

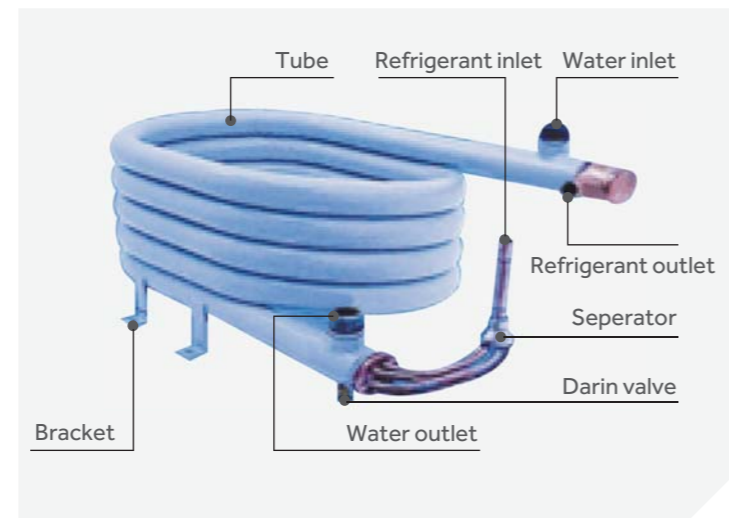


MINI CHILLER R22 HEAT PUMP

High Efficiency

High efficiency tube heat exchanger

Adopt high efficiency tube heat exchanger, fully decreased airflow disturbance. by adjusting the internal casing branch, optimize the design of the management, improve heat exchanger efficiency.



Double rotor compressor, stable and reliable

Imported compressor, use advanced technology, makes the compressor Running smoothly with low noise by applying advanced technology.



Advanced tube expanding equipment

Advanced tube expanding equipment, greatly improved heat exchange efficiency, increase in the thermal efficiency is about 15%.



Easy Installation

Easy installation

- All models adopt the same water pump box which is slim and the height is only 298mm. Suitable for indoor decoration such as installed in ceiling. Variety of fan coils are available for terminal customers
- Water pump box contains water pump, flow switch, drain valve, automatic water valve and expansion tank, customers only need to connect pipes at installation, no additional parts are required. More convenient.



Comfort

More comfortable

Lower Operation Noise , Water Pump Box Noise Level is Only 44dB(A)

Precise control

Good heat transfer, big air volume and Haier intelligent control software make more accurate temperature control. The temperature difference is no more than +/- 0.5. More comfortable.

High Reliability

Serveral protection

- Refrigerant is safely running through outdoor units without the dangerous of leaking into indoor units. Much safer.
- Over-current protection
- High and low pressure protection
- Under-voltage and over-voltage protection
- Compressor overheat protection device
- Water-lack delay protection
- Automatic anti-freezing protection
- Phase lack & sequence protection

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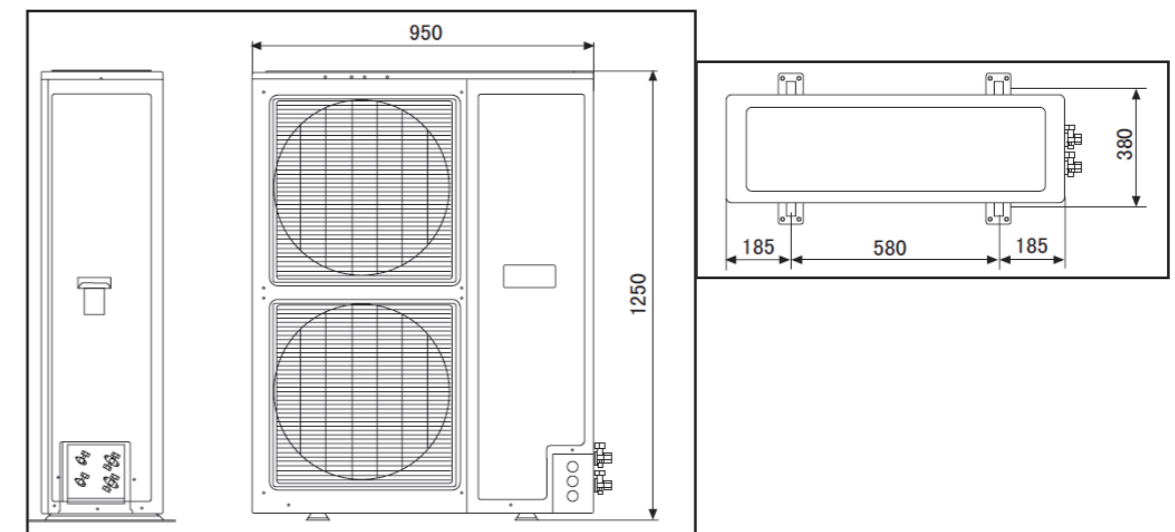


ITEMS	MODEL	CH0010AA2A	CH0012AA2A	CH0014AA2A	CH0016AANA	
Nominal cooling capacity	kW	10	12	14	16	
Power input	kW	3.6	4.58	5.34	5.86	
Nomina heating capacity	kW	11	13.2	15	17	
Power input	kW	3.3	3.92	4.84	5.8	
Max.running current	A	19	23.9	28.5	14.2	
Power supply	Ph/V/Hz	1/220/50		3/380/50		
Safe protection		Overcurrent protection, high and low pressure protection, under-voltage protection, over-voltage protection, compressor overheat protection device, water-lack delay protection, automatic antifreezing protection, phase lack & sequence protection				
Running control method		Fully automation				
Compressor	Type	Rotary			Scroll	
	Qty (Sets)	EA	2	2	2	1
Refrigerant	Type	R22				
	Charge	kg	1.8+1.8	1.8+2.3	1.9+2.3	5.7
Refrigerant control method		Capillary				
Air side heat exchanger	Type	Inner grooved copper pipe & hydrophilic aluminum fin coil				
	Fan motor type	Axial flow fan				
	Fan motor power input	kW	0.13	0.13	0.15	0.15
	Fan motor Qty	EA	2	2	2	2
Water side heat exchanger	Type	High efficiency Shell & Tube heat exchanger				
	Rate water flow	m³/h	1.72	2.06	2.41	2.75
	Pump head	m	16	18.5	17	16
	Resistance	KPa	50	50	50	50
	Water pipe dimension (internal thread)	mm	Rp1¼			
	Working pressure	MPa	1.0			
Outdoor	Net dimension (L/W/H)	mm 950/380/1250				
	Gross dimension (L/W/H)	mm 1100/415/1360				
	Net/Gross Weight	kg	112/120	118/126	122/130	117/125
Water pump box	Net dimension (L/W/H)	mm 1100/568/298				
	Gross dimension (L/W/H)	mm 1230/595/370				
	Net/Gross weight	kg	68/76	70/78	74/82	78/86

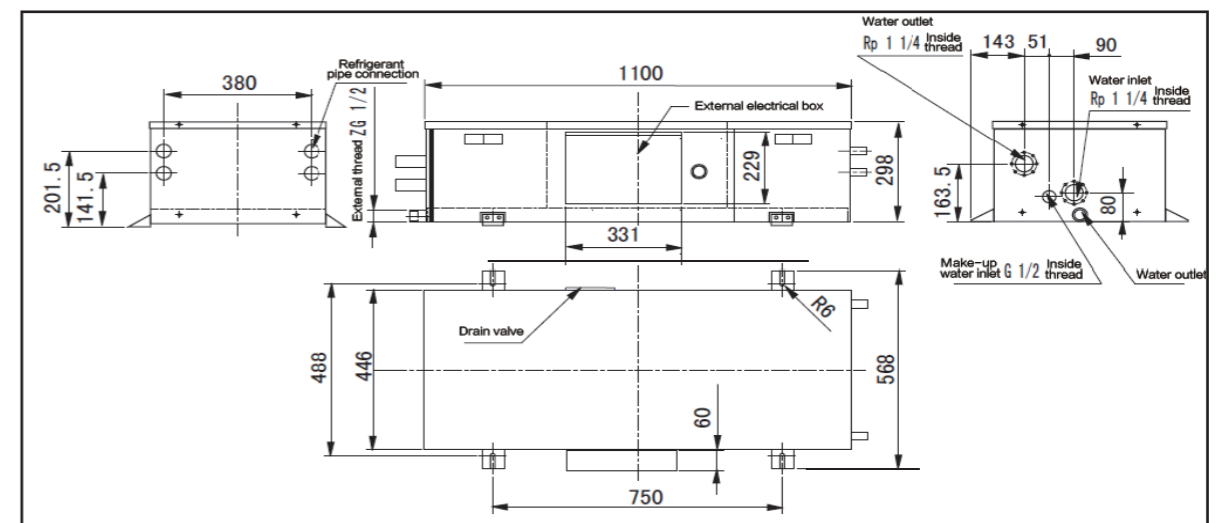
Note: 1. Nominal working condition (cooling) : water outlet temp. 7°C, ambient temp. 35°C, water flow 0.172m³/(h·kW) ;
 2. Nominal working condition (heating) : water outlet temp. 45°C, ambient temp. (DB)7°C, (WB)6°C, water flow 0.172m³/(h·kW) ;
 3. Operating ambient temperature range -7~43°C
 4. This unit provide water resistance is [9.8 x water pump head (m) - water side heat exchanger resistance (kPa)] kPa. When design water system, water resistance cannot exceed the limit;

Unit Dimension Diagram

Mini chiller model: CH0010AA2A, CH0012AA2A, CH0014AA2A, CH0016AANA

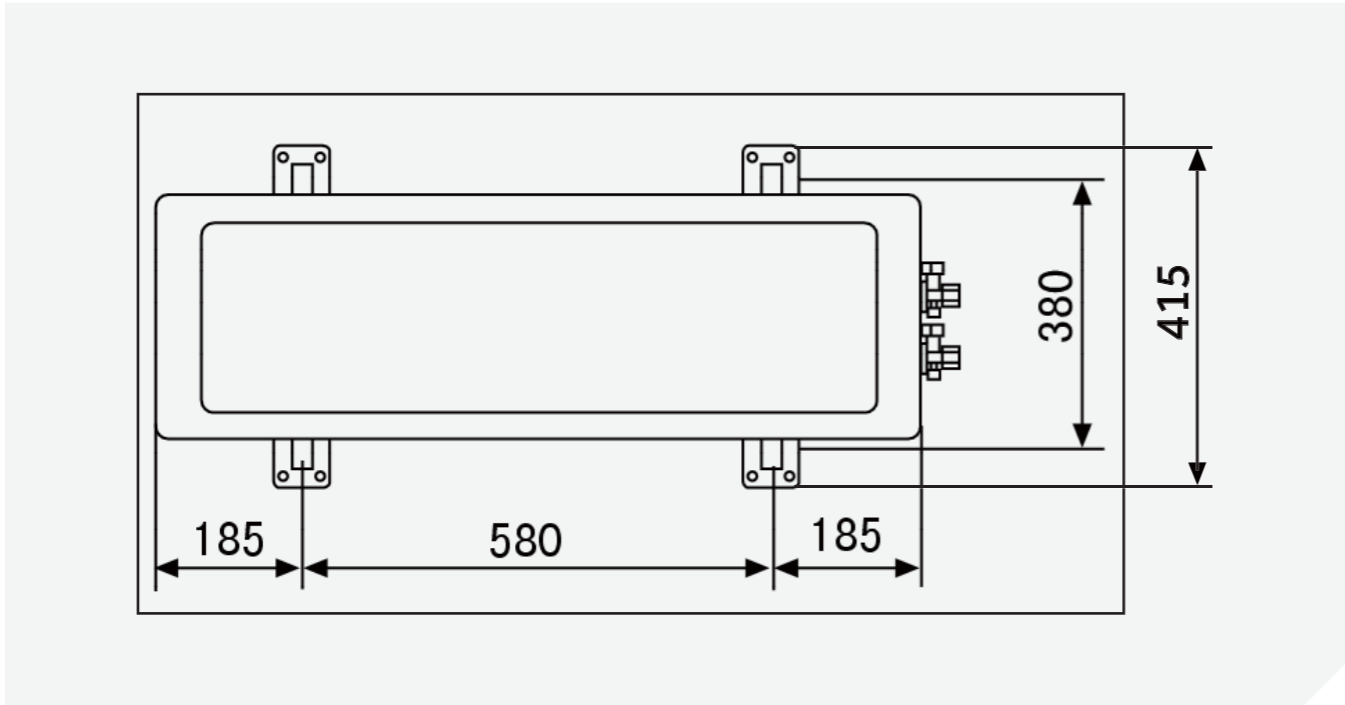


Water pump box model: CH0010AA2A, CH0012AA2A, CH0014AA2A, CH0016AANA

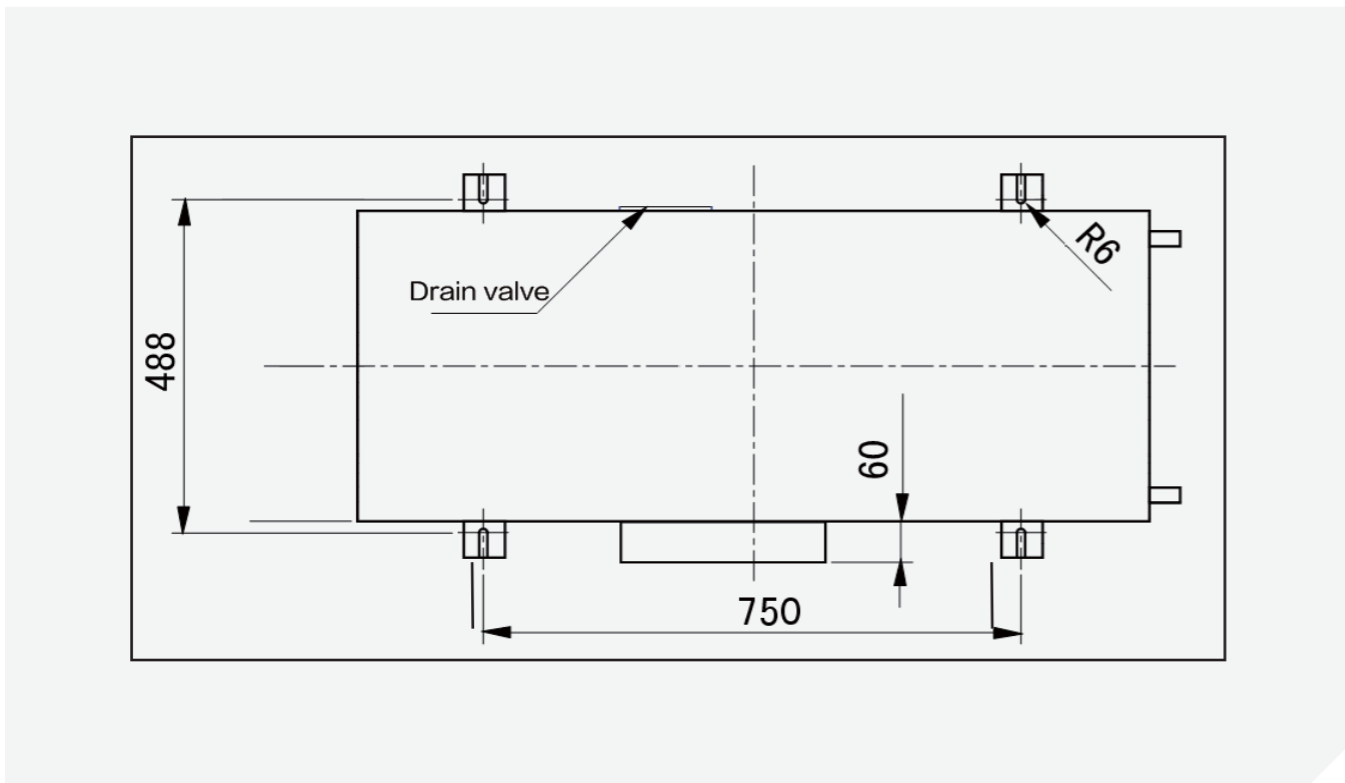


MINI CHILLER

The Unit Installation Foundation Drawing



Water Pump Box



The Unit Instructions

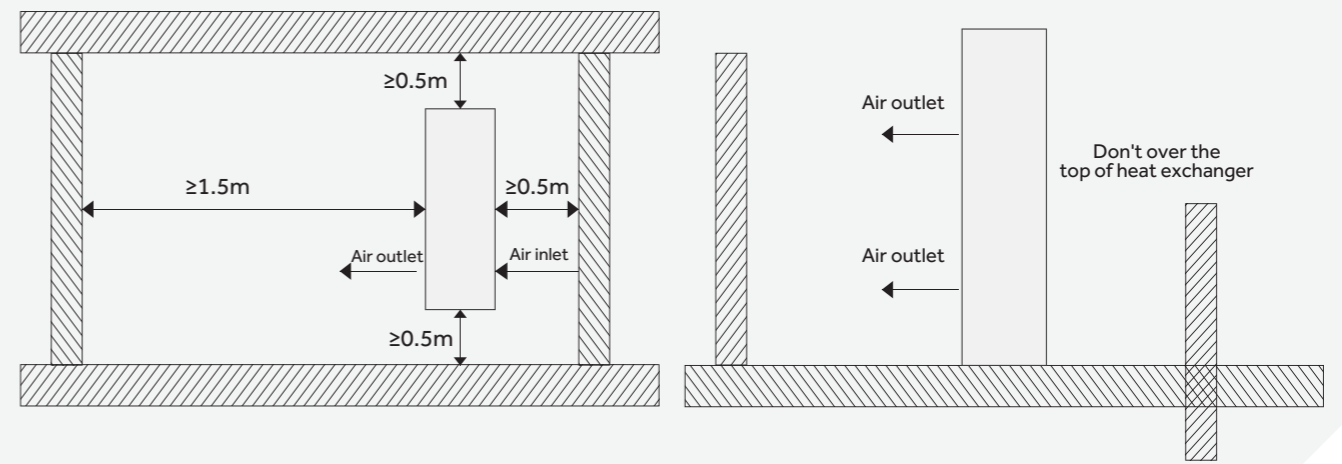
The match of chiller and indoor terminal: for place like office where all units are on/off, overmatch is not allowed; for place like family house where not all units are on, the overmatch ratio should not over 130%; the max. resistance of water system should not over the outer resistance requirement of user manual.

The chiller can be installed on the roof top, balcony, open space of building or hung outside the wall, or can be installed at flat concrete/metal frame. The supporting bearing must be flat and proper anti-vibration cushion should be installed.

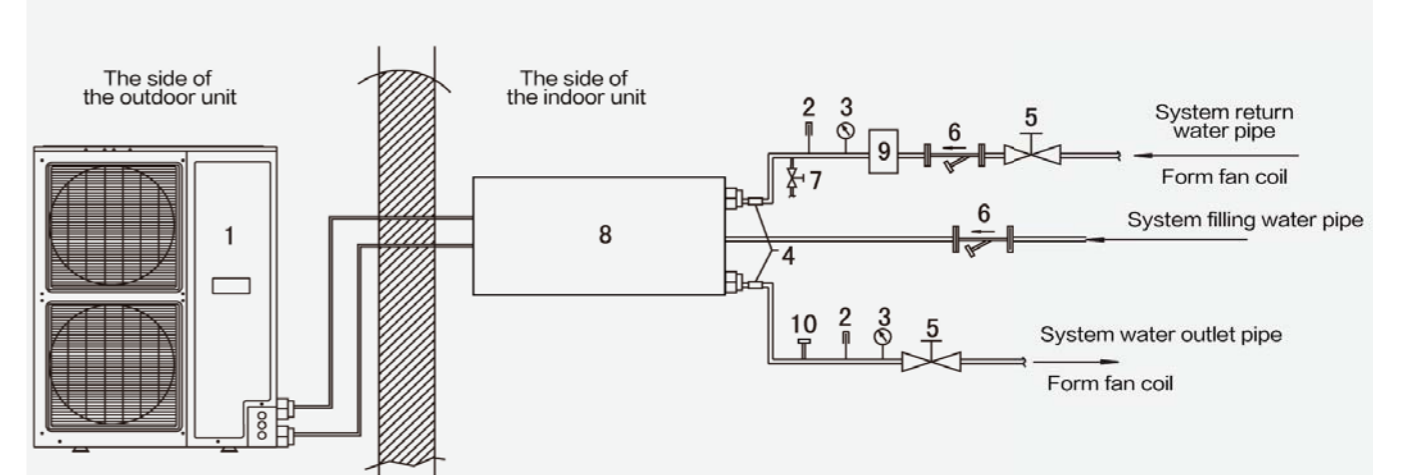
The base should be strong enough to bear the running weight of unit.

Enough ventilation space is necessary, min. 1.5m space is needed from air outlet direction and min. 0.5m space from air inlet direction.

Please refer to "water pipe installation instruction" when installing the outer water pipe.



The Unit Water System Installation Diagram



- | | | |
|------------------------------------|--|---|
| 1. Chiller | 4. Water softness joint | 7. Blow-down valve (Water pipe lowest place) |
| 2. Thermometer (0-100°C) | 5. Stop valve | 8. Water pump box |
| 3. Water pressure gauge (0-1.0MPa) | 6. Water filter | 9. Electronic water treatment device |
| | (Aperture less than \varnothing 1mm, the hole spacing 2mm) | 10. Automatic exhaust valve (placed in the highest of the water system, near to the unit) |