

Mi-Link

ROOF TYPE AIR-COOLED

DIRECT EXPANSION
INTEGRATED AIR
CONDITIONING UNIT



Mi Link Engineering Service Limited

Hong Kong, China



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ROOF TYPE AIR-COOLED DIRECT EXPANSION INTEGRATED AIR CONDITIONING UNIT



Rooftop Units

Rooftop unit is a full air system, used for indoor air treatment, this machine integrates refrigeration, ventilation, air purification and other functions.

Rooftop Unit Range

From single stage to multi-stage, constant temperature and humidity to cleaning, heat pump to heating recovery for your options.

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WORKING PRINCIPLE AND APPLICATION



- Rooftop unit are one of the biggest and important production segment of the HVAC industry, because of package type design is easy to install, low cost, flexible application. Controlling and conditioning air by the high technology control panel that is standard equipment of rooftop units. Rooftop units can be controlled any place with microprocessor and connect to building management systems.
- Rooftop units has 2 parts, one is compression condensation section and air handling section. Frame with composed of specially rolled steel profits and panel with double layer sheets add insulation with an anti-cold bridge aluminum alloy frame.
- The Unit combination is flexible and easy to install. It can be placed on the roof or in an outdoor space without the need for a dedicated machine room. Its structure surface with anti-corrosion and anti-explosion, also satisfy explosion-proof, anti-corrosion and other treatment measures.



Hospital



Restaurant



Office Buildings



Stores



Factory Workshop



Supermarket



Lab

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Quality Standard

Our Quality

01 The units production follows china quality standard ISO9001-2000 .

02 The units have factory inspection before shipment.



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HIGH-END CORE CONFIGURATION

Compressor

Use scroll refrigeration compressors being high performance, safe, reliable and energy efficient.



Condensation Heating Recovery

Using condensation heating instead of electric heating will help to reduce the risk of flames and save more cost on power.



EC Motor Fan

Features include long life, low vibration, low noise, and continuous and uninterrupted operation.



SIEMENS DDC control system

Provide unit control for heating, cooling and ventilating utilizing input from sensors that measure indoor and outdoor temperature and other zone sensors.



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FEATURES

Unit Structure

- Modular design with compact structure.
- Rain proof structure.
- Full computer control.
- High performance and reliable to meet the requirements of various type of airconditioning.
- High efficient use of space.

Reliable Brand Accessories

- Using the reliable brand accessories including scroll compressor, heating tube, control panel accessories, being ensure high performance, energy saving, durable and stable.

Complete Control Function

- PLC programmable controller and microcomputer automatic control;the touch screen displays in full Chinese, menu-type output,easy to operate;Fault alarm and fault display functions for convenient maintenance; RS485 standard communication interface, which can realize centralized control and remote monitoring of the unit.

Anti-cold bridge frame, low air leakage rate

- Each section use anti-cold bridge Alu. frame and double layer insulation panel with sealing insulations trips and outdoor rain proof structural design to ensure the anti-corrosion, rust-proof and corrosion-resistant performance and bright colors required for outdoor use of the unit.

Multi-circuit design for cooling system

- The units uses one or more compressors, and each compressor is designed as a refrigeration circuit. It can operate independently, being help to energy control and cost consumption.
- The compressor with condensing fan with high performance, ow noise, stable operation and lower vibration. The unit can offer premium/medium/high filters as options to avoid dusts.

Novelty Shape

- Its design on standard module, which has better thermal insulation, opening access door and lower air leakage rate. Simple to install, maintain, with large space for operation.



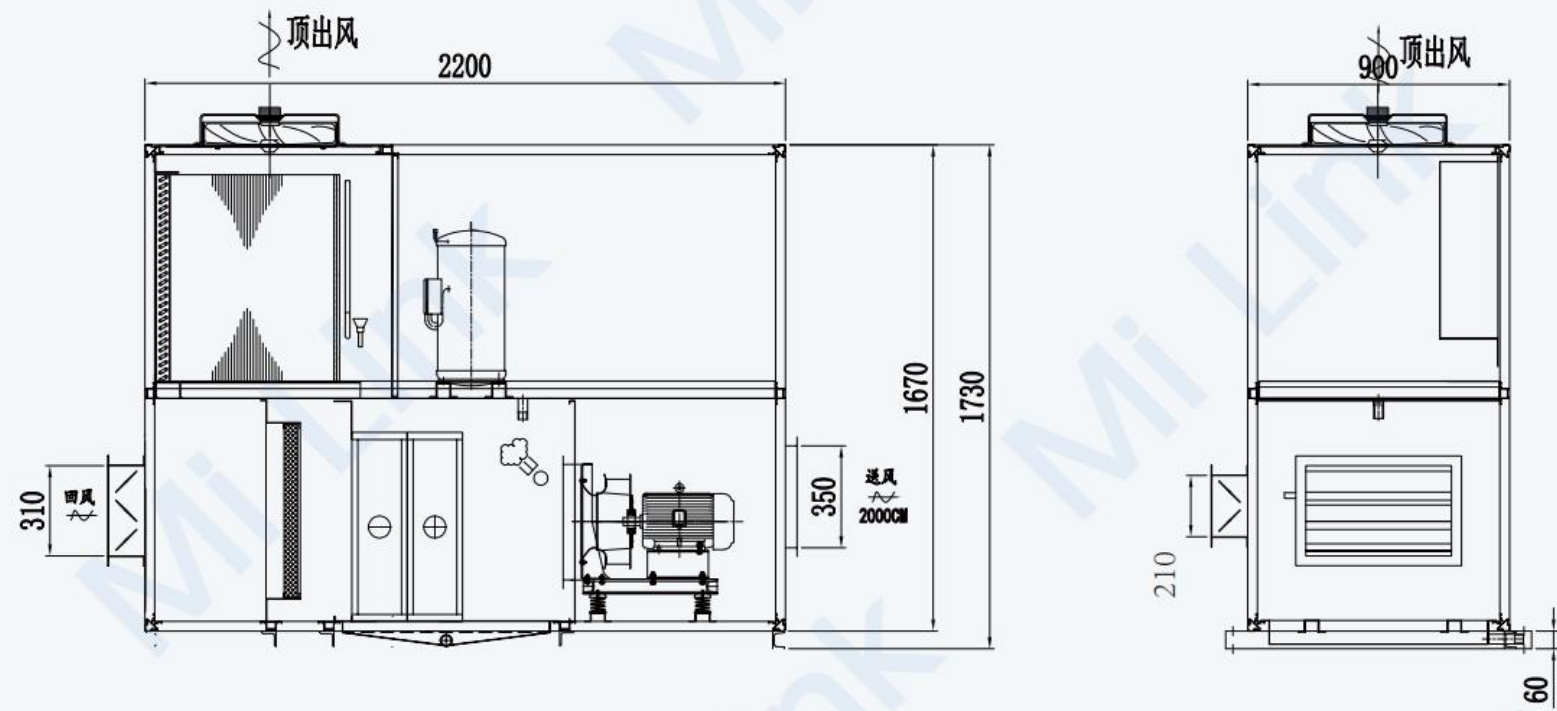
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TECHNICAL PARAMETERS AND DRAWINGS

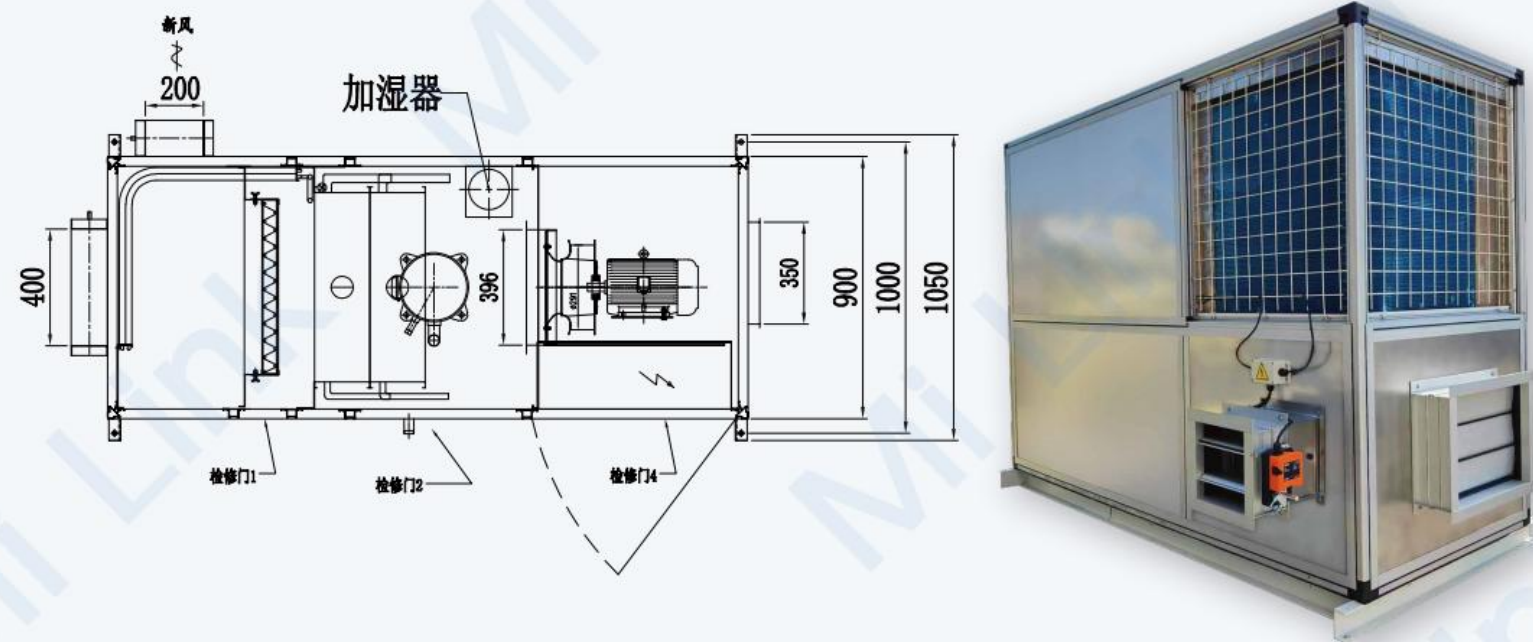
Technical Parameters

Model	Air volume CMH	Cooling Cap. kw	Motor Efficiency kw	Electric heat kw	Humidification kg/h	Unit noise dB(A)
MIPTU-03HP	1500	7.8	0.75	6	3	65
MIPTU-05HP	2500	13	1.5	6	5	65
MIPTU-07HP	3500	18	1.5	9	8	65
MIPTU-08HP	4000	20.8	2.2	12	8	65
MIPTU-10HP	5000	26	2.2	15	10	70
MIPTU-12HP	6000	31.2	3	18	10	70
MIPTU-15HP	7500	39	4	18	15	70
MIPTU-20HP	10000	52	5.5	24	15	72
MIPTU-25HP	12500	65	7.5	30	20	74
MIPTU-30HP	15000	78	7.5	36	25	74
MIPTU-36HP	18000	93.6	11	48	32	76
MIPTU-40HP	20000	104	11	54	32	78
MIPTU-50HP	25000	130	15	66	45	80
MIPTU-60HP	30000	156	15	72	45	80

3HP Rooftop Units (constant temperature&humidity&heat recovery)

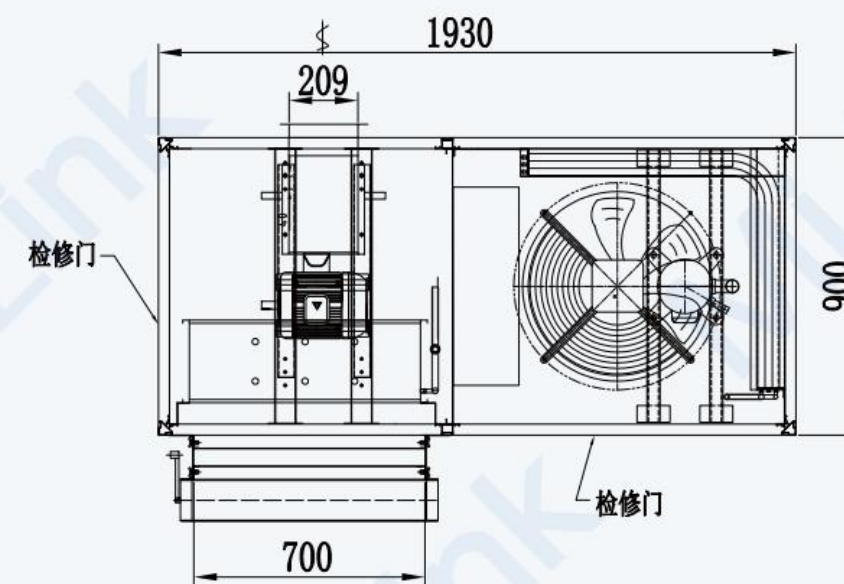
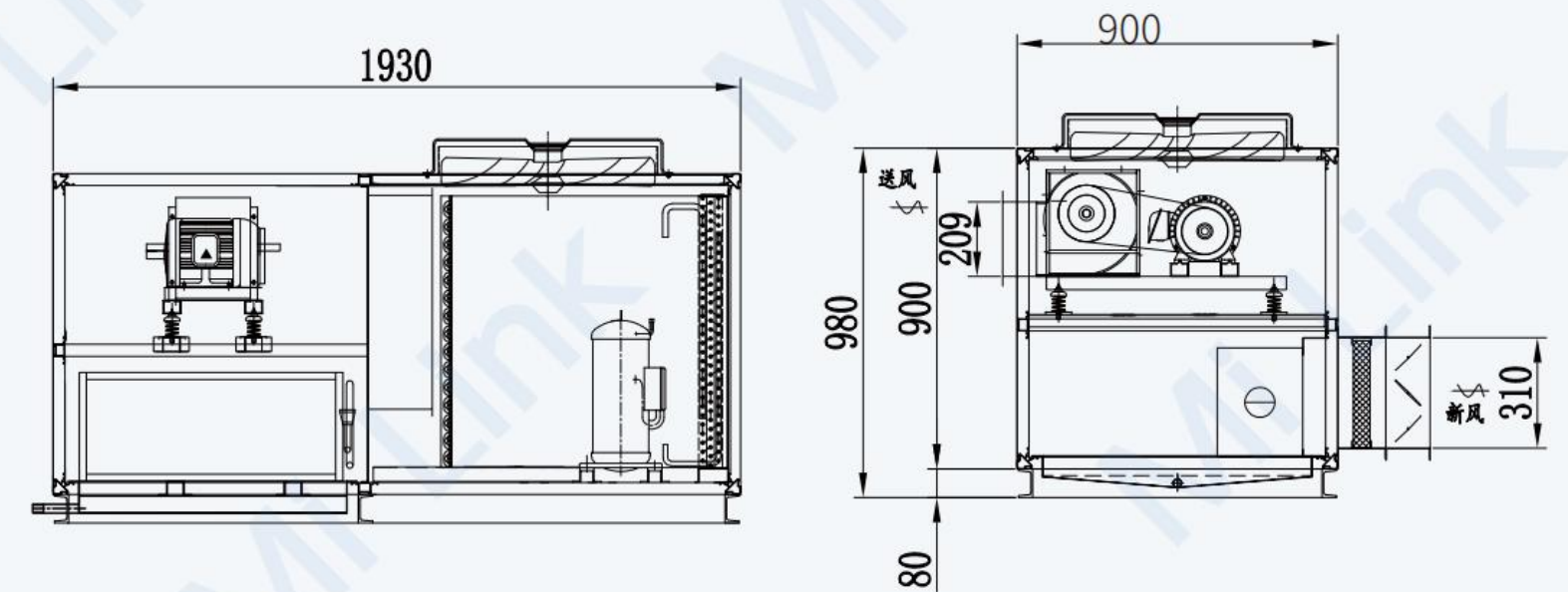


新回风混合段+(G4)初效过滤段+DX盘管段+冷凝热回收盘管段+电极式加湿段+风机段



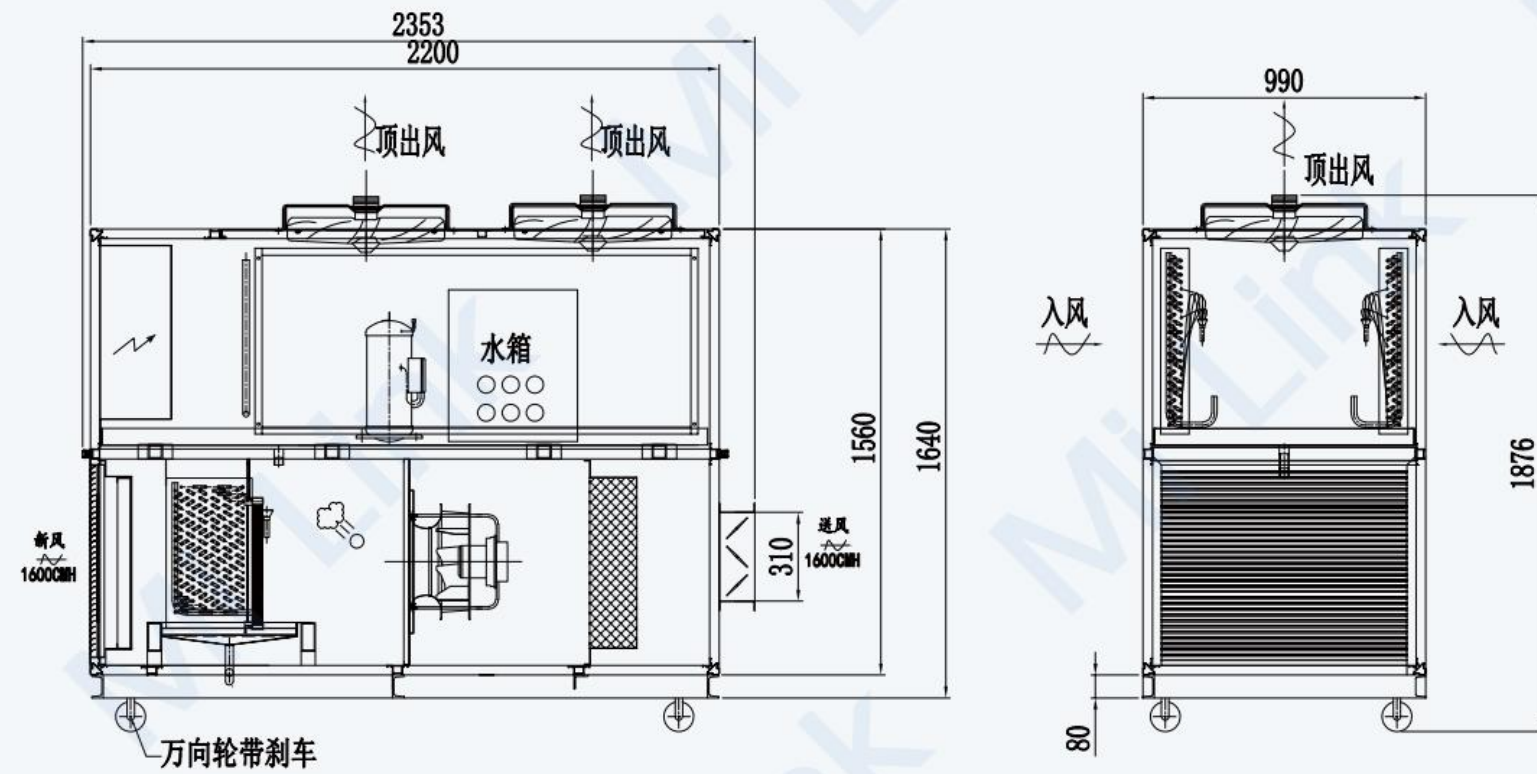
Air volume(CMH)	Pressure(Pa)	Cooling Cap.(kw)	Heating Cap.(kw)	Heating recover(kw)	Humidification(kg/h)	Power(kw)
2000	300	7.8	8	5.5	3	8.74

7HP Rooftop Units(Double S.S. Horizontal Units)

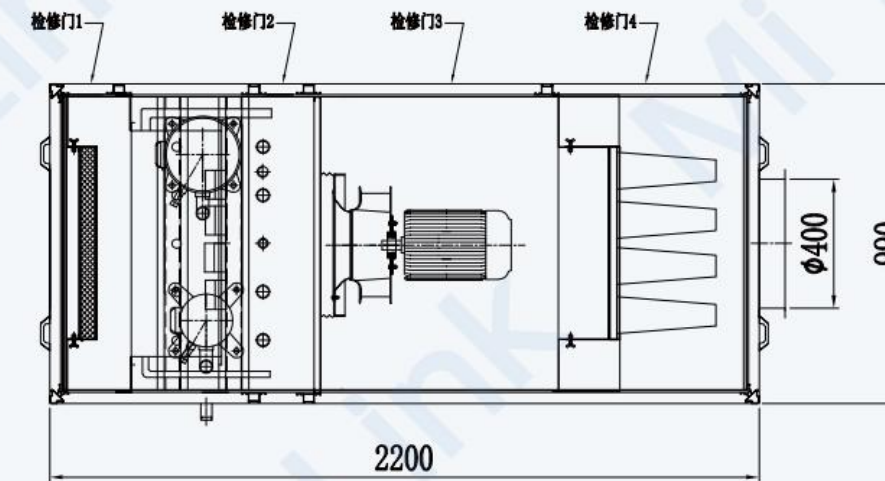
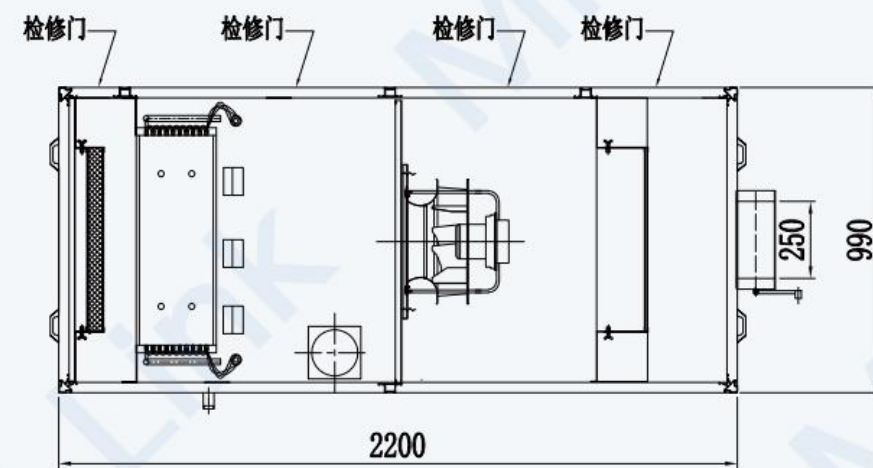
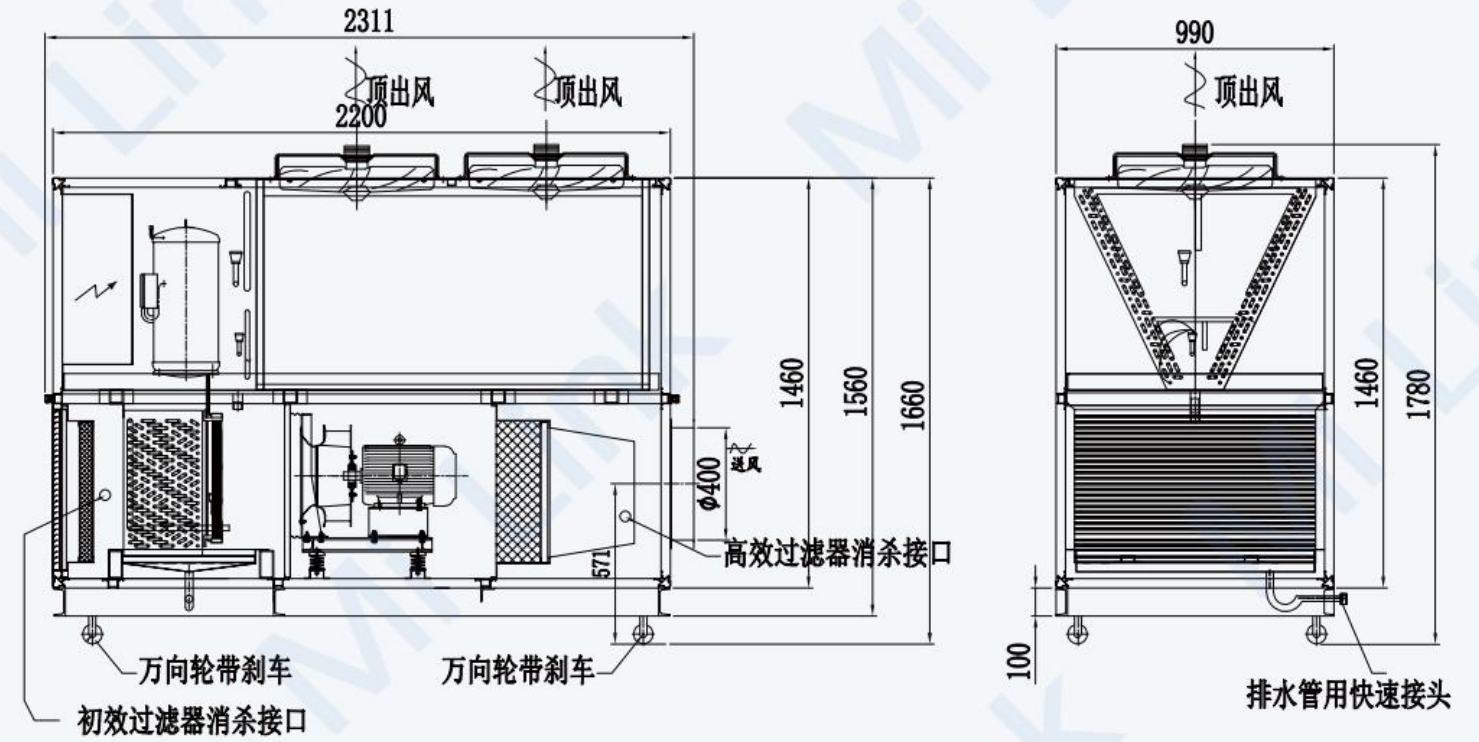


Air volume(CMH)	Pressure(Pa)	Cooling Cap. (kw)	Dehumidification(kg/h)	Power (kw)
1000	450	20	21	7.18

12HP Rooftop Unit With Push Wheels



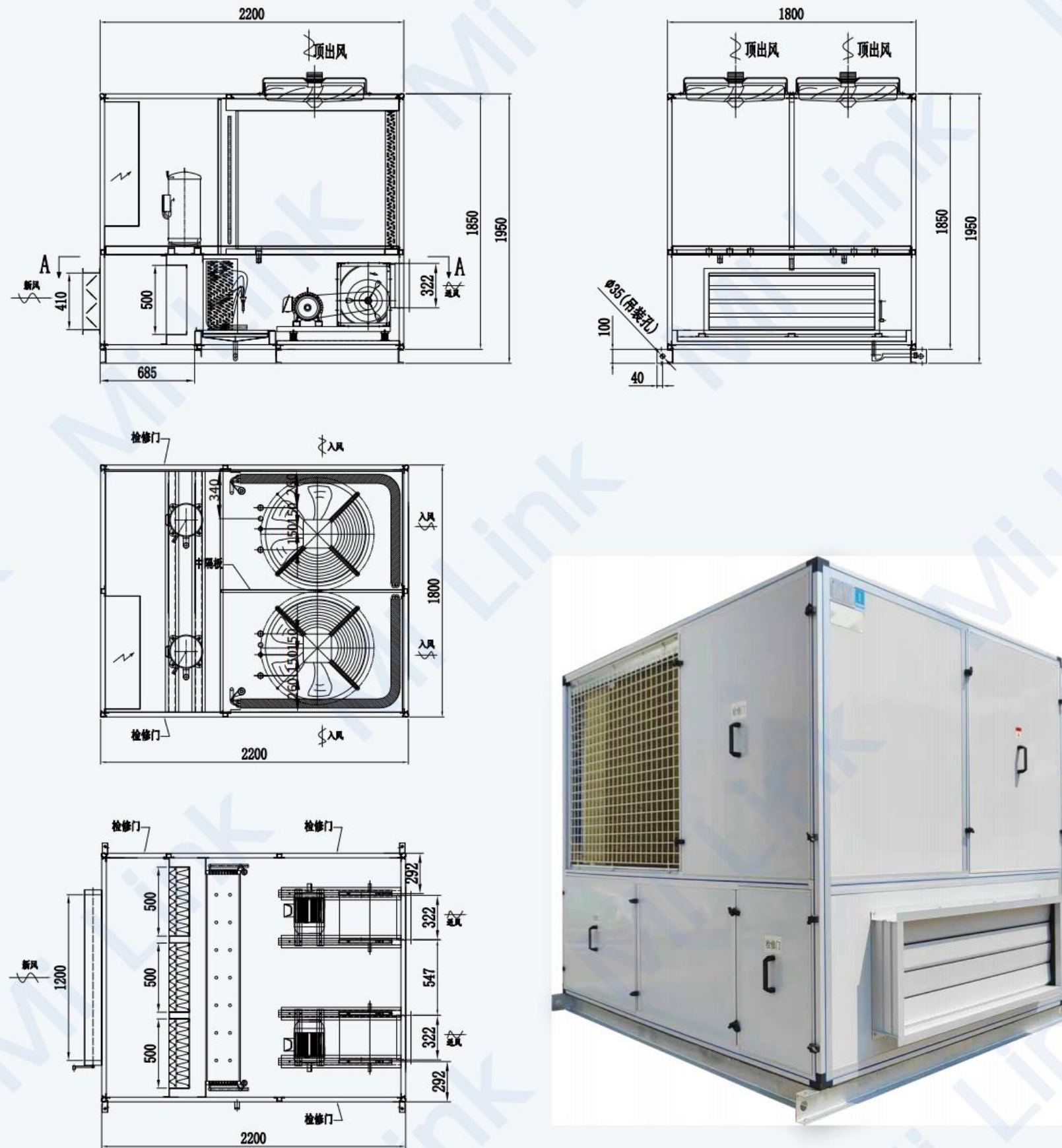
15HP Rooftop Unit For Lab Use (Heat Pump)



Air volume(CMH)	Pressure(Pa)	Cooling Cap.(kw)	Heating Cap.(kw)	Humidification(kg/h)	Power(kw)
1600	800	32	15	10	66.54

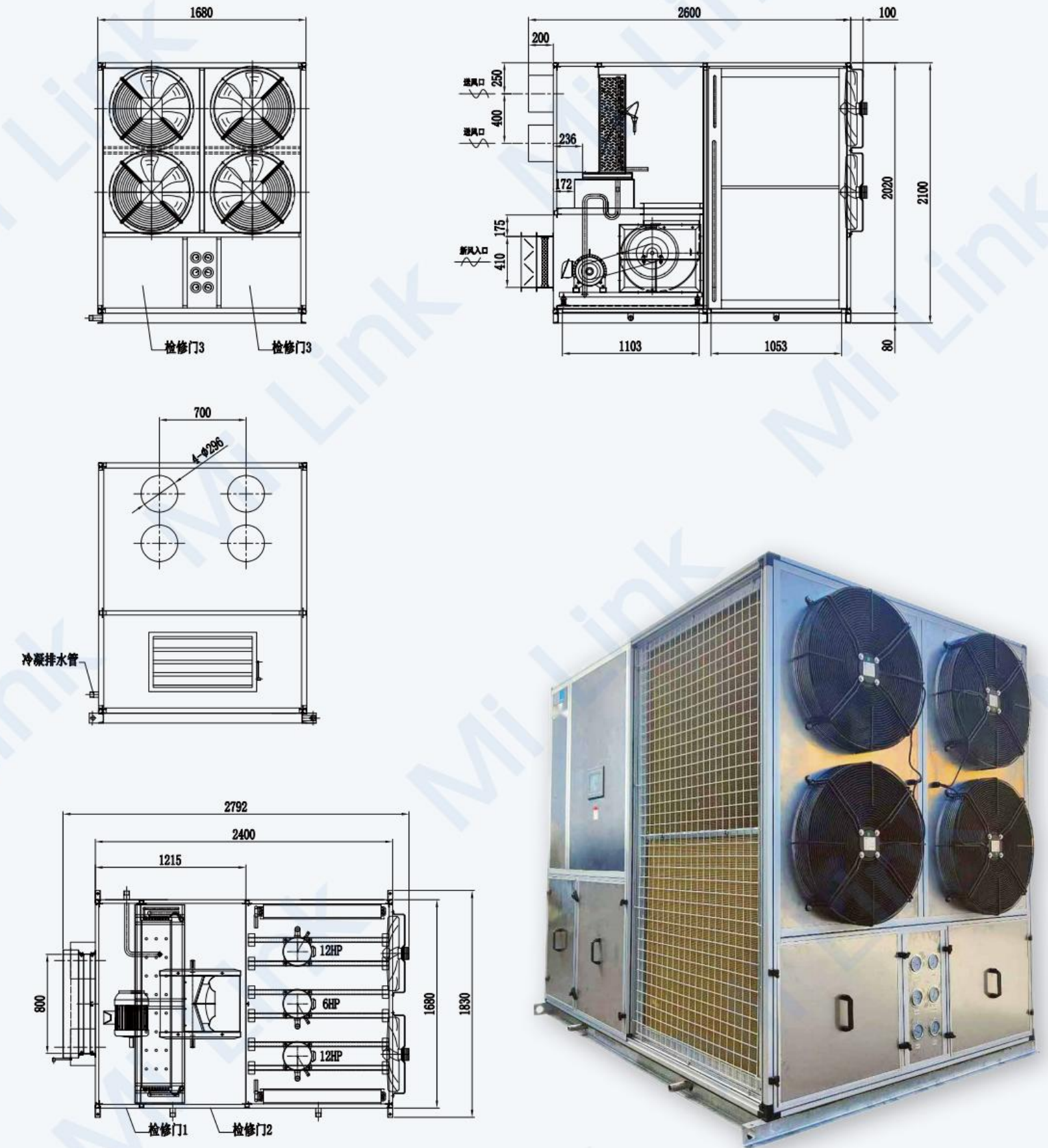
Air volume(CMH)	Pressure(Pa)	Cooling cap.(kw)	Heating cap.(kw)	E-heating cap.(kw)	Power (kW)
2200	350	42	21	8	23.54

25HP 100% Fresh Air Rooftop Unit



Air volume(CMH)	Pressure(Pa)	Cooling cap. (kW)	Heating cap.(kW)	Power (kW)
6500	650	72.5	65.3	29.1

30HP Single Cooling Rooftop Unit



Air Volume(CMH)	Pressure(Pa)	Cooling Cap. (kW)	Power(kW)
7500	900	97	32.8

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PERSONALIZED SOLUTIONS FOR SPECIAL NEEDS



Due to the special site like airport, the movable trolley can move anywhere to solve the trouble of drain away the condensation water.



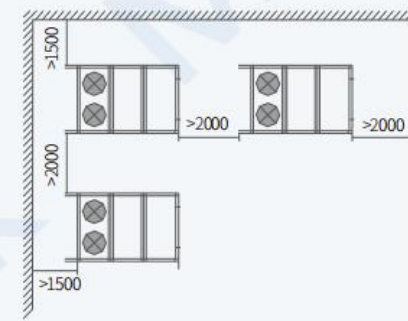
When used in corrosive places or with flame hazards, our units have great advantages: the double-sided stainless steel panels is corrosion-resistant, and the condensation heat replaces electric heating is power consumption.

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UNIT INSTALLATION AND SELECTION

Unit Installation

The installation location of the unit must have sufficient space, maintain good ventilation, and have a suitable ambient temperature. It is best not to install the unit in Around steam, hot air, smoke and corrosive gases.

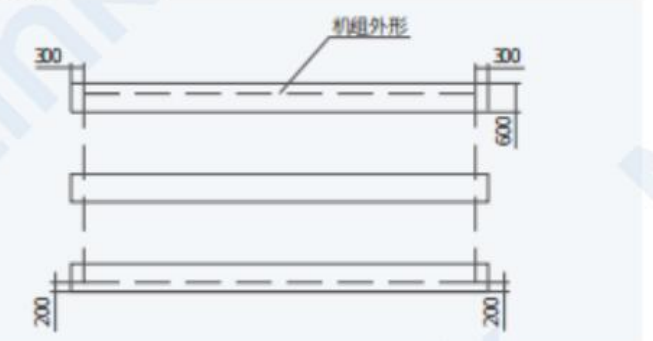


Tube Connection

To use the flexible shock-absorbing and soft connection reduce noise, better insulation and sealing connection.

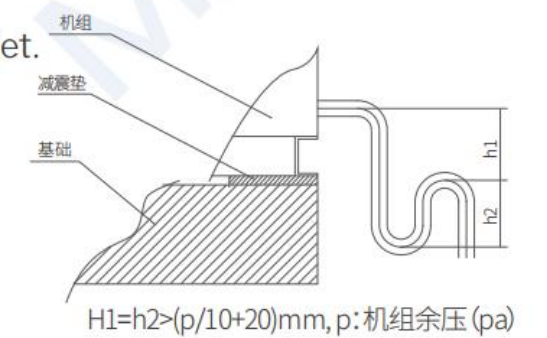
Foundation Choose

Use reinforced concrete, I-beam or channel steel as option, with sufficient strength and smooth surface, at least 200MM above the ground to install condensate pipes. Set up drainage ditches around the unit, and placed with a 10mm rubber shock-absorbing pad and finally fixed with expansion screws.



Condensor Tube

Set up a water trap to ensure that condensed water is smoothly discharged from the negative pressure drain outlet.



Rooftop Selection Information

Mi Link offers the manufacturing of non-standard personalized solutions. Users can choose and combine the below functional segments according to their own needs.

1. The heating and cooling capacity, heating method.
2. The size and height of working site.
3. The external residual pressure.
4. The fresh air volume and its working conditions. the stanard one is DB 35°C, WB 28°C.
5. The plate and bag style of filters for your option.
6. Whether need to frequency fan, compressor and frequency converter?
7. Whether need to air valve, valve type (manual or electric)?
8. Whether need to remote control case and cable length.
9. Whether need to offer the trolley;
10. Whether need to electric valve on the hot water and steam heating units.
11. The ambient temperature must not lower than 18 degree as operating by single cooling units.

Our partner