



PAC Hybrid PLUS

Inverter Multi VRF Air Conditioner + Water Heater

www.pac.co.th/hybridplus



01

PAC HYBRID+

PAC Hybrid PLUS

The Final Solution
of Air Conditioner and Hot Water for Your Home

- ◆ DC inverter technology
- ◆ VRF Flexible Air-conditioning
- ◆ High Efficient and Even Free of Charge
- ◆ Hot Water Supply

All functions are integrated in only one

Indoor:
Indoor units of various designs are available to suit your indoor furnishings.



Hydro-Box:
The hydro-box transfers the absorbed heat from the outdoor unit to the hot water system. It can be located anywhere in the house and connected to the outdoor unit via refrigeration pipe work.



Outdoor Unit:
PAC Hybrid+ unit has cooling, heating and hot water supply, which can always provide hot water in 24hrs a day.

Hot Water Converter:
Making hot water through utilizing waste heat generated in operation of air conditioner and abundant heat source in the air, its ECOP is up to 7.0. Heat recovery can be realized in cooling and water heating mode, which is equivalent to free water heating.



Water Tank:
The tank produces domestic hot water for sanitary use.



Floor heating:
Warming up the room by floor heating makes you feel spring in winter.

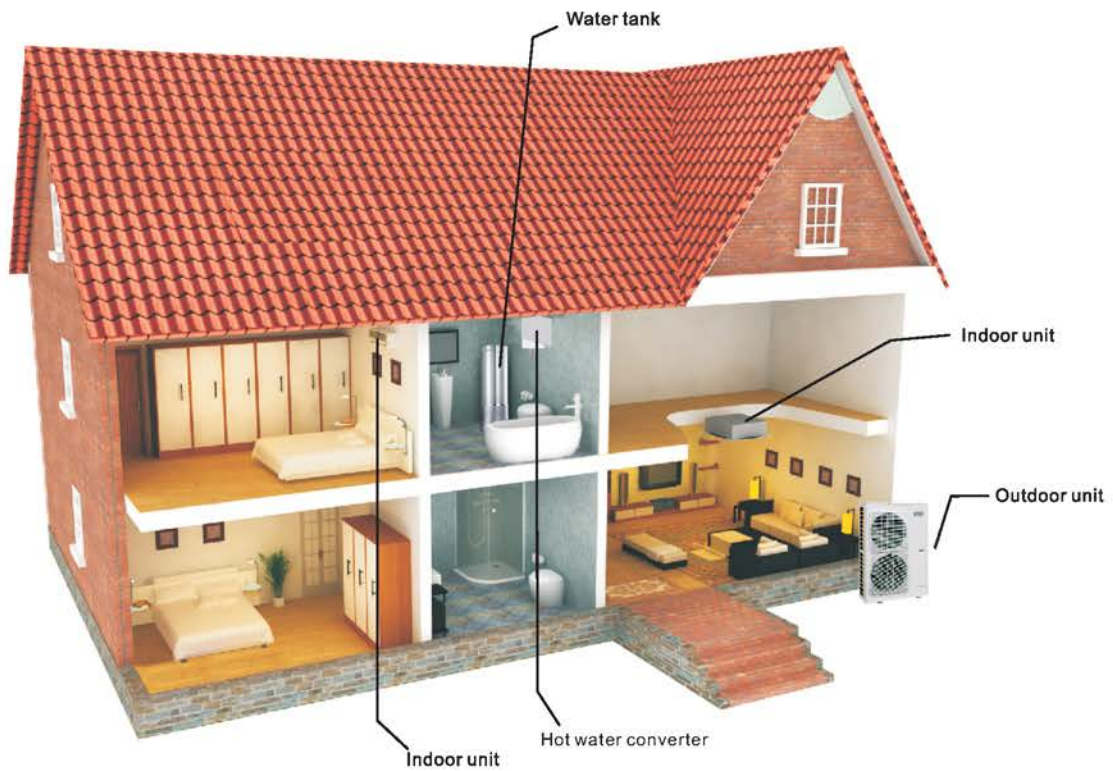
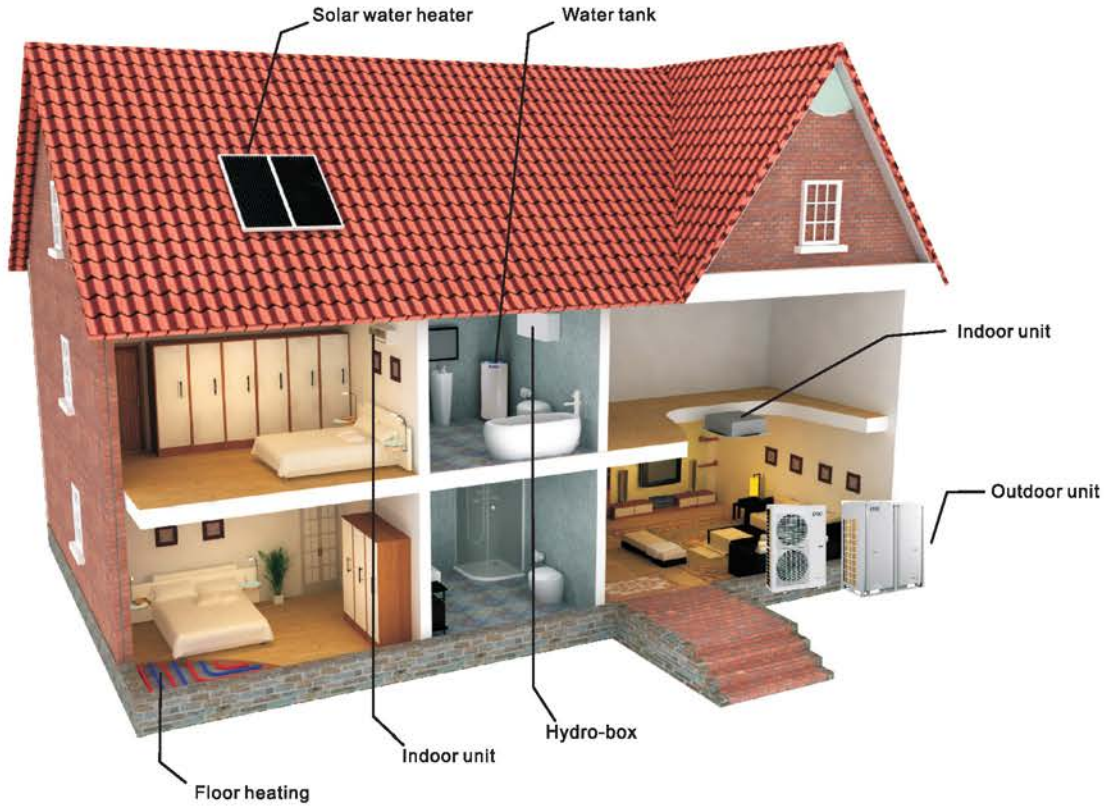


Solar water heater:
Meet the requirements for sanitary hot water through solar energy.

DC Inverter Multi Air Conditioner

Air Source Heat Pump Water Heater

PAC Hybrid Plus



Superior Performance

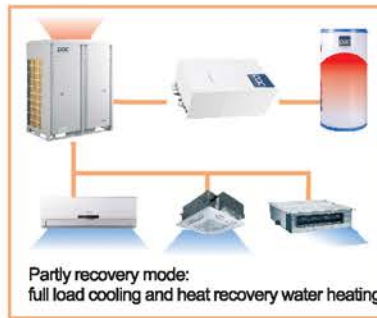
Five Basic Modes

Unique five-mode operation is a breakthrough in traditional heat recovery technology where heating and water-heating cannot be achieved at the same time.

1

Cooling + Water Heating

When the system is operating with both Indoor Air Cooling Mode and Water Heating Mode, it can recover the wasted condensing heat to generate hot water which is free of charge, and lowers the heat pollution to atmosphere as well.



2

Heating + Water Heating

The outdoor unit can absorb the heat from outdoor ambient air and operate with Indoor Air Heating Mode and Water Heating Mode at the same time.



3

Cooling Only



4

Heating Only



5

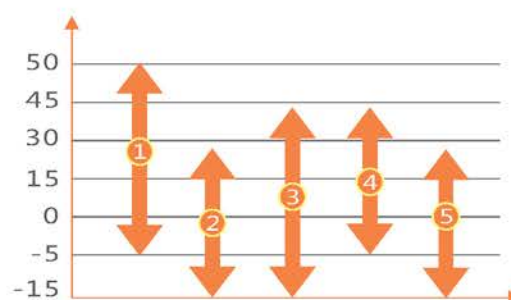
Water Heating Only



Wide Range of Operation Condition

Outdoor operation temperature range is improved to $-5^{\circ}\text{C}\sim 50^{\circ}\text{C}$ in cooling and $-15^{\circ}\text{C}\sim 24^{\circ}\text{C}$ in heating.

	Mode	Outdoor Condition(DB $^{\circ}\text{C}$)
1	Cooling	$-5\sim 50$
2	Heating	$-15\sim 24$
3	Water heating	$-15\sim 43$
4	Cooling and water heating	$-5\sim 43$
5	Heating and water heating	$-15\sim 24$



Auto Heat Recovery in Cooling

When the indoor units are set in cooling mode, the heat which should be discharged into the environment is transferred to hot water. While you are enjoying the coolness brought by the air conditioner in summer, you can also enjoy free hot water. Meanwhile, the condensation effect of water tank is better than air-cooled outdoor unit. System high pressure is reduced and energy consumption is reduced by 10%.



When the indoor units are in cooling mode, the system will recover residual heat automatically for heating water.

Note: this function is defaulted on when ex-factory.

High Efficiency and More Energy-saving

3 Super Function

- Air Source Heat Pump Technology

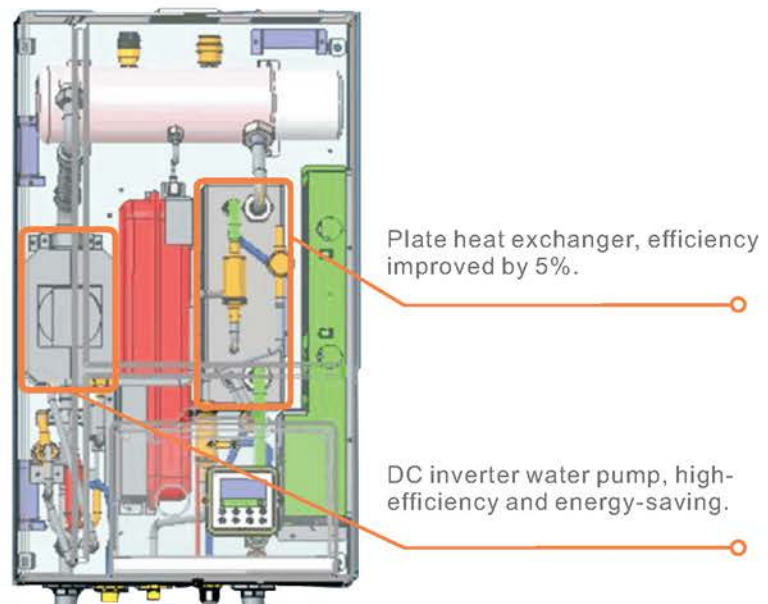


Heat Pumps take thermal energy from the outside air. In order to take energy from the air the heat pump needs a bit of energy to start with: PAC Hybrid+ requires only 1 kW of electricity to pump over 4 kW of heat into your home. In other words, extracting heat from air sources requires just 1kW of electrical input in order to generate over 4kW of heating output, more than 80% of the heat produced by PAC Hybrid+ comes from the outside air and is free of charge.

- Heat Recovery Technology



Thanks to the perfect technology of Heat Recovery, during cooling operation, the condensing heat is recovered and reused to generate hot water for domestic use, which is free of charge.

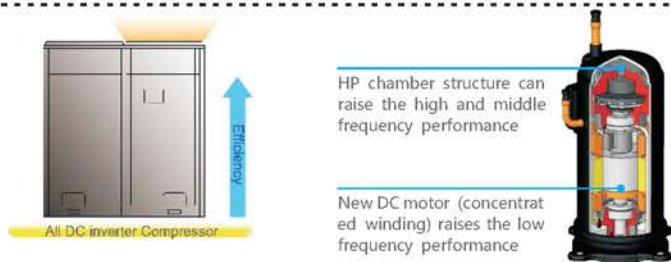


• All DC Inverter Technology

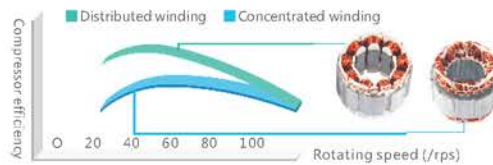
All DC inverter compressor and high-performance high pressure chamber are adopted to reduce loss of overheat and improve compression efficiency from direct intake. Compared with low pressure chamber, the compression efficiency is improved. High-efficient permasyon motor is adopted to provide better performance than traditional DC inverter compressor.

All DC Inverter Compressor

All DC inverter compressor is used in this system. It can directly intake gas to reduce loss of overheat and improve efficiency.



High-efficient permasyon motor is adopted to provide better performance than traditional DC inverter compressor.



New Generation of Energy-saving Operation Control Technology with Energy Saving Up to 20%

The PAC Hybrid+ system has 2 modes for energy saving, which can be chosen to meet different electricity demands.

Mode 1:

In auto energy-saving mode, the system will self-adjust parameters according to the operation status, thus to lower the cost of electricity. Up to 15% of energy can be saved.

Mode 2:

In compulsory energy-saving mode, the system will limit power output forcibly. Up to 20% of energy can be saved.

*Note: This function is for the outdoor unit of 22.4kW and 28kW only.



Sunflower Function

Sunflower function is adopted. Water will be heated when outdoor ambient temperature is the highest for saving energy.



Superior Comfortability

3D Heat Supply Technology

"Heating + floor heating" mode

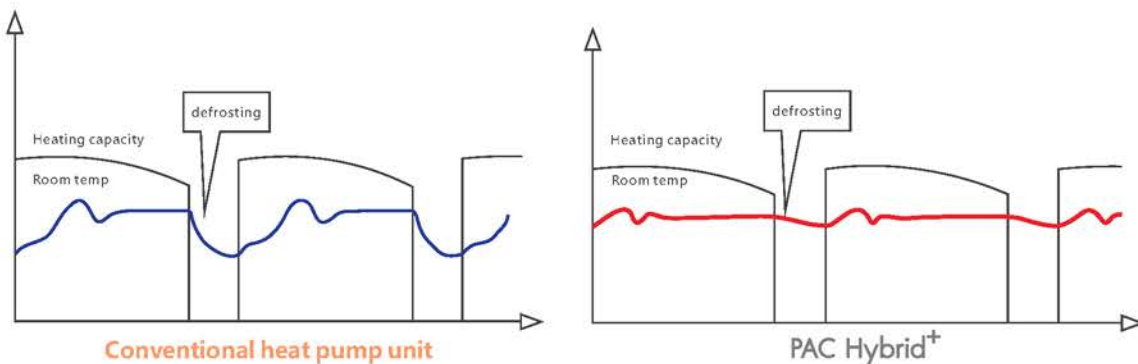
"Air conditioner+floor heating" in the same room can be turned on simultaneous.

*Note: This function is available when these two modes are turned on in just a few rooms.



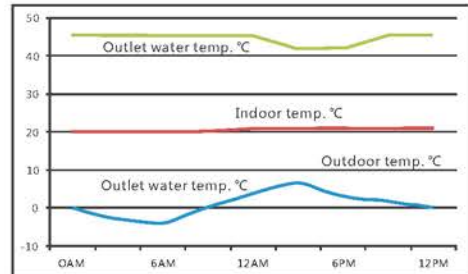
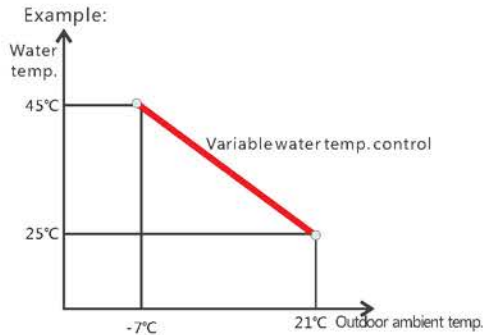
Intelligent Water Tank Defrosting Technology

During defrosting of conventional unit, indoor unit will switch to low pressure side (indoor heat getting) and room temperature will decrease by 4~6°C after finishing defrosting; PAC Hybrid+ adopts creative intelligent water tank defrosting technology. When the heat in external coil water tank is sufficient for defrosting, heat will be got from external coil water tank automatically during defrosting. Indoor temperature fluctuation is within 2°C with no flow noise of indoor unit, which greatly improves heating comfort.



Auto Control Technology of Water Temperature

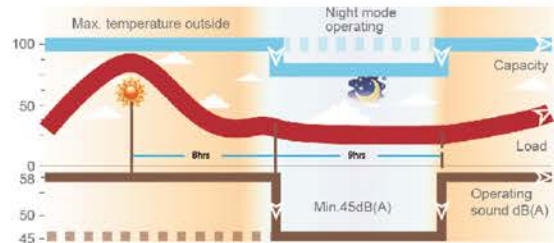
The auto control technology of water temperature can realize auto adjustment of floor heating water supply temperature, maintain stable indoor temperature, prevent over-cooling or over-heating and ensure the comfort of user.



Auto Water Temperature Control Technology

Night Quiet Mode

The system can memorize and judge the highest outdoor temperature. When the system enters low load operation at night, the system will enter quiet mode operation automatically. According to the requirements of actual application, the system can be set in nine quiet modes. For example, the unit will enter night operation mode automatically after operating for 8 hours and resume normal operation mode after 9 hours.



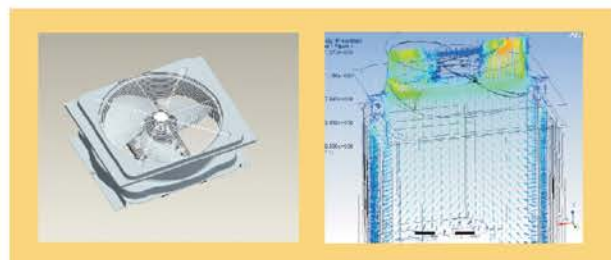
Forced Quiet Mode

In some applications with high requirement on noise (such as villas, resorts), you can set the unit in forced quiet mode to ensure the unit operate in low noise mode in anytime. Forced quiet mode has three options, in which noise is as low as 45dB(A).



Quiet Control-Optimized Bossing Design

After many times of CFD tests, a new fan bossing structure has been developed to reduce vibration of fan during running. Noise can be reduced by 3~5dB(A).



Easy Installation and Operation

Non-polar CAN Technology to Improve Communication Efficiency

PAC is the first one to adopt non-polar CAN communication technology in the industry. CAN communication technology provides quicker system response speed, more convenient installation debugging and more reliable communication data.

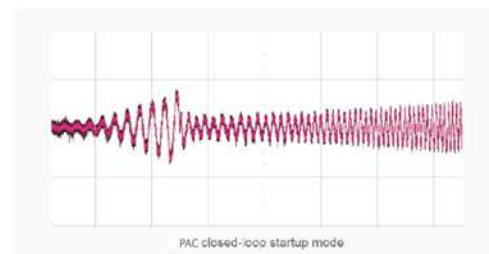
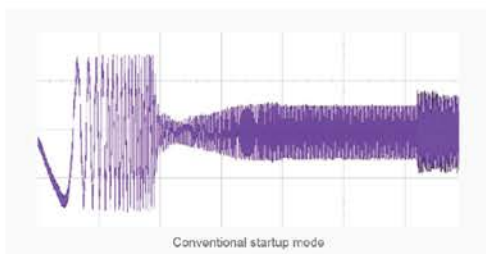
Performance Index	Company A Multi-VRF Network	PAC Hybrid+ DC Inverter CAN Network
Reliability	Software check	Hardware check, more reliable
	One unit's communication error may lead to a breakdown of the whole network	If one unit has errors, it will exit from the network without any influence to other units.
Communication Efficiency	Low utilization	High utilization
	Communication speed is about 10Kbps.	Communication speed is 20Kbps.
Compatibility	One main network, difficult to add new equipment	Multiple main networks, easy to add new equipment.
Communication Distance	1000m	1500m

The non-polar CAN communication technology is applied to support flexible wiring installation, greatly reducing construction difficulties.



Compressor Closed-loop Startup Technology with More Reliable Startup

The self-innovative closed-loop startup control technology is adopted. Thanks to this technology, the startup current is small and startup is more reliable.



High Anti-interference Ability

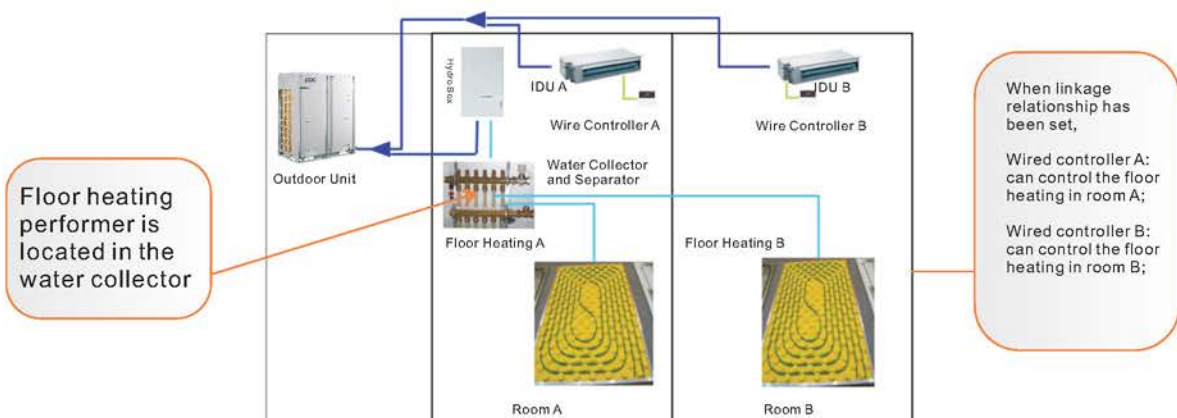
The latest CAN bus communication technology is adopted, with non-polar communication and high anti-interference ability. Common communication wire can meet the communication demand with no need of specialized shielded wire. The customers can buy the communication wire by themselves, greatly reducing installation difficulties.



Independent Control Technology

IDU wired controller can be linked with floor heating performer:

1. IDU wired controller can independently control the startup and stoppage of floor heating in corresponding room;
2. The unit can detect indoor ambient temperature directly to control the startup and stoppage of floor heating in corresponding room. Compared with previous water heater, it is more energy-saving and capable of providing more comfort.



Easy Installation and Operation

Intelligent Floor Heating Control Technology

The hydro box is equipped with the interface for floor heating performer (single phase 220V~), which can be connected with floor heating performer; the wired controller of IDU can control the floor heating performers in the room and the user doesn't need to buy floor heating temperature controller.

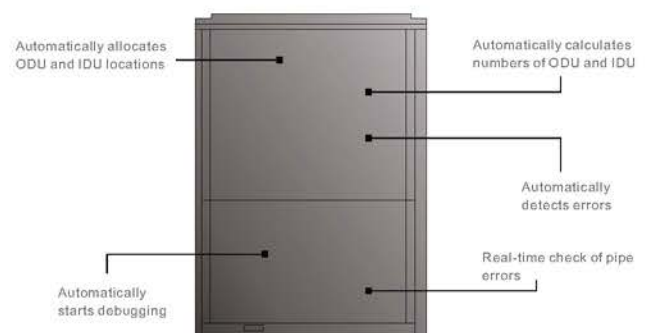


*Note: one hydro box can provide 6 interfaces for floor heating performers in maximum

Intelligent Debugging for Convenient Construction

PAC Hybrid⁺ Home has five auto debugging features:

1. Auto location of IDU and ODU addresses;
2. Auto detection of IDU and ODU quantity;
3. Auto detection of errors;
4. Auto startup of debugging;
5. Real-time judgment of pipe errors.



Auto Addressing of Outdoor and Indoor Unit

CAN network is adopted to achieve auto addressing of outdoor and indoor unit. It can allocate IDU and ODU addresses and detect IDU and ODU quantity, which greatly improves construction efficiency.



PAC Hybrid PLUS

Hybrid+ is a new generation of multi VRF system developed by PAC, integrating "central air conditioning + hot water + floor heating."

Outdoor Unit



Water Tank



Hydro Box



Hot water converter



Golden fin condenser



Inner groove copper



Compact design



High efficiency



Wide voltage range



Easier maintainability

Item	Nominal operating condition(temperature)					
	Outdoor condition		Indoor condition		Water	
	DB(°C)	WB(°C)	DB(°C)	WB(°C)	Start(°C)	End(°C)
Cooling	35	24	27	19	/	/
Heating	7	6	20	15	/	/
Hot water	20	15	/	/	15	52

Operation range	Mode	Outdoor Condition(DB°C)
	Cooling	-5~50
Heating	-15~24	
Water heating	-15~43	
Cooling and water heating	-5~43	
Heating and water heating	-15~24	

Outdoor Unit

Model		PHD-040V	PHD-048V	PHD-055V	PHD-076VT	PHD-096VT
Capacity	BTU	40,944	47,768	54,592	76,429	95,536
	Cooling kW	12.1	14	16	22.40	28.00
	Heating kW	14	16.5	18.5	25.00	31.50
ECOP	kW/kW	/	/	/	7.00	7.00
Power supply	V/Ph/Hz	220-240V~1Ph~50/60Hz	220-240V~1Ph~50/60Hz	220-240V~1Ph~50/60Hz	380~415V 3Ph 50/60Hz	380~415V 3Ph 50/60Hz
Refrigerant Charge volume	kg	5	5	5	10.50	11.00
Rated power input	Cooling kW	3.05	3.98	4.85	5.35	7.70
	Heating kW	3.3	4.1	4.67	5.80	7.60
	Water Heating kW	3.3	3.8	4.2	5.00	5.20
Airflow volume	m³/h	6000	6300	6600	14000.00	14000.00
	CFM	3531	3708	3884	8239.00	8239.00
Sound pressure level	dB(A)	55	56	58	57	58
Connecting pipe diameter	Gas(AC) mm	Φ15.9	Φ15.9	Φ19.05	Φ19.05	Φ22.2
	Liquid(AC) mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas(water) mm	Φ12.7	Φ12.7	Φ12.7	Φ15.9	Φ15.9
	Liquid(water) mm	Φ9.52	Φ9.52	Φ9.52	/	/
Dimension (W*D*H)	Outline mm	900*340*1345	900*340*1345	900*340*1345	340*765*1605	1340*765*1605
	Package mm	998*458*1515	998*458*1515	998*458*1515	1420*840*1775	1420*840*1775
Net weight/Gross weight	kg	113/123	113/123	113/123	295.00	295.00
Loading quantity	40' GP set	57	57	57	16.00	16.00
	40' HQ set	57	57	57	16.00	16.00

Water Tank

Model			PSE-300L	PSE-400L	PSE-500L
Tank Volume		L	300	400	500
Max.Working pressure		Bar	6		
Inner tank material	Type	Enamel coated steel DIN4753			
Outer tank material	Type	Steel With Powder Coating			
Dimension	Outline diameter	mm	620	710	710
	Outline height	mm	1520	1575	1925
Net weight		kg	100	117	138
Outer diameter	Cold Water pipe	inch	1	1	1
	Hot Water pipe	inch	1	1	1

Heatex Box

Model			PXH-10V(C/T)*	PXH-16V*	PXH-20V(C/T)*	PXH-30V(C/T)*
Heating Capacity		kW	10	3.6-16	20	30
Dimension		mm	650x300x250	500x919x328	1050x460x760	1050x470x910
Power supply		Ph/V/Hz	220/1/50			
Connecting to ODU	Gas	inch	5/8"			
Pipe diameter	High-pressure gas		1/2"			
	liquid		3/8"			
Heat exchanger	Type		Tube in tube	Plate	Tube in tube	Tube in tube
Connection to water Tank		inch	1	1	1	1
Water pump	Type		Fixed speed	Dc inverter	Fixed speed	Fixed speed
	Power input	Kw	80	0.08-0.14	370	370
	Water Flow	m ³ /h	1	1.7	2.6	2.6
	Delivery lift	m	6	6	15	15
Net Weight		kg	25	59	75	110

*Remarks :

- VC = Copper Nickle Heat Exchanger
- VT = Titanium Heat Exchanger
- V = Plate Heat Exchanger

Indoor Units Lineup

Specifications of Indoor Units

Type of indoor unit	Specification	22	25	28	32	36	40	45	50	56	63	71	72	80	90	100	112	125	140	160	224	280	450
High Static Pressure Duct Type Unit										●	●	●		●	●	●	●	●	●	●	●	●	
Low Static Pressure Duct Type Unit		●	●	●	●	●	●	●	●	●	●	●		●	●	●	●	●	●				
Slim Ducted Type Indoor Unit		●	●	●	●	●	●	●	●	●	●		●										
4-way Cassette Unit				●		●		●	●	●	●	●		●	●	●	●	●	●	●			
Compact 4-way Cassette Indoor Unit		●		●		●		●	●	●													
2-way Cassette Indoor Unit				●		●		●	●	●	●	●											
1-way Cassette Unit		●		●		●		●	●														
Wall-mounted Type Unit		●		●		●		●	●	●	●	●											
Floor Ceiling Type Indoor Unit				●		●			●		●	●			●		●	●	●				
Console Indoor Unit		●		●		●		●	●														
Floor Standing Type Indoor Unit																●				●			
Air handler														●		●	●	●		●			

Key Features of Indoor Units

High Static Pressure Duct Type Indoor Unit



- **High static pressure design**
Static pressure can be up to 150Pa, especially suitable for places in need of long distance airflow.
- **Easy maintenance**
The system has maintenance port for easy maintenance.
- **Convenient installation**
You can choose circular air duct or rectangular air duct according to actual needs. Or you can choose different ways of air return.
- **Protection function**
Anti-freezing protection, fan motor overload protection, temperature sensor malfunction protection.

Key Features of Indoor Units

Low Static Pressure Duct Type Indoor Unit



- **Low static pressure, low noise**

Especially suitable for rooms of compact structure or small installation space. Also, it provides you with a comfortable and quiet living environment.

- **Intelligent drainage device**

Water height difference up to 1.0m, which can effectively drain out condensing water and save space.

Note: Please specify if you need this function.

- **Convenient installation**

Tab type plastic filter, detachable fan motor, independent water pump assembly and electric box assembly, all for convenient maintenance.

- **Protection function**

Water overflow protection, anti-freezing protection, fan motor overload protection, temperature sensor malfunction protection.

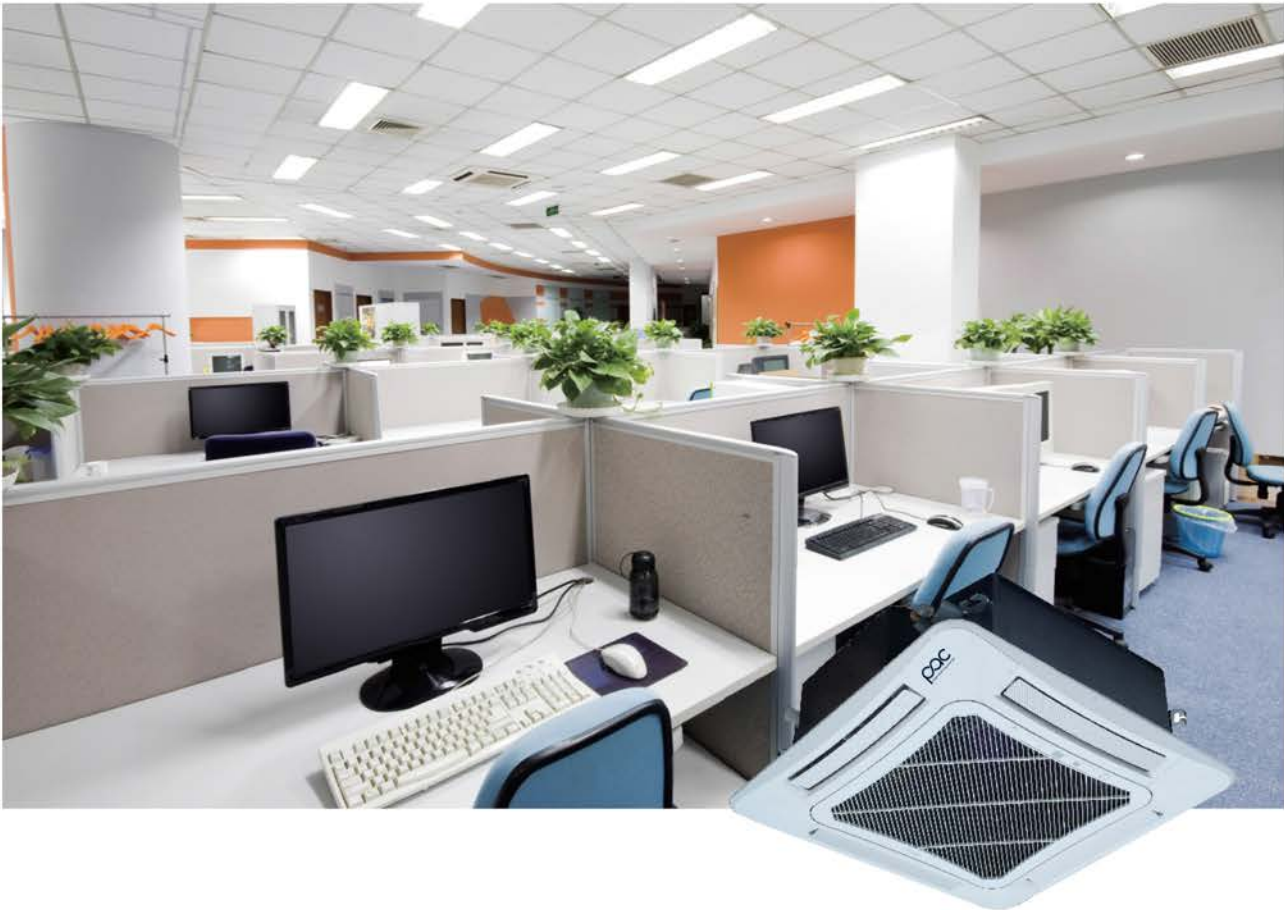
Slim Ducted Type Indoor Unit



- Highly Efficient & Energy-saving**
 High-efficiency DC brushless motor is used. Its efficiency is improved by over 30% compared with common motor. Evaporator flow path adopts simulating optimized design via the refrigeration system simulation software, which has greatly increased the heat exchange capacity of evaporator.
- Slim & Small**
 The unit is only 200mm's thick and 450mm's deep. Suspended ceiling doesn't have to be very high. It is suitable for ordinary rooms.
- Wiring of Electric Control Box**
 Mounting board of electric control box elements are arranged at both sides of the mounting board of fan motor. There is a wire-cross notch on each side so that wiring at both sides of the mounting board of fan motor is convenient and efficient. Strong and weak current are also separated to ensure the effectiveness of weak current signal transmission.
- Protection Functions**
 Anti-freezing protection, fan motor built-in overload protection, temperature sensor error protection
- Ultra-quiet**
 High-efficiency centrifugal fan and ultralow noise volute are developed with ANSYS and Fluent. They have also gained national patents. Meanwhile, inlet mute valve is adopted so that noise of the complete unit is greatly reduced.
- Fast & Strong**
 Intelligent temperature control technology is adopted. Cooling/ Heating function is fast and strong so that room temperature can quickly reach set temperature.
- Flexible Installation**
 Based on the requirements of building and utilization, different ways of air return and different air supply static pressure can be selected.
- CAN Bus Communication Technology**
 System response speed is faster and communication is more reliable. Auto addressing, non-polar communication, free wire matching
- Convenient Operation & Maintenance**
 Electric control box is attached independently so that it can be detached as a whole, which is convenient for maintenance. The installation and maintenance of fan and motor is also convenient.

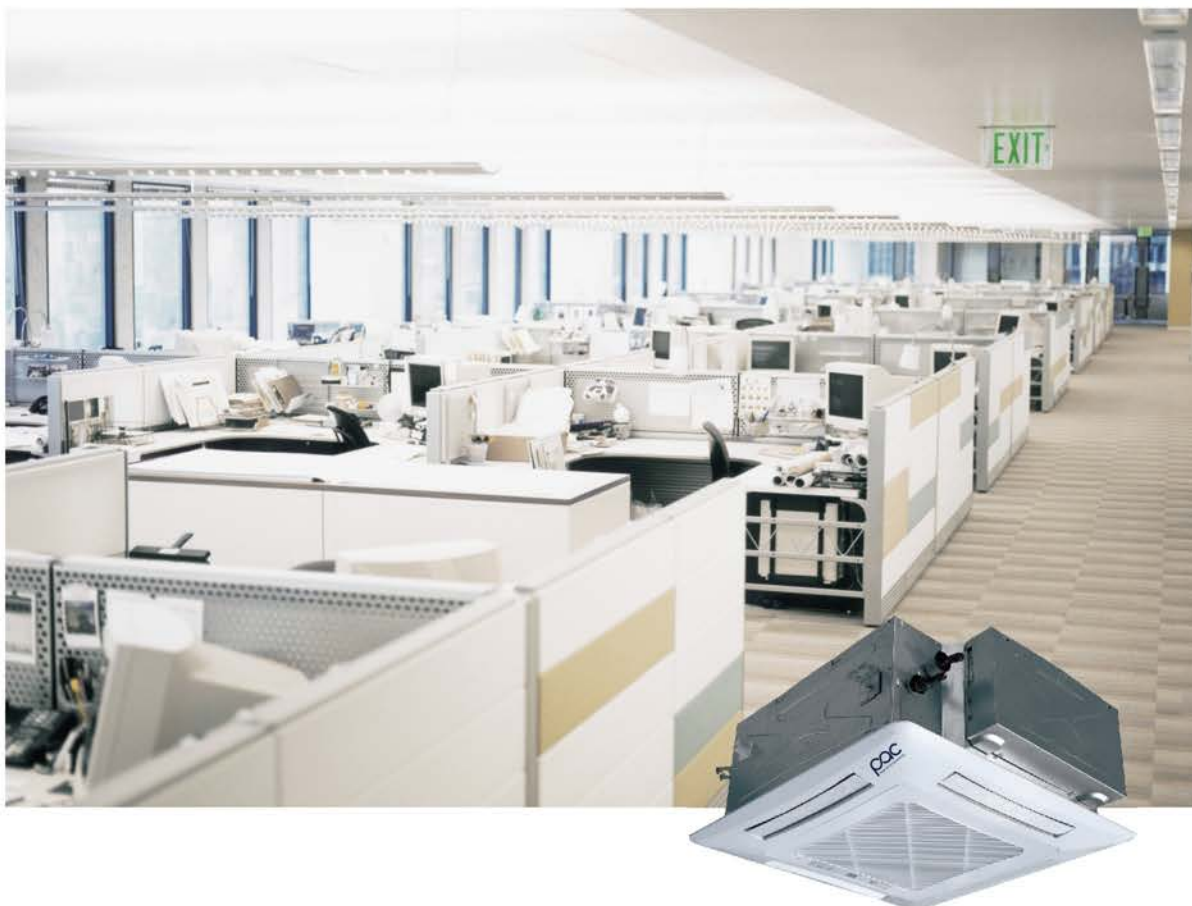
Key Features of Indoor Units

4-way Cassette Indoor Unit



- **Strong and balanced airflow**
Unit features auto operation, 4-way airflow, 7 fan speeds and strong circulating airflow.
- **Ultra-low noise operation**
DC inverter motor can realize stepless speed regulation to lower noise. Indoor unit can be set to work under auto quiet mode via wired controller.
- **Intelligent drainage device**
Water height difference up to 1.0m, which can effectively drain out condensing water and save space.
- **DC inverter motor**
With good speed regulation performance, motor efficiency improved by 30% vs. normal motor.
- **Protection function**
Water overflow protection, anti-freezing protection, temperature sensor malfunction protection, fan motor overload protection

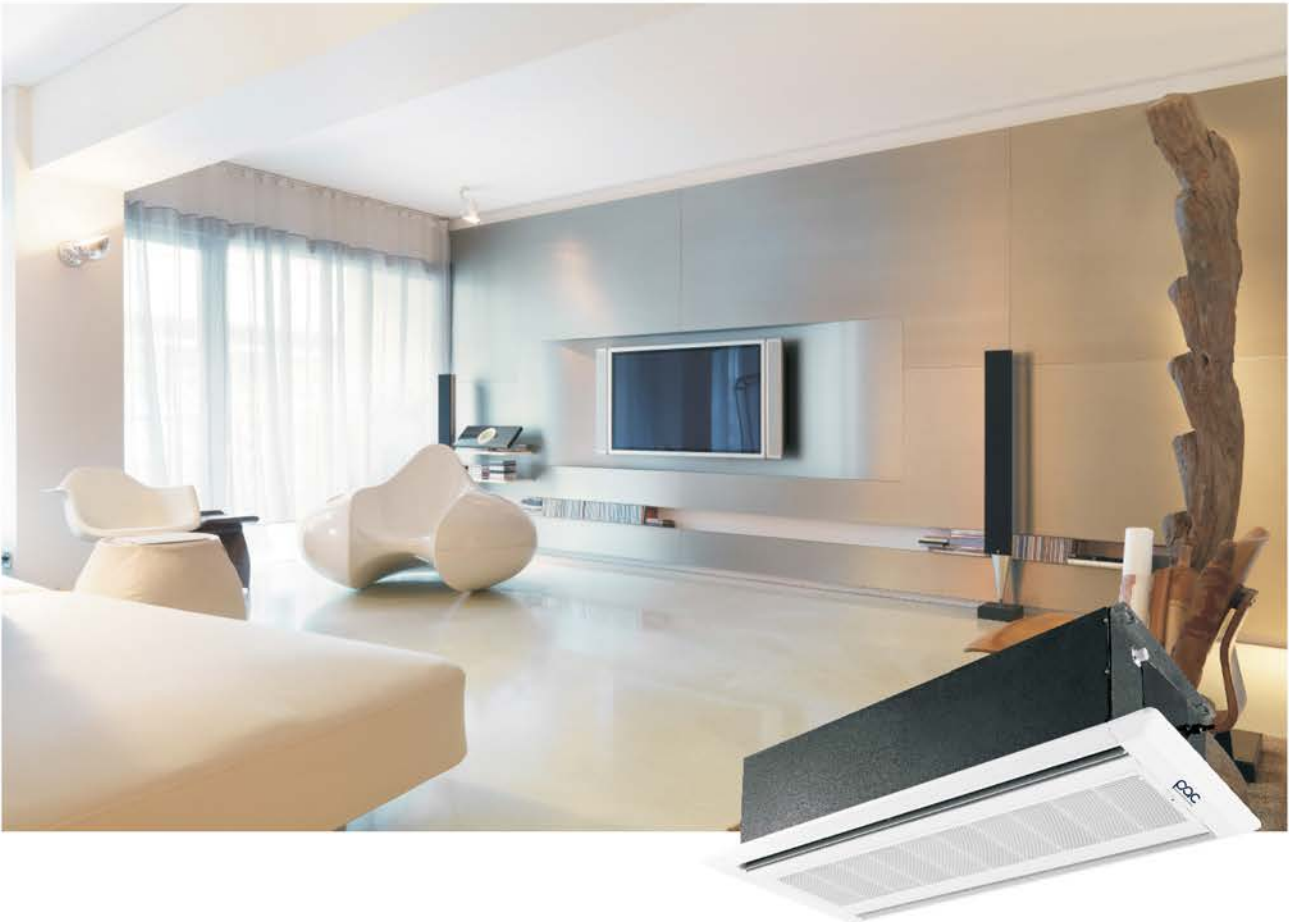
Compact 4-way Cassette Indoor Unit



- **Compact Design for Easy Installation**
Units maintain the uniform length and width with consistent ceiling opening and panel dimension, convenient for design and installation;
- **Ultra-low noise operation**
DC inverter motor can realize stepless speed regulation to lower noise. Indoor unit can be set to work under auto quiet mode via wired controller.
- **Intelligent drainage device**
Water height difference up to 1.0m, which can effectively drain out condensing water and save space.

Key Features of Indoor Units

2-way Cassette Indoor Unit



- **Beautiful Appearance**
With beautiful and elegant front panel, it is congenial to the indoor surroundings.
- **Intelligent drainage device**
Waterheight difference up to 1.0m, which can effectively drain out condensing water and save space.
- **Two-way air flow design**
Two-way air outlet, to stretch air outlet distance and solve air supply problem of elongated room
- **Multiple protections**
Anti-freezing protection, temperature malfunction protection, fan motor overload and humidity sensor protection.

1-way Cassette Indoor Unit



- **Small installation space**
With 185mm ultrathin design, unit can be installed in the ceiling of 19cm deep.
- **High drain pump lift**
Drain pump lift reaches 1.0m, which can effectively drain out water.
- **Detachable grille and long life filter**
Grille is detachable for easy cleaning. With durable filter, cleaning cycle is 20 times longer.
- **Protection function**
Water overflow protection, anti-freezing protection, fan motor overload protection, temperature sensor malfunction protection

Key Features of Indoor Units

Wall-mounted Indoor Unit



- **Comfortable and balanced airflow, up&down air outlet**

Upairoutlet: In cooling, cool air blows out horizontally and then gradually drops.
Down airswing: In heating, warm air blows downward and then gradually climbs up.

- **Triple defenders for better purification**

Mildew-proof filter, electrostatic fibre and anti-biotic fibre adopted to remove dust, smell, bacteria and mildew.

- **Cold air prevention design**

During heating in winter, cold air prevention function is enabled so that air won't be blown out until it's warm.

- **Multiple protections**

Anti-freezing protection, temperature sensor malfunction protection, fan motor overload protection.

Floor Ceiling Type Indoor Unit



- Hoisted or seated, flexible installation**
 Unit can be hoisted or seated. When seated, suspended ceiling is not needed.
- Beautiful appearance**
 With beautiful and elegant front panel, it is congenial to the indoor surroundings.
- Protection function**
 Anti-freezing protection, temperature sensor malfunction protection, fan motor overload protection.
- Horizontal and vertical air swing**
 Wider air swing range for your comfortable working and living environment.

Key Features of Indoor Units

Console Indoor Unit



- **Multiple fan speed**
The fan can operate in multiple speed and satisfy different air flow volume requirements.
- **Detachable grille and long life filter**
Grille is detachable for easy cleaning. With long life filter, cleaning cycle is 20 times longer.
- **High drain pump lift**
Drain pump lift reaches 1.0m, which can effectively drain out water.
- **Protection function**
Water overflow protection, anti-freezing protection, fan motor overload protection, temperature sensor malfunction protection, auxiliary electric heating overheat protection (This function is not included in pure heat pump unit).

Floor Standing Indoor Unit



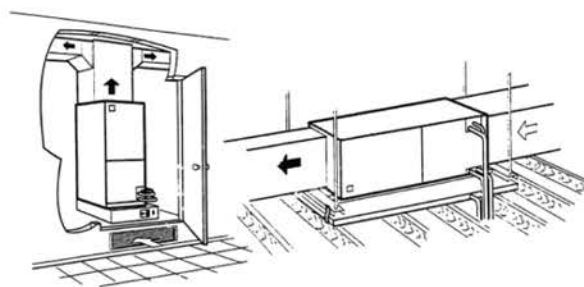
- **Wide Application**

It can be widely adopted in hotels, restaurants, office, etc.

- **Auto clean to ensure a healthy life**

After turning off the unit, the indoor fan will keep running in low speed for a moment to dry the inner components and parts, in order to prevent mildew and keep user healthy.

Air Handler



- **Highly Flexible Installation**

The unit is designed for outdoor installation and less indoor space taking, allowing easy installation and maintenance. The unit can be installed on the ground or on the roof of the building, which means the installation is totally flexible depending on the project requirement.

- **Cold Air Prevention Design**

When heating in winter, cold air prevention function is enabled so that air won't be blown out until it's warm.

- **Long life and Washable Filter**

The filter is easy to be dismantled and installed. You can use dust collector or water to clear away the dust.

PAC Hybrid PLUS

High Static Pressure Duct Type Indoor Unit

Model			PHUD-19VH	PHUD-21VH	PHUD-24VH	PHUD-27VH	PHUD-30VH	
Capacity	Cooling	BTU/kW	19107.2/5.6	21495.6/6.3	24225.2/7.1	27296/8.0	30708/9.0	
	Heating	kW	6.3	7.1	8.0	9.0	10.0	
Power supply	V/Ph/Hz		220~240/1/50					
Power consumption	W		120	120	130	130	200	
Airflow volume(H/M/L)	m ³ /h		1000/800/600	1000/800/600	1100/900/700	1100/900/700	1700/1450/1100	
	CFM		590/471/355	590/471/355	650/530/410	650/530/410	1000/853/650	
Rated Current ²	Cooling	A	0.6	0.6	0.6	0.6	1.0	
	Heating	A	0.6	0.6	0.6	0.6	1.0	
	Water Heating	A	/	/	/	/	/	
ESP	Pa		70/0~100					
Sound pressure level(H/M/L)	dB(A)		44/40/36	44/40/36	45/41/37	45/41/37	46//44/42	
Connecting pipe diameter	Liquid	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	
	Gas	mm	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9	
Drain pipe	External dia.	mm	Φ25	Φ25	Φ25	Φ25	Φ25	
	Thickness	mm	2.5	2.5	2.5	2.5	2.5	
Dimension (WxDxH)	Outline	mm	1271x558x268				1229x775x290	
	Package	mm	1348x597x283				1338x877x305	
Net weight/Gross weight	kg		35/40	35/40	35/40	35/40	47/54	
Loading	40' GP	set	192	192	192	192	128	
	40' HQ	set	216	216	216	216	128	

Model			PHUD-34VH	PHUD-38VH	PHUD-42VH	PHUD-48VH	PHUD-54VH	PHUD-76VH	PHUD-96VH
Capacity	Cooling	BTU/kW	34120/10.0	38214.4/11.2	42650/12.5	47768/14.0	54592/16.0	76428.8/22.4	95536/28.0
	Heating	kW	11.2	12.5	14.0	16.0	18.00	25.0	31.0
Power supply	V/Ph/Hz		220~240/1/50					220~240/1/50	220~240/1/50
Power consumption	W		200	200	220	220	560	800	900
Airflow volume(H/M/L)	m ³ /h		1700/1450/1100	1700/1450/1100	2000/1550/1200	2000/1700/1400	3100	4000	4400
	CFM		1000/853/650	1000/853/650	1175/912/706	1175/1000/824	1824	2355	2590
Rated Current ²	Cooling	A	1.0	1.0	1.0	1.0	4	4.1	4.6
	Heating	A	1.0	1.0	1.0	1.0	4	4.1	4.6
	Water Heating	A	/	/	/	/	/	/	/
ESP	Pa		70/0~100				50	150/50~200	150/50~200
Sound pressure level(H/M/L)	dB(A)		46//44/42	46//44/42	48/45/42	48/46/44	55.0	54.0	55.0
Connecting pipe diameter	Liquid	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas	mm	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ19	Φ22.2	Φ22.2
Drain pipe	External dia.	mm	Φ25	Φ25	Φ25	Φ25	Φ30	Φ30	Φ30
	Thickness	mm	2.5	2.5	2.5	2.5	1.5	1.5	1.5
Dimension (WxDxH)	Outline	mm	1229x775x290				1497x799x389	1483x791x385	1686x870x450
	Package	mm	1338x877x305				1578x883x400	1758x883x470	1788x988x580
Net weight/Gross weight	kg		47/54	47/54	47/54	47/54	79/103	82/104	105/140
Loading	40' GP	set	128	128	128	128	75	65	52
	40' HQ	set	128	128	128	128	75	65	52

PAC Hybrid PLUS

Low Static Pressure Duct Type Indoor Unit

Model			PHUD-07VL	PHUD-08VL	PHUD-09VL	PHUD-10VL	PHUD-12VL
Capacity	Cooling	BTU/kW	7506.4/2.2	8530/2.5	9553.6/2.8	10918.4/3.2	12283.2/3.6
	Heating	kW	2.5	2.8	3.6	3.6	4.0
Power supply	V/Ph/Hz		220~240/1/50				
Power consumption	W		35	35	35	43	43
Airflow volume(H/M/L)	m ³ /h		450/350/250	450/350/250	450/350/250	550/450/350	550/450/350
	CFM		265/206/147	265/206/147	265/206/147	325/265/206	325/265/206
Rated Current ²	Cooling	A	0.2	0.2	0.2	0.2	0.2
	Heating	A	0.2	0.2	0.2	0.2	0.2
	Water Heating	A	/	/	/	/	/
ESP	Pa		15/0~30				
Sound pressure level(H/M/L)	dB(A)		31/28/25	31/28/25	31/28/25	32/30/27	32/30/27
Connecting pipe diameter	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35
	Gas	mm	Φ9.52	Φ9.52	Φ9.52	Φ12.7	Φ12.7
Drain pipe	External dia.	mm	25	25	25	25	25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5
Dimension (WxDxH)	Outline	mm	700 x 615 x 200				
	Package	mm	893x743x305				
Net weight/Gross weight	kg		22/27	22/27	22/27	22/28	22/28
Loading	40' GP	set	192	192	192	192	192
	40' HQ	set	192	192	192	192	192

Model			PHUD-13VL	PHUD-15VL	PHUD-17VL	PHUD-19VL	PHUD-21VL	
Capacity	Cooling	BTU/kW	13648/4.0	15354/4.5	17060/5.0	19107.2/5.6	21495.6/6.3	
	Heating	kW	4.5	5.0	5.6	6.3	7.1	
Power supply	V/Ph/Hz		220~240/1/50					
Power consumption	W		52	52	52	99	99	
Airflow volume(H/M/L)	m ³ /h		700/600/450	700/600/450	700/600/450	1000/800/600	1000/800/600	
	CFM		410/355/265	410/355/265	410/355/265	590/471/355	590/471/355	
Rated Current ²	Cooling	A	0.3	0.3	0.3	0.5	0.5	
	Heating	A	0.3	0.3	0.3	0.5	0.5	
	Water Heating	A	/	/	/	/	/	
ESP	Pa		15/0~30					
Sound pressure level(H/M/L)	dB(A)		33/31/28	33/31/28	33/31/28	35/33/30	35/33/30	
Connecting pipe diameter	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ9.52	Φ9.52	
	Gas	mm	Φ12.7	Φ12.7	Φ12.7	Φ15.9	Φ15.9	
Drain pipe	External dia.	mm	25	25	25	25	25	
	Thickness	mm	2.5	2.5	2.5	2.5	2.5	
Dimension (WxDxH)	Outline	mm	900 x 615 x 200				1100 x 615 x 200	
	Package	mm	1123x743x305				1323x743x305	
Net weight/Gross weight	kg		27/33	27/33	27/33	31/38	31/38	
Loading	40' GP	set	192	192	192	162	162	
	40' HQ	set	192	192	192	162	162	

Model			PHUD-24VL	PHUD-27VL	PHUD-30VL	PHUD-34VL	PHUD-38VL	PHUD-42VL	PHUD-48VL	
Capacity	Cooling	BTU/kW	24225.2/7.1	27296/8.0	30708/9.0	34120/10.0	38214.4/11.2	42650/12.5	47768/14.0	
	Heating	kW	8.0	9.0	10.0	11.2	12.5	14.0	16.0	
Power supply	V/Ph/Hz		220~240/1/50							
Power consumption	W		105	140	209	209	209	230	230	
Airflow volume(H/M/L)	m ³ /h		1000/800/600	1100/1000/800	1500/1250/950	1500/1350/1000	1700/1500/1100	2000/1500/1150	2000/1500/1150	
	CFM		590/471/355	650/590/471	885/736/599	885/795/590	1000/885/650	1175/885/677	1175/885/677	
Rated Current ²	Cooling	A	0.5	0.7	1.0	1.0	1.0	1.1	1.1	
	Heating	A	0.5	0.7	1.0	1.0	1.0	1.1	1.1	
	Water Heating	A	/	/	/	/	/	/	/	
ESP	Pa		30/0~50							
Sound pressure level(H/M/L)	dB(A)		35/33/30	36/34/31	40/36/32	40/36/32	40/36/32	42/40/37	42/40/37	
Connecting pipe diameter	Liquid	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	
	Gas	mm	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9	
Drain pipe	External dia.	mm	25	25	25	25	25	25	25	
	Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5	2.5	
Dimension (WxDxH)	Outline	mm	1200 x 655 x 260				1340 x 655 x 260			
	Package	mm	1448x858x315				1591x861x330			
Net weight/Gross weight	kg		40/47	40/47	46/55	46/55	46/55	47/56	47/56	
Loading	40' GP	set	96	96	78	78	78	78	78	
	40' HQ	set	96	96	78	78	78	78	78	

PAC Hybrid PLUS

Slim Ducted Type Indoor Unit

Model			PHUD-07VS	PHUD-08VS	PHUD-09VS	PHUD-10VS	PHUD-12VS
Capacity	Cooling	BTU/kW	7506.4/2.2	8530/2.5	9553.6/2.8	10918.4/3.2	12283.2/3.6
	Heating	kW	2.5	2.8	3.2	3.6	4.0
Power supply	V/Ph/Hz		220-240/1/50				
Power consumption	W		25	25	25	30	30
Airflow volume(H/M/L)	m ³ /h		450/400/320	450/400/320	450/400/320	550/450/340	550/450/340
	CFM		265/235/188	265/235/188	265/235/188	324/265/200	324/265/200
Rated Current ²	Cooling	A	0.2	0.2	0.2	0.3	0.3
	Heating	A	0.2	0.2	0.2	0.3	0.3
	Water Heating	A	/	/	/	/	/
ESP	Pa		0/15				
Sound pressure level(H/M/L)	dB(A)		30/28/22	30/28/22	30/28/22	31/29/25	31/29/25
Connecting pipe diameter	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35
	Gas	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ12.7
Drain pipe	External dia.	mm	25	25	25	25	25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5
Dimension (WxDxH)	Outline	mm	710x450x200				
	Package	mm	1003x551x285				
Net weight/Gross weight	kg		18.5/22	18.5/22	18.5/22	19.5/23	19.5/23
Loading	40' GP	set	352	352	352	352	352
	40' HQ	set	352	352	352	352	352

Model			PHUD-13VS	PHUD-15VS	PHUD-17VS	PHUD-19VS	PHUD-21VS	PHUD-24VS
Capacity	Cooling	BTU/kW	13648/4.0	15354/4.5	17060/5.0	19107.2/5.6	21495.6/6.3	24566.4/7.2
	Heating	kW	4.5	5.0	5.6	6.3	7.0	8.0
Power supply	V/Ph/Hz		220-240/1/50					
Power consumption	W		35	35	35	45	45	50
Airflow volume(H/M/L)	m ³ /h		750/660/540	750/660/540	750/660/540	850/700/610	850/700/610	1100/800/640
	CFM		441/388/318	441/388/318	441/388/318	500/412/359	500/412/359	647/471/377
Rated Current ²	Cooling	A	0.3	0.3	0.3	0.3	0.3	0.5
	Heating	A	0.3	0.3	0.3	0.3	0.3	0.5
	Water Heating	A	/	/	/	/	/	/
ESP	Pa		0/15					
Sound pressure level(H/M/L)	dB(A)		33/30/27	33/30/27	33/30/27	35/33/29	35/33/29	37/34/30
Connecting pipe diameter	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ9.52	Φ9.52	Φ9.52
	Gas	mm	Φ12.7	Φ12.7	Φ12.7	Φ15.9	Φ15.9	Φ15.9
Drain pipe	External dia.	mm	25	25	25	25	25	25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5
Dimension (WxDxH)	Outline	mm	1010x450x200				1010x450x200	1310x450x200
	Package	mm	1303x551x285				1303x551x285	1603x551x285
Net weight/Gross weight	kg		23.5/28	23.5/28	23.5/28	24.5/29	24.5/29	30.5/36
Loading	40' GP	set	288	288	288	288	288	224
	40' HQ	set	288	288	288	288	288	224

Note:

* This series is without water pump.

PAC Hybrid PLUS

4-way Cassette Indoor Unit

Model			PHUF-09V	PHUF-12V	PHUF-15V	PHUF-17V	PHUF-19V	PHUF-21V	PHUF-24V
Capacity	Cooling	BTU/kW	9553.6/2.8	12283.2/3.6	15554/4.5	17060/5.0	19107.2/5.6	21495.6/6.2	24225.2/7.1
	Heating	kW	3.2	4.0	5.0	5.6	6.3	7.1	8.0
Power supply	V/Ph/Hz		220~240/1/50						
Power consumption	W		48	48	48	50	59	59	68
Airflow volume(H/M/L)	m ³ /h		750/850/550	750/850/550	750/850/550	830/850/550	1000/900/750	1000/900/750	1180/950/850
	CFM		440/383/325	440/383/325	440/383/325	490/383/325	590/530/440	590/530/440	695/559/550
Rated Current ²	Cooling	A	0.2	0.2	0.2	0.2	0.3	0.3	0.3
	Heating	A	0.2	0.2	0.2	0.2	0.3	0.3	0.3
	Water Heating	A	/	/	/	/	/	/	/
Sound pressure level(H/M/L)	dB(A)		36/34/31	36/34/31	36/34/31	36/34/31	37/35/32	37/35/32	38/36/33
Connecting pipe diameter	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.52	Φ9.52	Φ9.52
	Gas	mm	Φ9.52	Φ12.7	Φ12.7	Φ12.7	Φ15.9	Φ15.9	Φ15.9
Drain pipe	External dia.	mm	25	25	25	25	25	25	25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Main Body	Dimension (WxDxH)	Outline	mm	840x840x190	840x840x190	840x840x190	840x840x190	840x840x240	840x840x240
		Package	mm	963x963x272	963x963x272	963x963x272	963x963x272	963x963x325	963x963x325
	Net weight/Gross weight		kg	22.5/29.5	22.5/29.5	22.5/29.5	22.5/29.5	26.5/34.5	26.5/34.5
Panel	Dimension (WxDxH)	Outline	mm	950x950x65	950x950x65	950x950x65	950x950x65	950x950x65	950x950x65
		Package	mm	1033x1038x133	1033x1038x133	1033x1038x133	1033x1038x133	1033x1038x133	1033x1038x133
	Net weight/Gross weight		kg	7/11	7/11	7/11	7/11	7/11	7/11
Loading quantity	40'GP	set	167	167	167	167	140	140	140
	40'HQ	set	171	171	171	171	156	156	156

Model			PHUF-27V	PHUF-30V	PHUF-34V	PHUF-38V	PHUF-42V	PHUF-48V	PHUF-54V
Capacity	Cooling	BTU/kW	27296/8.0	30708/9.0	34120/10	38214.4/11.2	42650/12.5	47768/14.0	54592/16.0
	Heating	kW	9.0	10.0	11.2	12.5	14.0	16.0	17.5
Power supply	V/Ph/Hz		220~240/1/50						
Power consumption	W		68	98	98	110	110	110	130
Airflow volume(H/M/L)	m ³ /h		1180/950/850	1500/1350/1100	1500/1350/1100	1700/1400/1100	1860/1500/1150	1860/1500/1150	2100/1700/1400
	CFM		695/559/550	880/795/650	880/795/650	1000/824/650	1095/880/677	1095/880/677	1235/1000/824
Rated Current ²	Cooling	A	0.3	0.4	0.4	0.5	0.5	0.5	0.6
	Heating	A	0.3	0.4	0.4	0.5	0.5	0.5	0.6
	Water Heating	A	/	/	/	/	/	/	/
Sound pressure level(H/M/L)	dB(A)		38/36/33	40/37/35	40/37/35	41/38/36	43/41/38	43/41/38	47/44/42
Connecting pipe diameter	Liquid	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas	mm	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ19.05
Drain pipe	External dia.	mm	25	25	25	25	25	25	25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Main Body	Dimension (WxDxH)	Outline	mm	840x840x240	840x840x320	840x840x320	840x840x320	840x840x320	910x910x293
		Package	mm	963x963x325	963x963x409	963x963x409	963x963x409	963x963x409	1023x993x375
	Net weight/Gross weight		kg	26.5/34.5	32.5/40.0	32.5/40.0	32.5/40.0	32.5/40.0	46.5/56.5
Panel	Dimension (WxDxH)	Outline	mm	950x950x65	950x950x65	950x950x65	950x950x65	950x950x65	1040x1040x65
		Package	mm	1033x1038x133	1033x1038x133	1033x1038x133	1033x1038x133	1033x1038x133	1137x1137x140
	Net weight/Gross weight		kg	7/11	7/11	7/11	7/11	7/11	7.5/11.5
Loading quantity	40'GP	set	140	104	104	104	104	104	144
	40'HQ	set	156	119	119	119	119	119	144

PAC Hybrid PLUS

Wall-mounted Type Indoor Unit

Model		PHUW-07V	PHUW-09V	PHUW-12V	PHUW-15V	PHUW-17V	PHUW-19V	PHUW-21V	PHUW-24V		
Capacity	Cooling	BTU/kW	7506.4/2.2	9553.6/2.8	12283.2/3.6	15354/4.5	17060/5.0	19107.2/5.6	21495.6/6.3	24225.2/7.1	
	Heating	kW	2.5	3.2	4.0	5.0	5.8	6.3	7.0	7.5	
Power supply	V/Ph/Hz		220~240/1/50								
Power consumption	W		50	50	60	60	60	70	70	70	
Airflow volume(H/M/L)	m ³ /h		500/420/350	500/420/350	630/550/480	630/550/480	630/550/480	750/600/500	750/600/500	750/600/500	
	CFM		294/247/206	294/247/206	371/324/282	371/324/282	371/324/282	441/353/294	441/353/294	441/353/294	
Rated Current ²	Cooling	A	0.2	0.2	0.31	0.31	0.31	0.31	0.31	0.31	
	Heating	A	0.2	0.2	0.31	0.31	0.31	0.31	0.31	0.31	
	Water Heating	A	/	/	/	/	/	/	/	/	
Sound pressure level(H/M/L)	dB(A)		38/34/30	38/34/30	44/41/38	44/41/38	44/41/38	44/41/38	44/41/38	44/41/38	
Connecting pipe diameter	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.52	Φ9.52	Φ9.52	
	Gas	mm	Φ9.52	Φ9.52	Φ12.7	Φ12.7	Φ12.7	Φ15.9	Φ15.9	Φ15.9	
Drain pipe	External dia.	mm	Φ20	Φ20	Φ20	Φ20	Φ20	Φ30	Φ30	Φ30	
	Thickness	mm	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	
Dimension (WxDxH)	Outline	mm	843x180x275			940x200x298			1008x221x319		
	Package	mm	973x258x370			1068x288x395			1131x398x328		
Net weight/Gross weight	kg		10/12.5	10/12.5	12.5/15.5	12.5/15.5	12.5/15.5	15/18.5	15/18.5	15/18.5	
Loading	40' GP	set	702	702	557	557	557	441	441	441	
	40' HQ	set	819	819	624	624	624	503	503	503	

Compact 4-wat Cassette Indoor Unit

Model		PHUF-07VC	PHUF-09VC	PHUF-12VC	PHUF-15VC	PHUF-17VC	PHUF-19VC	
Capacity	Cooling	BTU/kW	7506.4/2.2	9553.6/2.8	12283.2/3.6	15354/4.5	17060/5.0	19107.2/5.6
	Heating	kW	2.5	3.2	4	5	5.8	6.3
Power supply	V/Ph/Hz		220~240/1/50					
Power consumption	W		35	35	35	45	45	45
Airflow volume(H/M/L)	m ³ /h		600/500/400	600/500/400	600/500/400	700/600/480	700/600/480	700/600/480
	CFM		355/295/235	355/295/235	355/295/235	410/355/283	410/355/283	410/355/283
Rated Current ²	Cooling	A	0.4	0.4	0.4	0.5	0.5	0.5
	Heating	A	0.4	0.4	0.4	0.5	0.5	0.5
	Water Heating	A	/	/	/	/	/	/
Sound pressure level(H/M/L)	dB(A)		46/39/35	46/39/35	46/39/35	47/43/38	47/43/38	47/43/38
Connecting pipe diameter	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.52
	Gas	mm	Φ9.52	Φ9.52	Φ12.7	Φ12.7	Φ12.7	Φ15.9
Drain pipe	External dia.	mm	25	25	25	25	25	25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5
Main Body (WxDxH)	Outline	mm	596x596x240	596x596x240	596x596x240	596x596x240	596x596x240	596x596x240
	Package	mm	773x733x300	773x733x300	733x733x300	733x733x300	733x733x300	733x733x300
Net weight/Gross weight	kg		20.5/25.5	20.5/25.5	20.5/25.5	20.5/25.5	20.5/25.5	20.5/25.5
Panel (WxDxH)	Outline	mm	650x650x50	650x650x50	650x650x50	650x650x50	650x650x50	650x650x50
	Package	mm	763x763x105	763x763x105	763x763x105	763x763x105	763x763x105	763x763x105
Net weight/Gross weight	kg		3.5/5.0	3.5/5.0	3.5/5.0	3.5/5.0	3.5/5.0	3.5/5.0
Loading quantity	40'GP	set	267	267	267	267	267	267
	40'HQ	set	288	288	288	288	288	288

PAC Hybrid PLUS

2-way Cassette Indoor Unit

Model			PHUT-09V	PHUT-12V	PHUT-15V	PHUT-17V	PHUT-19V	PHUT-21V	PHUT-24V
Capacity	Cooling	BTU/KW	9553.6/2.8	12283.2/3.6	15354/4.5	17060/5.0	19107.2/5.6	21495.6/6.3	24225.2/7.1
	Heating	kW	3.2	4.0	5.0	5.6	6.3	7.1	8.0
Power supply	V/Ph/Hz		220~240/1/50						
Power consumption	W		55.0	55.0	55.0	55.0	103.0	103.0	103.0
Airflow volume(H/M/L)	m ³ /h		830/600/530	830/600/530	830/600/530	830/600/530	1100/820/760	1100/820/760	1100/820/760
	CFM		490/355/312	490/355/312	490/355/312	490/355/312	650/483/647	650/483/647	650/483/647
Rated Current ²	Cooling	A	0.3	0.3	0.3	0.3	0.7	0.7	0.7
	Heating	A	0.3	0.3	0.3	0.3	0.7	0.7	0.7
	Water Heating	A	/	/	/	/	/	/	/
Sound pressure level(H/M/L)	dB(A)		35/33/31	35/33/31	35/33/31	35/33/31	39/37/35	39/37/35	39/37/35
Connecting pipe diameter	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.52	Φ9.52	Φ9.52
	Gas	mm	Φ9.52	Φ12.7	Φ12.7	Φ12.7	Φ15.9	Φ15.9	Φ15.9
Drain pipe	External dia.	mm	25	25	25	25	25	25	25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Main Body	Dimension (WxDxH)	Outline	mm	1200x520x315	1200x520x315	1200x520x315	1200x520x315	1200x520x315	1200x520x315
		Package	mm	1520x655x415	1520x655x415	1520x655x415	1520x655x415	1520x655x415	1520x655x415
	Net weight/Gross weight		kg	40.5/52.5	40.5/52.5	40.5/52.5	43.0/55.0	43.0/55.0	43.0/55.0
Panel	Dimension (WxDxH)	Outline	mm	1443x630x33	1443x630x33	1443x630x33	1443x630x33	1443x630x33	1443x630x33
		Package	mm	1575x765x105	1575x765x105	1575x765x105	1575x765x105	1575x765x105	1575x765x105
	Net weight/Gross weight		kg	7.0/11.0	7.0/11.0	7.0/11.0	7.0/11.0	7.0/11.0	7.0/11.0
Loading quantity	40'GP	set	101	101	101	101	101	101	101
	40'HQ	set	115	115	115	115	115	115	115

1-way Cassette Indoor Unit

Model			PHUN-07V	PHUN-09V	PHUN-12V	PHUN-15V	PHUN-17V
Capacity	Cooling	BTU/KW	7506.4/2.2	9553.6/2.8	12283.2/3.6	15354/4.5	17060/5.0
	Heating	kW	2.5	3.2	4.0	5.0	5.6
Power supply	V/Ph/Hz		220~240/1/50				
Power consumption	W		30	30	30	45	45
Airflow volume(H/M/L)	m ³ /h		600/500/450	600/500/450	600/500/450	830/600/500	830/600/500
	CFM		355/295/265	355/295/265	355/295/265	490/355/295	490/355/295
Rated Current ²	Cooling	A	0.2	0.2	0.2	0.3	0.3
	Heating	A	0.2	0.2	0.2	0.3	0.3
	Water Heating	A	/	/	/	/	/
Sound pressure level(H/M/L)	dB(A)		36/32/28	36/32/28	36/32/28	40/35/30	40/35/30
Connecting pipe diameter	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35
	Gas	mm	Φ9.52	Φ12.7	Φ12.7	Φ12.7	Φ12.7
Drain pipe	External dia.	mm	25	25	25	25	25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5
Main Body	Dimension (WxDxH)	Outline	mm	987x385x178	987x385x178	987x385x178	987x385x178
		Package	mm	1307x501x310	1307x501x310	1307x501x310	1307x501x310
	Net weight/Gross weight		kg	20.0/27.0	20.0/27.0	20.0/27.0	21.0/28.5
Panel	Dimension (WxDxH)	Outline	mm	1200x460x55	1200x460x55	1200x460x55	1200x460x55
		Package	mm	1265x536x118	1265x536x118	1265x536x118	1265x536x118
	Net weight/Gross weight		kg	4.2/6.0	4.2/6.0	4.2/6.0	4.2/6.0
Loading quantity	40'GP	set	138	138	138	138	138
	40'HQ	set	138	138	138	138	138

PAC Hybrid PLUS

Console Indoor Unit

Model			PHUL-07V	PHUL-09V	PHUL-12V	PHUL-15V	PHUL-17V
Capacity	Cooling	BTU/kW	75064/2.2	9553.6/2.8	12283.2/3.6	15354/4.5	17060/5.0
	Heating	kW	2.5	3.2	4.0	5.0	5.5
Power supply	V/Ph/Hz		220-240/1/50				
Power consumption	W		15	15	20	40	40
Airflow volume(H/M/L)	m ³ /h		400/320/270	400/320/270	480/400/310	680/600/500	680/600/500
	CFM		235/188/159	235/188/159	282/235/182	400/353/294	400/353/294
Rated Current ²	Cooling	A	0.15	0.15	0.15	0.15	0.15
	Heating	A	0.15	0.15	0.15	0.15	0.15
	Water Heating	A	/	/	/	/	/
ESP	Pa		0	0	0	0	0
Sound pressure level(H/M/L)	dB(A)		38/33/27	38/33/27	40/37/32	46/43/39	46/43/39
Connecting pipe diameter	Liquid	mm	6.35	6.35	6.35	6.35	6.35
	Gas	mm	9.52	9.52	9.52	12.7	12.7
Drain pipe	External dia.	mm	17.2	17.2	17.2	17.2	17.2
	Thickness	mm	1	1	1	1	1
Dimension (WxDxH)	Outline	mm	700/215/600	700/215/600	700/215/600	700/215/600	700/215/600
	Package	mm	780x285x682	780x285x682	780x285x682	780x285x682	780x285x682
Net weight/Gross weight	kg		16/19	16/19	16/19	16/19	16/19
Loading	40' GP	set	387	387	387	387	387
	40' HQ	set	433	433	433	433	433

Floor Ceiling Type Indoor Unit

Model			PHUC-09V	PHUC-12V	PHUC-17V	PHUC-21V	PHUC-24V	PHUC-30V	PHUC-38V	PHUC-42V	PHUC-48V	
Capacity	Cooling	BTU/kW	9555.6/2.8	12283.2/3.6	17060/5.0	21495.6/6.3	24225.2/7.1	30708/9.0	38214.4/11.2	42650/12.5	47768/14.0	
	Heating	kW	3.2	4.0	5.6	7.1	8.0	10.0	12.5	14.0	16.0	
Power supply	V/Ph/Hz		220~240/1/50									
Power consumption	W		40	40	50	75	75	140	160	160	160	
Airflow volume(H/M/L)	m ³ /h		650/580/500	650/580/500	950/850/700	1400/1150/1000	1400/1150/1000	1600/1400/1200	2000/1800/1450	2000/1800/1450	2000/1800/1450	
	CFM		380/341/294	380/341/294	560/500/410	825/677/590	825/677/590	940/824/706	1175/1059/853	1175/1059/853	1175/1059/853	
Rated Current ²	Cooling	A	0.2	0.2	0.25	0.38	0.38	0.7	0.95	0.95	0.95	
	Heating	A	0.2	0.2	0.25	0.38	0.38	0.7	0.95	0.95	0.95	
	Water Heating	A	/	/	/	/	/	/	/	/	/	
Sound pressure level(H/M/L)	dB(A)		36/34/32	36/34/32	42/38/33	44/42/39	44/42/39	50/47/43	51/47/42	52/49/45	52/49/45	
Connecting pipe diameter	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	
	Gas	mm	Φ9.52	Φ12.7	Φ12.7	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9	
Drain pipe	External dia.	mm	Φ17	Φ17	Φ17	Φ17	Φ17	Φ17	Φ17	Φ17	Φ17	
	Thickness	mm	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	
Dimension (WxDxH)	Outline	mm	1220x700x225			1420x700x245			1700x700x245			
	Package	mm	1343x823x315			1548x828x345			1828x828x345			
Net weight/Gross weight	kg		40/49	40/49	40/49	50/58	50/58	50/58	60/68	60/68	60/68	
Loading	40' GP	set	145	145	145	90	90	90	84	84	84	
	40' HQ	set	158	158	158	98	98	98	98	98	98	

PAC Hybrid **PLUS**

Floor Standing Type

Model			PHUS-34V	PHUS-48V
Capacity	Cooling	BTU/kW	34120/10.0	47768/14.0
	Heating	kW	11	15
Power supply		V/Ph/Hz	220-240/1/50	
Power consumption		W	185	185
Airflow volume(H/M/L)		m ³ /h	1850/1600/1400	1850/1600/1400
		CFM	1089/942/824	1089/942/824
Rated Current ²	Cooling	A	1.5	1.5
	Heating	A	1.5	1.5
	Water Heating	A	/	/
ESP		Pa	0	0
Sound pressure level(H/M/L)		dB(A)	50/48/46	50/48/46
Connecting pipe diameter	Liquid	mm	9	9
	Gas	mm	16	16
Drain pipe	External dia.	mm	31	31
	Thickness	mm	4.5	4.5
Dimension (WxDxH)	Outline	mm	1870x580x400	1870x580x400
	Package	mm	2083/738/545	2083/738/545
Net weight/Gross weight		kg	54/74	57/77
Loading	40' GP	set	67	67
	40' HQ	set	67	67

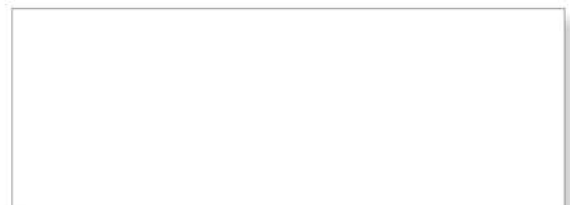


Advance Exchange Technology Co.,Ltd.

12/2 Vision Business Park Phase 2, Soi Ramintra 55/8, Ramintra Rd,
Tarang, Bangkhen, Bangkok 10230 Thailand

Tel: +66 (0) 2347 0447 **Fax:** +66 (0) 2347 0448

E-mail: info@pac.co.th **www.pac.co.th**



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