitoring and control: On/Off, Temp. operation mode, fan speeds
- Weekly scheduling
- Error alarm and error history
- Convenient management authority sharing without repeating to pair with units
- Connecting to 5-inch central controller (HC-SA164DBT); (MRV5 and HA-MA164AD gateway can connect directly.)



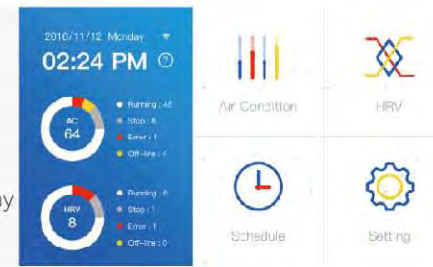


Centralized Controller

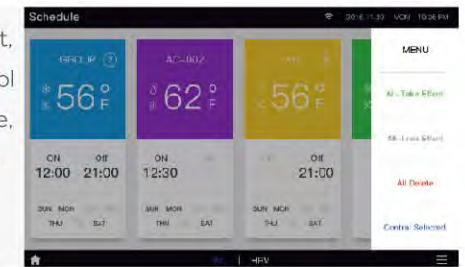
The centralized control system offers you a smart and convenient experience while managing your air conditioner individually or by groups or by zones, a variety of controllers can be used to perfect your air conditioning management.

Centralized Controller

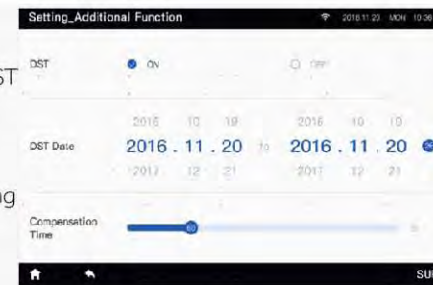
Monitoring up to 64 indoor unit could control HRV and monitoring the state of all IDU display fault IDU number



Set schedule for unit, group, all time control could be add, change, delete, unit control, group control, all On/Off



Turn ON/OFF the DST DST schedule time setting DST compensation setting



Display the detailed information check the name, number, temperature, running time and fault code

No.	User	AC	Type	Temp. Control	Temp. Control	Running Time	Error
01	JianCC1	AC-001	High	High	24°F	15:30:00	0
02	JianCC1	AC-002	High	High	24°F	15:30:00	0
03	JianCC1	AC-003	High	High	24°F	15:30:00	0
04	JianCC1	AC-004	High	High	24°F	15:30:00	0
05	JianCC1	AC-005	High	High	24°F	15:30:00	0
06	JianCC1	AC-006	High	High	24°F	15:30:00	0
07	JianCC1	AC-007	High	High	24°F	15:30:00	0
08	JianCC1	AC-008	High	High	24°F	15:30:00	0
09	JianCC1	AC-009	High	High	24°F	15:30:00	0

Interface display mode choice: list or icon all On, all Off, control all, control select



Setting password according to user demand



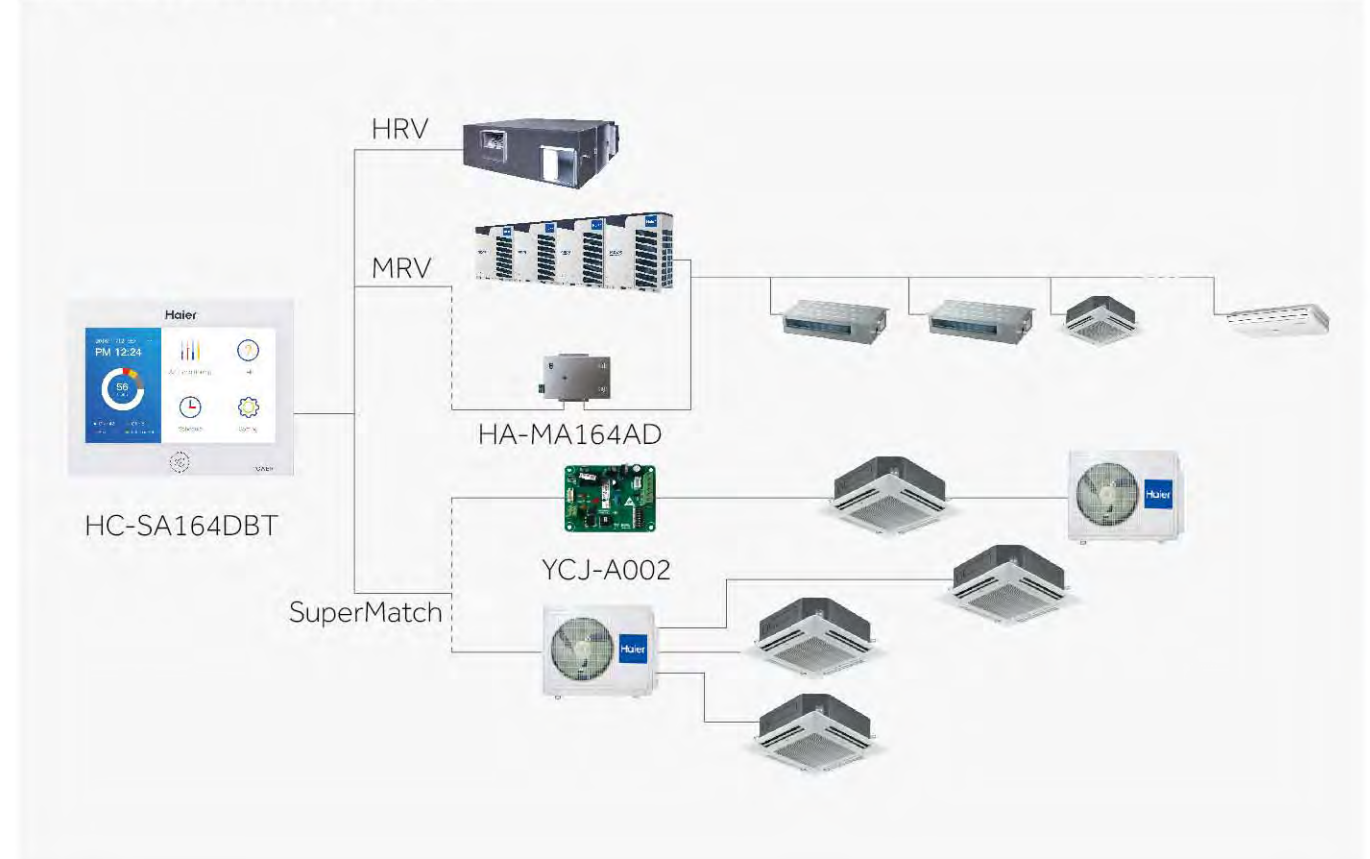
Centralized Controller

HC-SA164DBT

- Individual control, central control (Max. 64 indoor units)
- 5-inch TFT LCD touch screen with back light
- Weekly timer
- Indoor units' information editable
- Historical error
- MRV 5 system and upgraded MRV SII(8/10/12HP) outdoor units can connect directly
- Other MRV system requires HA-MA164AD



HC-SA164DBT system



Control System

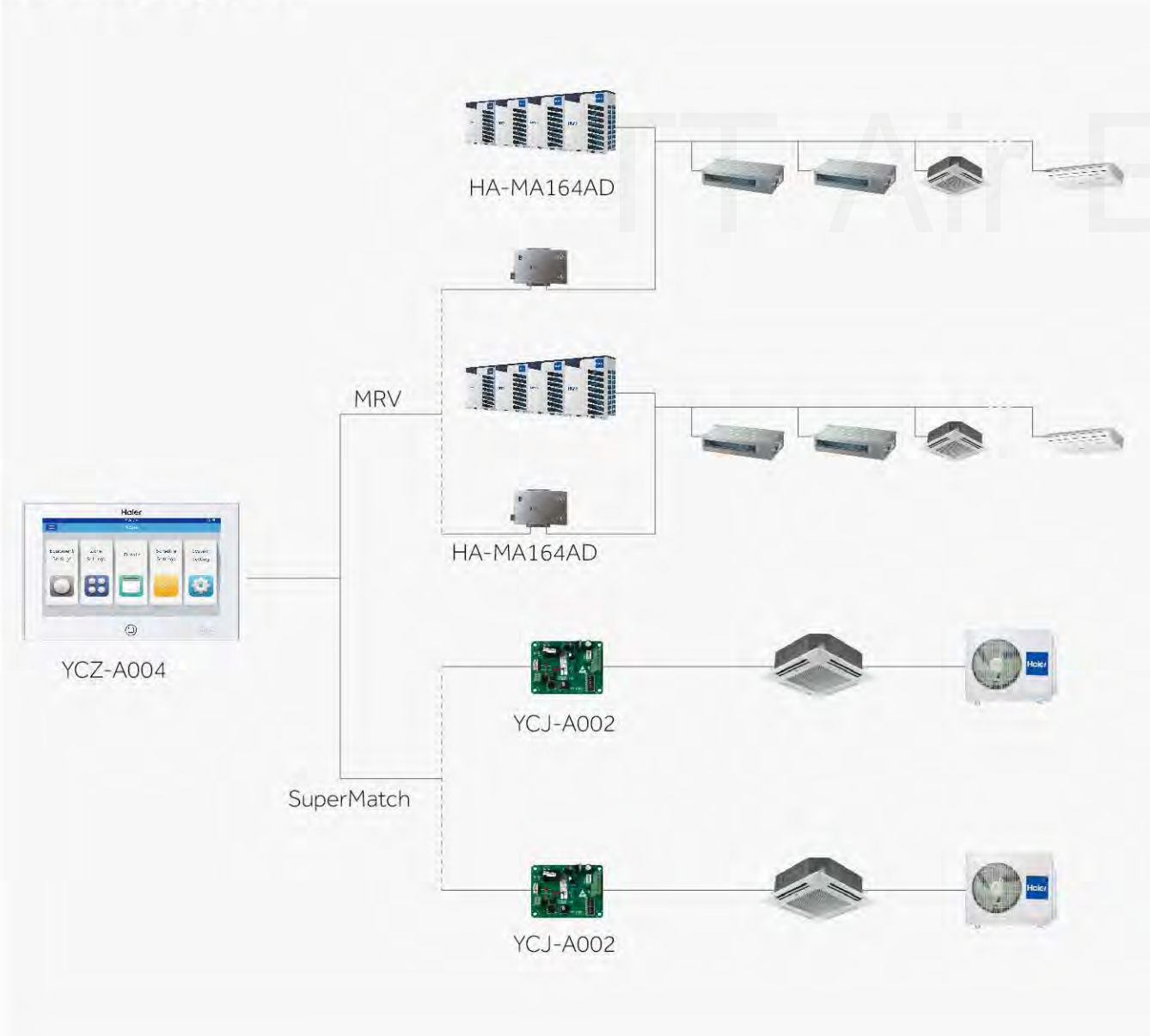
Centralized Controller

YCZ-A004

- Individual control, group control & central control (Max. 256 indoor units)
- 7-inch TFT LCD touch screen with back light
- Weekly timer
- Indoor units' information editable
- Error display
- Other MRV system requires HA-MA164AD



YCZ-A004 system



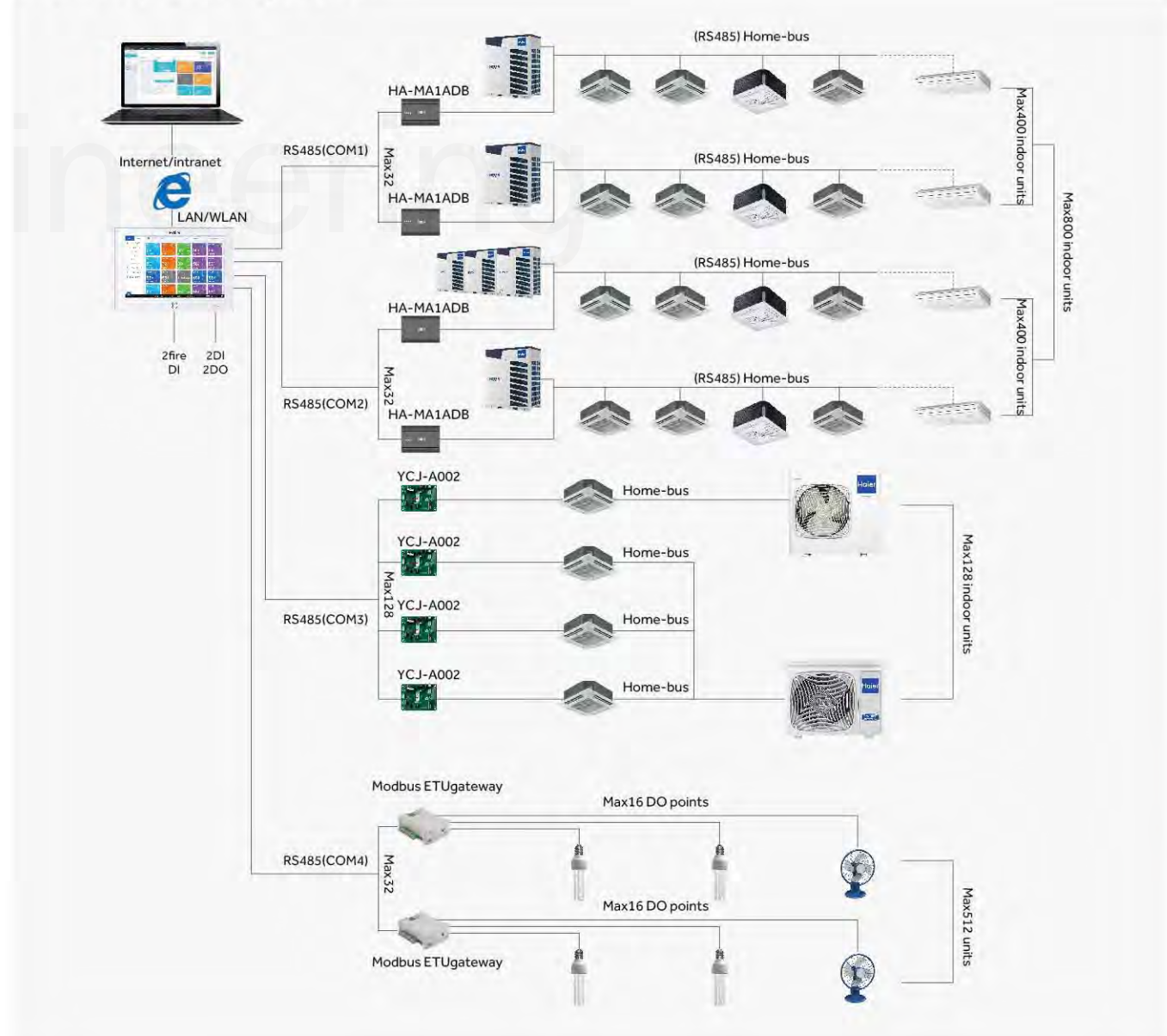
Centralized Controller

HC-LA1CDBT

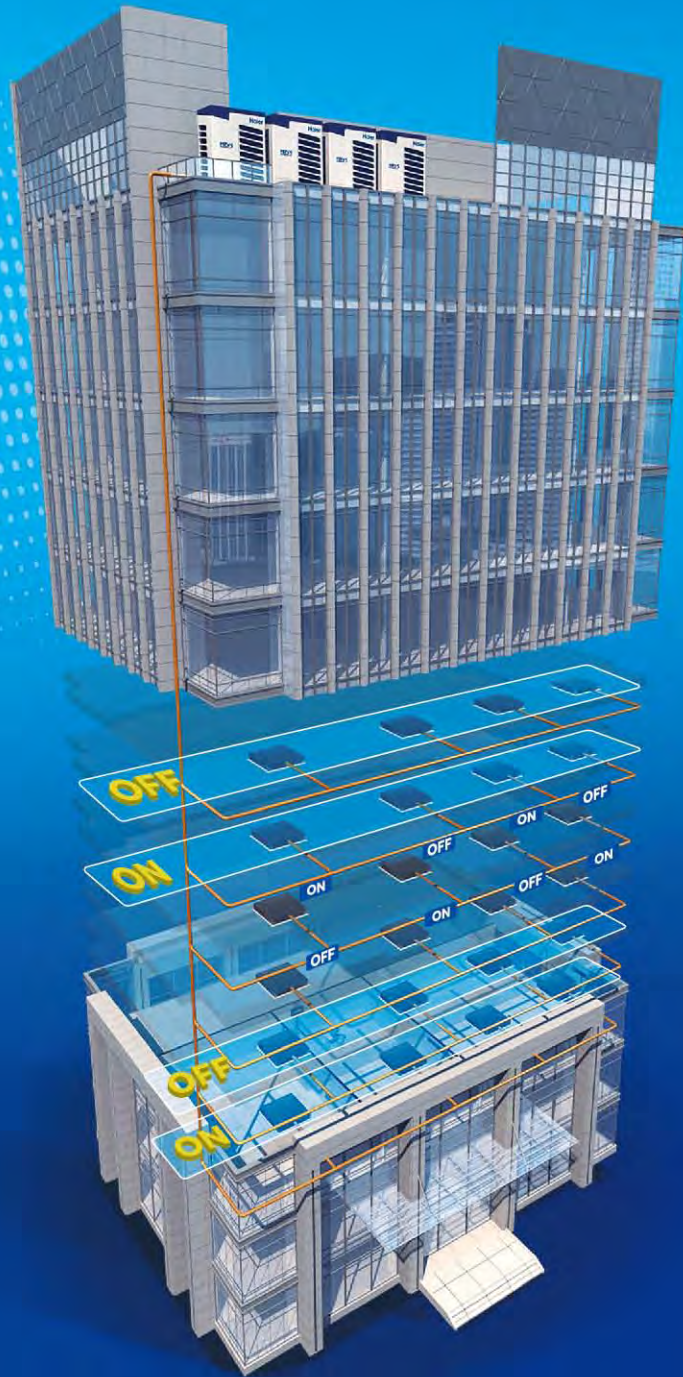
- 12.5-inch TFT LCD touch screen
- Max. 800 MRV indoor units and Max. 128 LCAC IDUs connectable for one controller totally 928 IDUS connectable
- Floor plan layout view
- Web access and email alarm
- Weekly schedule and special day setting
- Integrate 3rd party devices like fire alarm, lighting with Haier indoor units
- All MRV system requires the new gateway HA-MA1ADB(one system requires one gateway)
- LCAC products requires PCB adapter YCJ-A002(One IDU requires one YCJ-A002)
- Total electricity consumption display
- Data curve
- Electricity consumption distribution for tenant billing
- Multi language



HC-LA1CDBT system



BMS BMS Monitor



BMS Solution

The building management modules could perfectly integrate air conditioners into the building management system, providing an excellent solution for large commercial areas.

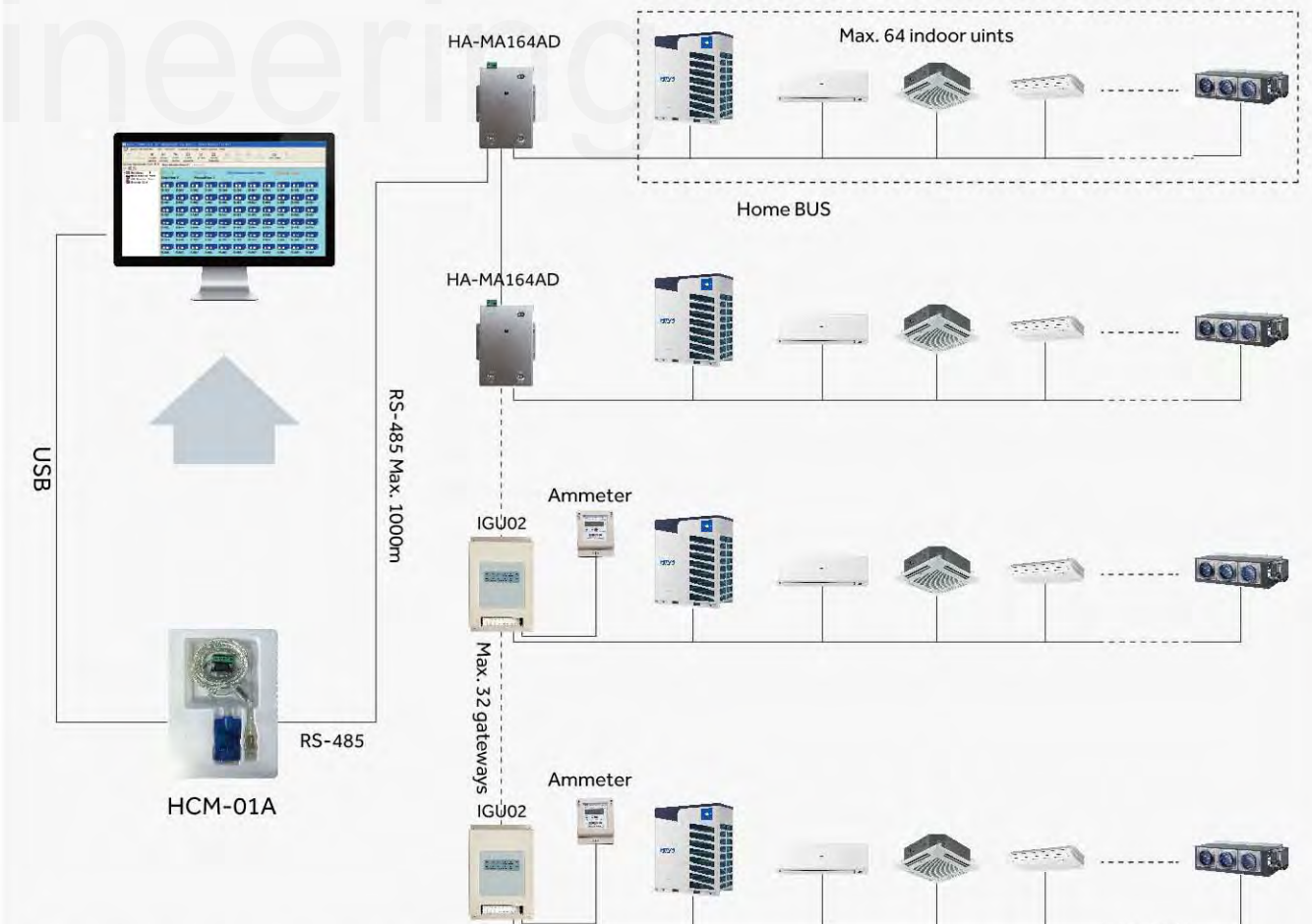
Haier BMS monitor system is used to meet the demands of remote monitoring and controlling the AC systems, 3rd party BMS or BAS interface and electricity distribution management i.g the tenant billing.

HCM-01A

- Local control version; convert USB to RS-485
- Max. 400 indoor units can be controlled
- Modbus rtu interface
- Brand new interface design
- Win 7 32bits/64bits, Win 8 Pro, Win 10 Pro
- Max.32 systems connectable
- MRV 5 system and upgraded MRV SII(8/10/12HP) outdoor units can directly connect with HCM-01A
- Other MRV system outdoor units require HA-MA164AD
- Electricity charge report (must use IGU02)



HCM-01A system

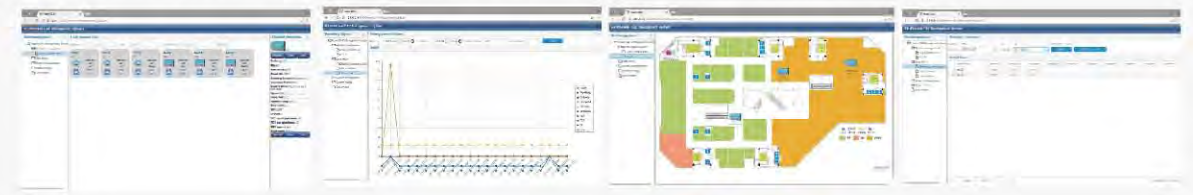


*Each outdoor system requires one HA-MA164AD; For power consumption function, users should connect IGU02 and ammeter.

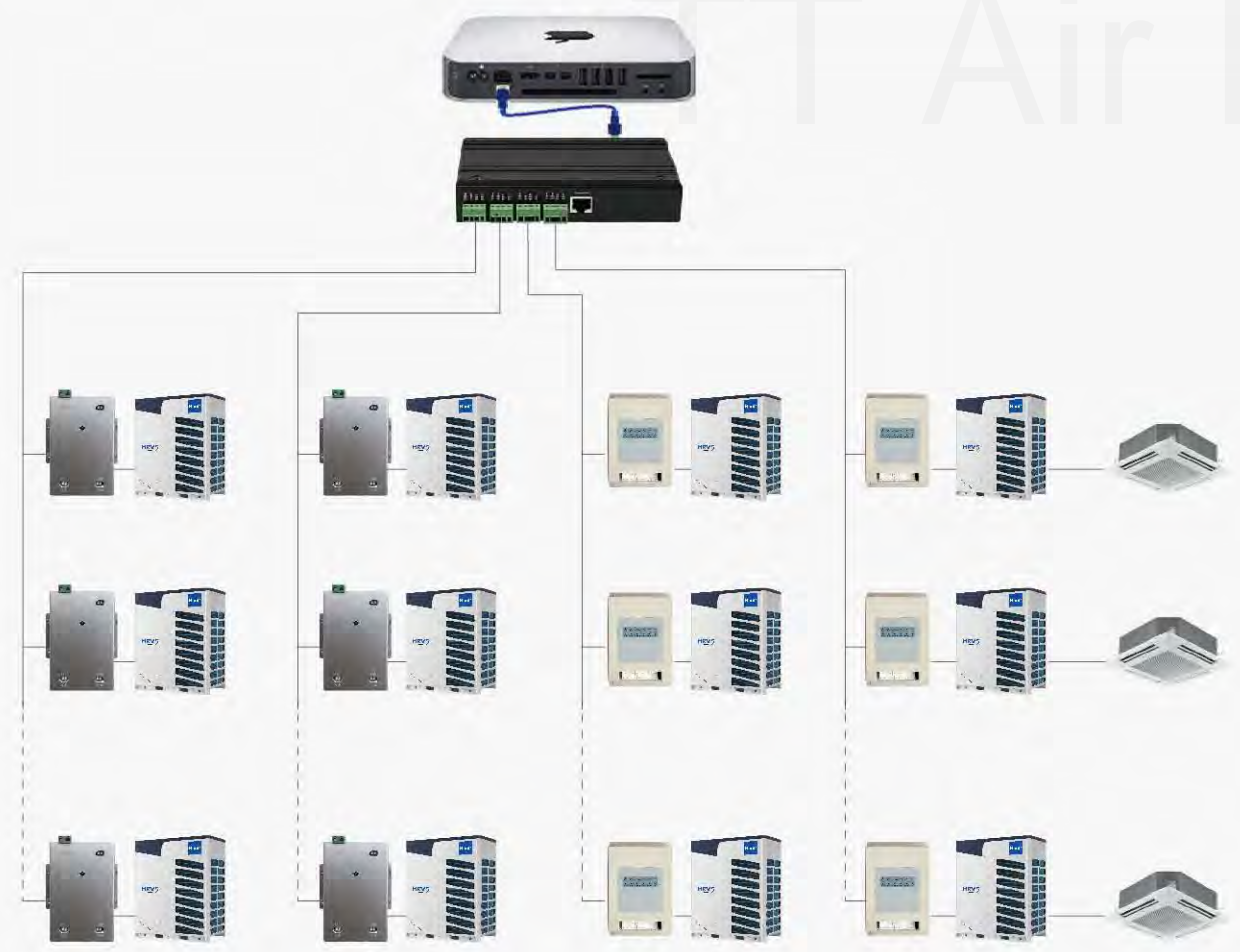
BMS **BMS Monitor**

HCM-03A

- Remote monitoring version; third party interface: BACnet ip/ modbus ip
- Max. 1500 indoor units can be controlled
- Max. 4 groups. Each group can connect 20 systems
- Other MRV system outdoor units require HA-MA164AD
- Operation status setting & monitoring
- Schedule setting
- Multi user management with different authorized levels
- Operation and error history log
- Electricity charge report (must use IGU02)
- MRV 5 system and upgraded MRV SII(8/10/12HP) outdoor units can directly connect with HCM-03A



HCM-03A system



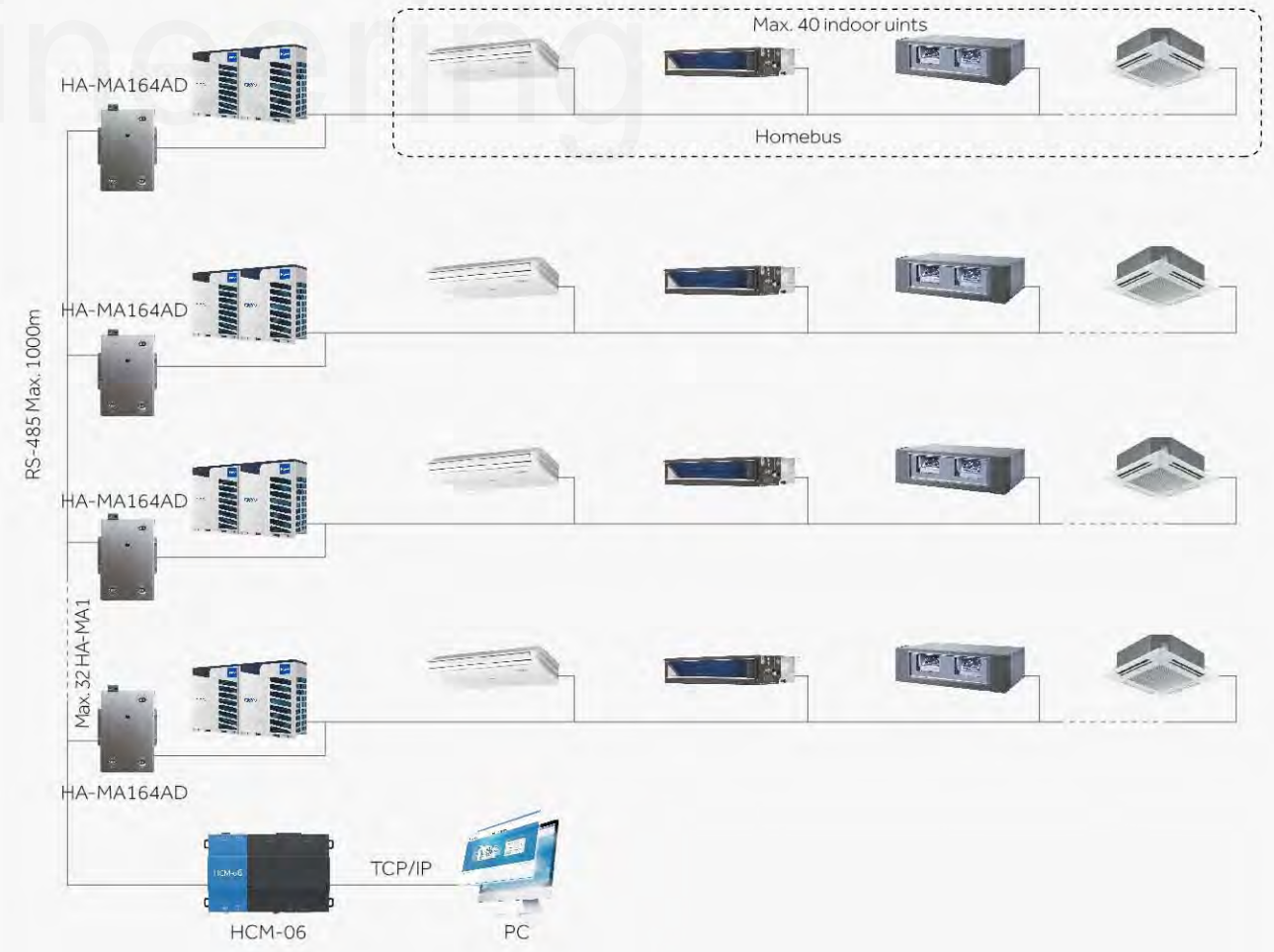
BMS **BMS Monitor**

HCM-06

- Remote monitoring version
- Third party interface: BACnet ip
- Max. 250 indoor units can be controlled for HCM-06
- Max. 32 systems for HCM-06. each system requires one IGU02/HA-MA164AD
- Operation status setting & monitoring
- Schedule setting
- Multi user management with different authorized levels
- Electricity charge report (must use IGU02)
- Operation and error history log
- Cooperated technology with honeywell



HCM-06 system





BMS interface

The adapters offer you an easy and convenient way to integrate air conditioners into various building management system; perfect for large commercial projects.

Haier BMS interface devices are used to connect the 3rd party BMS or BAS system, including the modbus interface, BACnet interface and lonworks interface, etc.

BMS BMS Interface

HA-MA164AD

- Protocol adapter, convert homebus to modbus
- Gateway: modbus rtu
- Max. 64 indoor units can be connected with one HA-MA164AD
- MRV 5 system and upgraded MRV SII (8/10/12HP) outdoor units can directly connect with central controller HC-SA164AD and YCZ-A004 or BMS monitor: HCM-01A and HCM-03A
- Other MRV system outdoor units require HA-MA164AD



HA-MA1ADB

- Interface: modbus
- Match with 12.5-inch webserver central controller HC-LA1CDBT
- Max. 128 indoor units connectable
- Digital tube display Indoor quantity, gateway address, time and date
- Electricity data collection, calculation, distribution and storage



IGU02

- Protocol adapter, convert homebus to modbus
- Electricity data collection, calculation, allocation and storage
- Match with BMS (HCM-01A,03A,05,05A), each system requires one IGU02
- Max.40 indoor units can be connected with one IGU02

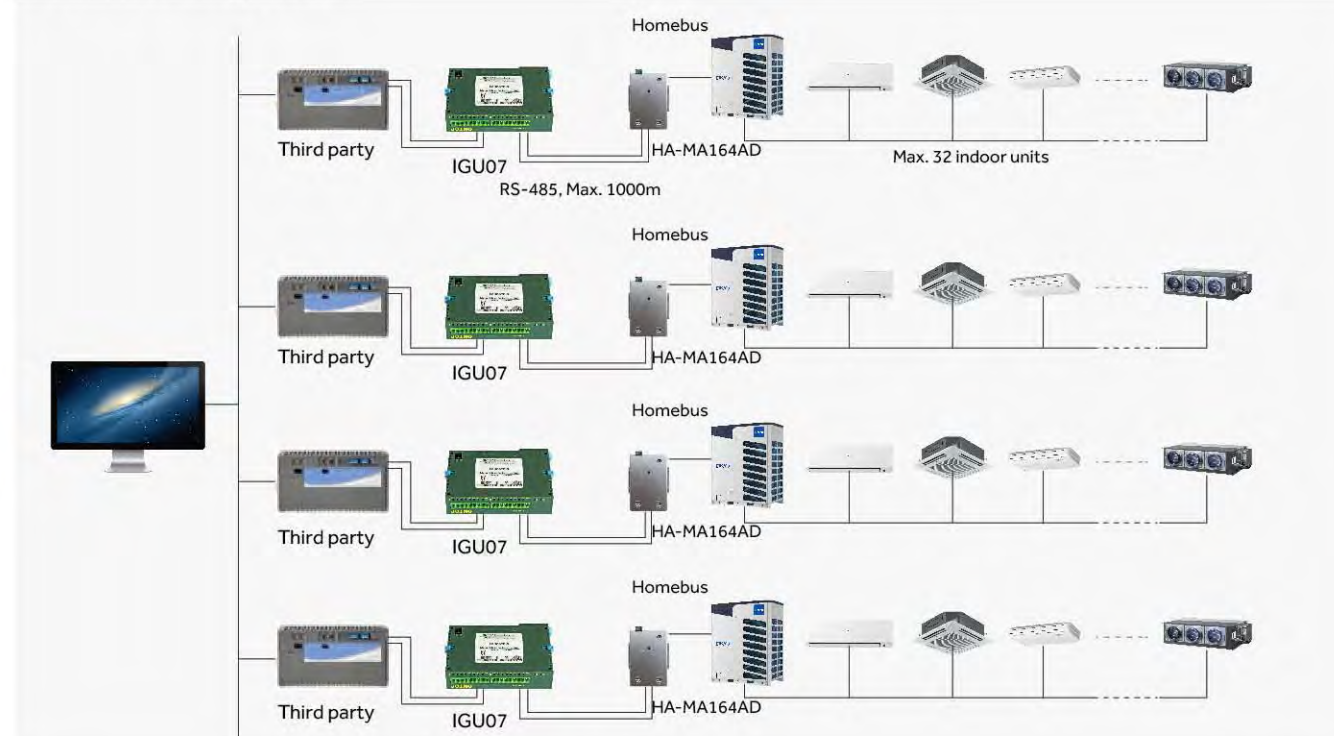


IGU07

- Protocol adapter, convert modbus rtu to lonworks
- Each system requires one IGU07+ HA-MA164AD
- Max. 32 indoor units can be connected in one system
- External 24V DC power supply is needed



LonWorks system



BMS BMS Interface

HCM-04

- BACnet gateway, convert modbus rtu to BACnet ip
- Max.128 indoor units/ 4 systems can be controlled. Max. 32 indoor units for one system
- MRV 5 and upgraded MRV SII (8/10/12HP) can connect directly with HCM-04.
- Other MRV systems require IGU02 or HA-MA164AD
- BTL certificate



HA-AC-KNX-8 / HA-AC-KNX-16 / HA-AC-KNX-64

- KNX gateway
- Convert modbus to KNX
- Max. 8/ 16/ 64 indoor units can be connected in one system
- MRV 5 and upgraded MRV SII (8/10/12HP) can connect directly
- Other MRV systems require HA-MA164AD
- *For the KNX gateway purchase, please contact the KNX manufacture Intesis directly

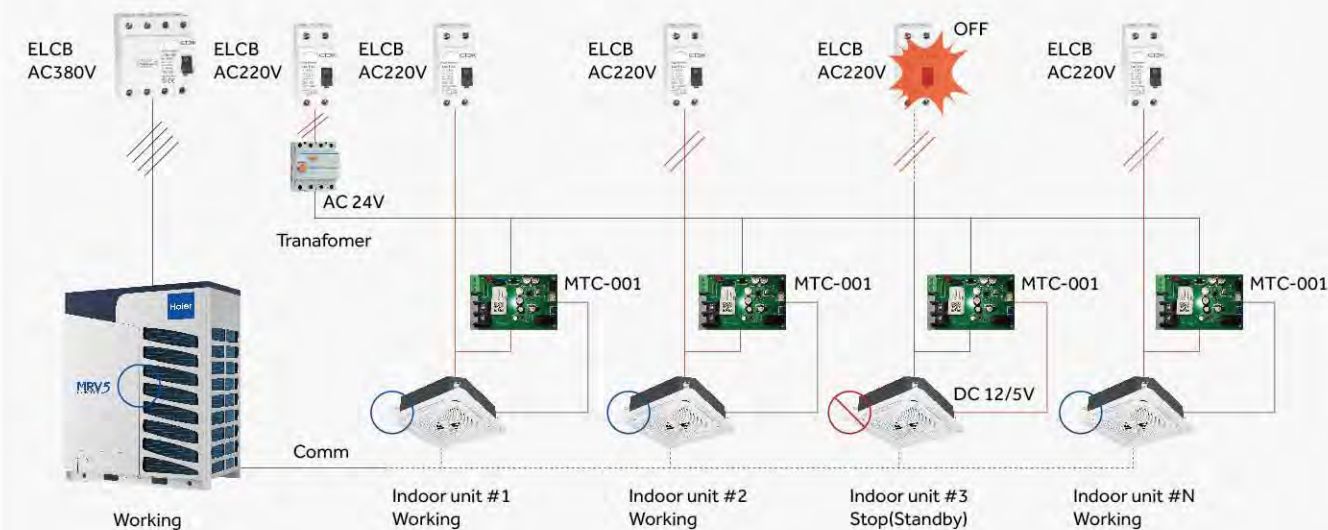


Multi Tenant Solution

MTC-001

Application Scenario:

- a. The multi tenant site using separate circuit breaker for each indoor unit
- b. The hotel room using key-tag system which cuts off the power of indoor unit directly
- When it is detected that any connected indoor unit is forcibly cut off, the MTC-001 provides DC power to the indoor PCB to ensure that the indoor unit maintains standby mode: the EEV is turned off and the control signal is blocked to prevent the system from alarming
- Note: If there is power or communication failure in the indoor computer board, MTC-001 cannot be prevented and detected



Service Tool

Address setting and checking tool YR-NS

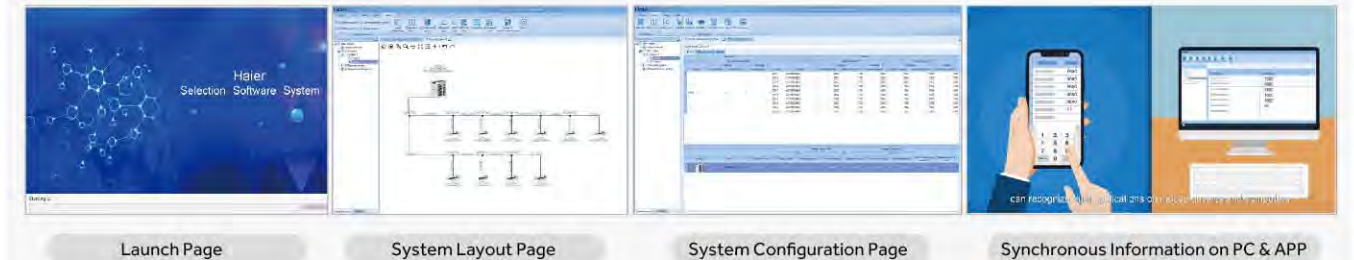
- On/Off, mode, fan speed, temperature setting, swing
- IDU address checking
- IDU address setting



Haier HACS Selection Software -easy to Design and Customization

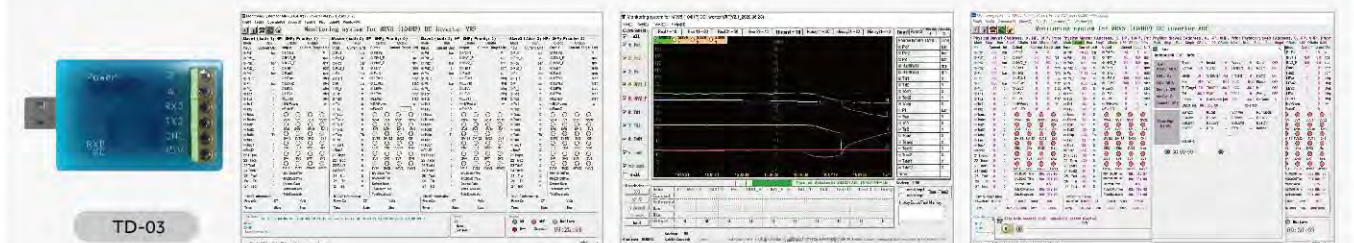
Haier HACS selection software supports PC & APP, which means the reports and information on the phone and computer are synchronous.

With the Haier MRV selection software, engineers and consultants can easily design, layout and prepare a full MRV system for quotation in a few steps. It selects the right models to meet your building load requirements and calculates the piping schematic automatically or manually, as well as the wiring. It's possible to import dwg or jpg drawings. The selection software guides you within design rules and offers a comprehensive system design report under pdf, word or excel format.



Service tool TD-03 with monitoring software

Installers can use TD-03 service tool together with monitoring software to realize real-time monitoring the operation data of VRF system through the PC. The running data and parameters can be used to analyze the error for fast troubleshooting. Also you can save the data for further analysis.



🔗 Controllers Match Table For MRV Indoor Units

Outlook	Series	Model						
			YR-HRS01	YR-HQS01	HW-BA116ABK	HW-BA101ABT	HW-SA201ABK	HW-PA201ABK
	1-way Cassette	AB**2MAERA	•	•	•	•	•	•
	2-way Cassette	AB**2MBERA	•	•	•	•	•	•
	Compact Cassette	AB**2MCERA(M)	•	•			•	•
	Round Way Cassette	AB**2MRERA	•	•			•	•
	4-way Cassette	AB**2MCERA	•	•	•	•	•	•
	Convertible	AC**2MDERA	•	•			•	•
	Slim Duct (0/15/30Pa) (Air Guard)	AD**2MSERA(H)	•			•	•	•
	Slim Duct (0/15/30Pa)	AD**2MSERA(D)	•			•	•	•
	Slim Duct (0/30Pa)	AD**2MSERA	•		•	•	•	•
	High ESP Duct (20/200Pa) (Air Guard)	AD**2MJERA(H)	•		•	•	•	•
	Medium ESP Duct (50/100 Pa)	AD**2MJERA AD**2MJERAB AD**2MJERAC	•	•	•	•	•	•
	High ESP Duct (20/200Pa)	AD**2MJERAD	•		•	•	•	•
	High ESP Duct (100-250Pa)	AD**2MGERA						•
	High ESP Duct (0-300Pa)	AD**2MTERAD		•			•	
	High Wall (N platform)	AS**2MFERA(B) AS**2MVERAC	•	•	•	•	•	•
	High Wall (N platform)	AS**2MFERA AS**2MFERAC	•	•	•	•	•	•
	Console	AF**2MBERA	•	•			•	•
	Built-in Floor Standing	AE**2MLERA	•	•	•	•	•	•
	Fresh Air Duct	AD482MJERF AD722MTERF AD962MTERF			•	•	•	•

• Controllers can match with the indoor unit.

🔗 Accessories

Name	Design	Model	Functions	For what units
Gather pipe		HZG-20A	Refrigerant gathering for MRV III, MRV III-PLUS	2 outdoor units
Gather pipe		HZG-30A	Refrigerant gathering for MRV III, MRV III-PLUS	3 outdoor units
Gather pipe		HZG-20B	Refrigerant gathering for MRV IV, MRV 5	2 outdoor units
Gather pipe		HZG-30B	Refrigerant gathering for MRV IV, MRV 5	3 outdoor units
Gather pipe		HZG-R20A	Refrigerant gathering for MRV III-RC	2 outdoor units
Gather pipe		HZG-R30A	Refrigerant gathering for MRV III-RC	3 outdoor units
Gather pipe		HZG-R20B	Refrigerant gathering for MRV 5-RC	2 outdoor units
Gather pipe		HZG-R30B	Refrigerant gathering for MRV 5-RC	3 outdoor units
Gather pipe		HZG-R40B	Refrigerant gathering for MRV 5-RC	4 outdoor units
Manifold pipe		FQG-B335A	Refrigerant distribution for heat pump MRV	Total indoor units capacity less than 33,500W
Manifold pipe		FQG-B506A	Refrigerant distribution for heat pump MRV	Total indoor units capacity less than 50,600W, but equal or bigger than 33,500W
Manifold pipe		FQG-B730A	Refrigerant distribution for heat pump MRV	Total indoor units capacity less than 73,000W, but equal or bigger than 50,600W
Manifold pipe		FQG-B1350A	Refrigerant distribution for heat pump MRV	Total indoor units capacity less than 135,000W, but equal or bigger than 73,000W
Manifold pipe		FQG-R335A	Refrigerant distribution for heat recovery MRV	Total indoor units capacity less than 33,500W
Manifold pipe		FQG-R506A	Refrigerant distribution for heat recovery MRV	Total indoor units capacity less than 50,600W, but equal or bigger than 33,500W
Manifold pipe		FQG-R730A	Refrigerant distribution for heat recovery MRV	Total indoor units capacity less than 73,000W, but equal or bigger than 50,600W
Manifold pipe		FQG-R1350A	Refrigerant distribution for heat recovery MRV	Total indoor units capacity less than 135,000W, but equal or bigger than 73,000W
Manifold pipe		FQG-B2040A	Refrigerant distribution for heat pump	Total indoor capacity less than 204,000W but equal or bigger than 135,000W
Manifold pipe		FQG-R2040A	Refrigerant distribution for heat recover	Total indoor capacity less than 204,000W but equal or bigger than 135,000W
VP box		VP1-112A, VP1-180A VP1-280A	Vavle pipe box	MRV III-RC(heat recovery)
VP box		VP4-450A	Vavle pipe box	MRV III-RC(heat recovery)
VP box		VP1-112C, VP1-180C VP1-280C	Vavle pipe box	MRV 5-RC(heat recovery)
VP box		VP4-450C	Vavle pipe box	MRV 5-RC(heat recovery)