Rooftop Packaged Unit
10kW-110kW

Vicot Air Conditioning Co., Ltd

ABOUT US

Vicot Group is a high-tech corporation specialized in R&D, production, sales and service of renewable energy products.

The corporation has almost 2000 staff and nine business divisions and/or centers as following: Solar Thermal Energy Equipment Division, Vacuum Tube Division, Gas Fired Air Conditioning Division, Electrical Air Conditioning Division, Domestic Marketing & Sales Division, Export & Import Division, Administrative & Human Resource Center, Company Management Center and General Manager Office.

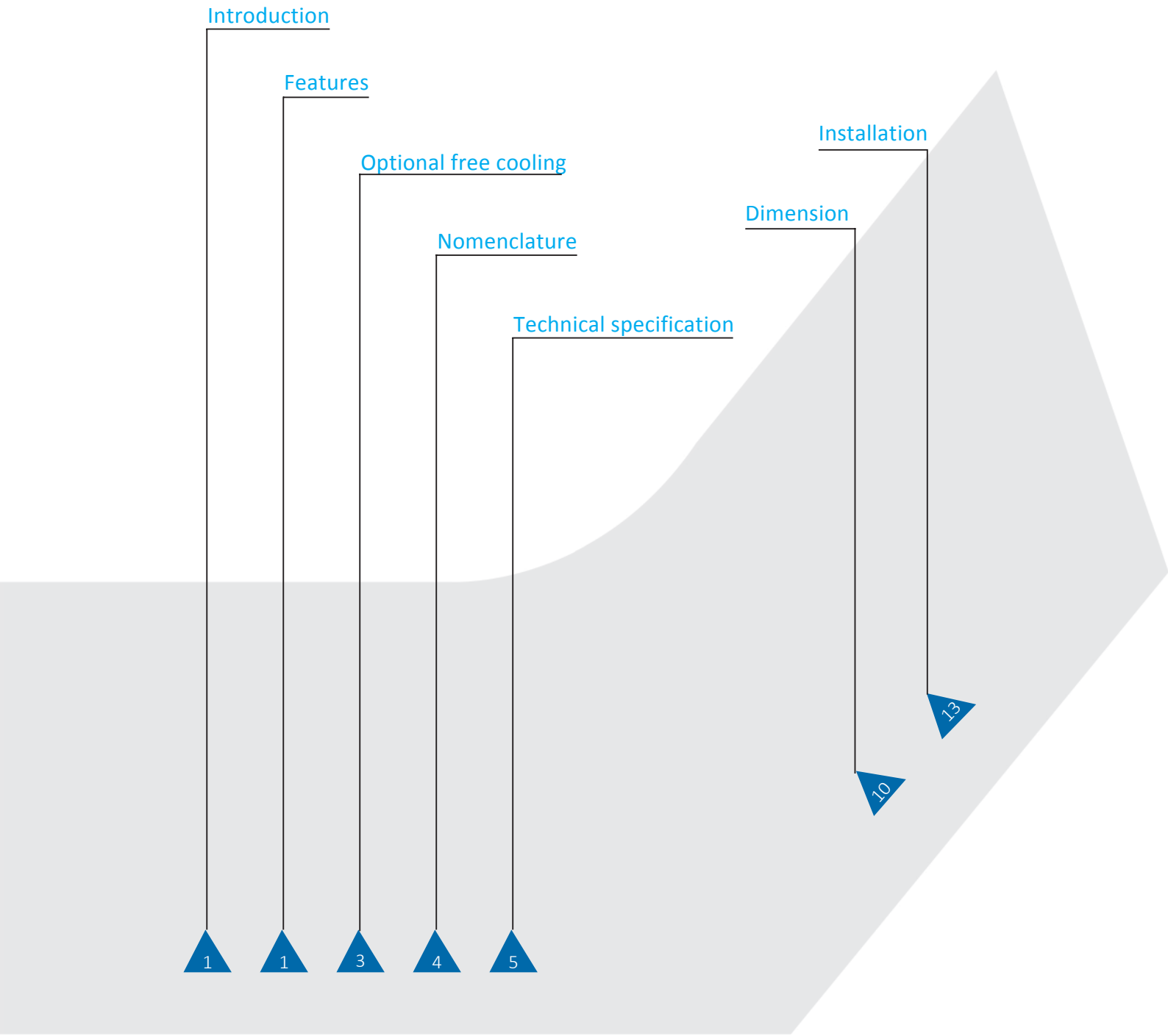
Our production base locates in Solar City, Dezhou, China, it covers an area of 150,000 m^2 with modern workshops and office buildings of more than 80,000 m^2. Annual yield capabilities are as follows: 100,000 electrical AC units; 10,000 gas fired AC units; 200,000 m^2 of collectors; 100,000 pieces of tubes; 5,000 standard sets of solar air conditioning system (20kW/ standard set), 200,000 standard sets of S.A.P central hot water system (10T/ standard set), 10,000 standard sets of S.A.P central distributed heating system (40kW/ standard set) and 500 standard sets of solar boiler system (700kW/ standard set). Designed annual production value reaches RMB 5 billion.

With the mission of “The same breath, energy saving together”, the corporation realizes energy saving and environment protection by focusing on effective utilization of solar energy, air source energy, geothermal energy and other renewable energies in cooling, heating and domestic hot water fields, in pursuit of technology innovations in the field of global renewable energy utilization.

After years’ practice in geothermal chiller & heat pump, air source chiller and heat pump and floor heating fields, Vicot accumulates rich experience in development and production and reaches a nationally advanced level. With a total investment of RMB 16 million in April 2008, after 3 years’ collaboration with more than 20 global universities and research institutes in sequence, Vicot successfully and innovatively launched solar air conditioning system, S.A.P central hot water system, S.A.P central distributed heating system, solar boiler system, having more than 150 patents, large scale production of them has been realized, the past and current scientists and engineers’ cherished wish has been realized. It places China at the world top level in solar medium temperature application field, it turns the dream into truth, for solar energy scale application in commercial and industrial field.

In the meantime of developing the technology of world leading new energy product, the corporation is operated with global advanced ERP technique, UPDI\WMS barcode storage system and ABC cost control system. Information, logistics and cash flow are highly integrated, which austerely shows its concept of “Quality based on science, Price optimized for customer”.

Contents


Introduction
Features
Optional free cooling
Nomenclature
Technical specification
Dimension
Installation
1
1
3
4
5
10
13

Introduction

Vicot rooftop packaged units are applied in the industrial and commercial fields such as hotel, supermarkets, authorized dealing shop, office building and factory workshop. They perfectly connect many characteristic of large-sized central a/c, such as convenience, comfort, high-class , the simplicity and flexibility. The new design makes use of the space module, the features of small-sized commercial modern building space, making the cool and heat air spread into each room averagely to form “Zero” temperature difference. Besides, outdoor fresh air can be absorbed. The air path can connect with indoor ornament which is completely hidden and doesn’t occupy any space. It has become a new generation of products of central a/c and traditional commercial a/c.

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.

Features

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.

5. Quiet operation and Convenient maintenance

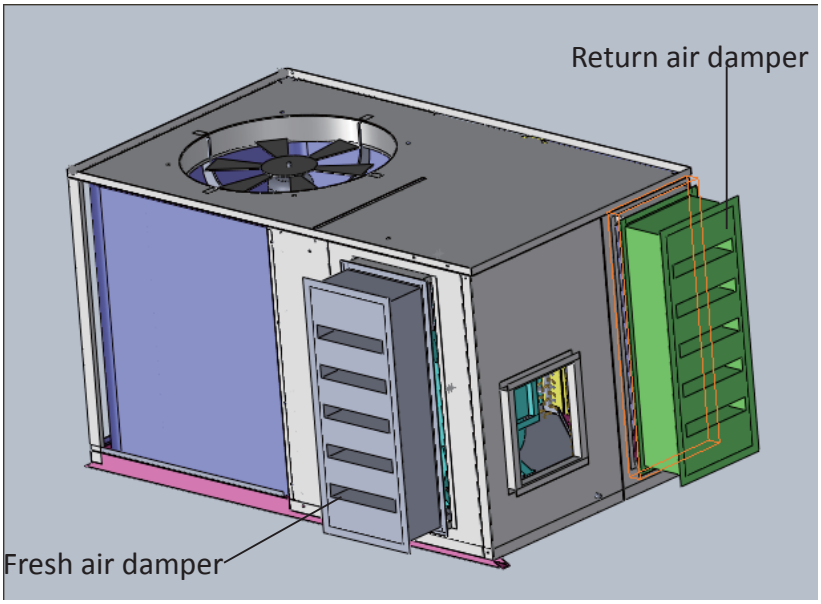
Reach the lowest noise of the a/c room. The a/c units are placed far from the a/c area which meets the demand of indoor low noise to the greatest degree. The adoption of high efficiency and low noise centrifugal fan makes the quiet operation come true.

Copeland Scroll

Danfoss

LCD controller

Optional free cooling



Free cooling logic:

1. When it's heating, the fresh air damper is closed, and return air damper is 100% open;

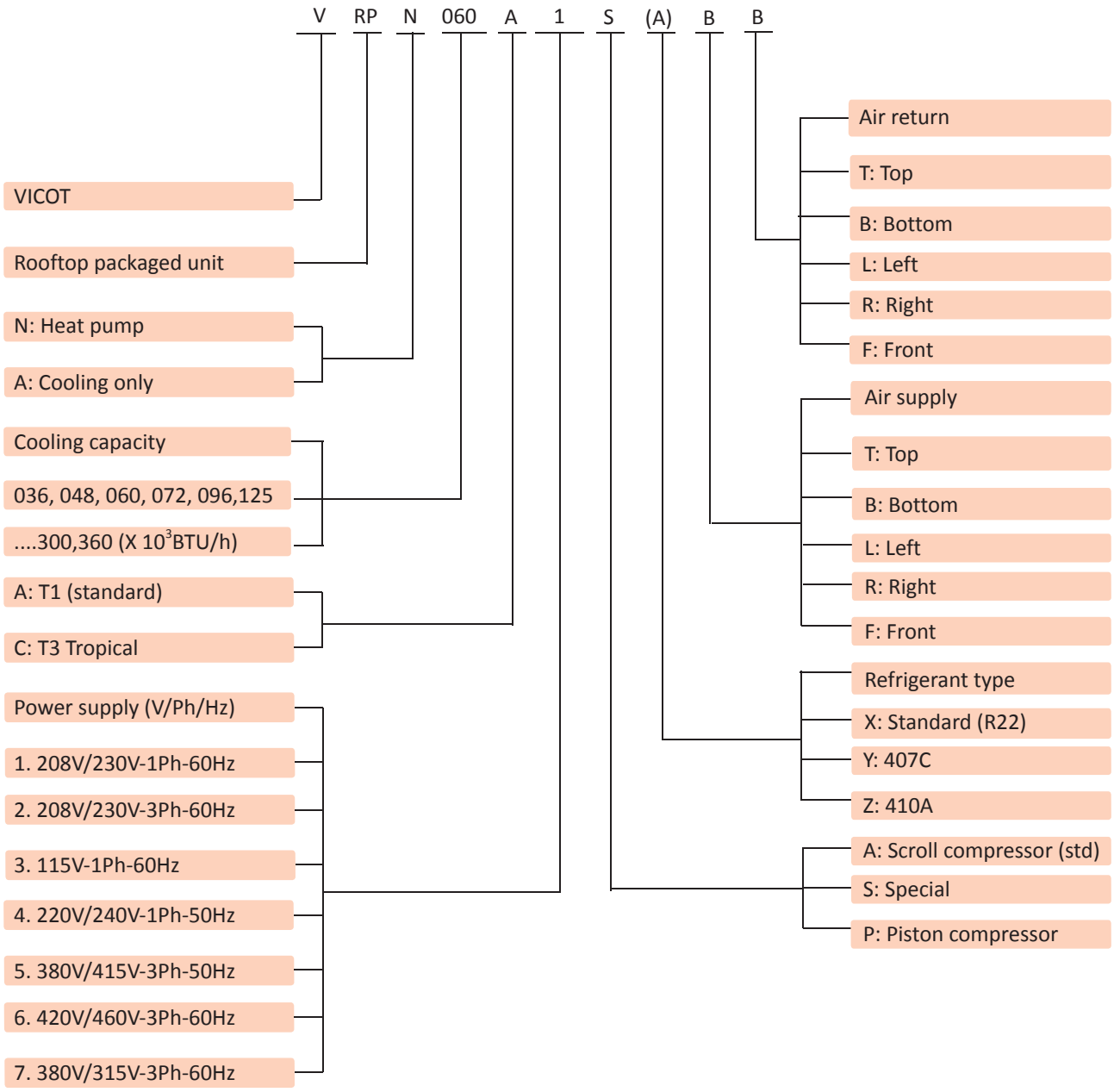
2. When it's cooling:

a. When indoor room temperature (temperature set) – outdoor temperature ≥ 4°C, 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 °C ≤ indoor room temperature (temperature set) – outdoor temperature< 4°C, 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°C, 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.

Nomenclature



Technical specification

Table 1 - Cooling only 50Hz

Model		VRPA036A5	VRPA048A5	VRPA060A5	VRPA072A5	VRPA096A5
Cooling Capacity	(R22) kW	10.6	14.0	17.6	21.1	28.2
Cooling Capacity	(R407C)kW	10.0	13.4	16.7	20.0	26.7
Cooling Input	kW	4.16	5.82	6.68	8.1	11
Circuit number	Nos	1	1	1	2	2
Power	V/Ph/Hz	380/3/50				
Refrigerant	-	R22/R407c				
Compressor	Type	Hermetically Sealed Scroll Compressor				
Cond. fan	Type	Axial				
	Drive	Direct				
Supply fan	Type	Centrifugal				
Air flow	m3/h	2100	2700	3400	4200	5200
Max ESP	Pa	50	50	50	150	150
Noise	dB(A)	57	58	59	63	64
Ref. Charge	Kg	1.6	2.0	2.2	2.7 X 2	3.0 X 2
Dimension	L (mm)	1150	1150	1150	1685	1685
	W (mm)	735	735	735	1110	1110
	H (mm)	850	850	850	1045	1045
Weight	Kg	160	170	170	260	310

NOTES: Cooling conditioning: Indoor temperature DB: 27°C, WB: 19°C;
Outdoor temperature DB: 35°C,WB: 24°C.

Model		VRPA125A5	VRPA168A5	VRPA250A5	VRPA300A5	VRPA360A5
Cooling Capacity	(R22) kW	36.7	49.3	73.3	88.0	105.5
Cooling Capacity	(R407C)kW	34.8	46.8	69.6	83.6	100.3
Cooling Input	kW	13.1	18.72	29.12	35.36	41.6
Circuit number	Nos	2	2	2	2	2
Power	V/Ph/Hz	380/3/50				
Refrigerant	-	R22/R407c				
Compressor	Type	Hermetically Sealed Scroll Compressor				
Cond. fan	Type	Axial				
	Drive	Direct				
Supply fan	Type	Centrifugal				
Air flow	m3/h	6000	8000	12500	17000	21800
Max ESP	Pa	250	250	250	300	300
Noise	dB(A)	65	68	72	75	77
Ref. Charge	Kg	4.8×2	6.3+3.5	7.6x2	9x2	10x2
Dimension	L (mm)	2010	2010	2845	3445	3445
	W (mm)	1165	1165	2115	2115	2115
	H (mm)	1155	1155	1195	1195	1195
Weight	Kg	384	600	860	1400	1480

NOTES: Cooling conditioning: Indoor temperature DB: 27°C, WB: 19°C;
Outdoor temperature DB: 35°C,WB: 24°C.

Technical specification

Table 2 - Cooling only 60Hz

Model		VRPA072A2	VRPA096A2	VRPA125A2	VRPA168A2	VRPA250A2
Cooling Capacity	(R22)kW	21.1	28.2	36.7	49.3	73.3
Cooling Capacity	(R407C)kW	20.0	26.7	34.8	46.8	69.6
Cooling Input	kW	8.42	11.44	13.1	18.72	29.12
Circuit number	Nos	2	2	2	2	2
Power	V/Ph/Hz	220/3/60				
Refrigerant	-	R22/R407c				
Compressor	Type	Hermetically Sealed Scroll Compressor				
Cond. fan	Type	Axial				
	Drive	Direct				
Supply fan	Type	Centrifugal				
Air flow	m3/h	4200	5200	6000	8000	12500
Max ESP	Pa	150	150	250	250	250
Noise	dB(A)	63	64	65	68	72
Ref. Charge	kg	2.7×2	3.0×2	4.8×2	6.3+3.5	7.6x2
Dimension(mm)	Length	1685	1685	2010	2010	2845
	Width	1110	1110	1165	1165	2115
	Height	1045	1045	1155	1155	1195
Weight	Kg	260	310	384	600	860

NOTES: Cooling conditioning: Indoor temperature DB: 27°C, WB: 19°C;
Outdoor temperature DB: 35°C,WB: 24°C.

Model		VRPA300A2	VRPA360A2
Cooling Capacity	(R22)kW	88.0	105.5
Cooling Capacity	(R407C)kW	83.6	100.3
Cooling Input	kW	35.36	41.6
Circuit number	Nos	2	2
Power	V/Ph/Hz	220/3/60	
Refrigerant	-	R22/R407c	
Compressor	Type	Hermetically Sealed Scroll Compressor	
Cond. fan	Type	Axial	
	Drive	Direct	
Supply fan	Type	Centrifugal	
Air flow	m3/h	17000	21800
Max ESP	Pa	300	300
Noise	dB(A)	75	77
Ref. Charge	kg	9x2	10x2
Dimension(mm)	Length	3445	3445
	Width	2115	2115
	Height	1195	1195
Weight	Kg	1400	1480

NOTES: Cooling conditioning: Indoor temperature DB: 27°C, WB: 19°C;
Outdoor temperature DB: 35°C,WB: 24°C.

Technical specification

Table 3 - Heat pump 50Hz

Model		VRPN036A5	VRPN048A5	VRPN060A5	VRPN072A5	VRPN096A5
Cooling Capacity	(R22)kW	10.6	14.0	17.6	21.1	28.2
Cooling Capacity	(R407C)kW	10.0	13.4	16.7	20.0	26.7
Heating Capacity	(R22)kW	11.0	15.6	18.0	21.6	28.7
Heating Capacity	(R407C)kW	10.4	14.8	17.2	20.6	27.2
Cooling Input	kW	4.16	5.82	6.86	8.42	11.44
Heating Input	kW	3.75	4.89	6.19	8.22	10.92
Circuit number	Nos	1	1	1	2	2
Power	V/Ph/Hz	380/3/50				
Compressor	Type	Hermetically Sealed Scroll Compressor				
Cond. fan	Type	Direct drived axial fan				
Supply fan	Type	Direct drived centrifugal fan				
Air flow	m3/h	2100	2700	3400	4200	5200
Max ESP	Pa	50	50	50	150	150
Noise	dB(A)	57	58	59	63	64
Ref. Charge	Kg	2.5	3.1	3.8	2.7×2	3.0×2
Dimension(mm)	Length	1300	1300	1300	1685	1685
	Width	970	970	970	1110	1110
	Height	790	790	790	1045	1045
Weight	Kg	165	210	210	260	310

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

Model		VRPN125A5	VRPN168A5	VRPN250A5	VRPN300A5	VRPN360A5
Cooling Capacity	(R22)kW	36.7	49.3	73.3	88.0	105.5
Cooling Capacity	(R407C)kW	34.8	46.8	69.6	83.6	100.3
Heating Capacity	(R22)kW	37.4	50.4	75.3	89.4	107.3
Heating Capacity	(R407C)kW	35.6	47.8	71.5	85.0	102.0
Cooling Input	kW	13.1	18.72	29.12	35.36	41.6
Heating Input	kW	12.7	17.89	27.9	37.4	43.7
Circuit number	Nos	2	2	2	2	2
Power	V/Ph/Hz	380/3/50				
Compressor	Type	Hermetically Sealed Scroll Compressor				
Cond. fan	Type	Direct drived axial fan				
Supply fan	Type	Direct drived centrifugal fan				
Air flow	m3/h	6000	8000	12500	17000	21800
Max ESP	Pa	250	250	250	300	300
Noise	dB(A)	65	68	72	75	77
Ref. Charge	Kg	4.8×2	6.5+3.7	7.6×2	9×2	10×2
Dimension(mm)	Length	2010	2010	2845	3445	3445
	Width	1165	1165	2115	2115	2115
	Height	1155	1155	1195	1195	1195
Weight	Kg	384	600	860	1500	1580

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

Technical specification

Table 4 - Heat pump 60Hz

Model		VRPN072A2	VRPN096A2	VRPN125A2	VRPN168A2	VRPN250A2
Cooling Capacity	(R22)kW	21.1	28.2	36.7	49.3	73.3
Cooling Capacity	(R407C)kW	20.0	26.7	34.8	46.8	69.6
Heating Capacity	(R22)kW	21.6	28.7	37.4	50.4	75.3
Heating Capacity	(R407C)kW	20.6	27.2	35.6	47.8	71.5
Cooling Input	kW	8.42	11.44	13.1	18.72	29.12
Heating Input	kW	8.22	10.92	12.7	17.89	27.9
Circuit number	Nos	2	2	2	2	2
Power	V/Ph/Hz	220/3/60				
Compressor	Type	Hermetically Sealed Scroll Compressor				
Cond. fan	Type	Direct drived axial fan				
Supply fan	Type	Direct drived centrifugal fan				
Air flow	m3/h	4200	5200	6000	8000	12500
Max ESP	Pa	150	150	250	250	250
Noise	dB(A)	63	64	65	68	72
Ref. Charge	Kg	2.7×2	3.0×2	4.8×2	6.5+3.7	7.6x2
Dimension(mm)	Length	1685	1685	2010	2010	2845
	Width	1110	1110	1165	1165	2115
	Height	1045	1045	1155	1155	1195
Weight	Kg	260	310	384	600	860

NOTES: Cooling conditioning: Indoor temperature DB: 27^{O}C, WB: 19^{O}C; outdoor temperature DB: 35^{O}C,WB: 24^{O}C.
Heating conditioning: Indoor temperature DB: 20^{O}C, WB: 15^{O}C; outdoor temperature DB: 7^{O}C,WB: 6^{O}C.

Model		VRPN300A2	VRPN360A2
Cooling Capacity	(R22)kW	88.0	105.5
Cooling Capacity	(R407C)kW	83.6	100.3
Heating Capacity	(R22)kW	89.4	107.3
Heating Capacity	(R407C)kW	85.0	102.0
Cooling Input	kW	35.36	41.6
Heating Input	kW	37.4	43.7
Circuit number	Nos	2	2
Power	V/Ph/Hz	220/3/60	
Compressor	Type	Hermetically Sealed Scroll Compressor	
Cond. fan	Type	Direct drived axial fan	
Supply fan	Type	Direct drived centrifugal fan	
Air flow	m3/h	17000	21800
Max ESP	Pa	300	300
Noise	dB(A)	75	77
Ref. Charge	Kg	9x2	10x2
Dimension(mm)	Length	3445	3445
	Width	2115	2115
	Height	1195	1195
Weight	Kg	1500	1580

NOTES: Cooling conditioning: Indoor temperature DB: 27^{O}C, WB: 19^{O}C; outdoor temperature DB: 35^{O}C,WB: 24^{O}C.
Heating conditioning: Indoor temperature DB: 20^{O}C, WB: 15^{O}C; outdoor temperature DB: 7^{O}C,WB: 6^{O}C.

Technical specification

Table 5 - T3 Tropical

Model		VRPA036C5	VRPA048C5	VRPA060C5	VRPA072C5	VRPA096C5
Cooling Capacity-R22	kW(A)	9.0	12.0	15.0	18.0	24.0
	kW(B)	8.6	11.4	14.2	17.0	22.8
Cooling Input	kW(A)	4.3	6.1	7.1	8.8	11.9
	kW(B)	4.5	6.3	7.4	9.1	12.35
Circuit number	Nos	1	1	1	2	2
Power	V/Ph/Hz	380/3/50				
Refrigerant	-	R22/R407c				
Compressor	Type	Hermetically Sealed Scroll Compressor				
Cond. fan	Type	Direct drived axial fan				
Supply fan	Type	Direct drived centrifugal fan				
Air flow	m3/h	2100	2700	3400	4200	5200
Max ESP	Pa	50	50	50	150	150
Noise	dB(A)	57	58	59	63	64
Ref. Charge	Kg	1.6	2	2.2	2.7×2	3.0×2
Dimension(mm)	Length	1150	1150	1150	1685	1685
	Width	735	735	735	1110	1110
	Height	850	850	850	1045	1045
Weight	Kg	160	170	170	260	310

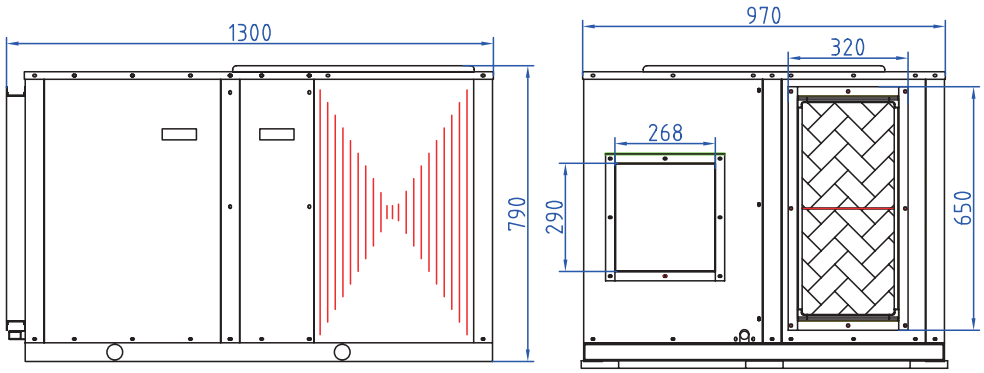
NOTES: Cooling conditioning:
Indoor temperature DB: 29^{O}C, WB: 19^{O}C;
Outdoor temperature (A)DB: 35^{O}C,WB: 24^{O}C. (B):DB: 46^{O}C,WB: 24^{O}C.

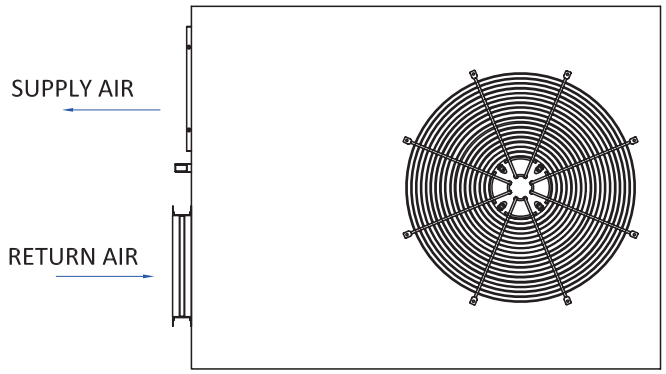
Model		VRPA125C5	VRPA168C5	VRPA250C5	VRPA300C5	VRPA360C5
Cooling Capacity-R22	kW(A)	31.2	41.9	62.3	74.8	89.7
	kW(B)	29.6	39.8	59.2	71.0	85.2
Cooling Input	kW(A)	13.6	19.5	30.2	36.8	43.2
	kW(B)	14.15	20.2	31.45	38.2	45.0
Circuit number	Nos	2	2	2	2	2
Power	V/Ph/Hz	380/3/50				
Refrigerant	-	R22/R407c				
Compressor	Type	Hermetically Sealed Scroll Compressor				
Cond. fan	Type	Direct drived axial fan				
Supply fan	Type	Direct drived centrifugal fan				
Air flow	m3/h	6000	8000	12500	17000	21800
Max ESP	Pa	250	250	250	300	300
Noise	dB(A)	65	68	72	75	77
Ref. Charge	Kg	4.8×2	6.3+3.5	7.6x2	9x2	10x2
Dimension(mm)	Length	2010	2010	2845	3445	3445
	Width	1165	1165	2115	2115	2115
	Height	1155	1155	1195	1195	1195
Weight	Kg	384	600	860	1400	1480

NOTES: Cooling conditioning:
Indoor temperature DB: 29^{O}C, WB: 19^{O}C;
Outdoor temperature (A)DB: 35^{O}C,WB: 24^{O}C. (B):DB: 46^{O}C,WB: 24^{O}C.

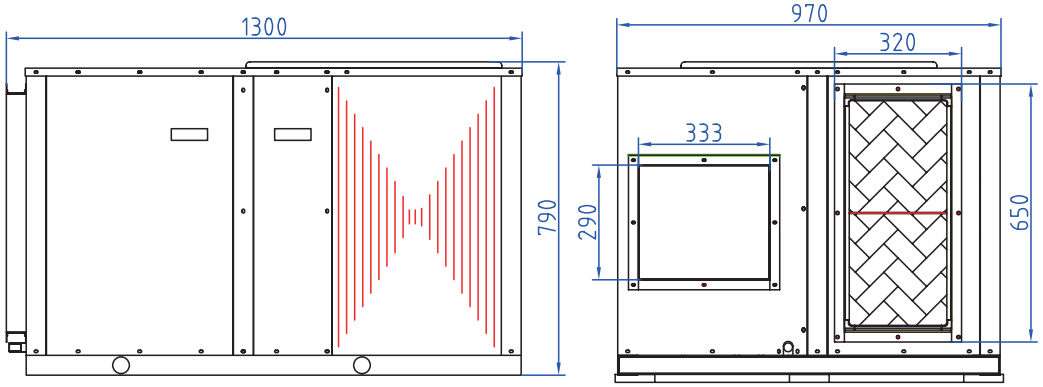
Dimension

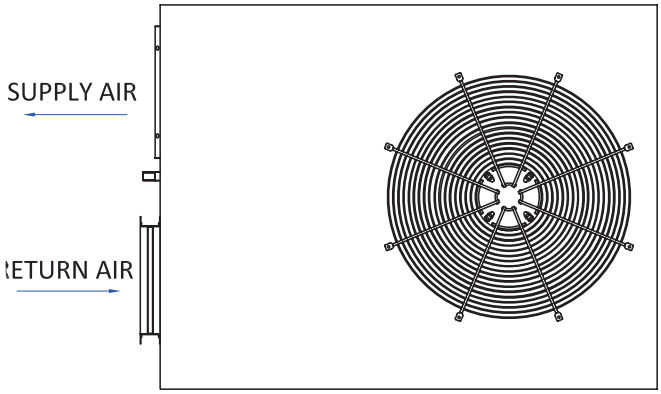
VRPA(N)036





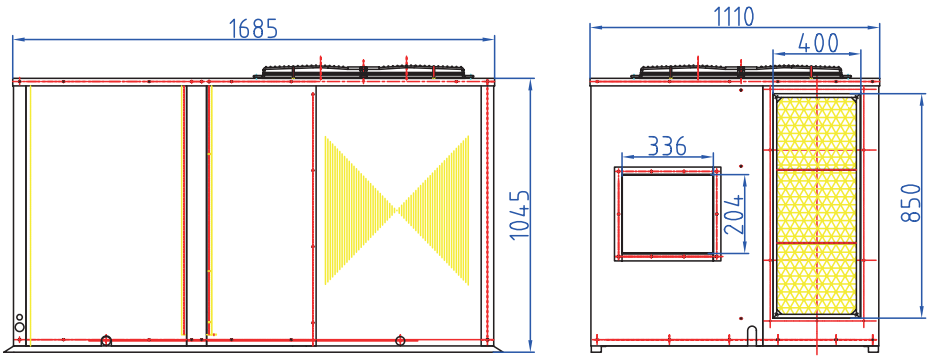
VRPA(N) 048 & VRPA(N)060

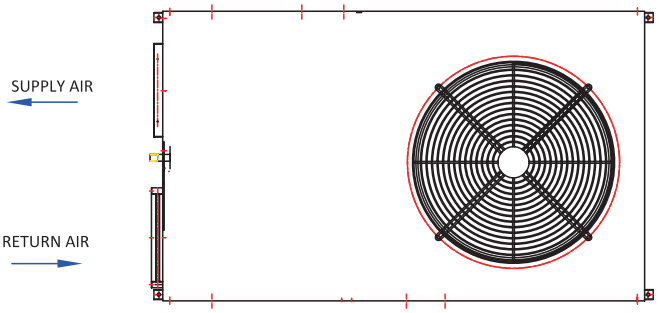




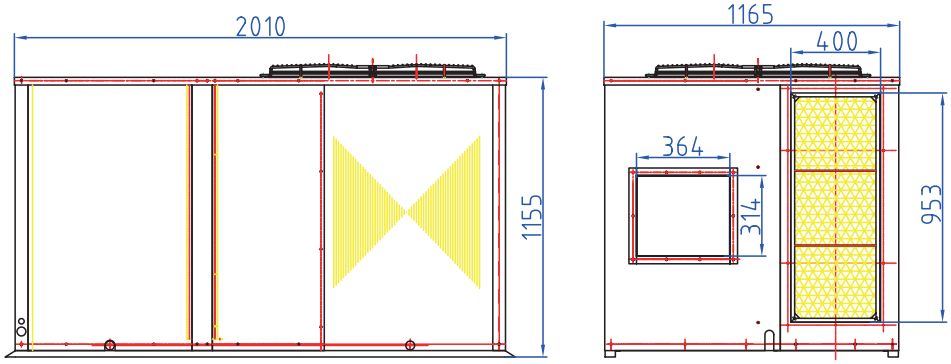
Dimension

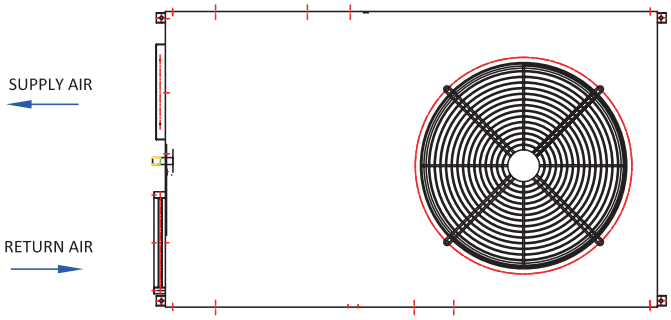
VRPA(N)072 & VRPA(N)096





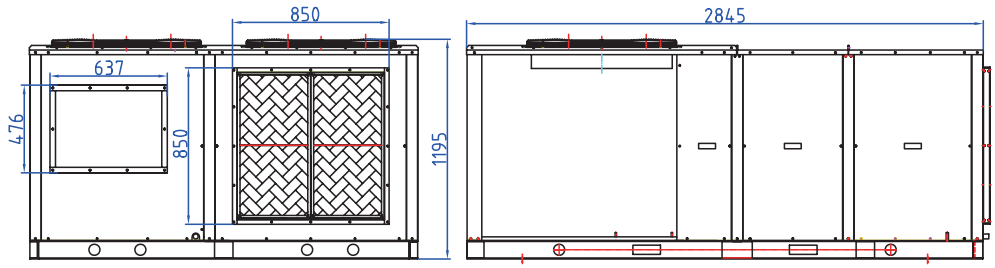
VRPA(N)125& VRPA(N)168

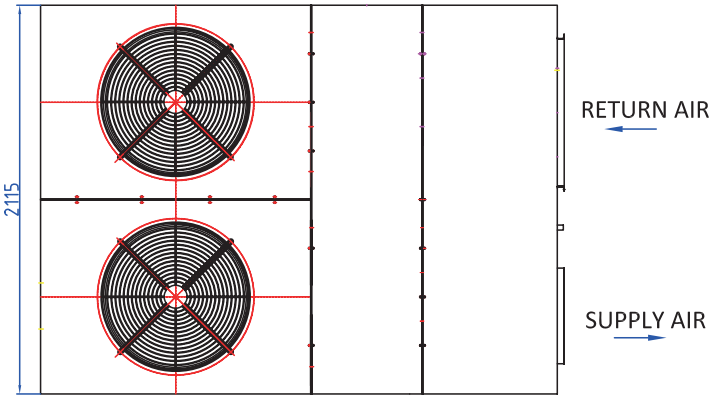




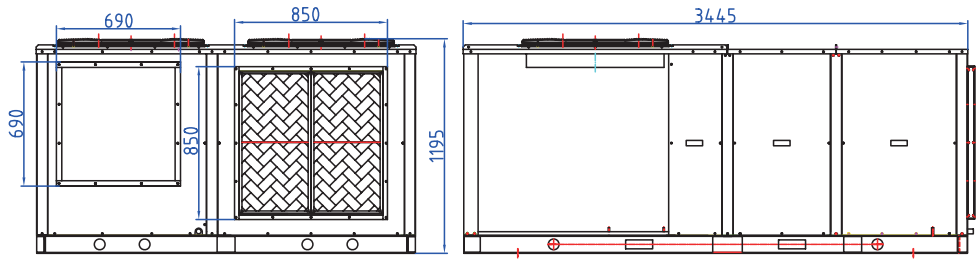
Dimension

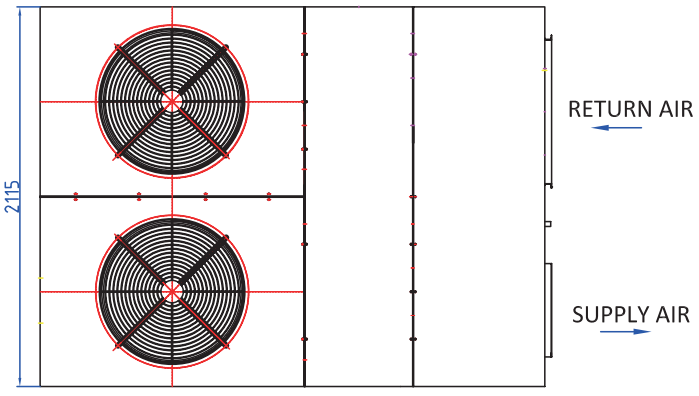
VRPA(N)250





VRPA(N)300 & VRPA(N) 360

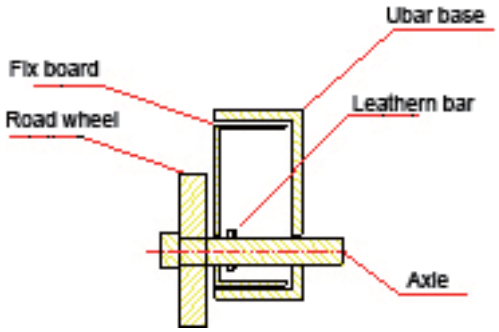




Installation

Notice

1) Aptitude
The equipment installation must be completed by professionals. Installation by non-professional staff may lead to improper operation, even failure.
2) Acceptance
Check the unit carefully when receiving the units to see if any failure occurs in the process of transportation. Check the amount of equipments and accessories. Contact the relevant staff if any problem occurs.
3) Move
Take necessary protection to the unit when moving the units. It is not allowed to make forcible operation to damage the units.
4) Method of dismantle the road wheel
a) dismantle the leathern bar
b) take out the road wheel

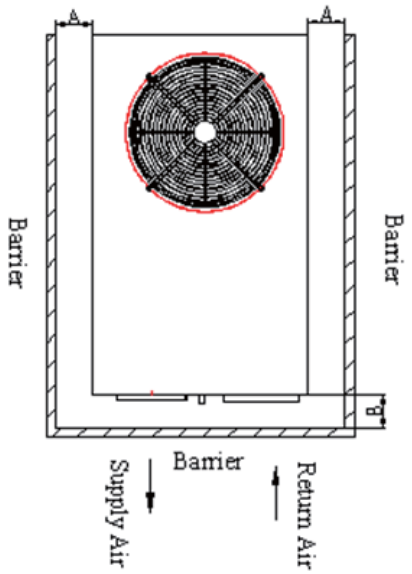


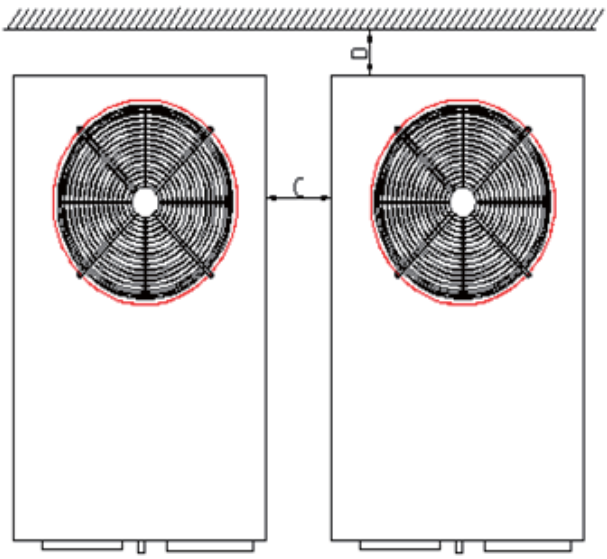
Unit installation

1) The installation location should make the hot air through condenser not to be absorbed back to the unit or absorb hot air which comes from another unit. Besides, enough space should be kept for unit maintenance.
2) Barrier should not exist to block the air discharge and air suction in the passage of air discharge and air suction of the units.
3) There should be good ventilation at the location of unit installation so as to take away the heat air blown from the unit and bring in the air at a lower temperature.
4) The unit should be installed on a base which is firm and flat, 50-100mm higher than the plane. Enough strength should be kept to support the weight of the unit and the vibration when running.
5) The unit should be installed horizontally to decrease the vibration, lower the noise and make the condensing water discharge smooth. The condensing water discharge vent of the unit must have water seal whose height should be more than 50mm.
6) Keep the installation away from the dirty or oily place so as not to block the heat exchanger.
7) Following space is suggested during installation.

Model	036	048	060	072	096	125	168	250	300	360
A	500	500	500	1200	1200	1600	1600	2000	2500	2500
B	500	500	500	500	500	500	500	800	1200	1200
C	500	500	500	2000	2000	2000	2000	2000	2500	2500
D	300	300	300	1200	1200	1600	1600	2000	2500	2500

Installation

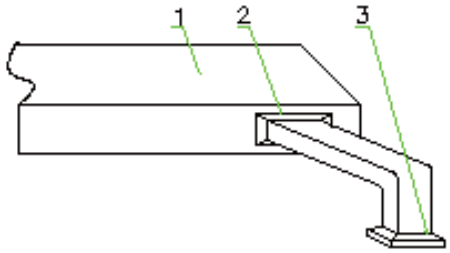




Duct installation

1) Usually two air supply ducts: Rectangle air duct and circular one.
2) Rectangle air duct can connect the air supply inlet of the indoor unit by flexible connection.
3) For circular duct, add a transition duct to the air inlet of indoor unit, and be connected separately to air diffuser, (referring to the drawing),the air inlet velocity of air diffuser should be the same to meet the requirement.
4) Suggest using silencer box in the air supply duct of the heavy airflow unit for lower noise.

Model	Name
1	Main pipe
2	Branch pipe
3	Air supply pipe



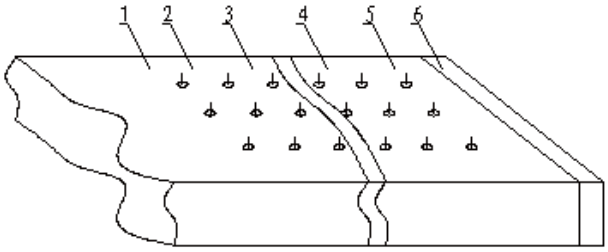
5) If adopting fresh air, the fresh air entrance is better to choose the place where the air is clean and there is no pollution. As for the outdoor air entrance, rain-proof shutter and filter should be installed and at the fresh air section, air flow adjuster should be installed. It is suitable when the fresh air quantity makes up 10% of the total air quantity.

Air duct heat preservation

Air supply and air return pipes should both have heat preservation. First of all, stick the nail on the air duct and then attach the cotton preservation with tin foil paper. Fasten it with nails and seal the connection with tin foil adhesive tape.

Installation

Model	Name
1	Galvanized plate
2	nail
3	Cotton preservation
4	Tin foil
5	Nail cover
6	Adhesive tape



Remarks:
1. Every air supply pipe and return air pipe should have iron bracket fastened on the floor prefabricated board. The air duct connector should be sealed tight by adhesive tape.
2. It is recommended that the air return margin should keep the wall 150mm far.

Electrical installation

Notice:
1) The power supply capacity must meet the a/c requirement. The voltage at the side of the power supply incoming line inside the a/c unit should remain within +10% rating and the power supply frequency is within 2%.
2) Cut the power supply at electric wire connection. Forbidden to operate with electricity.
3) To protect the staff and avoid the danger of electric shock caused by leakage, the unit body should have good and reliable grounding protection setting to prevent the electric shock accident. It also needs check the grounding line very often to guarantee a good grounding(grounding resistance should not exceed 4 ohm)
4) The layout of power supply routing must conform to the national standard and the unit body must have good grounding to avoid the danger caused by insulation failure. The indoor suspending routing adopts electric specialized PVC conduit tube and PVC connection wire box with cover (not use recycling material connection wire box) Wiring conduit should flat and erect and be fixed. Threading pipe should not use right angle elbow plumbing, but use proper siphon spring bend. The radius of the syphon should be more than four times as long as the diameter of the conduit. Drape should not occur after bending the threading pipe. Lay the connection box properly so as to easy maintenance and wire changeover.
5) The communication wire (Temp. Probe connection wire) and the power supply source should be laid separately to prevent interruption.

Installation

Maintenance

1) The on-off of the unit per hour should not exceed four times, otherwise the service life of the unit will decrease.
2) The surroundings of the units should keep clean and tidy. Clean the leaves and rubbish absorbed by the fin on time.
3) Clean the air return filter once three months to guarantee the quality of the air.
4) Check if the condensing water pipe is smooth regularly. Make sure the drainage is clear.
5) Not allowed to reset the unit by force without any reason of the trouble if something is wrong with the unit. Contact the agent or the technician.
6) All diameters have been setup at the ex-work of the units. If the customer needs to adjust the diameter, please contact the agent and the technician. It is not allowed to adjust the diameter automatically.

The Same Breath,
Energy Saving Together.

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