Features

1. Various products and wide application

The series of Rooftop units include many different specifications which can completely meet the demand of home and commercial places and offer you a comfortable and pleasant environment.

2. Complete air system, simple and hygiene, less components, easy maintenance
The flexible and concise design makes the maintenance very simple. Disassembling several bolts from any side of the unit can repair any part of the unit.

3. Microcomputer intelligent controller can reach four control modes: cooling, dehumidifying, and ventilation. It also has the functions of timing on-off and failure display.

4. Excellent performance
World well-known brand of main parts are used. To guarantee the rational match of the unit, strict performance testing is done. Besides the unit runs steady and the vibration and noise are effectively controlled by the use of multi-vane pitch centrifugal fan, world-known high efficiency compressor and the elaborative-designed controller, motor, etc.

LCD controller
BMS interface optional

5. Quiet operation and Convenient maintenance
Reach the lowest noise of the a/c room. The a/c units are placed far from the a/c area which meets the demand of indoor low noise to the greatest degree. The adoption of high efficiency and low noise centrifugal fan makes the quiet operation come true.

Optional free cooling

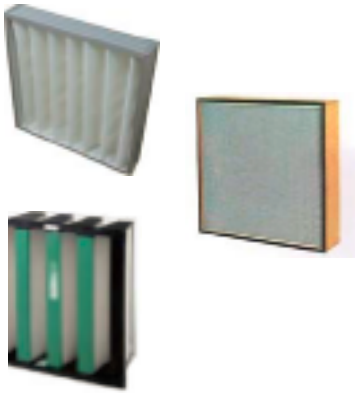
Free cooling logic:

1. When it is cooling:
   a. When indoor room temperature (temperature set) – outdoor temperature ≥ 4 ℃，fresh air damper is 100% open, and return air damper is 100% closed，only the evaporator fan is running to blow air into room;
   b. When 0 ℃ ≤ indoor room temperature (temperature set) – outdoor temperature< 4 ℃ ，both fresh air damper and return air damper are closed, and the unit is not running;
   c. When indoor room temperature (temperature set) – outdoor temperature < 0 ℃，the return air damper is 100% open，and fresh air damper is 100% closed，then the compressor, condensing fan and evaporator fan will work normally to blow cool air into room.
2. When it is heating:
   It operate in similar way as for free cooling.

Optional heat recovery

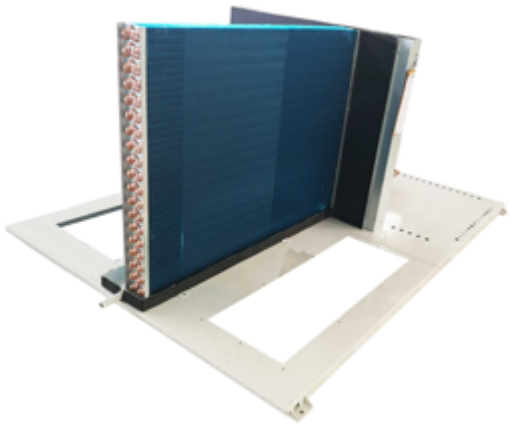
Available with a hygroscopic or non-hygroscopic rotor for recovering and transferring heat energy from the exhaust to the supply air streams.

Optional filter



G3 aluminium filter is standard, optional preliminary, medium filter are optional.

Optional supply air outlet and return air inlet at the unit bottom



It is optional to have the supply air outlet and return air inlet at bottom.

Optional MEPS efficiency

It is optional to have the units with efficiency as per MEPS standard.

Specification

Model		IQRTU72	IQRTU96	IQRTU125	IQRTU168	IQRTU180	IQRTU210
Cooling Capacity	kW	24	30.3	35.6	44.5	50	60
Heating Capacity	kW	26.5	33.3	37.7	48.7	54.3	64
Cooling Input	kW	8.8	11.30	12.3	17	19.5	22.8
Heating Input	kW	8.2	10.4	11.3	15.6	18	21
Circuit number	Nos.	2	2	2	2	2	2
Start current	A	63	74	76	168	186	175
Cooling operation current	A	16.1	21.2	23.3	31.7	35.6	39.9
Heating operation current	A	15.1	20.1	22.2	29.9	33.5	37.5
Power	V/Ph/Hz	380/3/50					
Compressor	Type	Hermetically Sealed Scroll Compressor					
Cond. fan	Type	Direct drived axial fan					
Supply fan	Type	Belt drived centrifugal fan					
Air flow	m^3/h	4100	5200	6300	7600	8500	10900
Max ESP	Pa	200	200	250	250	250	300
Filter type		Aluminum G3					
Noise	dB(A)	71	72	72	73	73	73
Refrigerant	Type	R410A					
Refri. charge amount	Kg	2x3.1	2x3.1	2x4.3	6.3+3.5	4.3+8.5	2x7.5
Dimension(mm)	Length	1978	1978	1978	2268	2268	2298
	Width	1175	1175	1175	1440	1440	1650
	Height	1095	1095	1095	1167	1167	1400
Weight	Kg	420	480	500	750	770	830

Model		IQRTU250	IQRTU300	IQRTU360	IQRTU415	IQRTU480	IQRTU520
Cooling Capacity	kW	70	90	105	120	140	149
Heating Capacity	kW	75.4	96.2	113.2	128.3	150	159.2
Cooling Input	kW	26.7	32.9	39.7	45.1	55.7	55.1
Heating Input	kW	24.8	30.4	36.7	41.7	51.8	51.5
Circuit number	Nos.	2	3	3	4	4	2
Start current	A	199	197	266	218	252	323
Cooling operation current	A	48.3	61	70.6	82.4	101.4	100.2
Heating operation current	A	45.4	57.3	66.3	77.4	95.7	95.1
Power	V/Ph/Hz	380/3/50					
Compressor	Type	Hermetically Sealed Scroll Compressor					
Cond. fan	Type	Direct drived axial fan					
Supply fan	Type	Belt drived centrifugal fan					
Air flow	m^3/h	12500	16000	19500	21000	25000	26000
Max ESP	Pa	300	300	300	400	400	400
Filter type		Aluminum G3					
Noise	dB(A)	75	74	75	75	79	79
Refrigerant	Type	R410A					
Refri. charge amount	Kg	2x8.5	3x7.5	3x8.5	4x7.5	4x8.5	2x17
Dimension(mm)	Length	2298	2878	2878	3626	3626	3626
	Width	1650	2140	2140	2200	2200	2200
	Height	1400	1964	1964	2047	2047	2047
Weight	Kg	860	1160	1350	1710	1820	1850

NOTES: Cooling conditioning: Indoor temperature DB: 27 ℃, WB: 19 ℃; outdoor temperature DB: 35 ℃,WB: 24 ℃.
Heating conditioning: Indoor temperature DB: 20 ℃ , WB: 15 ℃ ; outdoor temperature DB: 7 ℃ ,WB: 6 ℃ .

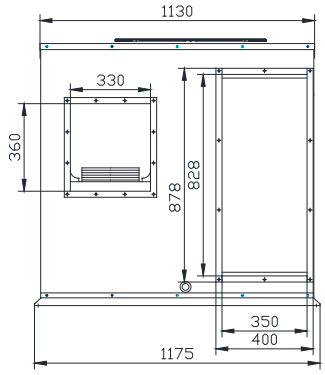
Specification

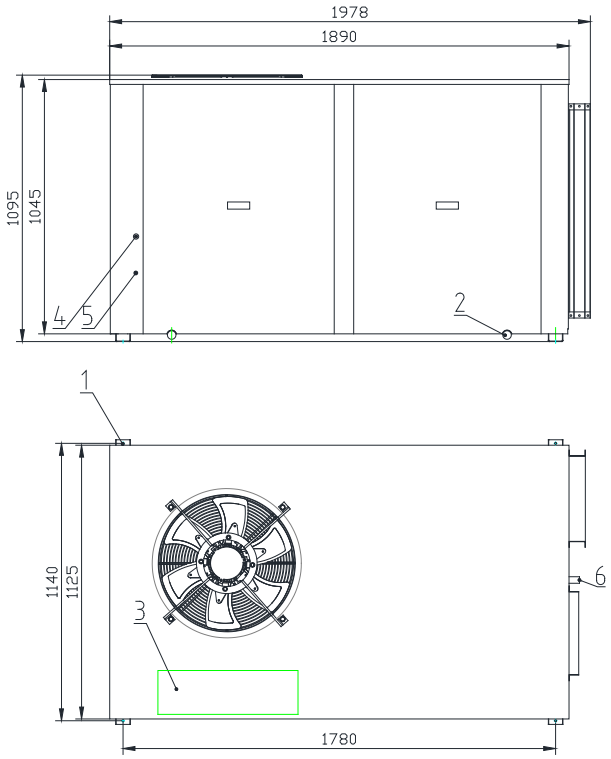
Model		IQRTU630	IQRTU750	IQRTU1023
Cooling Capacity	kW	180	210	298
Heating Capacity	kW	192.5	226	318
Cooling Input	kW	69.9	83	106.7
Heating Input	kW	64.8	77	100
Circuit number	Nos.	6	6	4
Start current	A	232	301	415
Cooling operation current	A	130.9	151	192.3
Heating operation current	A	123.5	142.3	184.3
Power	V/Ph/Hz	380/3/50 （60Hz Optional）		
Compressor	Type	Hermetically Sealed Scroll Compressor		
Cond. fan	Type	Direct drived axial fan		
Supply fan	Type	Belt drived centrifugal fan		
Air flow	m^3/h	32000	38000	54000
Max ESP	Pa	500	500	500
Filter type		Aluminum G3		
Noise	dB(A)	80	80	82
Refrigerant	Type	R410A		
Refri. charge amount	Kg	6x7.5	6x8.5	4x14
Dimension(mm)	Length	5950	5950	5660
	Width	2260	2260	2330
	Height	2170	2170	2055
Weight	Kg	2180	2430	2860

NOTES: Cooling conditioning: Indoor temperature DB: 27 ℃, WB: 19 ℃; outdoor temperature DB: 35 ℃,WB: 24 ℃.
Heating conditioning: Indoor temperature DB: 20 ℃ , WB: 15 ℃ ; outdoor temperature DB: 7 ℃ ,WB: 6 ℃ .

Dimension

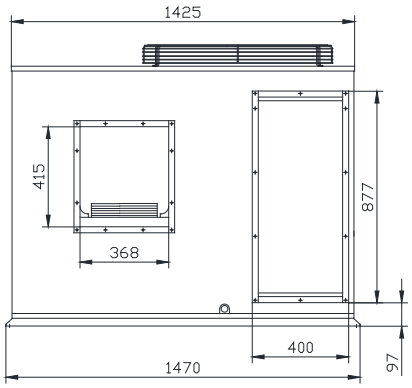
IQRTU72, 96, 125

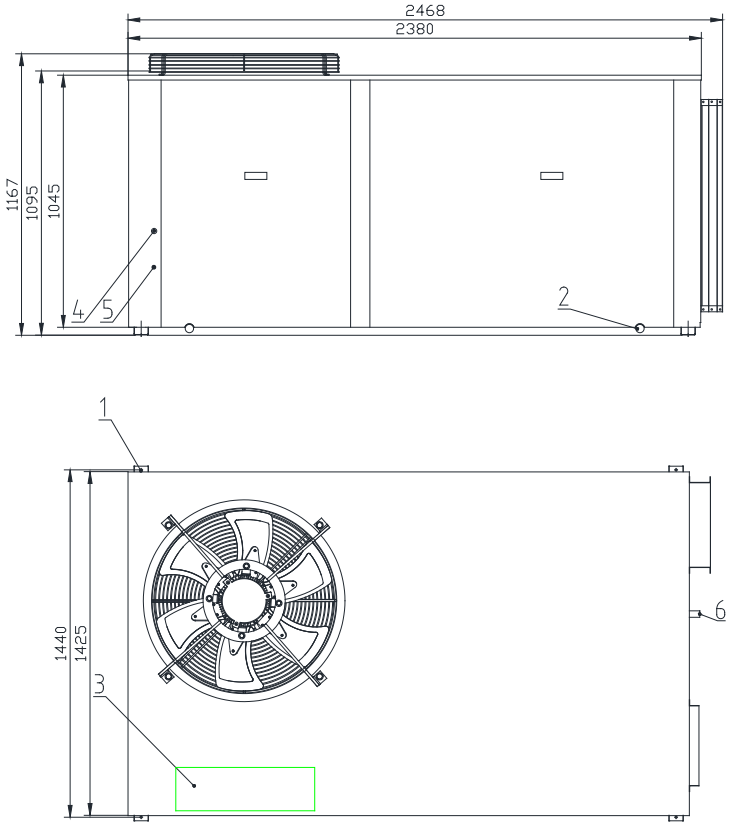




NOTES:
1. Unit installation hole 4xΦ12.5；
2. Unit lifting hole 4xΦ35；
3. Control box ；
4. Power supply cable inlet hole Φ22；
5. Communication cable inlet hole Φ16；
6. Drain water pipe diameter 1".

IQRTU168, 180

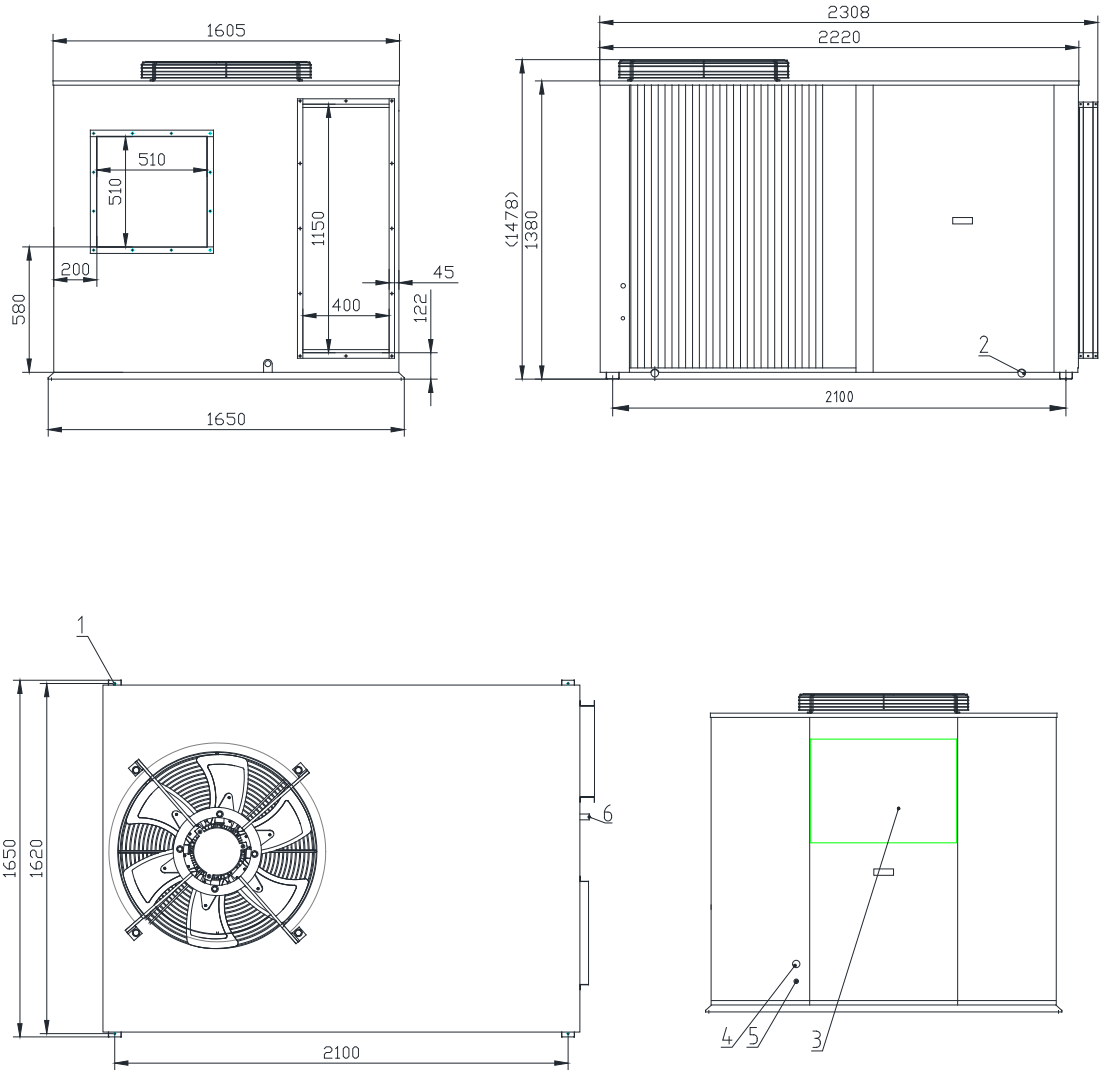




NOTES:
1. Unit installation hole 4xΦ12.5；
2. Unit lifting hole 4xΦ35；
3. Control box ；
4. Power supply cable inlet hole Φ22；
5. Communication cable inlet hole Φ16；
6. Drain water pipe diameter 1".

Dimension

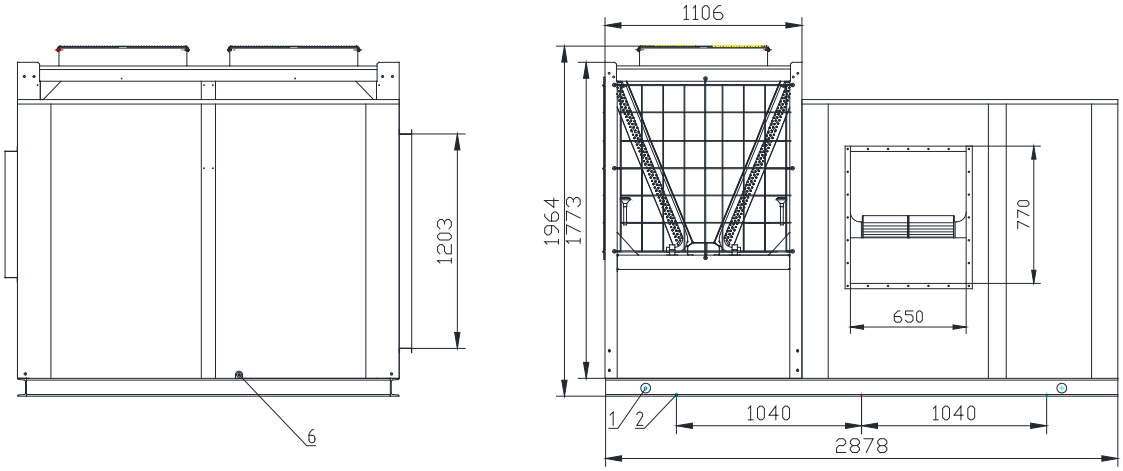
IQRTU210, 250

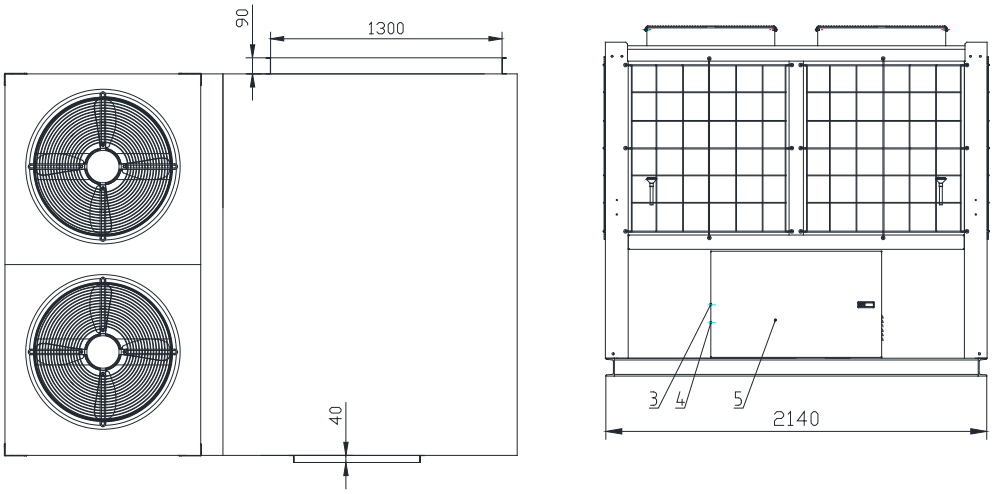


NOTES:
1. Unit installation hole 4xΦ12.5；
2. Unit lifting hole 4xΦ45；
3. Control box ；
4. Power supply cable inlet hole Φ35；
5. Communication cable inlet hole Φ22；
6. Drain water pipe diameter 1".

Dimension

IQRTU300, 360

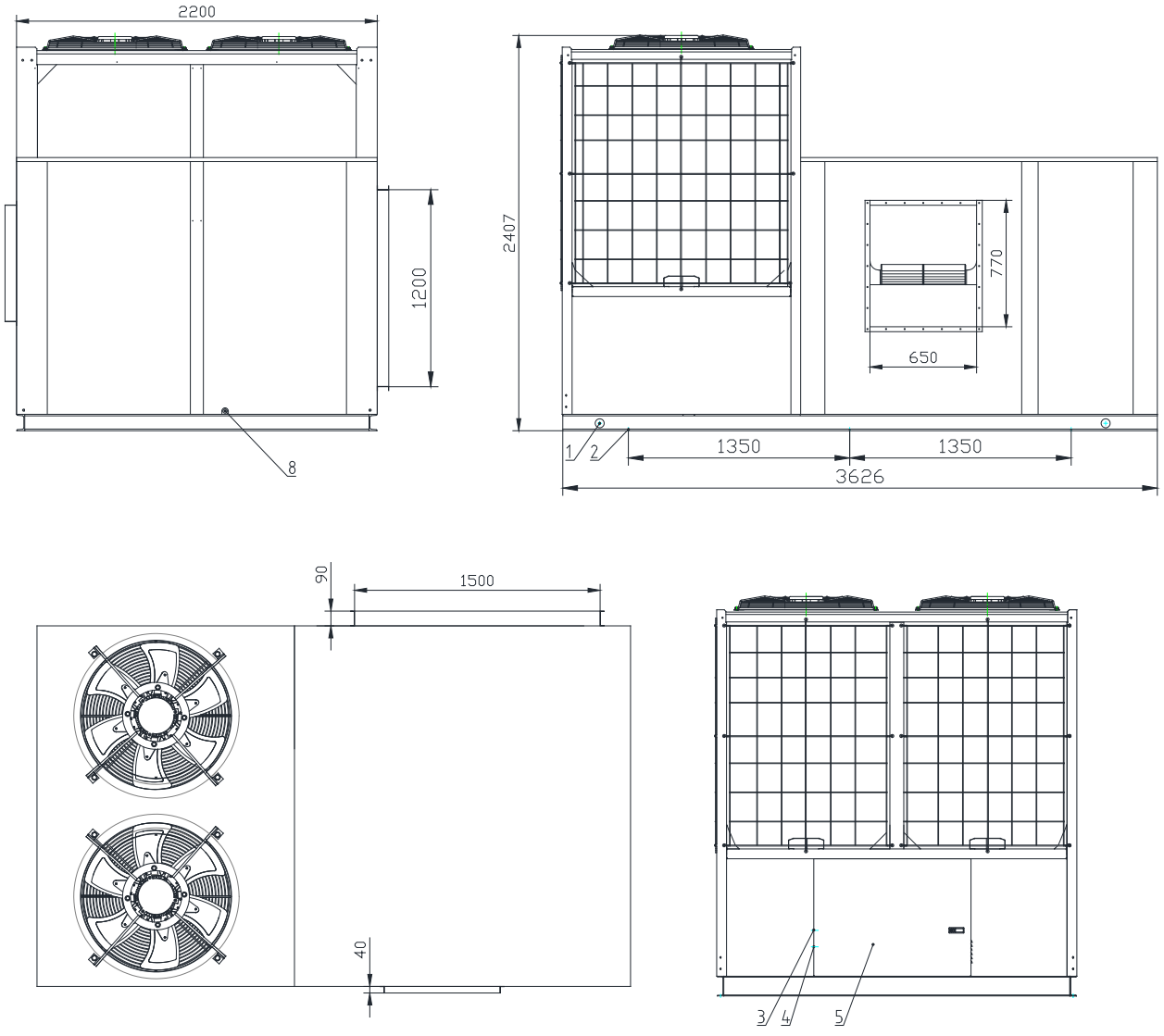




NOTES:
1. Unit lifting hole 4xΦ50；
21. Unit installation hole 4xΦ12.5；
3. Power supply cable inlet hole Φ45；
4. Communication cable inlet hole Φ16；
5. Control box ；
6. Drain water pipe diameter 1".

Dimension

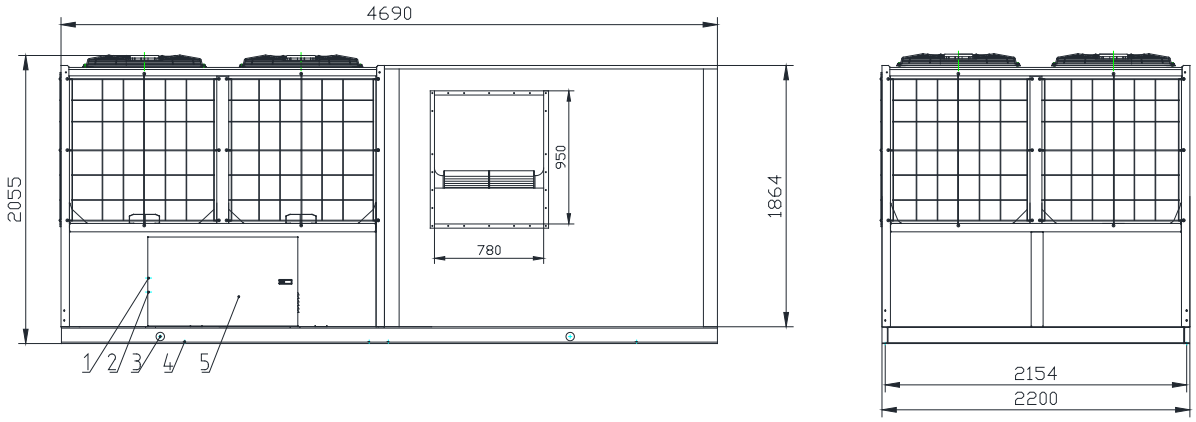
IQRTU415, 480, 520

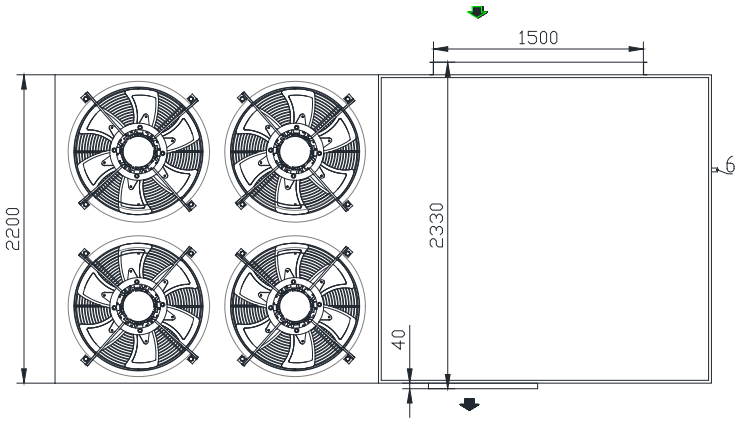


NOTES:
1. Unit lifting hole 4xΦ50；
21. Unit installation hole 4xΦ12.5；
3. Power supply cable inlet hole Φ35；
4. Communication cable inlet hole Φ16；
5. Control box ；
6. Drain water pipe diameter 1".

Dimension

IQRTU630,750

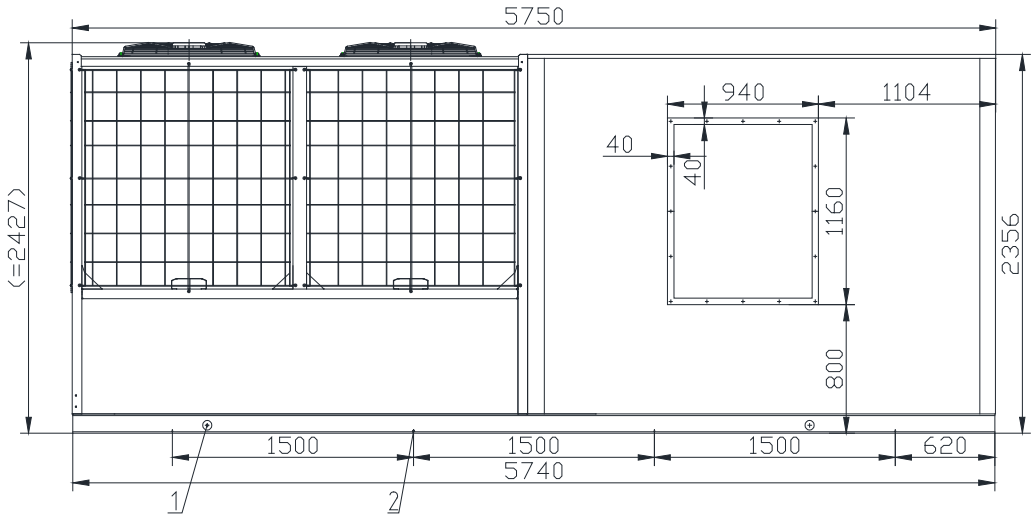


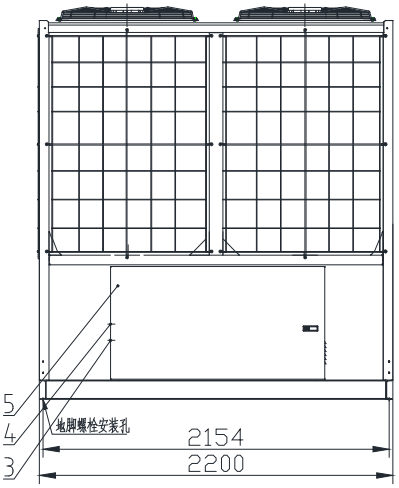


NOTES:
1. Unit lifting hole 4xΦ50；
2. Unit installation hole 4xΦ12.5；
3. Power supply cable inlet hole Φ50；
4. Communication cable inlet hole Φ16；
5. Control box ；
6. Drain water pipe diameter 1".

Dimension

IQRTU1023





NOTES:
1. Unit lifting hole 4xΦ50；
2. Unit installation hole 8xΦ12.5；
3. Power supply cable inlet hole Φ80；
4. Communication cable inlet hole Φ16；
5. Control box ；
6. Drain water pipe diameter 1".