Inverter Mini Chiller (Heat Pump)

- Cooling capacity: 9.4kW ~ 40.0kW
- Heaing capacity: 9.8kW ~ 41.0kW

R410A
ODP=0

McQuay®
Air Conditioning

Engineered for flexibility and performance.™

Four core strengths

Unsurpassed · Be the legend

By applying the cutting-edge inverter technologies of the group and inheriting the cooling water technologies based on profound foundation, McQuay grandly came out with new series of DC inverter household central air conditioners following the household central air conditioners first launched, resetting up a model in the industry of household central air conditioners.

Energy saving

- **4.90** The highest IPLV, reaching the pinnacle of household central air conditioner field.
- **3.22** The highest COP, awarded the national energy saving certificte.

Silent

- **8** noise reduction technologies, with double silent mode.
- **10dB(A)** ultimate noise reduction for the comfort of a quiet environment.

Comfortable

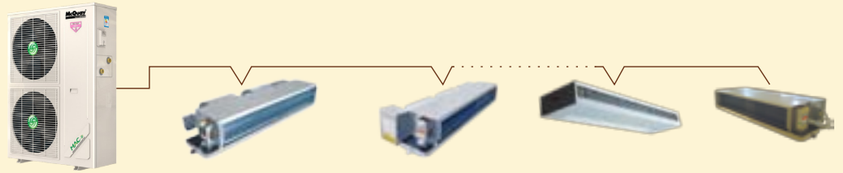
- **±1ºC** temperature fluctuation for the brand-new realm of coziness
- **15%~120%** output, supports superb floor heatin.

Stable

- **3** anti-freezing protection measures for the steadiness of the unit.
- **-15~48ºC** ultimate operating range for the all-weather operation of the unit.

Contents

Product line up



Outdoor unit | Super slim indoor unit | DC inverter indoor unit | Large temperature difference ceiling exposed indoor unit | Large temperature difference ceiling concealed indoor unit

Horse Power (HP) of outdoor unit			3	4	5	6	7	8	10	12	15
Central air conditioner outdoor unit	Side air discharge		●	●							
					●	●	●	●			
	Top air discharge								●	●	●

Specifications of indoor unit (CFM)			200	300	400	500	600	700	800
Indoor unit	Super slim MCW-VC		●	●	●	●	●	●	●
	DC inverter MCW-EC		●	●	●	●	●		●
	Large temperature difference ceiling exposed MCW-AA		●	●	●		●		●
	Large temperature difference ceiling concealed MCW-DA		●	●	●	●	●		●

Note: ● indicates 220V power supply, ● indicates 380V power supply; the unit conversion of air flow: 1CFM = 1.7m³/h.

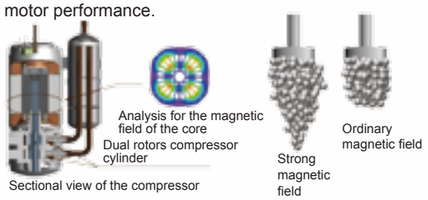
Features

Inverter for energy saving

High efficiency DC inverter compressor

O High efficiency dual rotors design

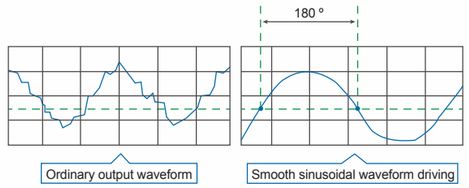
Neodymium magnet rotor motor can produce a strong permanent magnetic field to greatly enhance the compression torque and ensure the high-efficiency operation of the compressor; the CAE software optimizes the shape of tooth-shaped stator core and improves the motor performance.



Note: Inverter compressors are adopted for 3HP to 8HP units.

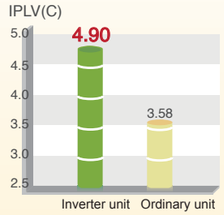
O Vector inverter control technology

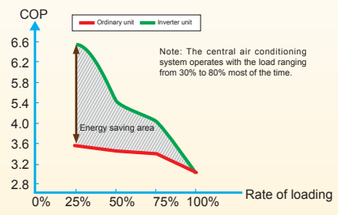
Capable of generating a smooth 180 degree sinusoidal voltage waveform, allowing the stator coil of the compressor to constantly form a steady rotating magnetic field and effectively reducing the compressor vibration and noises.



Highest IPLV value of the industry

Through elaborate design and the matching tests conducted nationally recognized laboratories, the Integrated Part Load Value (IPLV) can reach 4.90, which is at the highest level in the industry of household central air conditioners. The maximum COP of the series reaches 3.22, which passed the national energy saving certification, and can save operating cost for customers and bring a profitable return from energy saving.

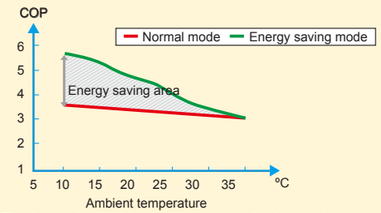




TIPS: The conventional standard for measuring energy saving performance of air conditioners is COP at full load, but air conditioners operate with partial load for 90% of the time. Therefore, COP at full load does not truly reflect the energy saving performance of the unit for the whole year. As the energy efficiency indicatorof the unit at various loads have been taken into account in Integrated Part Load Value (IPLV), the IPLV reflects the energy saving performance of air conditioningsystems more accurately and objectively.

One-key energy saving mode

The system automatically adjusts the outlet water temperature and intelligently optimizes energy efficiency of partial load according to changes in the ambient temperature and the load demand, achieving the best energy saving state and saving energy by over 15%.



Note: The lower the ambient temperature, the better the energy saving performance (take the cooling operation as an example).

Features

Silent and low noise

Eight noise reduction technologies

O Variable speed fan motor

The motor operates at a low speed in the silent mode, and the maximum noise reduction of the unit reaches 10dB (A). 3-speed motor for 3-8HP, BLDC motor for 10-15HP.

O New vortex fan blade

It effectively resists the vibration caused by the air flow and reduces the pressure loss.

O Metal grille with low wind resistance

It reduces the turbulent flow of the air suction and discharge to promote discharge of the heat exchange air flow and reduce the noises of air flow.

O Vibration reduction spacer of the compressor

It effectively absorbs the compressor vibration, avoiding the chassis vibration driven by the compressor.

O Optimized piping design

It reduces the piping vibrat ion and resonance generated during the operation of the air conditioner and decreases the noises of pipeline vibration.

O High quality low-noise pump

A fully enclosed motor is adopted for the water pump to effectively reduce noise transmission (with ultra low noises).

O Noise reduction design of the compressor

The balancing design of double rotors is adopted for the inverter compressor to reduce vibration and ensure quiet operation.

O Noise reduction through sound-absorbing cotton

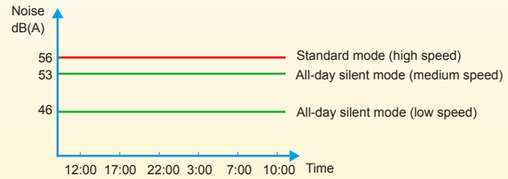
The inverter compressor is covered with five layers of sound-absorbing materials to minimize noises.

Silent mode

The unit can be set to all-day silent mode and night silent mode. In the silent mode, the unit intelligently regulates the fan speed based on its operating status and the outdoor ambient temperature to realize the medium-speed or low-speed silent operation. In this way, the unit will be constantly in the best operating status, and the running noises can be reduced by a maximum of 10dB (A), creating a quieter living environment for the family.

O All-day silent mode

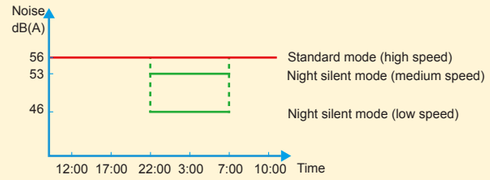
The fan motor runs at the medium speed or low speed all the day, ensuring a quiet and comfortable environment for you.



Note: take MAC040ER5 as an example

O Night silent mode

The fan motor runs at the medium speed or low speed at nighttime, creating a quiet sleeping environment for your family.



Note: take MAC040ER5 as an example

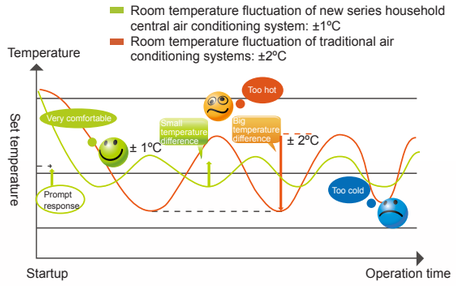
Features

Comfortable and healthy

Ultimate comfort

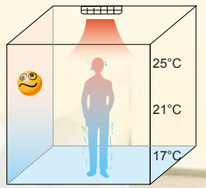
The unit monitors the parameters such as the temperature and pressure of the system in an all-round way, and can adjust the capacity stably according to the indoor load demand. The indoor temperature control is more precise, avoiding fluctuations in air supply temperature of traditional air conditioners and allowing you to enjoy the ultimate comfort.

Water is used as the refrigerating medium for the heat exchange between the unit and the indoor air (equivalent to the direct evaporation system of the refrigerant) to prevent fluctuations in the air supply temperature caused by shutdown of some indoor units. In addition, the indoor unit features lower air outlet temperature and more excellent dehumidification performance. The unit can also be provided with a fresh air system to improve the indoor air quality.

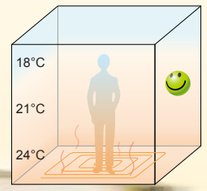


Floor heating

With its unique floor heating mode, new series household central air conditioners achieve the function of one-key floor heating. As the mainstream heating mode in Europe, floor heating distributes the room temperature evenly, making the body feel more comfortable. The ultimate double-variable technology of inverter household central air conditioner is perfect for the floor heating project. In the initial state of floor heating, the overclocking operation with 120% of the nominal capacity can be achieved and the heating water outlet temperature of 55°C is also possible to quickly reach the set temperature to be; in the floor heating mode, the unit can operate at low frequency with a low water flow and partial capacity to guarantee long-term low load operation of floor heating so that you can enjoy the natural heating mode of feeling cool at the head and warm at the feet.



Temperature distribution of air conditioning heating



Temperature distribution of floor heating

Technical support	Rapid floor heating of the initial stage	Long-time running and stable floor heating
Inverter compressor	Overclocking operation to generate more heat	Low frequency operation to save more electricity
Variable speed water pump (variable frequency water pump or doublespeed water pump is available)	Large water flow to output more heat	Small water flow to realize output on demand
Intelligent temperature control	Maximum water temperature to achieve faster heat exchange	Stable water temperature to avoid dry air

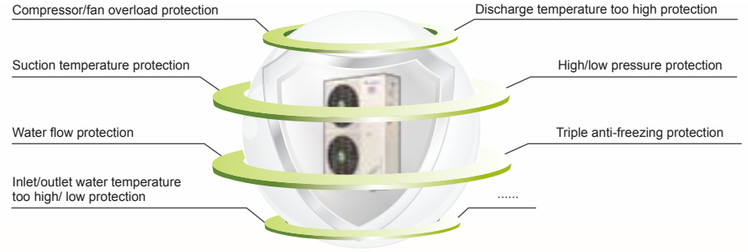
Features

Safe and reliable

Full protection

○ Comprehensive safety protection

The pressure sensor, high pressure switch and temperature sensor are used to implement real-time monitoring on parameters such as system pressure and temperature as well as comprehensive protection of the unit and system to realize more accurate control and more steady operation.



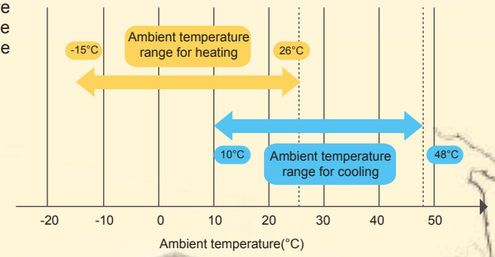
○ Triple anti-freezing protection

- Anti-freezing through water pump operation: The unit will start the built-in water pump to implement the anti-freezing cycle if the water temperature of the system is too low in the standby mode.
- Anti-freezing through unit heating: Once the water temperature exceeds the range of safety parameters, the unit will start the heating anti-freezing cycle until the water temperature returns to the preset safety value.
- Automatic anti-freezing through water discharge (optional): The water temperature of the system decreases with the falling ambient temperature in case of power failure. The automatic water discharge anti-freezing valve carries out intelligent judgment according to the system water temperature, and discharges the chilled water of the system automatically to prevent frost damage to the unit.

Wide operating range

The unit operates normally in the ambient temperature range of -15°C to 48°C and supplies outlet water in the wide temperature range of 5°C to 55°C, meeting the diversified heating and cooling requirements of users.

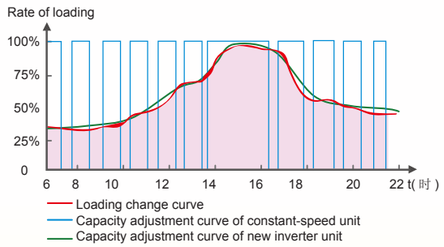
Note: 10-15HP units heating range reaches lowest -20°C



Features

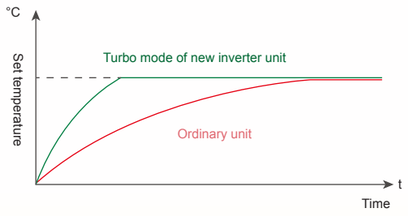
Stepless capacity regulation

New series inverter household central air conditioners realize 15% to 120% stepless capacity regulation and accurate output at partial load to reduce the energy consumption of the compressor and achieve the energy saving objective of output on demand.



Turbo mode

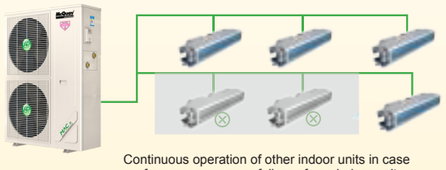
After the air conditioner starts, the compressor starts immediately and operates in a proper state according to the ambient temperature and the temperature set by the user to ensure that the indoor temperature reaches the set temperature in a short period of time, and quickly meet the heating or cooling requirement of the user.



Dual power failure protection function

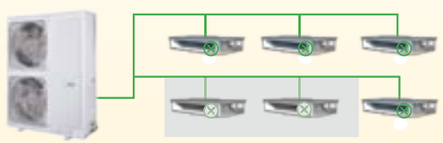
○ Continuous operation of the system in case of emergency power failure of the indoor unit

The system is provided with the function of resisting power failure of the indoor unit. The system can still operate in case of breakdown or emergency power failure of one or several indoor units.



Continuous operation of other indoor units in case of emergency power failure of one indoor unit

New inverter household central air conditioner

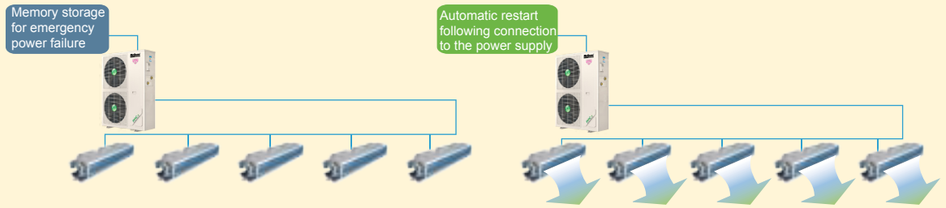


Immediate shutdown of other indoor units in case of emergency power failure of an indoor unit

Ordinary fluoride system inverter VRF unit

○ Automatic startup when the power supply is resumed (on-site setting is required)

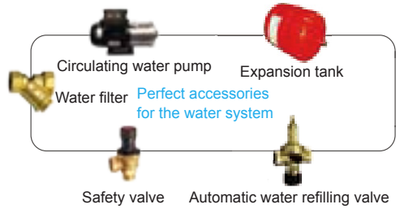
In case of emergency power failure of the air conditioning system, the system automatically records the operating mode prior to the power failure. After the power supply is resumed, the system automatically restores to the operating state prior to the power failure. It is quite convenient for the user due to intelligent control of the system.



Application

Perfect system configuration

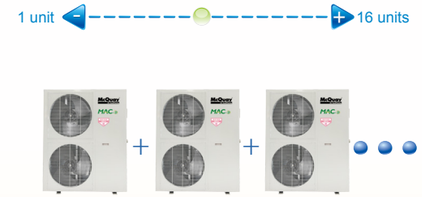
Integrated design is adopted for the unit, and the water system is provided with a complete set of accessories. The occupied area and installation cycle of the water system can be reduced, thus saving the installation costs and enhancing the overall reliability of the air conditioning system. The user only needs to connect the unit to the indoor unit through the chilled water pipe to complete the installation of the water system.



Note: The water filter, safety valve and automatic water refilling valve are accessories of the units.

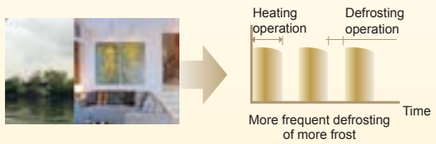
Combination of modules

Modular design is adopted for new series household central air conditioners, and each group can realize the free combination of 1 to 16 units to easily meet the refrigeration demand of super-large luxury villas (500 to 2000 m^2). In case of breakdown of one unit in the combined modules, the other units can normally operate. With superior backup for the normal operation, the user can rest assured in using the units.

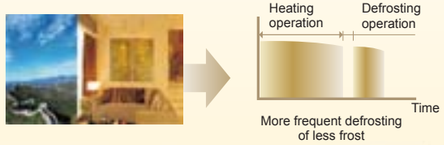


Intelligent defrosting

By accurately judging the frosting condition, the unit can enter the intelligent defrosting mode to converge the system heat to the utmost extent to melt the frosting layer and shorten the defrosting time, avoiding problems such as incomplete or frequent defrosting. Manual forced defrosting can be set for heating in the extreme low-temperature environment.



High humidity area: Frosting is not rare at the temperature of 0°C and the relative humidity of 70%.



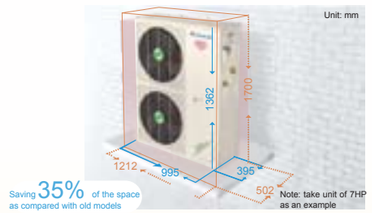
Low humidity area: Frosting is relatively rare at the temperature of -5°C and the relative humidity of 30%.

Application

Flexible installation

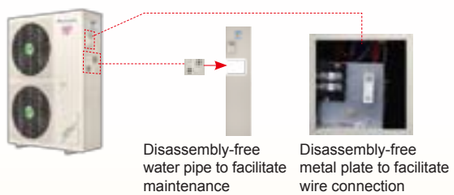
Outstanding space-saving design

The unit in a newly designed structure occupies a small area and can be placed in the front of or at the back of the house, on the balcony or roof. With the pipes designed to be connected to the side of the unit, the distance between the unit and the wall can be minimized when the unit is installed at the windowsill so as to save the installation space and allow the installation and maintenance to be more convenient and flexible.



Unique disassembly-free design

The metal plate of the unit and the metal plate at the water pipe are separated from each other. It is unnecessary to remove the water pipe during the maintenance. The maintenance can be performed after drawing the side plate to the rear. The unit is provided with wire connection lids. There is no need to remove the peripheral metal plate in the wire connection process. The wire connection is quick and simple, and can be completed after removing the wire connection lids.



Disassembly-free water pipe to facilitate maintenance

Disassembly-free metal plate to facilitate wire connection

No performance degradation associated with the pipe length

The flowing medium at the indoor side of new series household air conditioning systems is liquid water. Compared with the indoor unit of fluoride system, there is no problem of performance degradation caused by the length of the connecting pipe. In this way, the requirements for the installation of long connecting pipes can be met.

Item	New household central air conditioner	Traditional fluoride system air conditioner
Performance degradation associated with the pipe length	The performance is not affected by the connecting length of the water pipe.	The performance degradation is quite obvious, and the length and height difference of the connecting pipes are limited.
Indoor system	Water is used as the medium, and refrigerant does not need to be filled.	The cost is high because a large quantity of refrigerantneeds to be filled.
Indoor/outdoor unit cooling capacity exceeding rate	The cooling capacity exceeding rate is not restricted, and only the diversity factor needs to be considered.	The maximum cooling capacity exceeding rate for most VRF units is 130%
Safety performance	The water system is environment-friendly and safe, and the connectionprocess is mature and reliable.	Too many welding spots during installation lead to the high possibility of refrigerant leakage, which could endanger the safety of human body.
Maintenance performance	The leakage of the water system can be easily detected and timely maintenance can be carried out.	It is hard to notice the refrigerant leakage, and the escaped refrigerant needs to be replenished every year.

Application

Optional function configuration

Optional functional components

The unit is characterized by a variety of optional functions or components for convenient selection and flexible application to fully meet the requirements of users under different situations.

Item	ModBus protocol	Silent mode	Y-shaped water filter	Anticorrosive aluminum	High-lift water pump	Variable frequency water pump (with the frequency converter being placed externally)	Double-speed water pump	Interlocking controller of the indoor unit	Automatic anti-freezing drain valve
Description	Convenient access to the smart home system	Making the household environment quieter	Filtering impurities of the water system	Recommended for coastal residences	Used when the installation height difference between the indoor unit and outdoor unit is relatively large	Recommended for application in floor heating	Saving operating expenses	Realizing the interlocking control of the indoor/ outdoor unit	For applications in cold regions
Options	●	●	●	○	○	○	○	○	○

● indicates standard configuration ○ indicates optional configuration Note: For options please consult McQuay

Pump head (optional)

Standard circulating water pump for new household central air conditioner. The circulating water pump with a higher lift could be selected for MAC100-150ER5 unit and variable frequency water pump could be selected for all units to meet the diversified installation requirements.

Unit model	MAC	030ER5	040ER5	050ER5	060ER5	070ER5	080ER5	100ER5	120ER5	150ER5
Standard external lift	m	15	14	18	22	24	22	25	22	18
Lift of high-lift water pump	m	-	-	-	-	-	-	31	28	26

Leaving water temperature control is optional

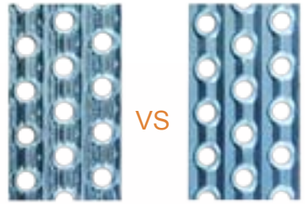
Outlet water temperature control is optional for the unit to accurately control the outlet water temperature of the unit. The insignificant fluctuation in water temperature avoids fluctuations in the air supply temperature of the indoor unit and ensures the true enjoyment of air conditioning.

Technologies

Highly efficient heat exchange design

New high-efficiency inner-grooved copper tube is adopted for new series household central air conditioners to effectively increase the flow rate of the refrigerant and enhance the turbulent flow of the refrigerant, thereby greatly enhancing the heat exchange efficiency.

Hydrophilic aluminum and optimized heat exchange fin are adopted to effectively improve the heat exchange efficiency and enhance the heating and cooling performance of the unit.



Highly efficient hydrophilic aluminum fin

VS

Common fin

Inner-grooved copper tube

The contact area of the refrigerant increases to implement more thorough heat exchange and higher efficiency.

VS

Common copper tube

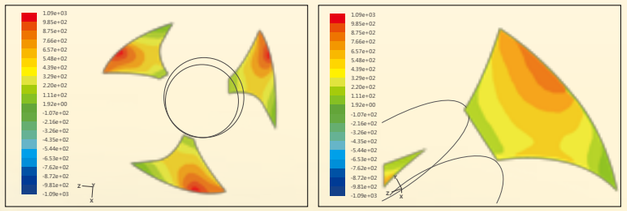
The contact area of the refrigerant is small, leading lower heat ex change efficiency.

Variable speed fan motor

The energy-saving variable speed fan motor selected for new series household central air conditioners can intelligently regulate the motor speed during the operation according to the load demand and low noise requirement. The motor with its dust and water protection grade reaching IP54 (IP43 for 10-15HP units BLDC motor) can effectively prevent the accumulation of harmful dust and withstand the washing of rainwater. The ideal selection ensures the quality, as well as reliability and durability of the product.

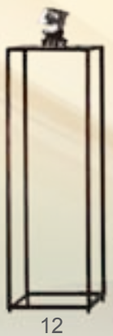
New vortex fan blade

The blade edge of the fan is designed to form vortex lines to improve the heat exchange efficiency at the air side. In this way, more air will be available for unit to implement heat exchange with the heat exchanger in unit time, thus ensuring the optimized heat exchange efficiency.



Simulation analysis diagram for the blade surface pressure

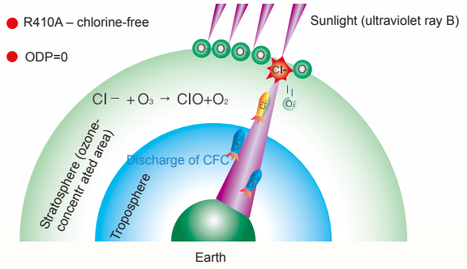
Low-noise fan blade



Technologies

Environment-friendly refrigerant

R410A is an internationally recognized environment-friendly refrigerant with Features such as steadiness, non-toxicity and excellent performance. As it does not contain chlorine, it does not cause any damage to the ozone layer. Thanks to the sound cooling capacity per unit volume, R410A can effectively enhance the performance of the unit.



Electronic expansion valve

The 480-step electronic expansion valve imported with original packaging is adopted for the unit to realize accurate throttle control and dynamic matching of the cooling system. Due to fast reaction, high action speed and elimination of static overheating, the unit can constantly operate at the optimized energy efficiency level, thus cutting down the operating expenses of the unit.

Electronic expansion valve for new series

The high-precision electronic expansion valve with accurate refrigerant control ensures that the unit operates in the optimal status all the way.

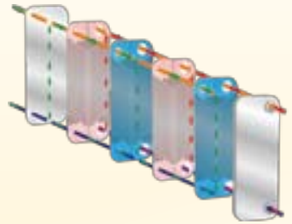
VS

Common thermostatic expansion valve

The traditional thermostatic expansion valve with lagging refrigerant control leads to low stability and high power consumption during operation of the unit.

Brazed plate heat exchanger

The stainless steel brazed plate heat exchanger of world renowned brand uses the new type of heat exchange technology by cross forced convection to achieve higher heat exchange efficiency. The new type of low resistance fin design can effectively lower the fluid resistance at the refrigerant side and the water side, conducive to giving full play to the capacity of the compressor and lowering the power consumption of external water pumps.



Stainless steel multistage centrifugal pumps

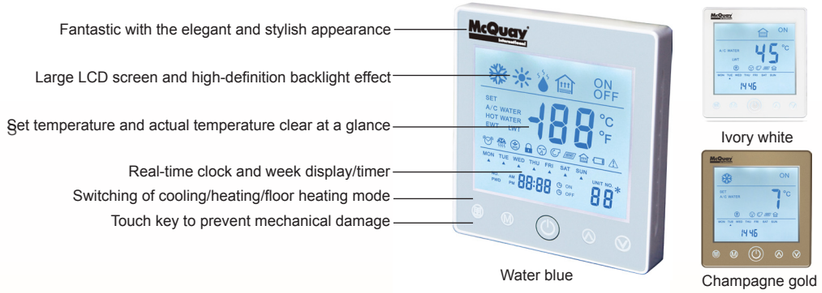
The stainless steel multistage centrifugal pump of maintenance-free mechanical seal design is adopted for the unit, and all the past components of the water pump are made of stainless steel. The pump is characterized by advantages such as ultra low noises, resistance to light corrosion, small size, light weight and long service life. For applications of low load operation on a long-term basis, variable frequency water pumps and double-speed water pumps are also available for selection.

Intelligent control

Wired controller for outdoor unit

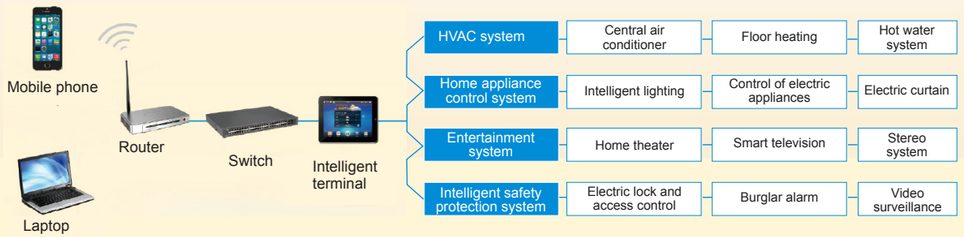
The stylish appearance is created by relying on the top domestic industrial design organization. The wireless controller uses the full touch screen control of easy operation to realize easy control on the air conditioning unit.

The standard color for the touch screen-type wired controller is water blue with color options of ivory white and champagne gold to harmonize with the interior decoration freely.



Standard access to the smart home

The standard configuration of RS485 building communication interface for the unit and ModBus communication protocol is standard for convenient and direct access to the smart home system.



Intelligent control

Interlocking control

O Interlocking control of wall-mounted oven

The built-in water pump of the unit can be used as the power equipment for the hot water circulation of the wall-mounted oven under the water pump mode.

O Interlocking control of the chilled water pump

The startup and shutdown control of the water pump is optimized to prevent fault alarm of the unit caused by poor heat exchange efficiency at the water side.

O Auxiliary heat source interlocking control of the system

The auxiliary heat source starting conditions are judged through multiple variables to realize intelligent control on startup and shutdown of the auxiliary heat source.

O Remote power-on/off control

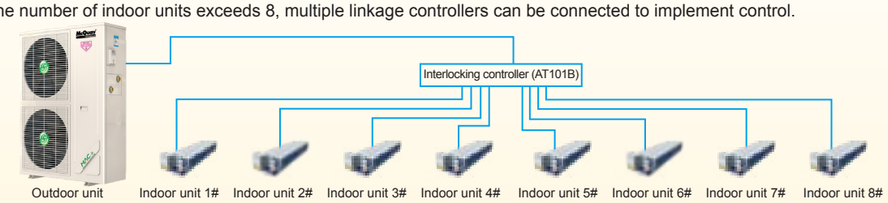
Startup and shutdown of the unit are controlled through remote power-on/off control to make operations faster and more convenient.

O Remote mode selection and control

The unit can be switched between the cooling mode, heating mode, and floor heating mode through remote mode selection and control.

Indoor/outdoor unit interlocking control solution

Intelligent control on the startup and shutdown of the outdoor unit is implemented according to the use conditions of the indoor unit/floor heating to realize automatic operation and simple and convenient control. The conventional electric twoway valve interlocking control solution (optional) delivered by McQuay can provide the linkage control interlocking solution (optional) for the indoor unit, where each linkage controller can be connected to up to 8 indoor units. In case that the number of indoor units exceeds 8, multiple linkage controllers can be connected to implement control.

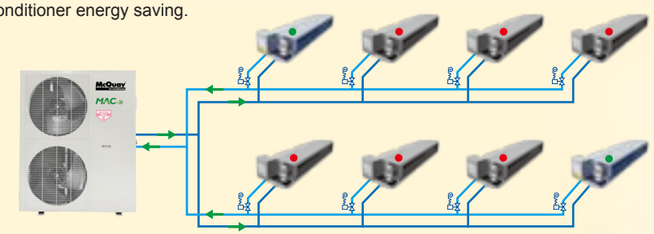


Note: The blue line indicates the interlocking communication line of the indoor unit, and the interlocking controller is an optional accessory.

New Option: New thermostat (AC2982D) is available for interlocking control between indoor and outdoor unit, please consult McQuay for this option.

Ultimate double-variable joint control

With the ultimate double-variable joint control technologies of variable refrigerant flow and variable water flow (the variable frequency water pump and double-speed water pump are optional), new series inverter household central air conditionerscan carry out intelligent regulation of the water flow based on the indoor load demand. The flow can be set to a minimum flow of 50%, to regulate the capacity accurately, and optimize the power of the water pump, leading to a new era of air conditioner energy saving.



Note: ● indicates the operating status. ● indicates the halted status.
indicates the variable frequency water pump. indicates the electric two-way valve.
For the control of variable water flow, please contact with McQuay.

Specifications

Table of outdoor unit specifications

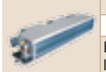
Unit model MAC			030ER5	040ER5	050ER5	060ER5	070ER5	080ER5	100ER5	120ER5	150ER5
Controller kit			MAC-A5E				MAC-A6E		MAC-A7E		
Nominal cooling capacity		kW/Btu/h	9.4/32082	11.4/38908	14.6/49829	16.8/57338	19.8/67577	24.9/84983	28.8/98294	33.5/114334	40.0/136519
Nominal heating capacity		kW/Btu/h	9.8/33447	12.0/40955	14.8/50512	17.0/58020	20.8/70990	26.0/88737	30.0/102389	34.0/116041	41.0/139932
Capacity adjustment			15%~120%								
Input power of cooling		kW	3.0	3.9	4.6	5.7	6.7	8.6	9.5	10.4	13.9
Input power of heating		kW	3.1	3.9	4.8	5.5	6.6	8.3	9.9	10.8	13.1
IPLV (GB)			4.21	4.23	4.16	4.13	4.15	4.23	4.90	4.71	4.45
Power supply			220-240V~/50Hz				380-415V/3N~/50Hz				
Throttle mode			Electronic expansion valve								
Refrigerant			R410A								
Evaporator type			Vacuum stainless steel brazed plate heat exchanger								
Water flow		m^3/h	1.6	2.0	2.5	2.9	3.4	4.3	5.0	5.8	6.9
Compressor type			Inverter rotary								
Fan type			Axial flow three-speed fan						BLDC		
Water pump	Type		Stainless steel multistage centrifugal								
	Rated power	kW	0.37			0.55			0.75		
	External head	m	15	14	18	22	24	22	25	22	18
Connecting pipe size of water inlet/outlet		mm	Rc1				Rc1 1/4		G1 1/4		
External dimension (Length * Width * Height)		mm	950×397×1010		995×395×1362				990×844×1780	1350×844×1780	
Noise (H/M/L)		dB(A)	56/53/46	56/53/46	58/55/48	58/55/48	59/54/52	60/56/52	63	64	65
Specifications of the power cord	Sectional area of principal line * number of lines	mm^2	4×1		6×1		6×3				
	Sectional area of null line * number of lines	mm^2	4×1		6×1						
	Sectional area of earth wire * number of lines	mm^2	4×1		6×1						
Net weight of the unit		kg	109	110	146	148	158	165	228	250	280
Operating weight of the unit		kg	111	112	149	151	161	168	232	254	285

Note:
- The operating condition of nominal cooling: water flow of 0.1723/(h*kW), water outlet temperature of 7°C and the ambient temperature of 35°C.
- The operating condition of nominal cooling: water flowof 0.172m^3/(h*kW), water outlet temperature of 45°C and the ambient dry bulb/wet bulb temperature of 7°C/6°C.
- The noise value is measured before ex- factory. The noise value may be different from the data listed in the table due to ambient noises and other reasons.
- The unit and controller are separately ordered. The unit is standard with the built-in water pump, expansion tank. The accessory of the controller kit contains accessories such as the wired controller, user manual, water filter,automatic water refillingvalve and safety valve. The manufacturer reserves the right to change the configuration.Please refer to the deliv-ery configuration of the unit when purchasing.

Specifications

Table of indoor unit specifications

Supper slim indoor unit MCW-VC (DC variable frequency optional)



Unit model		MCW200V	MCW300V	MCW400V	MCW500V	MCW600V	MCW700V	MCW800V
Rated air flow m^3/h		340	510	680	850	1020	1170	1360
Cooling capacity W		2220	3300	4260	5050	5820	6600	8200
Heating capacity W		3500	5330	6800	8400	9600	11100	13500
Dimension of water inlet/outlet (mm)		DN20 cone-shaped internal thread						
High/medium/ low noise dB(A)	12Pa static pressure	35.0/28.5/20.5	36.0/31.0/23.0	40.5/34.5/23.0	41.0/36.3/25.6	45.0/39.0/29.8	45.5/40.3/27.9	44.5/38.6/27.4
	30Pa static pressure	38.0/30.0/19.5	39.5/35.0/25.5	42.0/35.0/26.0	44.5/39.5/27.3	47.0/41.1/27.3	47.5/41.8/29.4	47.0/41.3/30.6
External dimension	Length (mm)	625	815	865	945	1045	1095	1425
	Width (mm)	465	465	465	465	465	465	465
	Height (mm)	235	235	235	235	235	235	235

DC inverter indoor unit MCW-EC

Unit model		MCW200EC	MCW300EC	MCW400EC	MCW500EC	MCW600EC	MCW800EC
Rated air flow m^3/h		340	510	680	850	1020	1360
Cooling capacity W		2550	3550	4330	5200	6100	8200
Heating capacity W		3800	5800	6800	8650	10450	14000
Dimension of water inlet/outlet (mm)		DN20 cone-shaped internal thread					
High/medium/ low noise dB(A)	12Pa static pressure	34.0/27.2/20.9	35.5/29.1/18.9	37.0/29.7/22.5	40.0/32.6/24.0	44.5/37.1/30.1	43.0/36.9/29.6
	30Pa static pressure	37.5/31.0/23.0	39.0/33.5/20.0	41.0/33.0/25.0	42.5/35.1/25.8	46.5/39.8/32.5	44.5/37.8/30.3
External dimension	Length (mm)	675	815	915	995	1095	1425
	Width (mm)	478	478	478	478	478	478
	Height (mm)	235	235	235	235	235	235

Large temperature difference ceiling exposed MCW-AA

Unit model		MCW200AA	MCW300AA	MCW400AA	MCW600AA	MCW800AA
Rated air flow m^3/h		340	510	680	1020	1360
Cooling capacity W		2125	3385	4390	6207	8096
Heating capacity W		3576	5427	6915	12238	13216
Dimension of water inlet/outlet (mm)		DN20 cone-shaped internal thread				
High/medium/ low noise dB(A)	0Pa static pressure	36/32/23	40/36/25	43/36/29	46/42/30	46/42/32
External dimension	Length (mm)	963	1103	1203	1383	1713
	Width (mm)	272	272	272	272	272
	Height (mm)	557	557	557	557	557

Large temperature difference ceiling concealed MCW-DA

Unit model		MCW200DA	MCW300DA	MCW400DA	MCW500DA	MCW600DA	MCW800DA
Rated air flow m^3/h		348	446	665	831	923	1369
Cooling capacity W		1840	2460	3410	3860	4420	6830
Dimension of water inlet/outlet (mm)		DN20 cone-shaped internal thread					
High/medium/ low noise dB(A)	50Pa static pressure	43.4/42.7/39.2	46/45/42	45.7/44.9/41.9	47.1/46.8/44.6	49.7/49.2/46.6	49.1/48.6/47
	75Pa static pressure	43.3/42.6/40.2	46.5/45.6/43.4	46/45.3/43.7	47.1/46.7/44.8	49.6/49.2/47.4	49.2/48.7/47.5
External dimension	Length (mm)	677	827	927	997	1097	1427
	Width (mm)	530	530	530	530	530	530
	Height (mm)	243	243	243	243	243	243

Note:

For MCW-VC and MCW-EC, the cooling capacity is measured base on the air inlet dry bulb/wet bulb temperature is 27°C/19.5°C and the water inlet/outlet temperature is 7°C/12°C; the heating capacity is measured base on the air inlet dry bulb temperature is 21°C, the water inlet temperature is 60°C and the water flow is the same as that of the cooling condition.

For MCW-AA, the cooling capacity is measured base on the air inlet dry bulb/ wet bulb temperature is 27°C/19.5°C and the water inlet/outlet temperature is 5.5°C/14.5°C; the heating capacity is measured base on water inet 60°C with the same water flow as cooling mode.

For MCW-DA, the cooling capacity is measured base on the air inlet dry bulb/ wet bulb temperature is 24°C/18°C and the water inlet/outlet temperature is 5.5°C/14.5°C.

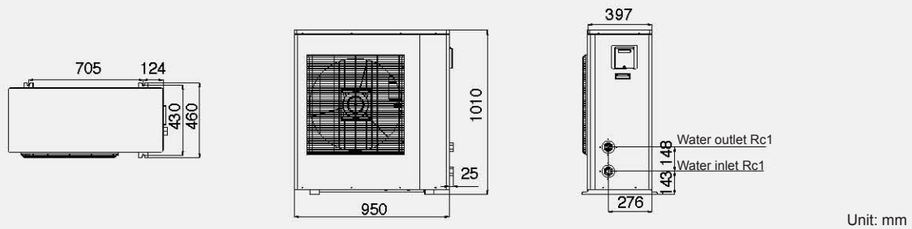
The rated air flow is measured in the standard air and dry coil condition (dry bulb temperature: 20°C).

The noise value of the sound pressure level is measured in the hemi-anechoic chamber with a background noise of the 11.5dB (A) (in accordance with 19232-2003 GB/T).

For more information about the models of indoor units, please contact with McQuay.

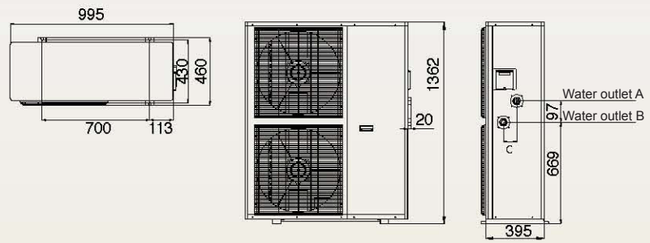
Dimensions of the unit

MAC030 / 040ER5



Unit: mm

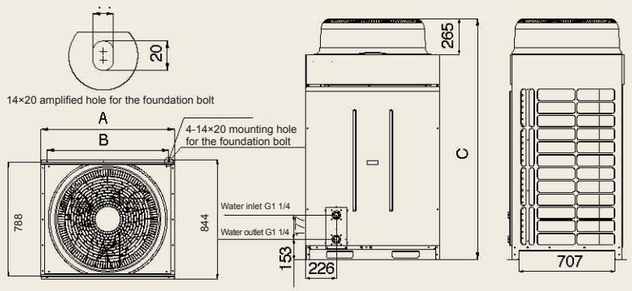
MAC050 / 060 / 070 / 080ER5



Product model \ Dimensions	A	B	C
MAC050ER5 MAC060ER5	Rc1	Rc1	103
MAC070ER5 MAC080ER5	Rc1 1/4	Rc1 1/4	81

Unit: mm

MAC100 / 120 / 150ER5



Product model \ Dimensions	A	B	C
MAC100ER5	900	900	1780
MAC120ER5	1350	1260	1780
MAC150ER5	1350	1260	1780

Unit: mm

Diagram of the installation space

MAC030 / 040 / 050 / 060 / 070 / 080ER5

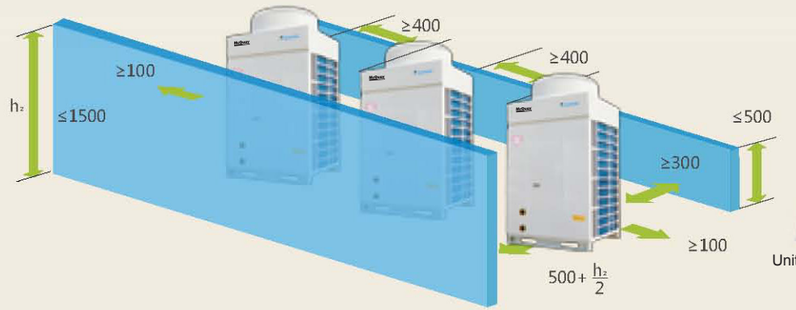
Unit: mm

Note: Methods A and B are conventional installation methods. For more installation methods, please refer to the installation manual attached to the unit.

MAC100 / 120 / 150ER5

Installation of a single unit:

Installation of multiple units:



Unit: mm

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