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www.ne01-e.com / www.nulitegroup.com

Nulite Heat Pump

Nulite Heat Pump

NULITE

NULITE HEAT PUMP

The Piloteer Of European Inverter 3 in 1 Heat Pump

Your Best Heat Pump Supplier

CONTENT

NULITE New Energy Brief Introduction

NULITE New Energy (Guangzhou) Co., Ltd. (Guangdong NULITE New Energy Group) is a China-Singapore joint venture established in 2003 with one marketing center and two modern manufacturing bases located in Guangzhou and Foshan City, covering an area of 200,000 square meters. With 12 automated production lines, 15 international certified laboratories, and 44 advanced material testing machines, NULITE manufactures with various types of heat pumps including R290/R32/R410A/R134A -30C EVI DC Inverter Heat Pumps, Spa Pool Heat Pumps, All in One Heat Pump Water Heater, Commercial Heating/Cooling/Hot Water Heat Pumps,Geothermal Heat Pumps, Fan Coil Units and Water Tanks.

With an annual production capacity of over 500,000 sets and a complete heat pump industry chain that includes self-owned major component factories such as galvanized sheet factory, evaporator & heat exchanger factory and water tank factory, NULITE has been dedicated to providing efficient and energy-saving solutions for both residential and commercial applications.

NULITE's strong team of R&D engineers and experts always focus on the advanced heat pump technology. Over the past twenty years, NULITE has obtained more than one thousand national and international patents related to the field of heat pumps,and won many government projects, such as coal-to-electricity projects in northern China.

NULITE's quality management system has passed ISO9001and ISO14001 certification,and their products are CE, CB, ROHS, erP certified .With their continued efforts toward expanding overseas business, NULITE continues to export up to 40% of their products globally to 100 countries and regions such as Germany, Spain, UK,Sweden, Denmark, Poland, Czech Republic, Lithuania, Finland, Bosnia-Herzegovina, Serbia, Macedonia, Romania, Greece, Ukraine,Russia, South Africa, Vietnam, South Korea, United States, Chile, Ecuador, etc. NULITE has become one of the top heat pump manufacturers in China since 2013.

—— NULITE, Be Your Right!

200000m^2+
Company area

800+
Employees

50+
Engineers

12+
Production Lines

30+
Oversea Salesmen

30+
Quality Staff

3+
2 Factories & 1 Marketing Center

Development Course

Professional DC Inverter Heat Pump Manufacturer

2003

In 2003, the first NULITE air source heat pump R&D and manufacturing base was established in Huadu,Guangzhou.From then on into the heat pump market.

2004

In 2004, NULITE launched domestic hot water heat pump and commercial hot water heat pump products, focusing on the hot water market.

2005

In 2005, NULITE had its own engineering team to undertake various types of engineering projects, such as central heating project,central hot water project, swimming pool heating project, and established the first -10 degrees low temperature test laboratory.

2010

In 2010, NULITE built the export sales headquarters in Guangzhou. At the same time, NULITE began the production of pressurized water tanks, improved its own R & D team, began to develop intelligent heat pump products, and comprehensively improved its own product categories.

2013

In 2013, NULITE has its own -30 degrees low temperature test laboratory, specializing in the development of low temperature heat pump and DC inverter heat pump, and invites foreign customers to the company for guidance and communication.

2018

In 2018, NULITE expanded its operations with the establishment of a second factory. Our primary market focus is in Europe,and we are dedicated to continuously enhancing our product offerings, including the 3 in 1 DC Inverter heat pump and low-temperature heat pump, to cater to the specific demands of the European market. Moreover, we actively in various exhibitions, such as IFA, ISH, French Pool exhibition, etc.

2020

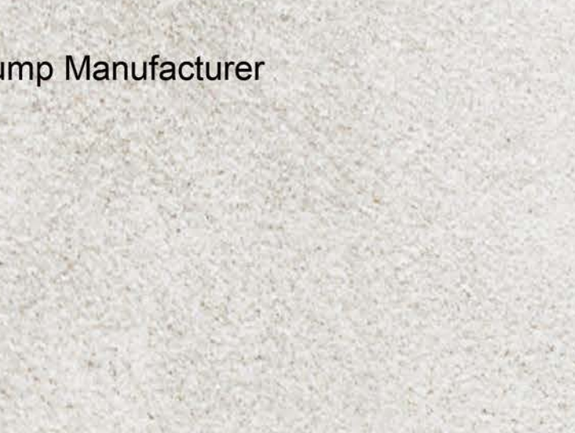
In 2020, NULITE's heat pump is fully adopt R32 refrigerant, and the control procedure is constantly updated to carry out a comprehensive upgrade of the product to further meet the needs of the European market. Nulite also registered a European trademark certificate to promote its brand in Europe

2023

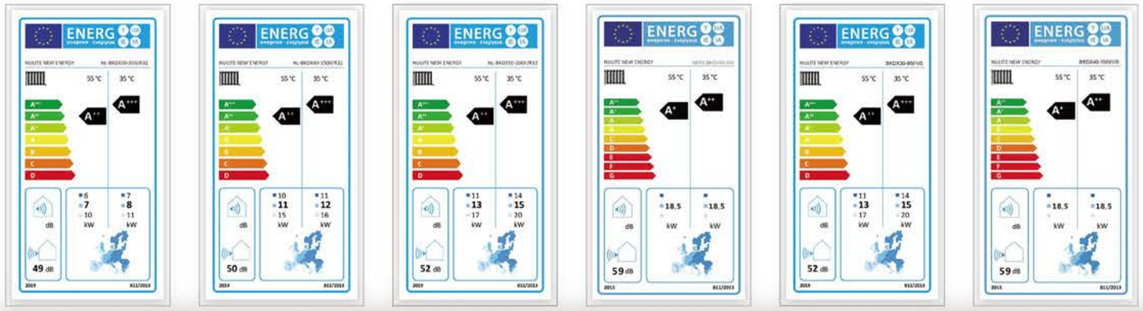
In 2023, NULITE has the first ultra-low temperature -45C explosion-proof laboratory and R290 explosion-proof production line, committed to the research of R290 refrigerant heat pump and provide a variety of customized products.Now we are developing the domestic market and further develop the Southeast Asian market to expand our market.

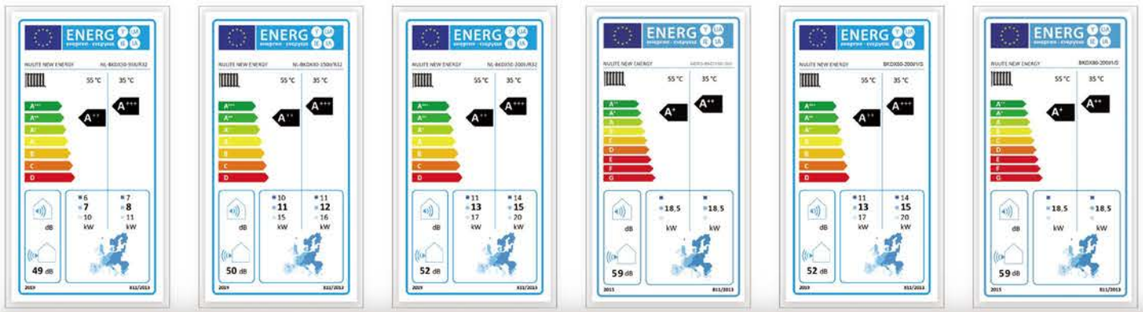
Certificate Honor

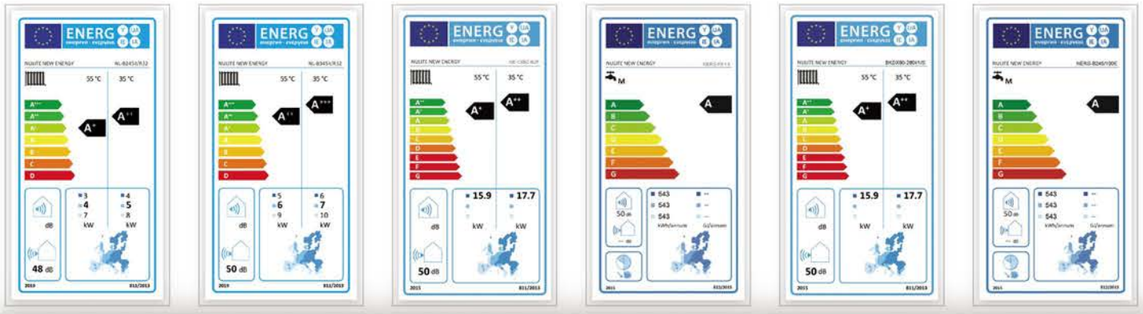
Professional Air Source Heat Pump Manufacturer



Certificates







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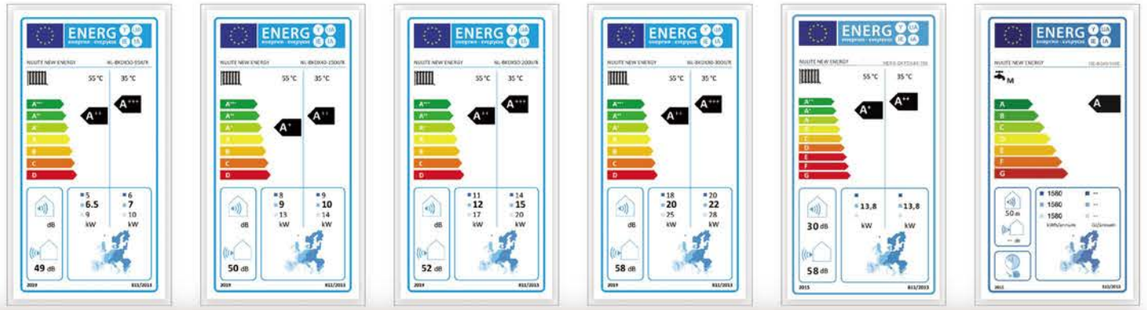
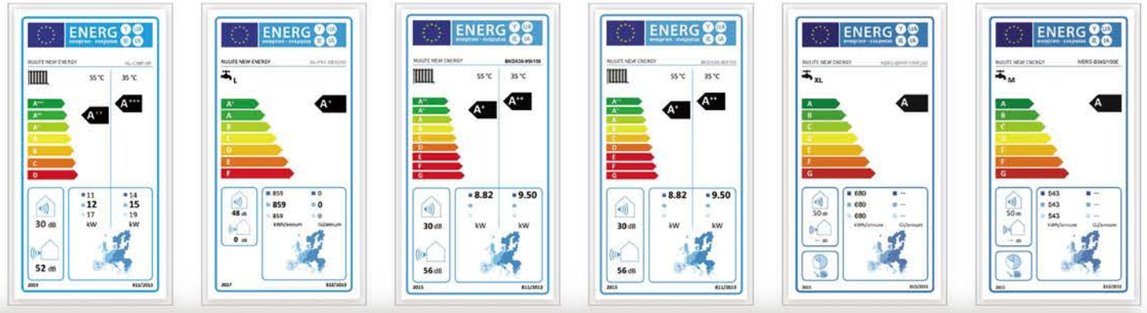
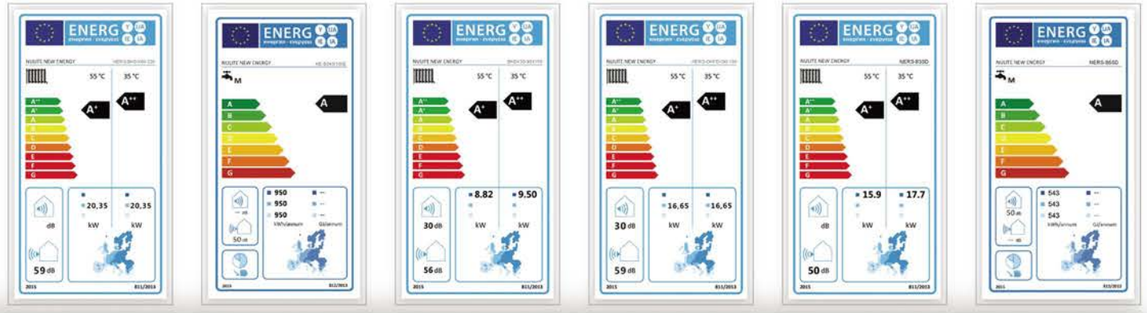






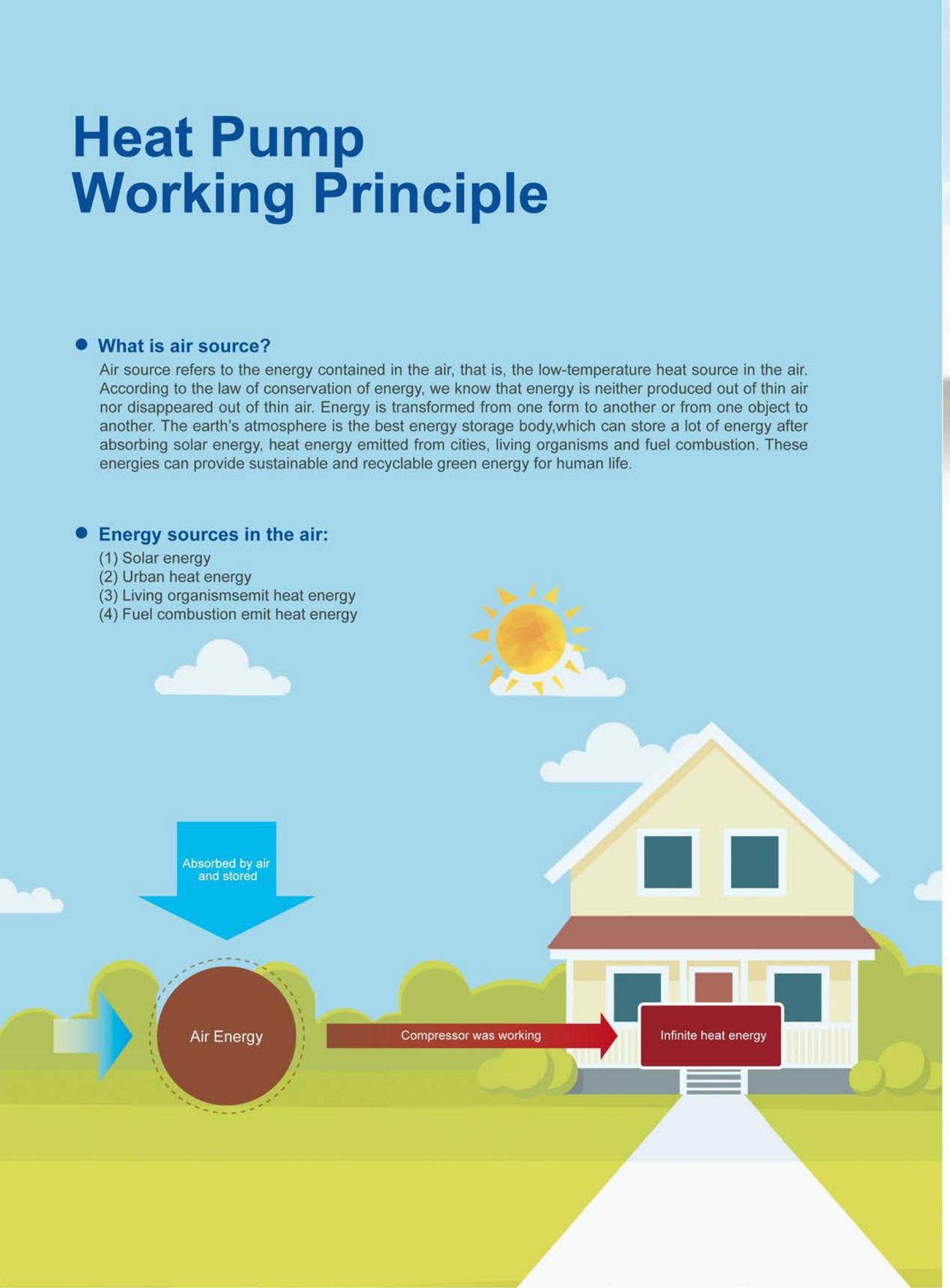
Heat Pump Working Principle

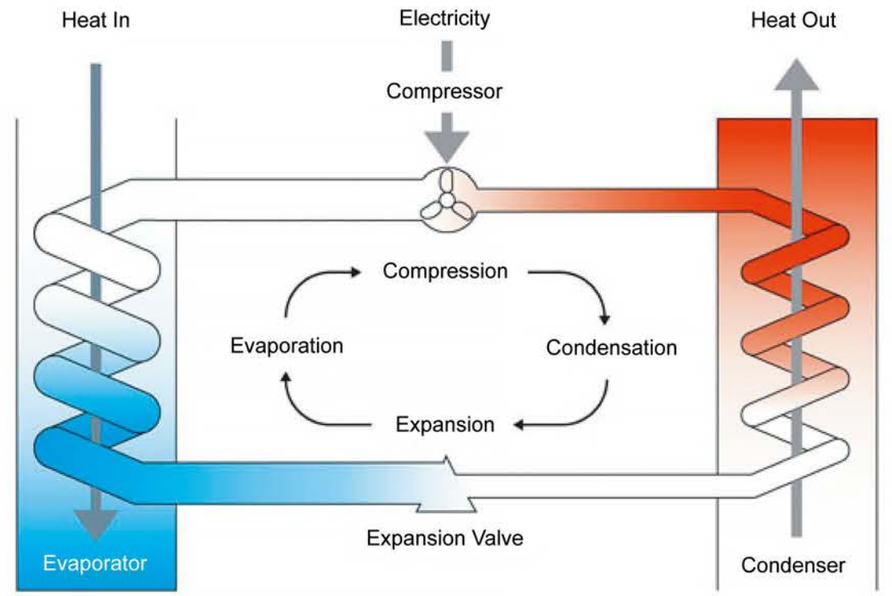
- **What is air source?**

  Air source refers to the energy contained in the air, that is, the low-temperature heat source in the air. According to the law of conservation of energy, we know that energy is neither produced out of thin air nor disappeared out of thin air. Energy is transformed from one form to another or from one object to another. The earth's atmosphere is the best energy storage body,which can store a lot of energy after absorbing solar energy, heat energy emitted from cities, living organisms and fuel combustion. These energies can provide sustainable and recyclable green energy for human life.

- **Energy sources in the air:**

  (1) Solar energy
  (2) Urban heat energy
  (3) Living organismsemit heat energy
  (4) Fuel combustion emit heat energy





- **How Do Air Source Heat Pump Work**

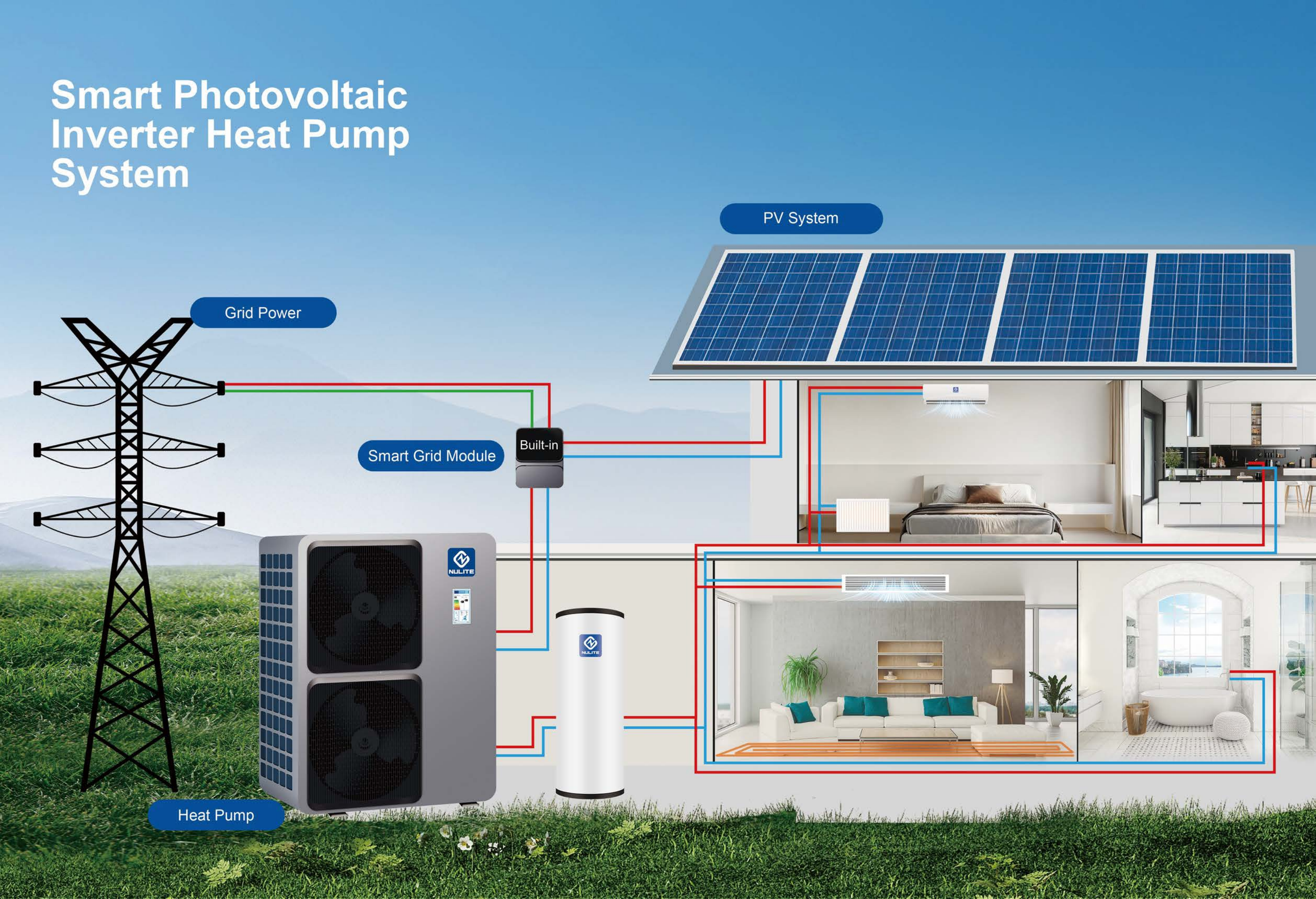
  When the refrigerant passes through the heating system, the high temperature (usually 100 degrees or more) transforms it into vapour or gas while the energy produces heat.

  The gas then goes through the compressor that increases its temperature, and then through the expansion valve that makes the hot air enter the building.

  Next, the hot air passes in a condenser that turns the gas into liquid again. The heat produced by the energy in the evaporation phase passes through the heat exchanger again to restart the cycle and it is used to make the radiators work, for underfloor heating or for domestic hot water.

  The heat pump works reversely to realize the cooling system.

Smart Photovoltaic Inverter Heat Pump System

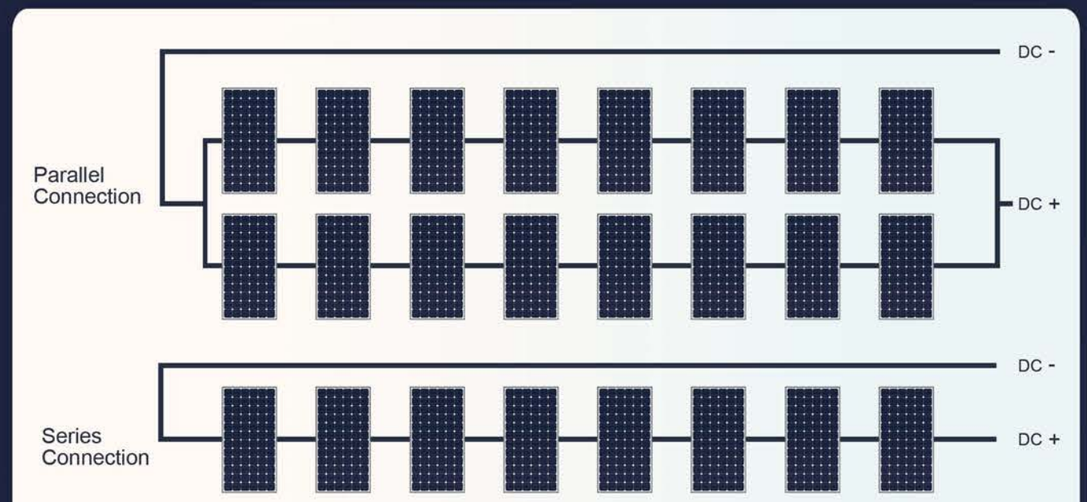


Smart Photovoltaic Inverter Heat Pump System

The Piloteer of European Inverter
3 in 1 Heat Pump

Solar Panels Suggested Connection Table

The Standard Of Each Solar Panel Specification:450W 48V



Notice: Increasing voltage through series connection and increasing power through parallel connection

The Solar Panels Quantity For Each Horse Power Heat Pump

Solar Panels				
3HP	230V	x8 Pcs	3600W	Series
4HP	400V	x10 Pcs	4500W	Series
4HP	230V	x6 Pcs x6 Pcs	5400W	Parallel
5HP	400V	x12 Pcs	5400W	Series
5HP	230V	x6 Pcs x6 Pcs	5400W	Parallel
6HP	400V	x8 Pcs x8 Pcs	7200W	Parallel
6HP	230V	x7 Pcs x7 Pcs	6300W	Parallel
8HP	400V	x10 Pcs x10 Pcs	9000W	Parallel
10HP	400V	x12 Pcs x12 Pcs	10800W	Parallel

Notice:
1.the above data is for reference only, the specific data is subject to actual product.
2.In the best case, the electricity generated by photovoltaic panels meets 90% of the consumption of heat pumps.
3.Single phase Max DC 400V Input / Minimum DC 200V Input / Three phase Max DC 600V Input / Minimum DC 300V Input.

What Are The Benefits of Heat Pump?

Installing A Heat Pump Can Be A Great Investment And Comes With Several key Benefits For Your Home, The Environment And Your Pocket. Let's Break Them Down:

Lower Your Heating Bills

Comparing with traditional electric heater, air source heat pump can save 70% of electricity.

No Time And Weather Restriction

Air source heat pump can work at different weather and all year around.

Reduce Your Carbon Emission

Air source heat pumps are highly efficient - in fact up to 4 times more efficient than typical boilers - and reduce your carbon emission by producing clean, renewable energy for which the government will pay you.

Environment-Friendly Refrigerant

Air source heat pump was adapt green refrigerant, with no pollution.

Efficient Even At Low Temperatures

Air source heat pumps can work in temperatures as low as -25℃ while still providing your home with a readily available form of heating.

Intelligent Control, No need For Maintenance

Whole units is with intelligent automatically control, no need professional guy for maintenance

Low Maintenance And Long Lifetime

The lifetime of an air source heat pump is typically around 20 years.

One Unit With Multiple Functions

One machine can achieve 3 functions in one（heating/cooling/hot water）, convenient and affordable

The Difference Between Air Source Heat Pump And Boiler

For Perspective Of Investment Cost

In the case of the same heat production, the electric boiler is slightly cheaper than the air source heat pump, but its electric power is three times larger.

For The Perspective Of Energy Saving

The air source heat pump absorbs the heat in the air and generates heat through the compressor compression, which saves about 4 times energy than traditional electricity; while the electric boiler is a device that directly generates heat without any conversion. Therefore, only 90% of the heat can be generated.

(1) The air source heat pump , 1kw can be converted to 4kw all year round.

(2) The boiler can only realize 1kw be converted to 0.95kw or lower.

Environmental Protection

Compared with fuel-based water heaters, the heat pump has no combustion emissions. The refrigerant uses environmentally friendly refrigerants, which has no pollution to the ozone layer.

The Difference In Security

During the heat generation process of the air source heat pump, there is no pressure and no risk of leakage. The heat generation process of the electric boiler, the main insulating shell, see if there is a possibility of leakage, and there is a risk of electric shock.

Electrical Power Requirements

The electric load required by the air source heat pump is 1/3 smaller than that of the electric boiler. And the requirements on the power grid are lower than the traditional electric boiler.

The Difference In Function

Air source heat pumps are air-conditioning equipment. During use, they can realize heating /cooling functions and daily domestic hot water according to user needs.While electric boilers are relatively single and can only achieve heating functions.

Comparison And Analysis Of Air Source Heat Pump

- **Wide Range Of Applications**

  It was not like the solar energy will be affected by bad weather such as overcast, rain, snow, and winter nights, while air energy is not affected. It can be used in a temperature range of -10-40°C. It can be used all day long throughout the year and can be used normally.

- **Can Be Heated Continuously**

  Compared with the traditional storage type solar water heater, the heat pump can continuously heat and supply hot water to meet the needs of users.

- **Low Operating Cost**

  When the sunlight is better in spring, summer and autumn, the operating cost is higher than that of solar energy, but in rainy days and night, the thermal efficiency is much higher than that of solar electric auxiliary heating. On average throughout the year, the annual energy consumption of conventional solar auxiliary systems is much higher than air source heat pumps.

Heating types	Oil-burning boiler	Electric water heater	Solar water heater + Electric heating assistance	Gas-fired boiler	Air Source Heat Pump Water Heater
Energy used	Light diesel oil	Electricity	Sunshine + Electricity	Natural gas	Air+Electricity
Environmental protection index	Serious Pollution	No Pollution	No Pollution	Pollution	No Pollution
Safety	Extremely Dangerous	Dangerous	Dangerous	Extremely Dangerous	Safe
Service life	10 years	8 years	10 years	5 years	15 years
Installation requirement	Limited	Free	Limited	Free	Free
Energy heat performance	10200kcal/kg	860kcal/kg	860kcal/kg	8600kcal/m3	860kcal/kg
COP	85%	95%	95%	75%	380%
Fuel price	US $0.96/kg	US $0.125/kwh	US $0.125/kwh	US $0.74/m3	US $0.125/kwh
Fuel quantity/day	46kg	489kwh	489kwh	62m3	122kwh
Cost/day	US $44.1	US $61.1	US $61.1	US $46.0	US $15.2
Cost/Year	US $16,097	US $22,302	US $6,110	US $16,790	US $5,548
Maintenance fee	US $1,548	US $323	US $161	US $323	US $0
Total cost/Year	US $17,645	US $22,624	US $6,271	US $17,113	US $5,548
Cost saving/year	US $12,097	US $17,076	US $723	US $11,565	/
Cost saving/10 years	US $120,969	US $170,761	Us $7,233	US $115,646	/

R290 HIGH TEMPERATURE
AIR SOURCE HEAT PUMP

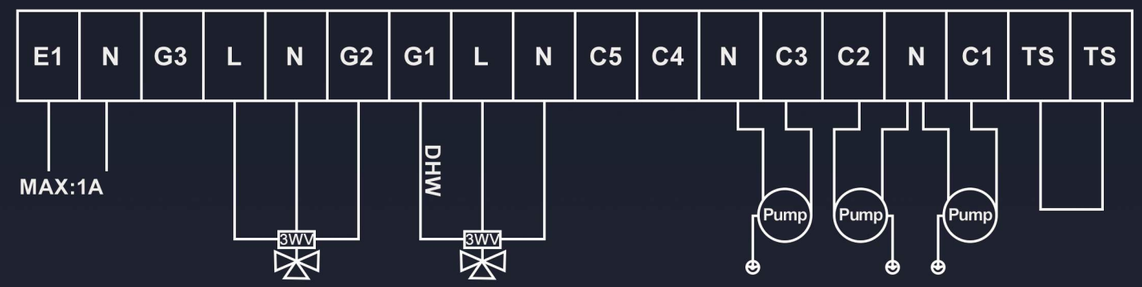
Nulite Be Your Right

The Piloteer of European Inverter
3 in 1 Heat Pump

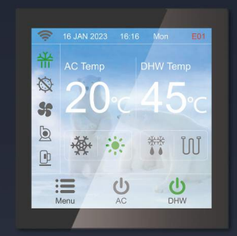
Functionable / Energy Saving / Potential

Nulite Are Supplying New Renewable Energy-Based Air Source Heat Pump Solutions

Multifunctional Connection



TS:Thermostat Switch
E1:DHW Auxiliary Electric Heater
G1:DHW-AC Convert Three-Way Valve
G2:Season Convert Three-Way Valve
G3:Solar Three-Way Valve
C1:Main Water pump
C2:AC Auxiliary Water Pump
C3:DHW Axlliary Water Pump
C4:DHW Pipeline Crculating Water Pump
C5:Indoor Circulating Water Pump



Controller Panel

Panasonic EVI

Quickly heating&energy saving,automatic to change the power input,adapted dual-rotor balance technology,operation peaceful,low noise and longer life time.Stably running down to -25℃,heating capacity output increased 200% in low temperature.

Dual rotor	R290	-25℃	200%
Dc inverter	Refrigerant	Operation	Heat Output

The Reasons For Choosing Nulite Heat Pump Water Heaters

ECO-FRIENDLY

Lower Emissions

R290 differs from other refrigerant gases such as R32 in that it has a very low Global Warming Potential(GWP).

HIGHLY EFFICIENT

Excellent Efficiency

Due to its thermodynamic properties the energy efficiency of this type of refrigerant gas is excellent, up to 34% higher than R32

HIGH TEMPERATURE

80℃

Compatible With Existing Units

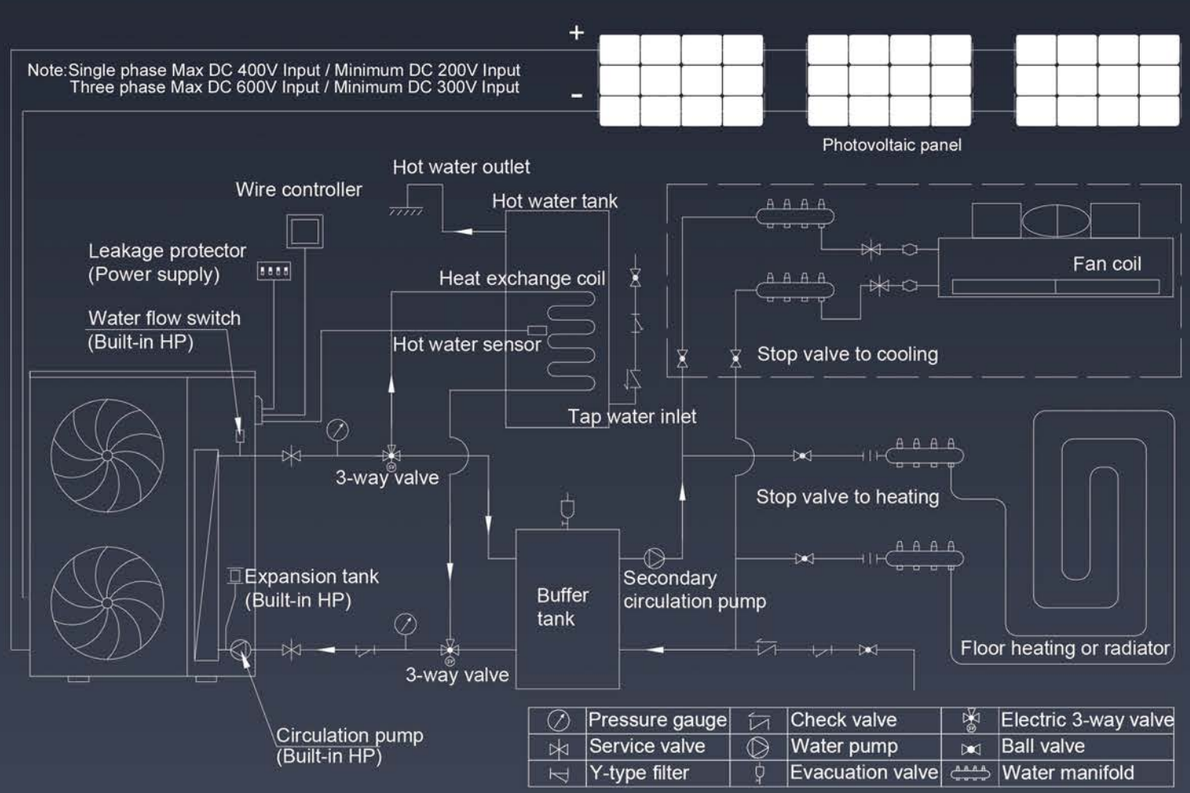
Flamingo R290 Series is ideal for replacing less effi cient systems due to the high temperature of its water supply.It is compatible with radiators and does not require a large accumulation volume of domestic hot water.

Advantages:

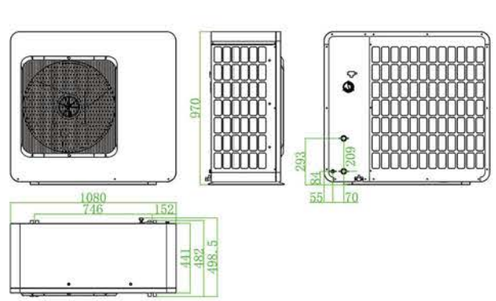
★ Low global warming potential (GWP) of , making it a more sustainable and environmentally friendly option compared to other refrigerant gases.
★ Excellent energy efficiency, as it requires less energy to reach and maintain the desired temperature.
★ Contains no chlorine or fluorine, making it less harmful to the ozone layer.
★ No damages due to its high purity.
★ Compatibility with existing equipment.

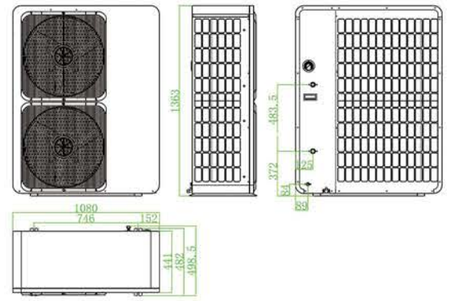
FEATURE

01、WI-FI function
02、Five Function modes
03、With RS485 signal connection
04、With Linked switch signal connection
05、3 ways valve signal connection
06、Bulit-in water pump
07、Bulit-in 3KW electric heater
08、Bulit-in expansion tank
09、R290 EVI DC inverter compressor



Dc Inverter Heat Pump			NL-FLM30-100II/R290	NL-FLM30-130II/R290	NL-FLM50-160II/R290	NL-FLM50-190II/R290
Heating capacity (A7C/W35C)		W	10000	12800	16000	19000
Input power (A7C/W35C)		W	2410	2970	3750	4530
DHW capacity (A7C/W55C)		W	9500	11300	15500	16800
Input power (A7C/W55C)		W	3150	3600	5000	5500
Cooling capacity (A35C/W18C)		W	10000	11000	14000	16500
Input power (A35C/W18C)		W	2950	3600	4260	5400
Voltage		V/Hz	220V - 240V - Inverter - 1N		380V - 415V - Inverter - 3N	
Rated water temperature		°C	DHW: 55℃ / Heating: 45℃ / Cooling: 12℃			
Max water temperature		°C	75℃ ~ 80℃			
Rated water flow		m³/h	1.7	2.1	2.7	3.1
Refrigeration		/	R290	R290	R290	R290
Rated of waterproof		/	IPX4	IPX4	IPX4	IPX4
Control mode		/	Heating / Cooling / DHW / Heating+DHW/ Cooling+DHW			
Compressor	Form	/	Double-rotor type	Double-rotor type	Double-rotor type	Double-rotor type
	Quantity	/	1	1	1	1
	Brand	/	Panasonic Full Inverter +EVI Compressor			
Net weight		Kg	105	112	145	150
Nosie level		dB(A)	≤51	≤51	≤53	≤53
Fan	Form	/	Full DC fan motor (low noise)			
Fan motor		PCS	1	1	2	2
Water heat exchanger		/	Sweden SWEP Plate heat exchanger (Main road) + Denmark Danfoss Plate heat exchanger(EVI road)			
Auxiliary Element	built-in	French	3KW	3KW	3KW	3KW
Circulation pump	built-in	SHIMGE	Inverter Water Pump (water head 12 meters)			
Expansion tank	built-in	L	5	5	5	5
Ambient temperature		°C	(-25℃ -- 43℃)	(-25℃ -- 43℃)	(-25℃ -- 43℃)	(-25℃ -- 43℃)
Inlet pipe diameter		mm	DN25	DN25	DN25	DN25
Outlet pipe diameter		mm	DN25	DN25	DN25	DN25
Net size		mm	1080x499x970		1080x499x1365	
Packing size		mm	1120x510x1100		1120x510x1490	
20"GP container loading		pcs	44	44	22	22
40"HQ container loading		pcs	92	92	46	46





Monoblock
DC Inverter Air Source
Heat Pump

The Piloteer of European Inverter 3 in 1 Heat Pump

- WI-FI function
- Heating/Cooling/DHW/Heating+DHW/Cooling+DHW
- With RS485 signal connection
- With Linked switch signal connection
- 3 ways valve signal connection
- Bulit-in water pump
- Bulit-in 3KW electric heater
- Bulit-in expansion tank
- Brand new design
- R32 dc inverter compressor
- More multifunctional connection

MONOBLOCK
R32/R290 HEAT PUMP

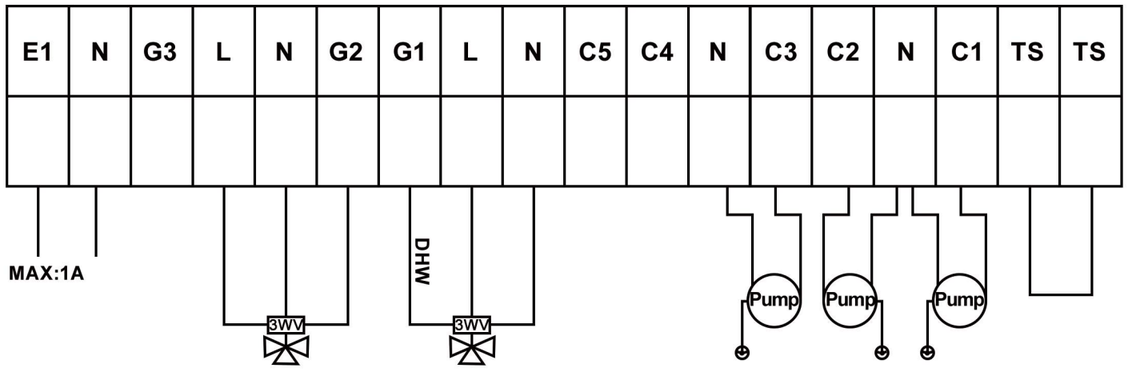
MONOBLOCK
R32 HEAT PUMP

MONOBLOCK
R410A HEAT PUMP

Multi-Language Controller

Controller Panel

Multifunctional Connection



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E1:DHW Auxiliary Electric Heater
G1:DHW-AC Convert Three-Way Valve
G2:Season Convert Three-Way Valve
G3:Solar Three-Way Valve

C1:Main Water Pump
C2:AC Auxiliary Water Pump
C3:DHW Axlliary Water Pump
C4:DHW Pipeline Crculating Water Pump
C5:Indoor Circulating Water Pump

Parameter

NL-FLM30-95II/40-150II/R32　　NL-FLM50-200II/R32

Model Name			NL-FLM30-95II/R32	NL-FLM40-150II/R32	NL-FLM50-200II/R32
Rated heating capacity		KW	2.8~10	3.8~16	5.5~21
Rated hot water capacity		KW	2.5~9.5	3.5~15.5	4.5~20.5
Rated cooling capacity		KW	2.5~7.5	3.8~11	4.8~15
Heating power consumption		KW	1~3.2	1.5~4.5	2~5.8
Hot water power consumption		KW	1~3.2	1.5~4.5	2~5.8
Cooling power consumption		KW	1~3.2	1.5~4.5	2~5.8
Voltage		V/Hz	220V~1N~Inverter	220V~1N & 380V~3N~Inverter	
Rated water temperature		°C	DHW: 55℃ / Heating: 45℃ / Cooling: 12℃		
Rated water flow		m³/h	1.6	2.1	2.8
Refrigeration		/	R32	R32	R32
Rated of waterproof		/	IPX4	IPX4	IPX4
Control mode		/	Heating / Cooling / DHW / Heating+DHW/ Cooling+DHW		
	Form	/	Double-rotor type	Double-rotor type	Double-rotor type
Compressor	Quantity	/	1	1	1
	Brand	/	Mitsubishi Full Inverter Compressor		
Net weight		Kg	100	110	140
Nosie level		dB(A)	≤49	≤50	≤52
Fan	Form	/	Full DC fan motor (low noise)		
Fan motor		PCS	1	1	2
Water heat exchanger		/	Sweden SWEP / Denmark Danfoss / SanHua Plate heat exchanger		
Auxiliary Element	built-in	KW	3	3	3
Circulation pump	built-in	SHIMGE	Inverter Water Pump		
Expansion tank	built-in	L	5	5	5
Ambient temperature		°C	(-25℃ -- 43℃)	(-25℃ -- 43℃)	(-25℃ -- 43℃)
Inlet pipe diameter			DN25	DN25	DN25
Outlet pipe diameter			DN25	DN25	DN25
Net size		mm	1050x499x970		1050x499x1365
Packing size		mm	1090x510x1100		1090x510x1490
20"GP container loading		pcs	44	44	22
40"HQ container loading		pcs	92	92	46

Parameter

NL-FLM60-220II/R32　　NL-FLM80-300II/100-400II/R32

Model Name			NL-FLM60-220II/R32	NL-FLM80-300II/R32	NL-FLM100-400II/R32
Rated heating capacity		KW	5.6~23	7.5~30	9.5~40
Rated hot water capacity		KW	5.2~22	7.0~28	9.0~38
Rated cooling capacity		KW	5.6~16	6.5~22	8.0~28
Heating power consumption		KW	2.5~6.9	3.5~9	4.5~11
Hot water power consumption		KW	2.5~6.9	3.5~9	4.5~11
Cooling power consumption		KW	2.5~6.9	3.5~9	4.5~11
Voltage		V/Hz	220V~1N & 380V~3N~Inverter	380V ~ Inverter ~ 3N	
Rated water temperature		°C	DHW: 55℃ / Heating: 45℃ / Cooling: 12℃		
Rated water flow		m³/h	3.3	5.0	6.0
Refrigeration		/	R32	R32	R32
Rated of waterproof		/	IPX4	IPX4	IPX4
Control mode		/	Heating / Cooling / DHW / Heating+DHW/ Cooling+DHW		
	Form	/	Double-rotor type	Double-rotor type	Double-rotor type
Compressor	Quantity	/	1	1	1
	Brand	/	Mitsubishi Full Inverter Compressor		
Net weight		Kg	145	175	190
Nosie level		dB(A)	≤53	≤58	≤59
Fan	Form	/	Full DC fan motor (low noise)		
Fan motor		PCS	2	2	2
Water heat exchanger		/	Sweden SWEP / Denmark Danfoss / SanHua Plate heat exchanger		
Auxiliary Element	built-in	KW	3	3	3
Circulation pump	built-in	SHIMGE	Inverter Water Pump	/	/
Expansion tank	built-in	L	5	8	8
Ambient temperature		°C	(-25℃ -- 43℃)	(-25℃ -- 43℃)	(-25℃ -- 43℃)
Inlet pipe diameter			DN25	DN40	DN40
Outlet pipe diameter			DN25	DN40	DN40
Net size		mm	1050x499x1365	1187x516x1585	
Packing size		mm	1090x510x1490	1220X545X1700	
20"GP container loading		pcs	22	Optional	Optional
40"HQ container loading		pcs	46	Optional	Optional

Parameter

Model Name			NL-BKDX30-95II/R	NL-BKDX40-150II/R	NL-BKDX50-200II/R
Rated heating capacity		KW	2.8~10	3.8~15.5	4.5~20
Rated hot water capacity		KW	2.5~9.5	3.5~15	4.0~19.4
Rated cooling capacity		KW	2.5~7.5	3.8~10	4.5~14
Heating power consumption		KW	1~3	1.5~4.5	2~5.5
Hot water power consumption		KW	1~3	1.5~4.5	2~5.5
Cooling power consumption		KW	1~3	1.5~4.5	2~5.5
Voltage		V/Hz	220V-240V - Inverter- 1N	220V-240V - Inverter- 1N / 380V-415V ~ Inverter ~ 3N	
Rated water temperature		°C	Hot water: 55C / heating:45C / cooling:12C		
Rated water flow		m³/h	1.6	2.1	2.8
Refrigeration		/	R410	R410a	R410a
Rated of waterproof		/	IPX4	IPX4	IPX4
Control mode		/	Heating,Cooling,DHW, Heating+DHW,Cooling+DHW		
	Form	/	Double-rotor type	Double-rotor type	Double-rotor type
Compressor	Quantity	/	1	1	1
	Brand	/	Mitsubishi	Mitsubishi	Mitsubishi
	Net size	mm	1050*470*970	1050*470*970	1050*470*1345
Outdoor unit	Weight	Kg	100	110	140
	Nosie level	dB(A)	≤50	≤50	≤52
Heat exchanger		/	Sweden SWEP Plate heat exchanger		
Fan	Form		Full DC fan motor		
Auxiliary Element	built-in	KW	3	3	3
Circulation pump	built-in	/	√	√	√
Expansion tank	built-in	L	5	5	5
Ambient temperature		°C	(-25℃ -- 43℃)	(-25℃ -- 43℃)	(-25℃ -- 43℃)
Pipe diameter			DN25	DN25	DN25
Packing size		mm	1090*490*1100	1090*490*1100	1090*490*1480
20" container loading		pcs	44	44	22
40" container loading		pcs	88	88	44
WI-FI function		/	√	√	√
ErP Energy class		/	35℃A+++/ 55℃A++	35℃A++/ 55℃A+	35℃A+++/ 55℃A++

Parameter

Model Name			NL-BKDX60-220II/R	NL-BKDX80-300II/R	NL-BKDX100-400II/R
Rated heating capacity		KW	5.6~22	7.2~30	9~40
Rated hot water capacity		KW	5.2~21.5	7.0~29.5	8~39
Rated cooling capacity		KW	5.6~16	7.0~23	9~30
Heating power consumption		KW	2.5~6.6	3.2~8.3	4~10
Hot water power consumption		KW	2.5~6.6	3.2~8.3	4~10
Cooling power consumption		KW	2.5~6.6	3.2~8.3	4~10
Voltage		V/Hz	220V~1N / 380V~3N~Inverter	380V-415V ~ Inverter ~ 3N	
Rated water temperature		°C	Hot water: 55C / heating:45C / cooling:12C		
Rated water flow		m³/h	3.3	5	6
Refrigeration		/	R410a	R410a	R410a
Rated of waterproof		/	IPX4	IPX4	IPX4
Control mode		/	Heating,Cooling,DHW, Heating+DHW,Cooling+DHW		
	Form	/	Double-rotor type	Double-rotor type	Double-rotor type
Compressor	Quantity	/	1	1	1
	Brand	/	Mitsubishi	Mitsubishi	Mitsubishi
	Net size	mm	1050*470*1345	1161*476*1550	1161*476*1550
Outdoor unit	Weight	Kg	145	170	198
	Nosie level	dB(A)	≤52	≤58	≤59
Heat exchanger		/	Sweden SWEP Plate heat exchanger		
Fan	Form		Full DC fan motor		
Auxiliary Element	built-in	KW	3	/	/
Circulation pump	built-in	/	√	/	/
Expansion tank	built-in	L	5	8	8
Ambient temperature		°C	(-25℃ -- 43℃)	(-25℃ -- 43℃)	(-25℃ -- 43℃)
Pipe diameter			DN25	DN32	DN32
Packing size		mm	1090*490*1480	1200*545*1675	1200*545*1675
20" container loading		pcs	22	16	16
40" container loading		pcs	44	36	36
WI-FI function		/	√	√	√
ErP Energy class		/	/	35℃A+++/ 55℃A++	/

Pioneer Series

Electric Heater

EVI

Expansion Tank

Circulating Pump

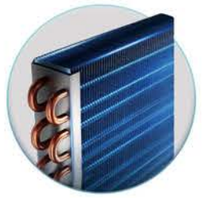
Parameter

Model Name			NL-BKDX30-95II/R32	NL-BKDX40-150II/R32	NL-BKDX50-200II/R32
Rated heating capacity		KW	2.8~10	3.8~16	5.5~21
Rated hot water capacity		KW	2.5~9.5	3.5~15.5	4.5~20
Rated cooling capacity		KW	2.5~7.5	3.8~11	4.8~14.5
Heating power consumption		KW	1~3.2	1.5~5.0	2~5.5
Hot water power consumption		KW	1~3.2	1.5~5.0	2~5.5
Cooling power consumption		KW	1~3.2	1.5~5.0	2~5.5
Voltage		V/Hz	220V-240V - Inverter- 1N	220V-240V - Inverter- 1N & 380V-415V ~ Inverter ~ 3N	
Rated heating water temperature		°C	DHW: 55℃ / Heating: 45℃ / Cooling: 12℃		
Rated water flow		m³/h	1.7	2.7	3.5
Refrigeration		/	R32	R32	R32
Rated of waterproof		/	IPX4	IPX4	IPX4
Control mode		/	Heating / Cooling / DHW / Heating+DHW/ Cooling+DHW		
Compressor	Form	/	Double-rotor type	Double-rotor type	Double-rotor type
	Quantity	/	1	1	1
	Brand	/	Japanese Panasonic brand with Inverter + EVI technology		
Outdoor unit	Net size	mm	1050*460*838	1050*460*1343	1050*460*1343
	Weight	Kg	100	130	150
	Nosie level	dB(A)	≤49	≤50	≤52
Heat exchanger		/	Sweden SWEP Plate heat exchanger		
Fan	Form	/	Full DC fan motor		
Fan motor		PCS	1	2	2
Auxiliary Element	built-in	KW	3	3	3
Circulation pump	built-in	Wilo	RS-15/6	RS-25/8	RS-25/8
Expansion tank	built-in	L	2	5	5
Ambient temperature		°C	(-25℃ -- 43℃)	(-25℃ -- 43℃)	(-25℃ -- 43℃)
Pipe diameter			DN25	DN25	DN25
Packing size		mm	1100*480*1000	1100*480*1500	1100*480*1500
ErP Energy class		/	35℃A+++/ 55℃A++	35℃A+++/ 55℃A++	35℃A+++/ 55℃A++
20"GP container loading		pcs	48	24	24
40"HQ container loading		pcs	96	48	48

Parameter

Model Name			NL-BKDX80-300II/R32	NL-BKDX100-400II/R32
Rated heating capacity		KW	7.2~31	9~40
Rated hot water capacity		KW	7.0~30.5	8~39
Rated cooling capacity		KW	7.0~23.5	9~30
Heating power consumption		KW	3.2~8.4	4~10
Hot water power consumption		KW	3.2~8.4	4~10
Cooling power consumption		KW	3.2~8.4	4~10
Voltage		V/Hz	380V-415V ~ Inverter ~ 3N	
Rated heating water temperature		°C	DHW: 55℃ / Heating: 45℃ / Cooling: 12℃	
Rated water flow		m³/h	6	7
Refrigeration		/	R32	R32
Rated of waterproof		/	IPX4	IPX4
Control mode		/	Heating / Cooling / DHW / Heating+DHW/ Cooling+DHW	
Compressor	Form	/	Double-rotor type	Double-rotor type
	Quantity	/	1	1
	Brand	/	Japanese Panasonic brand with Inverter + EVI technology	
Outdoor unit	Net size	mm	1215*490*1558	1215*490*1558
	Weight	Kg	180	185
	Nosie level	dB(A)	≤58	≤59
Heat exchanger		/	Sweden SWEP Plate heat exchanger	
Fan	Form	/	Full DC fan motor	
Fan motor		PCS	2	2
Auxiliary Element	built-in	KW	/	/
Circulation pump	built-in	Wilo	/	/
Expansion tank	built-in	L	5	5
Ambient temperature		°C	(-25℃ -- 43℃)	(-25℃ -- 43℃)
Pipe diameter			DN40	DN40
Packing size		mm	1295*520*1720	1295*520*1720
ErP Energy class		/	35℃A+++/ 55℃A++	/
20"GP container loading		pcs	16	16
40"HQ container loading		pcs	36	36

Compressor



Huge Evaporator With Strong Heating Exchanging Ability

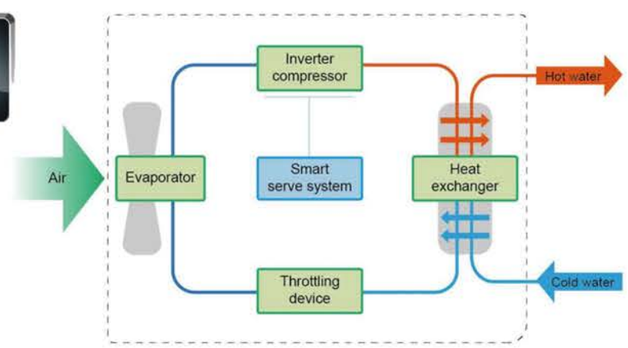
The Evaporator Has 40% Larger Heat Exchange Area Than Other Suppliers. Ensure That The Strong Heating Capacity Can Be Output Stably In The Ultra-Low Temperature.

Full Dc Inverter Ultra-Quite Fan Motor With Greater Air Flowing Volume

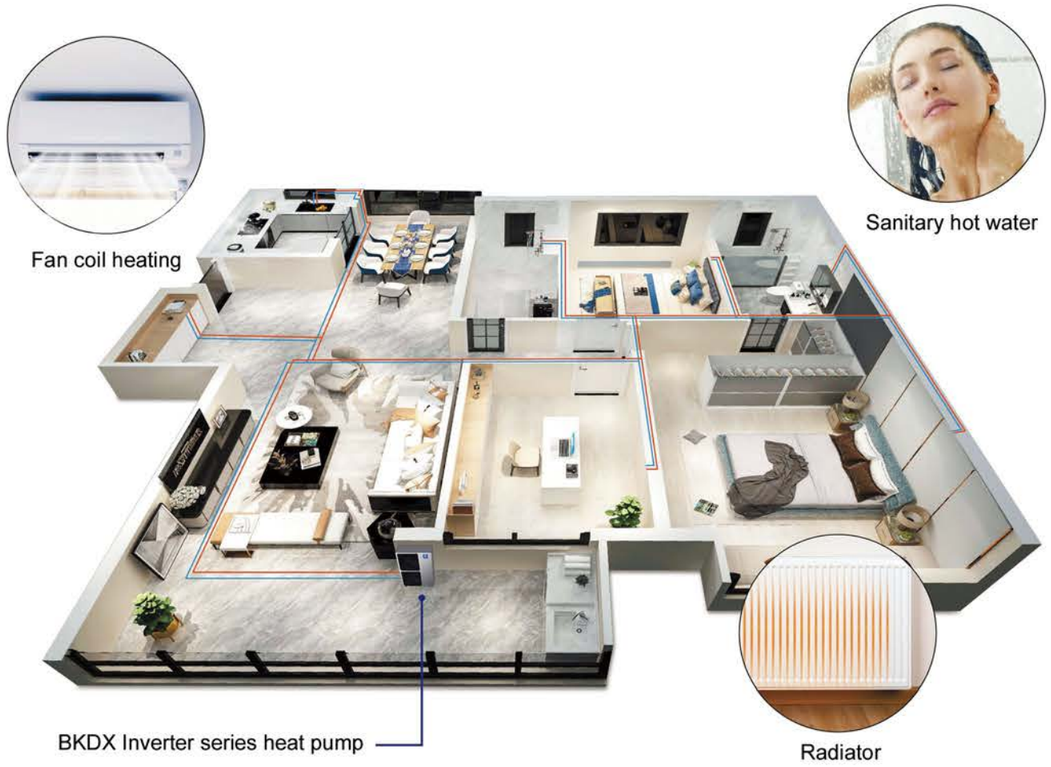
The Overall air Flow Rate Will Also Be Greatly Increased Speeding Up The Heat Transfer Rate.

DC Inverter Technology

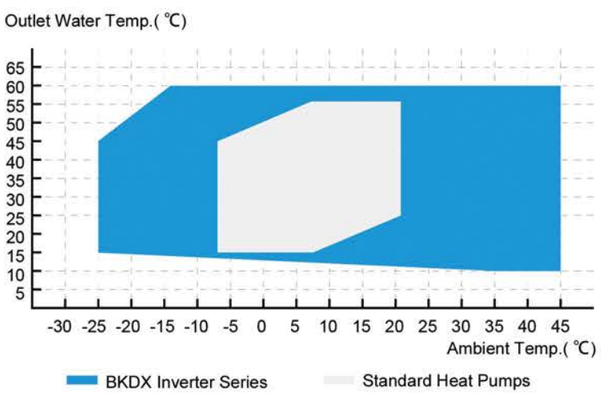
Adopting Mitsubishi Inverter Dedicated Compressor. Which Designed For The Low Temperature Operation Specially,-25°C Running Stably



Eco-Friendly Application

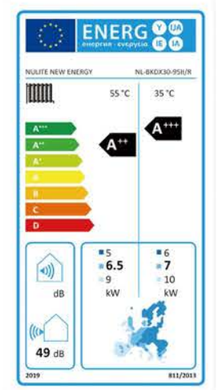


Multi-Protection,Long Service Life



Water Temp.up to 60°C,75%energy saving

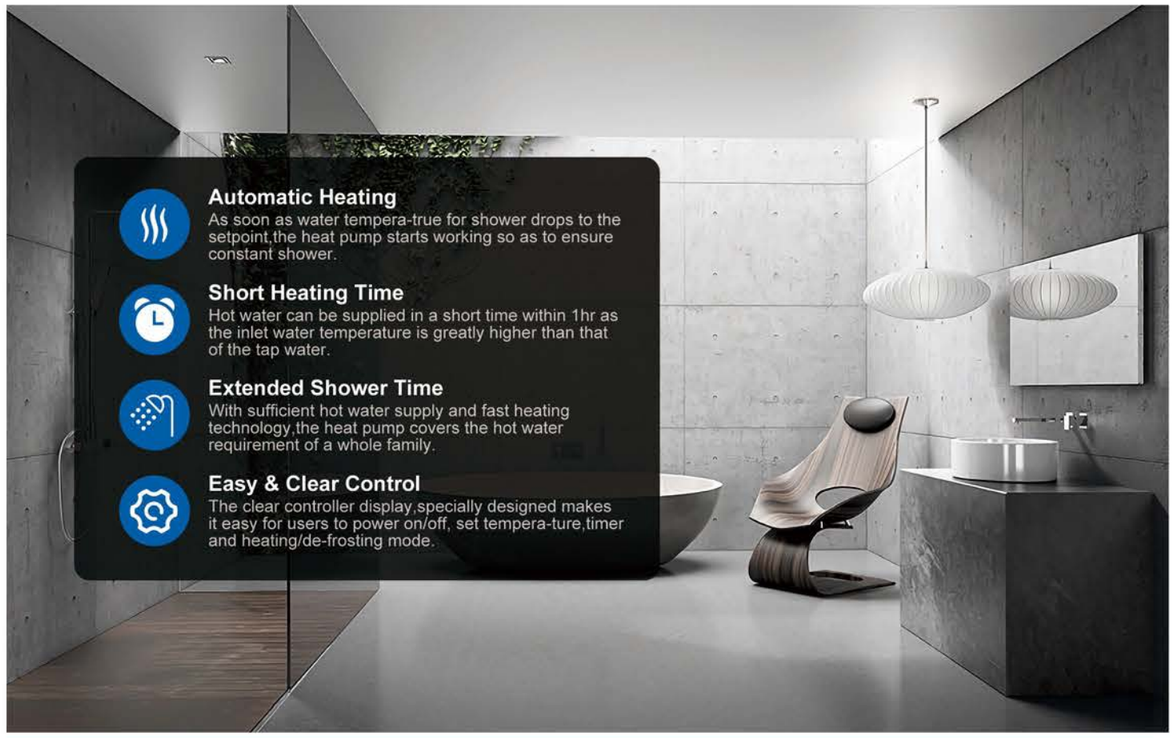
Thanks to dc inverter technology,BKDX inverter series features a wide operating temperature.It means they can reach high temperature 60°C even in cold climate ranging from -25°C to 43°C,and can work safety and high efficiency.



High COP

Adopting R32 refrigerant and circulating heating method,BKDX Inverter Series heat pump is able to keep its energ yefficiency high.

Provide You Trouble-free Shower



Automatic Heating
As soon as water tempera-true for shower drops to the setpoint,the heat pump starts working so as to ensure constant shower.

Short Heating Time
Hot water can be supplied in a short time within 1hr as the inlet water temperature is greatly higher than that of the tap water.

Extended Shower Time
With sufficient hot water supply and fast heating technology,the heat pump covers the hot water requirement of a whole family.

Easy & Clear Control
The clear controller display,specially designed makes it easy for users to power on/off, set tempera-ture,timer and heating/de-frosting mode.

Advanced Performance

Water Flow Switch Protection
When water inlet volume is low, the unit stops to protect the system.When the water volume recovers,the unit starts working again.

High/Low Pressure Protection
High/Low pressure switches will switch off the heat pump automatically to protect the whole system when the pressure is over high/low.

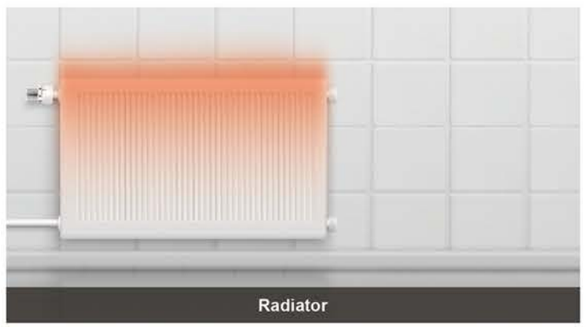
Antifreezing Protection
When the unit is standby and water inlet temp. is lower than 4°C but higher than 2°C,the water pump starts up to protect the system.

High Discharging Temp. Protection
When the compressor discharging temp.is higher than 110°C,the unit will not work until the temperature is lower than 85°C

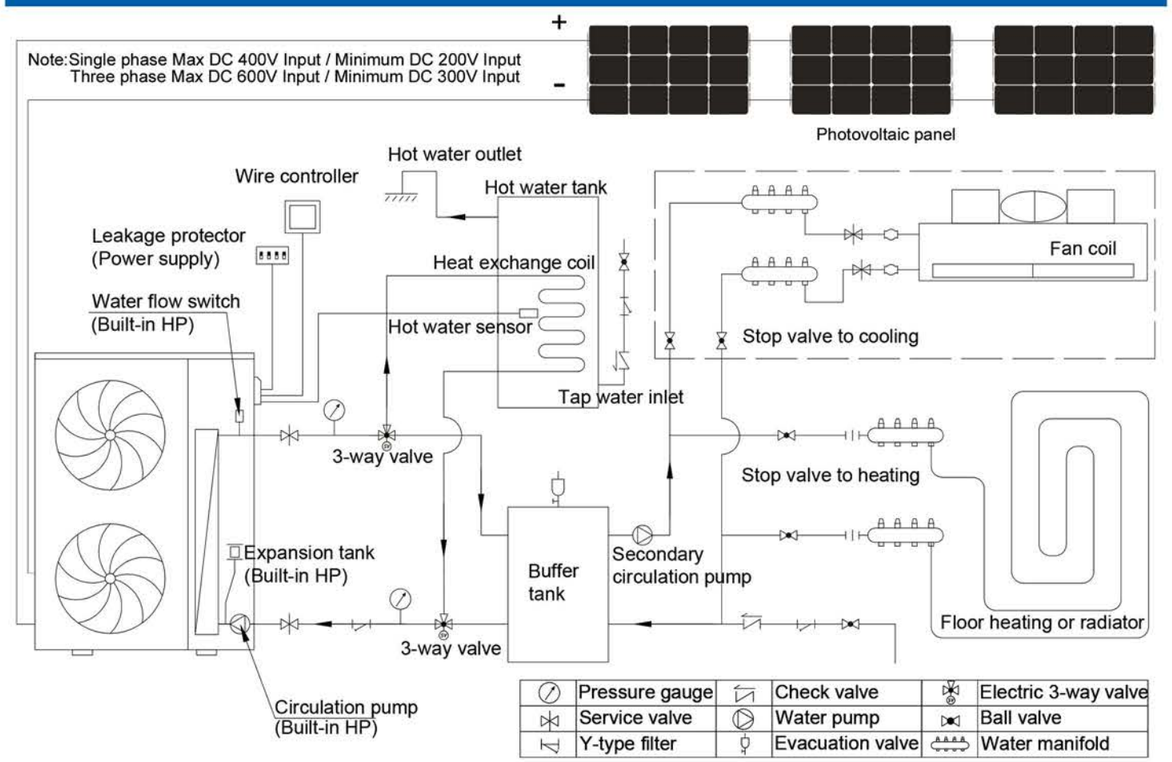
Compressor Overload Protection
When the compressor is working overload,the unit will stop working to protect the whole system.

Smart Control
The full touch HD display specially desighed makes it easy for users to set the heat pumpMulti-language will fit for different markets.

Application



Production installation



R32/R410a Split Type DC Inverter Heat Pump

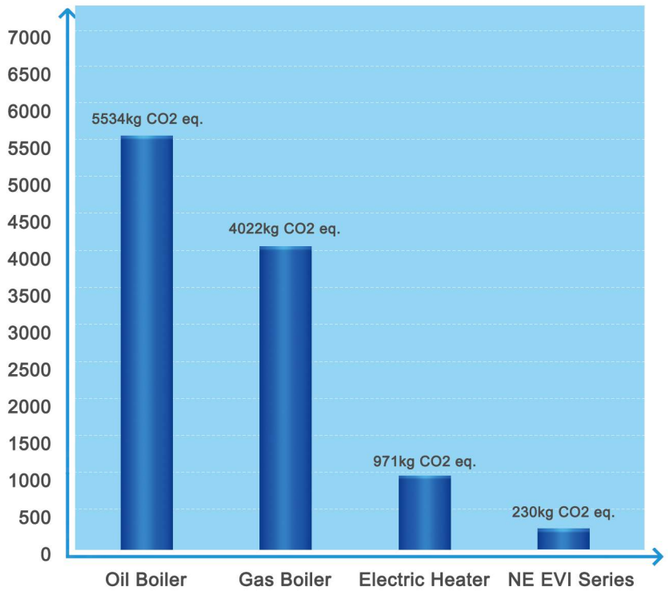
The Piloteer of European Inverter 3 in 1 Heat Pump

- Multi-language controller
- WI-FI function
- Heating/Cooling/DHW/Heating+DHW/Cooling+DHW
- With RS485 signal connection
- With Linked switch signal connection
- 3 ways valve signal connection
- Bulit-in inverter water pump
- Bulit-in 3KW electric heater
- Bulit-in expansion tank
- More multifunctional connection

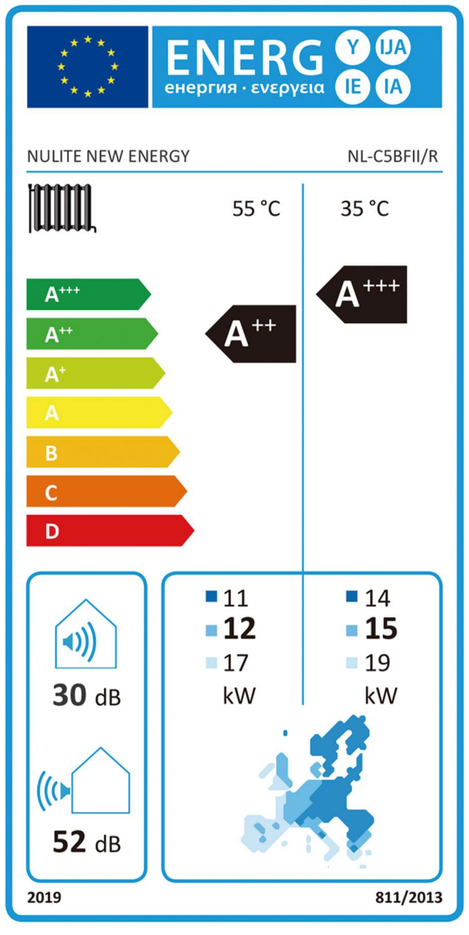
Split DC Inverter Heat Pump

- R32/R410a refrigerant, with Mitsubishi 10Hz~120Hz double rotor DC Inverter compressor, lower noise but more efficient.
- Split system with better heating conditions. Well defrosting function and high working stability.
- Simple controlling system for using.
- Intelligent EEV achieve higher working performance. Standby after the temperature reaches the setting value,80%+energy saving.
- With inverter technology. the unit could be started with lower current without big compact on the power grid which can reduce the indoor electrical interference being used. Service life could be extended 15 years.

Co2 Emissions For Various Heating Systems



Annual GHG emissions (kg CO2eq.) - Heating only(Victoria, Canada)		
Fuel	Cop	CO2 Emission from Building 1500 ft2 (140m2)
Electricity	0.95	971
Gas	0.84	4022
Oil	0.84	5534
Data provided by CGC		



Product Advantages


Electric Heater


Expansion Tank


Inverter Pump

Multi-Language Controller

Controller Panel

Creative And Detail-oriented

Adapting intelligent temperature compensation technology, the unit can adjust the setting temperature according to the ambient temperature to provide hot water with comfortable temperature for you.

With strong-countercurrent design, the patented C&S heat exchanger is conductive to improving the efficiency and reliability of the unit.

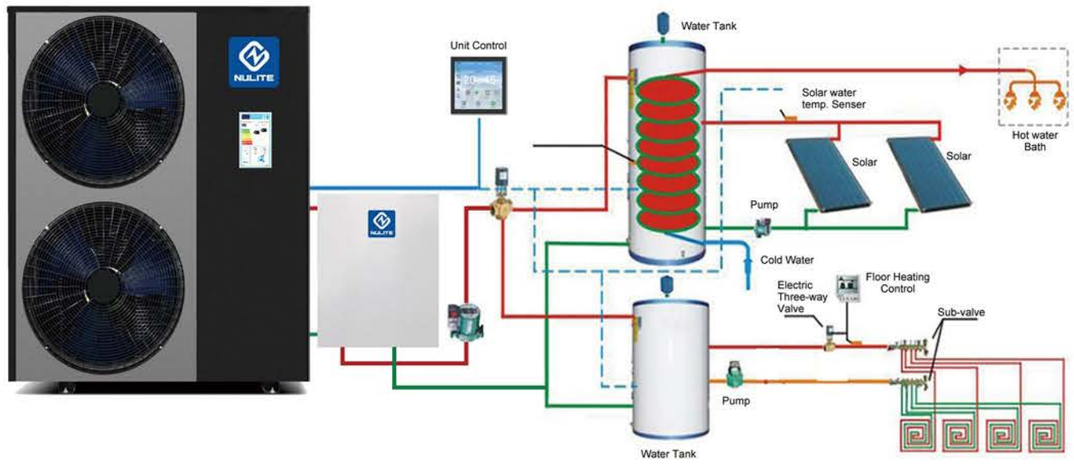
Inverter compressor ensures the unit operate safely at low ambient temperature with higher efficiency and lower noise.

The use of stepless speed fan motor can adjust the fan speed according to different working conditions and broaden the application range of the unit.

conditions and broaden the application range of the unit.stronger anti-corrosion feature and performs higher efficiency.

The world famous brand electronic expansion valve controls the volume of the refrigerant accurately and reduces energy consumption.

Production Installation



Parameter

NL-C3BFII/R,NL-C4BFII/R

NL-C5BFII/R

Model Name			NL-C3BFII/R	NL-C4BFII/R	NL-C5BFII/R
Rated heating capacity		KW	2.8~10	3.8~15.5	4.5~20
Rated hot water capacity		KW	2.5~9.5	3.5~15	4.0~19.5
Rated cooling capacity		KW	2.5~7.5	3.8~11	4.5~14.5
Heating power input		KW	1~3.2	1.5~4.5	2~5.7
Hot water power input		KW	1~3.2	1.5~4.5	2~5.7
Cooling power input		KW	1~3.2	1.5~4.5	2~5.7
Voltage		V/Hz	220V~Inverter~1PH	220V~1PH/380V~3PH~Inverter	
Rated output water temperature		°C	Hot water 55℃ / Heating 45℃ / Cooling 12℃		
Rated water flow		m³/h	1.6	2.1	2.8
Refrigeration		/	R32/R410a	R32/R410a	R32/R410a
Rated of waterproof		/	IPX4	IPX4	IPX4
Control mode		/	Microcomputer central processor (Touch controller)		
Compressor	Form	/	Double-rotor type	Double-rotor type	Double-rotor type
	Quantity	PCS	1	1	1
	Brand	/	Mitsubishi Inverter	Mitsubishi Inverter	Mitsubishi Inverter
Outdoor unit	Net size	mm	1050*470*970	1050*470*970	1050*470*1343
	Weight	Kg	88	94	115
	Nosie level	dB(A)	≤49	≤50	≤52
Fan	Form	/	Brushless DC motor	Brushless DC motor	Brushless DC motor
Indoor unit	Auxiliary Element	KW	3	3	3
	Heat exchanger	/	SWEP Plate heat exchanger	SWEP Plate heat exchanger	SWEP Plate heat exchanger
	Build-in water pump	/	√	√	√
	Expansion tank	L	5	5	5
	Weight	Kg	43	44	44
	Net size	mm	500*300*774	500*300*774	500*300*774
Ambient temperature		°C	(-25℃ -- 43℃)	(-25℃ -- 43℃)	(-25℃ -- 43℃)
Inlet / Outlet pipe diameter		/	DN25	DN25	DN25
Loading quantity of 20GP		PCS	48	48	24
Loading quantity of 40HQ		PCS	96	96	48

DC Inverter Household
All In One Heat Pump

- 2KW heater build in.
- R32 new compressor.
- WI-FI function.
- Heating,Cooling,DHW functions.
- Linked switch signal connection.
- RS485 signal connection.
- 3-way valves signal connection.

Mitsubishi DC Inverter Compressor

Dual rotor
Dc inverter

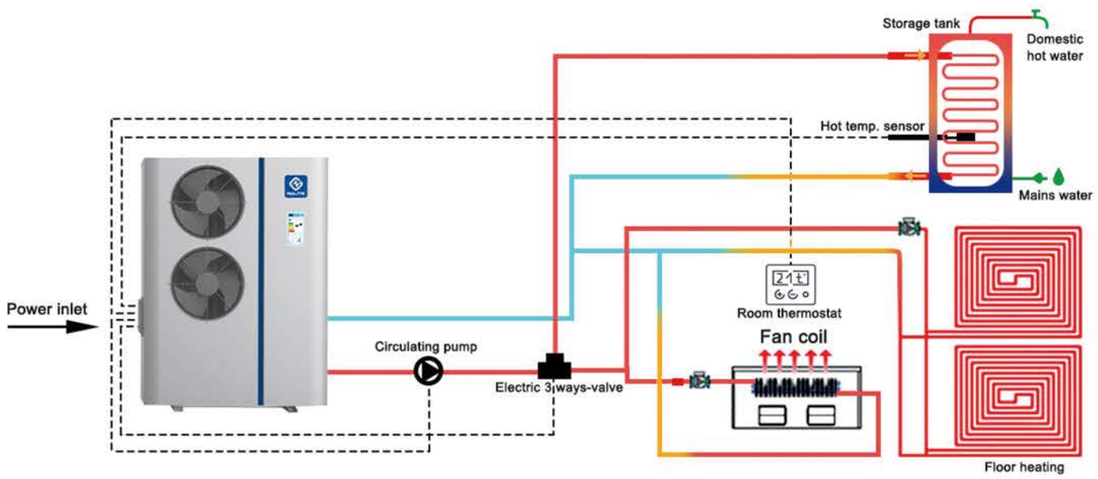
R32
Refrigerant

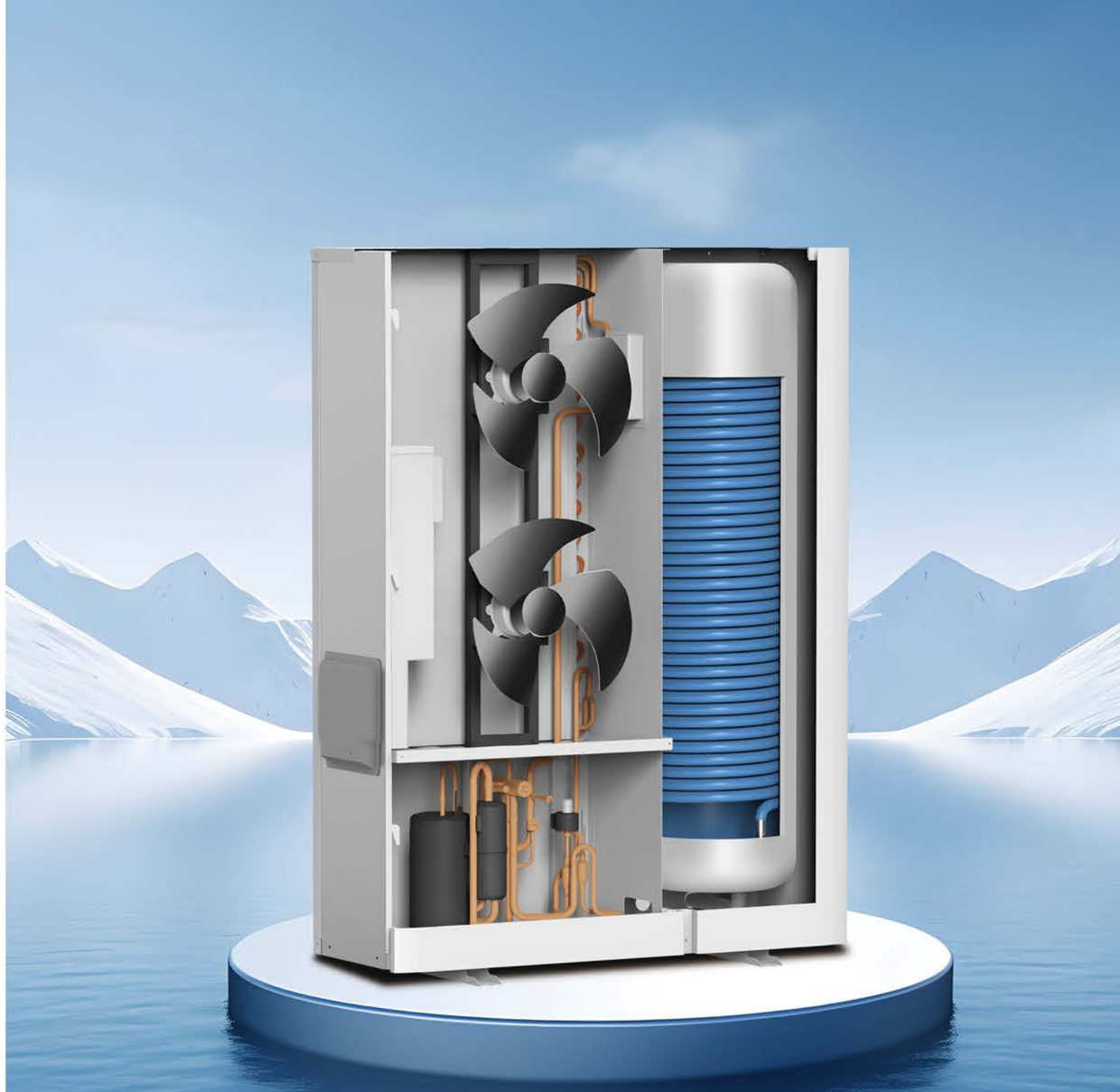
-25℃
Operation

200%
Heat Output

Quickly heating&energy saving,automatic to change the power input, adapted dual-rotor balance technology,operation peaceful,low noise and longer life time.Stably running down to -25°C,heating capacity output increased 200% in low temperature.

Production Installation





Huge evaporator with strong heating exchanging ability

The evaporator has 40% larger heat exchange area than other suppliers. Ensure that the strong heating capacity can be output stably in the ultra-low temperature.

Ultra-quiet double fans with greater air flowing volume

The design of double fan reduces the noise by 20% compared with single fan. The overall air flow rate will also be greatly increased, speeding up the heat transfer rate.

Application

Floor Heating

Shower

Hot water

Radiator

Touch Screen Control

WiFi App Control

The bedroom

Living Room

Bathroom

The kitchen

Parameter

NL-B245II/R32,NL-B300II/R32

NL-B345II/R32

Model Name			NL-B245II/R32	NL-B300II/R32	NL-B345II/R32
Rated heating capacity		KW	3~8.5	3.5~9.5	5~12.5
Rated hot water capacity		KW	3~8	3.5~9.5	5~12
Rated cooling capacity		KW	2.5~5	2.8~5.3	4~7
Heating power consumption		KW	1~2.5	1.15~2.65	1~4
Hot water power consumption		KW	1~2.5	1.15~2.6	1~4
Cooling power consumption		KW	1~2.2	1.15~2.35	1~3.5
Voltage		V/Hz	220V~240V~Inverter~1N	220V~240V~Inverter~1N	220V~240V~Inverter~1N
Rated heating water temperature		°C	Hot water: 55°C / Heating:45°C / Cooling:12°C		
Rated water flow		m^3/h	1.5	1.5	1.8
Rated of waterproof		/	IPX4	IPX4	IPX4
Control mode		/	Heating,Cooling,DHW, Heating+DHW,Cooling+DHW		
Motherboard control signal output		/	Linked switch, RS485, Electric 3-way valve, Water pump.		
Refrigeration and volume		/	R32/1300g	R32/1500g	R32/1800g
Compressor	Form	/	Double-rotor type	Double-rotor type	Double-rotor type
	Quantity	/	1	1	1
	Brand	/	Mitsubishi Inverter	Mitsubishi Inverter	Mitsubishi Inverter
Outdoor unit	Net size	mm	900*350*1250	900*350*1250	975*350*1350
	Weight	Kg	90	92	110
	Nosie level	dB(A)	≤50	≤50	≤50
Fan	Form	/	Smart fan motor	Smart fan motor	Smart fan motor
Operation ambient temperature		°C	(-25°C - 43°C)	(-25°C - 43°C)	(-25°C - 43°C)
Water tank heat exchanger		Liter	70	70	80
Water tank working pressure		MPa	≤0.8	≤0.8	≤0.8
Inlet pipe diameter		mm	DN20	DN20	DN20
Outlet pipe diameter		mm	DN20	DN20	DN20
Packing size		mm	1020*470*1500	1020*470*1500	1085*470*1600
20" container loading		PCS	24	24	24
40" container loading		PCS	50	50	50
Auxiliary Element built-in		KW	2	2	2
WI-FI function		/	√	√	√
ErP Energy class		/	35°C A++ / 55°C A+	35°C A+++ / 55°C A++	35°C A+++ / 55°C A++

Geothermal Water Source DC Inverter Heat Pump

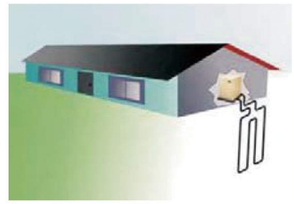
- Multi-language controller
- WI-FI function
- Heating/Cooling/DHW/Heating+DHW/Cooling+DHW
- With RS485 signal connection
- With Linked switch signal connection
- 3 ways valve signal connection
- Dual water sensors control
- Brand new design
- R32 dc inverter Mitsubishi compressor
- R290 dc inverter Panasonic compressor
- More multifunctional connection

Multi-language Controller

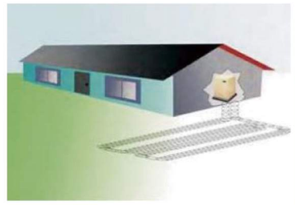
Controller Panel

Product Application

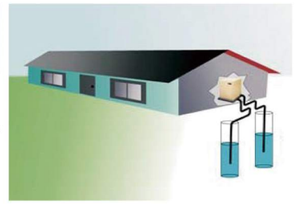
Pool / Lake / River Loop



Vertical Ground Loop



Horizontal Ground Loop

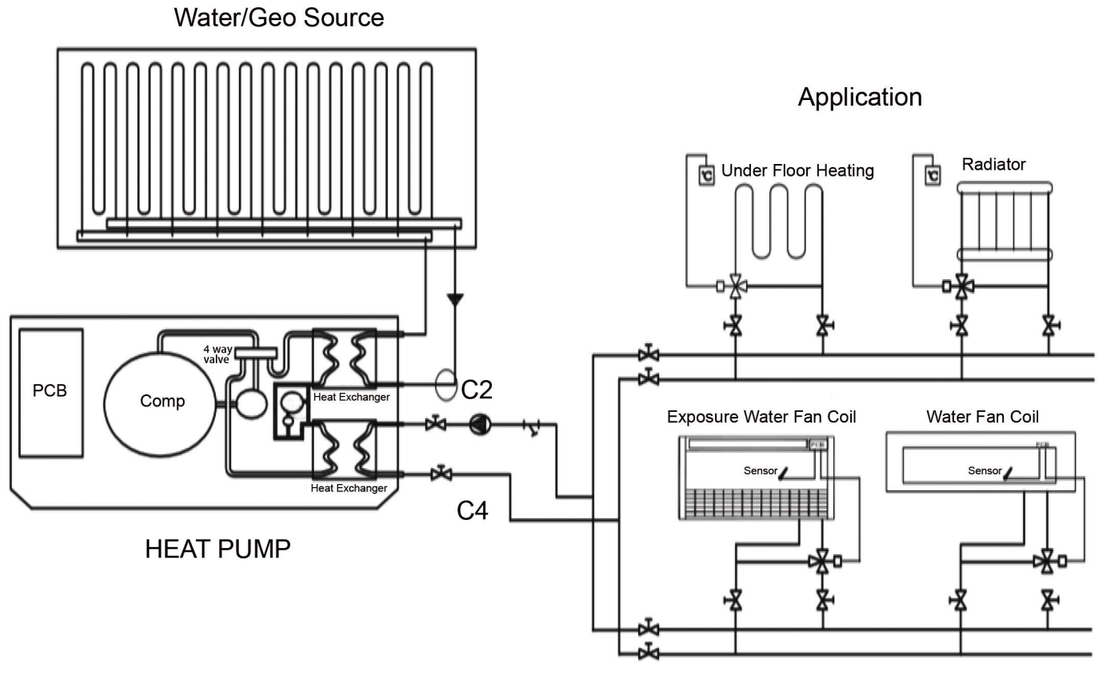


Open Loop Well System

Installation diagram

Nulite Water Source Heat Pump saves more energy than other heating/cooling solutions because it makes full use of free energy in the surrounding environment. In summer, it works with cooling tower for space cooling.While in winter, it uses the geothermal energy for space heating.

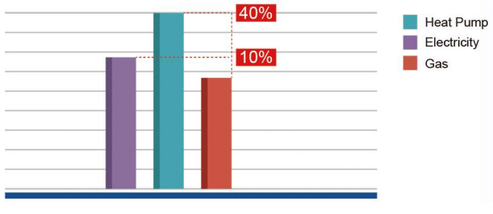
- C2 Water source side water pump
- C4 Water pump for DHW and AC
- C5 AC assistant water pump.



Product Advantage

Flexible Installation

Nulite Water Cooled Package Unit is installed with small space without any indoor terminals. It's no necessity for users to build an equipment room for them.



Make the Best Use of Energy

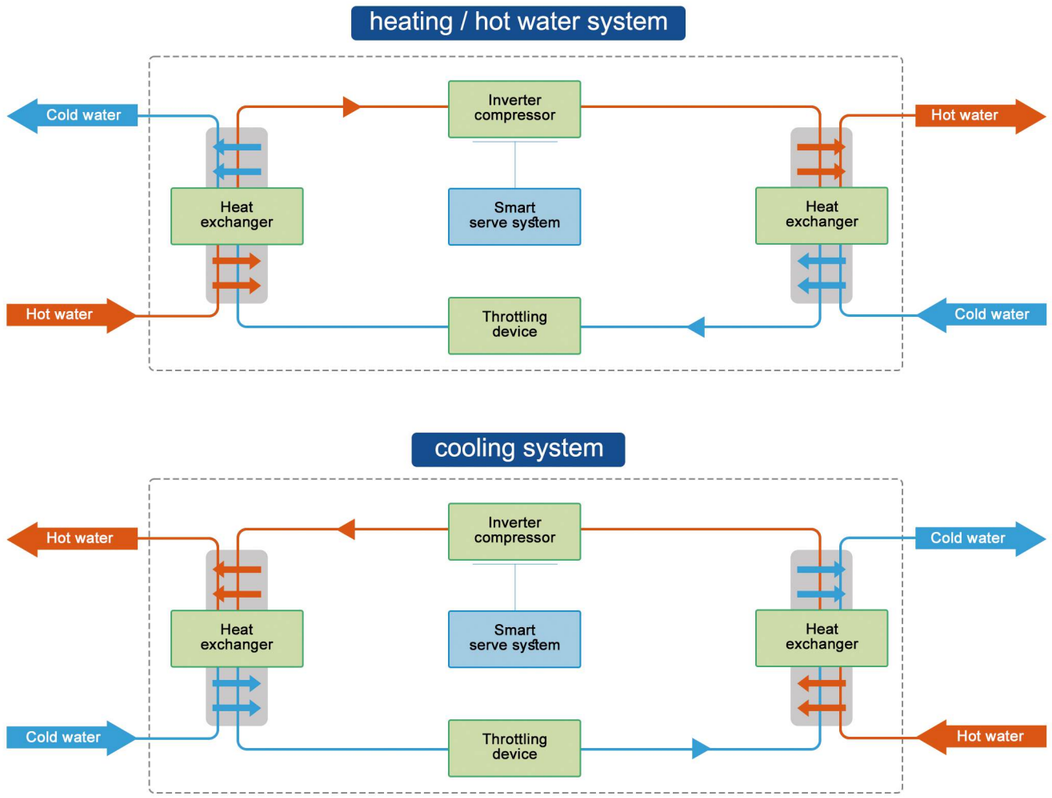
Nulite Water Cooled Package Unit can make full use of cooling tower, ground source, solar panel or industrial waste heat. Unlike normal air conditioning devices, Water Cooled Package Unit is affected very little by climate change. It helps users to save energy as much as 40%.

Separate Monitor, Separate Electricity Bills

The units are installed separately in every room with their own cooling/heating controller. Users can control the running of every unit separately which is convenient for them to calculate the electricity bill for each room.

Product Application

Working Principle

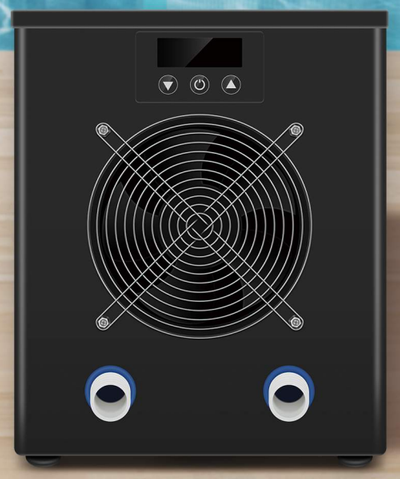


Parameter

Model Name			NL-G2SII/R32	NL-G3SII/R32	NL-G5SII/R32	NL-G6SII/R32	NL-G8SII/R32	NL-G10SII/R32
Heating Capacity Range		KW	2-11	4-13	6-18	10-23	13-28	16-36
Heating (W10/7°C,W30/35°C)	Heating Capacity	KW	10.6	12.5	17.6	22.7	27.8	35.3
	Power Input	KW	1.85	2.13	2.89	3.77	4.69	5.85
	COP	W/W	5.72	5.86	6.08	6.02	5.93	6.03
Heating (W0/-3°C,W30/35°C)	Heating Capacity	KW	7.74	9.15	12.67	16.21	20.15	25.56
	Power Input	KW	1.69	1.91	2.67	3.47	4.34	5.44
	COP	W/W	4.57	4.8	4.75	4.67	4.64	4.70
Heating (W10/7°C,W40/45°C)	Heating Capacity	KW	9.04	10.8	15.2	19.45	23.9	30.1
	Power Input	KW	1.80	2.30	2.84	3.75	4.59	5.87
	COP	W/W	5.02	4.69	5.35	5.19	5.21	5.13
Cooling (W30/35°C,W23/18°C)	Cooling Capacity	KW	10.5	12.4	16.8	21.5	26.65	33.52
	Power Input	KW	1.82	2.34	2.83	3.72	4.65	5.94
	EER	W/W	5.76	5.54	5.93	5.78	5.73	5.64
Rated water flow	(User side)	m³/h	1.70	2.0	2.8	3.6	4.5	5.6
Rated water flow	(Source side)	m³/h	3.0	3.6	4.82	6.2	7.6	9.6
Rated voltage		V	230	230	230(400)	230(400)	400	400
Compressor (Mitsubishi)		/	SVB172FNPMC	SVB220FLGMC	MVB42FCBMC	MVB42FCBMC	LVB53FCAMC	LVB65FCAMC
4-way valve(Saginomiya)		/	STF-H0218	STF-H0218	STF-H0408	STF-H0408	STF-0750G	STF-0750G
Electronic expansion valve(Saginomiya)		/	UKV14D204	UKV18D213	UKV25D205	UKV25D205	UKV32D210	UKV32D210
Net Dimensions (LW/H)		mm	670*545*830	670*545*830	670*545*830	670*545*830	800*572*1070	800*572*1070
Packaging Dimensions (LW/H)		mm	726*481*945	726*481*945	726*481*945	726*481*945	856*598*1184	856*598*1184

Model Name			NL-G2S/R290	NL-G3S/R290	NL-G5S/R290	NL-G6S/R290
Heating Capacity Range		KW	2-11	4-14	6-19	10-23
Heating (W10/7°C,W30/35°C)	Heating Capacity	KW	10.3	13.38	18.62	22.64
	Power Input	KW	1.72	2.38	3.25	4.08
	COP	W/W	5.98	5.62	5.73	5.55
Heating (W10/7°C,W40/45°C)	Heating Capacity	KW	9.59	12.76	16.61	19.92
	Power Input	KW	2.02	2.75	3.65	4.35
	COP	W/W	4.75	4.64	4.55	4.58
Heating (W0/-3°C,W30/35°C)	Heating Capacity	KW	7.73	9.65	13.35	16.17
	Power Input	KW	1.65	2.23	2.98	3.76
	COP	W/W	4.68	4.32	4.48	4.30
Cooling (W30/35°C,W23/18°C)	Cooling Capacity	KW	10.30	13.21	17.52	20.71
	Power Input	KW	1.90	2.58	3.35	4.10
	EER	W/W	5.42	5.12	5.23	5.05
Rated water flow	(User side)	m³/h	1.8	2.3	3.2	3.8
Rated water flow	(Source side)	m³/h	3.0	3.6	4.9	6.3
Rated voltage		V	230	230	230(400)	230(400)
Compressor		/	Panasonic R290			
4-way valve & EEV		/	Saginomiya			
Heat exchanger type		/	Plate heat exchanger			
Net Dimensions (LW/H)		mm	670×454×830	670×454×830	670×454×830	670×454×830
Packaging Dimensions (LW/H)		mm	726×481×945	726×481×945	726×481×945	726×481×945

R32 Mini Spa Pool Air Source Heat Pump



Parameter

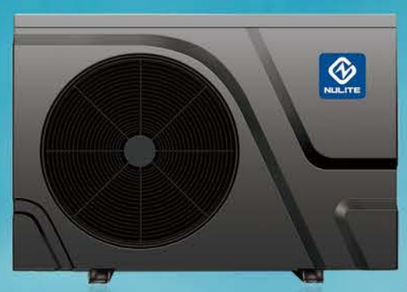
Model Name		NL-M10Y/32	NL-M15Y/32	NL-M18Y/32	NL-M22Y/32
Advised pool volume		5~15	10~20	12~22	12~25
Power source		220V~240V ~50hz ~1 phase			
Operating ambient temp		(7℃ ~ 43℃)			
Casing type		Galvanized steel case			
Funtions		Heating only			
Refrigerant		R32	R32	R32	R32
Heating: (Air 26℃	Capacity(KW)	2.91	4.2	5.2	6.5
Water 26℃/	Power input(KW)	0.58	0.83	1.07	1.32
Humidity 80%)	COP (W/W)	4.98	5.04	4.89	4.88
Heating: (Air 15℃	Capacity (KW)	1.80	2.86	4.08	5.06
Water 26℃/	Power input (KW)	0.55	0.76	1.04	1.29
Humidity 70%)	COP (W/W)	3.29	3.79	3.92	3.91
Max Current (A)		3.68	3.79	3.92	3.91
Power cable (mm²)		Rubber cable with RCD main plug (Plug & play)			
Circuit breaker (A)		9	12	24	28
Sound pressure@2M dB(A)		48	49	49	49
Compressor type		Rotary			
Condenser		Horizontal type spiral titanium tube in PVC			
Evaperator		Hydrophilic aluminium fins & copper tubes			
Fan type		Horizontal			
Fan quantity		1 PCS			
Advised water flow (m3/h)		1~2	1~2	1.5~2.5	2~3
Water connection (mm)		32	32	38	38
Unit dimensions (W*D*H) (mm)		305*303*367	369*327*440	440*440*490	440*440*490
Packing dimensions (W*D*H) (mm)		400*370*430	435*420*510	530*520*550	530*520*550
Net weight (KG)		19.5	27.0	36.0	40.0
Gross weight (KG)		20.5	30.8	42.0	46.0

R32 DC Inverter Swimming Pool Heat Pump

Swimming Pool Heating/Cooling Application Expert

Application

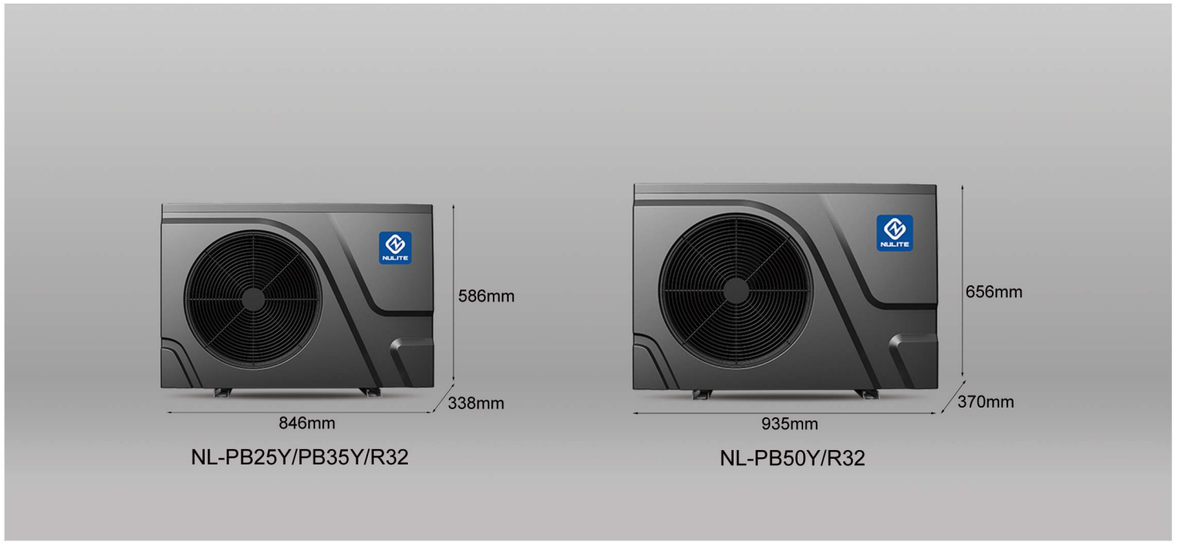
▼ NL-PBY32



▼ NL-PGY32

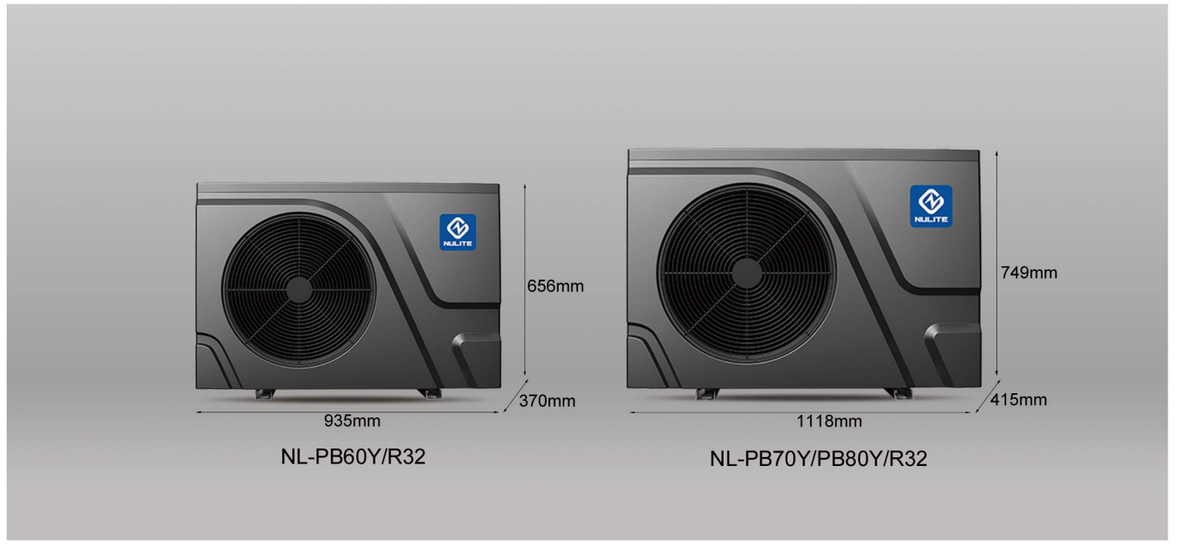
Seal Inverter Series

Parameter



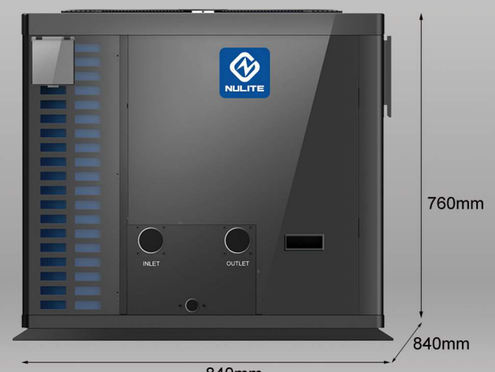
Model Name		NL-PB25Y/32	NL-PB35Y/32	NL-PB50Y/32
Heating: (Air 26℃	Capacity(KW)	7.64	10.20	16.30
Water 26℃/	Power input(KW)	0.13~1.27	0.20~1.63	0.32~2.77
Humidity 80%)	COP (W/W)	16.16~6.23	14.50~6.26	14.50~5.89
Heating: (Air 15℃	Capacity（KW)	5.48	7.20	12.00
Water 26℃/	Power input（KW)	0.14~1.17	0.22~1.42	0.37~2.69
Humidity 70%)	COP (W/W)	7.62~4.67	6.84~5.07	8.26~4.46
Advised pool volume		15~40	20~50	35~70
Power source		220V~240V ~50hz ~1 phase		
Operating ambient temp		(-12℃ ~ 43℃)		
Casing type		ABS Plastic		
Funtions		Heating & Cooling		
Refrigerant		R32	R32	R32
Max Current (A)		7.2	9.0	16.0
Power cable (mm²)		3x2.5	3x2.5	3x4.0
Circuit breaker （A)		9	12	18
Sound pressure@1M dB(A)		36~46	38~49	41~50
Sound pressure@2M dB(A)		20~26	21~30	23~31
Compressor type		Twin-rotary DC Inverter		
Condenser		Spiral titanium tube in PVC		
Evaperator		Hydrophilic aluminium fins & copper tubes		
Fan type		DC motor fan - Horizontal		
Fan quantity		1 PCS		
Advised water flow (m3/h)		2~3	3~4	5~7
Water connection (mm)		50	50	50
Unit dimensions (W*D*H) (mm)		846*338*586	846*338*586	935*370*656
Packing dimensions (W*D*H) (mm)		930*430*640	930*430*640	995*435*720
Net weight (KG)		34.3	35.2	47.8
Gross weight (KG)		38.3	39.0	52.0

Parameter



Model Name		NL-PB60Y/32	NL-PB70Y/32	NL-PB80Y/32
Heating: (Air 26℃	Capacity(KW)	18.40	21.20	25.20
Water 26℃/	Power input(KW)	0.35~3.07	0.41~3.41	0.48~4.25
Humidity 80%)	COP (W/W)	14.98~5.99	14.70~6.22	14.62~5.93
Heating: (Air 15℃	Capacity（KW)	14.30	16.50	18.40
Water 26℃/	Power input（KW)	0.44~3.2	0.49~3.64	0.58~4.22
Humidity 70%)	COP (W/W)	8.26~4.47	8.25~4.53	8.27~4.36
Advised pool volume		40~80	45~90	50~100
Power source		220V~240V ~50hz ~1 phase		220V~1Ph/380V~3Ph/50hz
Operating ambient temp		(-12℃ ~ 43℃)		
Casing type		ABS Plastic		
Funtions		Heating & Cooling		
Refrigerant		R32	R32	R32
Max Current (A)		17.5	19.0	21.5/13.5
Power cable (mm²)		3x4.0	3x6.0	3x6.0/5x6.0
Circuit breaker （A)		20	22	28 /16
Sound pressure@1M dB(A)		42~51	43~53	44~55
Sound pressure@2M dB(A)		24~32	25~36	26~37
Compressor type		Twin-rotary DC Inverter		
Condenser		Spiral titanium tube in PVC		
Evaperator		Hydrophilic aluminium fins & copper tubes		
Fan type		DC motor fan - Horizontal		
Fan quantity		1 PCS		
Advised water flow (m3/h)		6~8	7~9	8~10
Water connection (mm)		50	50	50
Unit dimensions (W*D*H) (mm)		935*370*656	1118*415*749	1118*415*749
Packing dimensions (W*D*H) (mm)		990*435*720	1180*530*850	1180*530*850
Net weight (KG)		54.3	67.3	74.5
Gross weight (KG)		58.3	74.5	81.5

Parameter



NL-PG90Y/PG104Y/R32

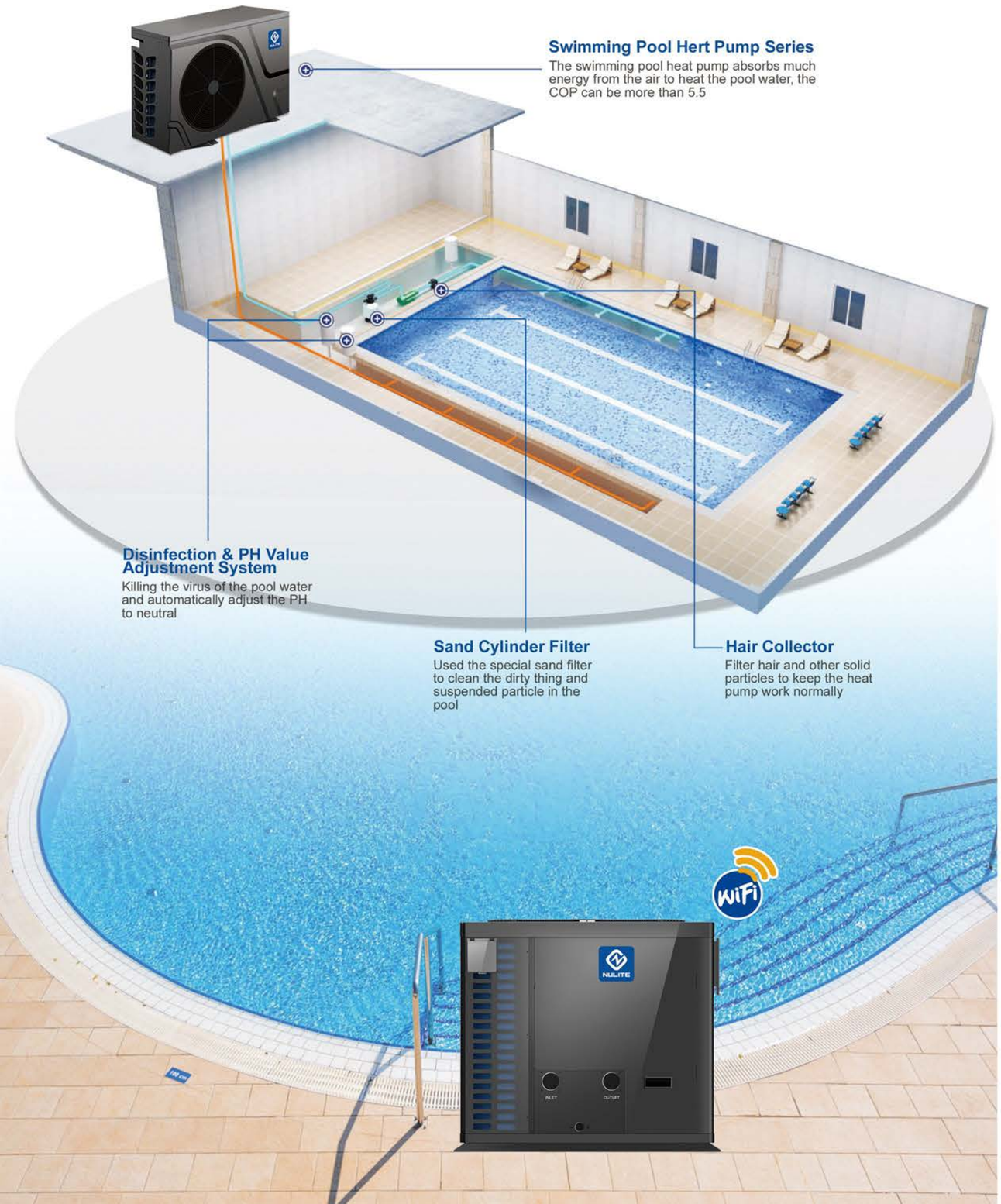
Model Name		NL-PG90Y/32	NL-PG104Y/32
Function		Cooling & Heating	
Technology		Full Inverter & WIFI Included	
Advised pool volume (m³)		50~100	60~120
Power supply		230V~/1 PH/50Hz	
Operating ambient temp（℃）		(-12℃ ~ 43℃)	
Casing type		Galvanized Steel Case	
Refrigerant		R32	
Heating: (Air 26℃	Capacity(KW)	28	32
Water 26℃/	Power input(KW)	0.52~4.25	0.59~4.93
Humidity 80%)	COP (W/W)	13.6~6.58	13.8~6.49
Heating: (Air 15℃	Capacity（KW)	22.5	25.5
Water 26℃/	Power input（KW)	0.72~4.75	0.83~5.45
Humidity 70%)	COP (W/W)	7.82~4.75	7.8~4.69
Max Current(A)		28.50	30.00
Power cord (mm²)		3x6.0	3x10.0
Advised water flow (m3/h)	Advised water flow	8~10	10~12
Sound pressure @1m		46~57 dB(A)	
Compressor type		Twin-rotary DC Inverter	
Condenser		Spiral titanium tube in PVC	
Evaperator		Hydrophilic aluminium fins & copper tubes	
Fan type		DC motor fan-Ver tical	
Fan qty		1	
Net weight（kg）	Net weight	109	114
Gross weigh（kg）		139	145
Unit dimensions (W*D*H)	Unit dimensions (W*D*H)	50~100	60~120
Net size / packing size (W*D*H)		840*840*760 mm / 925*920*895 mm	
Loading qty.(20'GP/40'HQ)		24/78	

Parameter

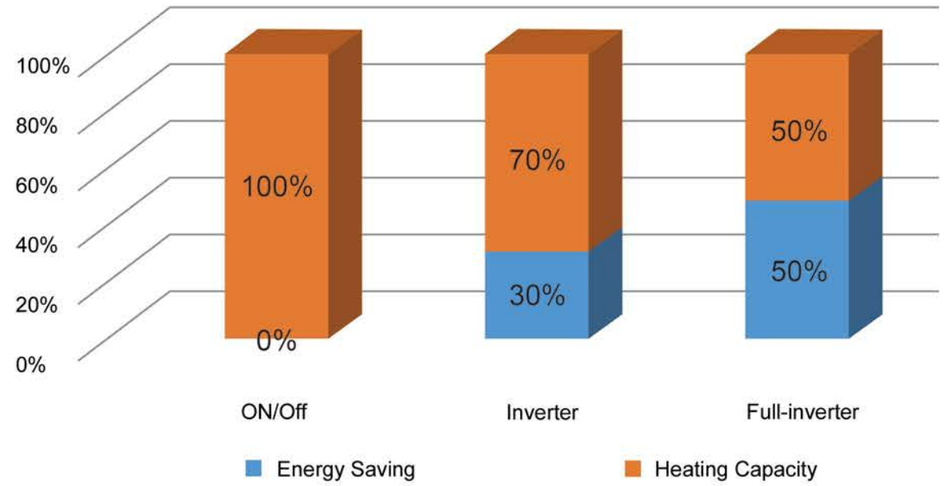
NL-PG120Y/PG140Y/R32

Model Name		NL-PG120Y/32	NL-PG140Y/32
Function		Cooling & Heating	
Technology		Full Inverter & WIFI Included	
Advised pool volume (m³)		70~140	90-180
Power supply		380V~/ 3 PH/ 50Hz	
Operating ambient temp（℃）		(-12℃ ~ 43℃)	
Casing type		Galvanized Steel Case	
Refrigerant		R32	
Heating: (Air 26℃	Capacity(KW)	38.5	42.3
Water 26℃/	Power input(KW)	0.7~6.14	1.11-7.05
Humidity 80%)	COP (W/W)	13.7~6.27	13.98~6.01
Heating: (Air 15℃	Capacity（KW)	31.2	33.9
Water 26℃/	Power input（KW)	0.99~6.64	1.1~7.38
Humidity 70%)	COP (W/W)	7.76~4.7	8.15~4.6
Max Current(A)		14.00	16
Power cord (mm²)		5x6.0	5x6.0
Advised water flow (m3/h)	Advised water flow	12~14	13~15
Sound pressure @1m		46~57 dB(A)	
Compressor type		Twin-rotary DC Inverter	
Condenser		Spiral titanium tube in PVC	
Evaperator		Hydrophilic aluminium fins & copper tubes	
Fan type		DC motor fan-Ver tical	
Fan qty		1	
Net weight（kg）	Net weight	119	122.5
Gross weigh（kg）		150	154
Unit dimensions (W*D*H)	Unit dimensions (W*D*H)	70~140	90-180
Net size / packing size (W*D*H)		840*840*760 mm / 925*920*895 mm	
Loading qty.(20'GP/40'HQ)		24/78	

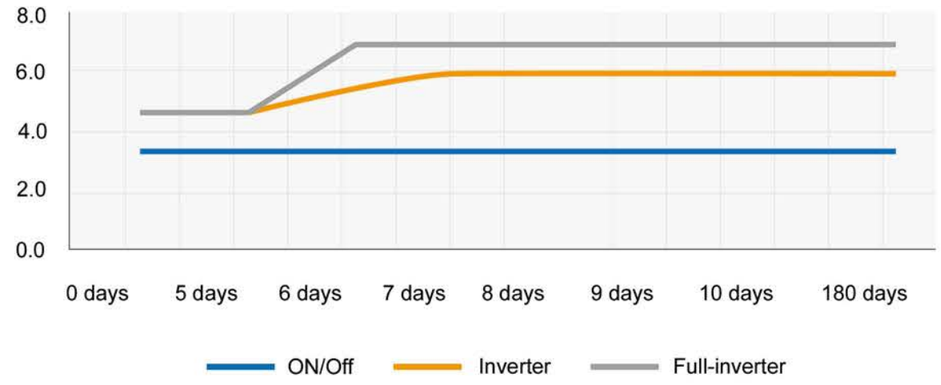
Installation Diagram



Comparison Of Energy Saving



Cop During 180 Days



Household Domestic Hot Water Expert

All in one heat pump water heater

All-in-one Heat Pump Water Heater

Energy saving, health, safety

Comparing with other normal electricity powered water heater,it saves up to 75% energy, and its bacteriostasis and scale removal function help to make the daily usage safer to users.

Separated water and electricity,muitiple protections

Separated water and electricity, high pressure protection, high exhaust protection, over- current protection, high temperature protection,anti-freeze and defrost, high water pressure protection.

All year long hot water supply, comfortable in constant temperature

Hot wator running throughout the year, 24 hours, influenced by no bad weathers, central supplying - multiplied outlets.

Full dimensional advection heat exchange technology

Full dimensional contact heat exchange, multi stream path, high efficiency thermal conductive silicone grease seamless bonding.

Special compressor for heat pump

Special well-known compressor of heat pump; more efficient, faster in heating.

Application

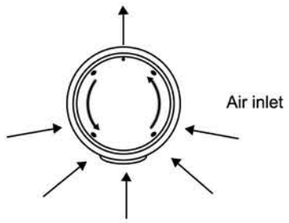

Shower


Bath

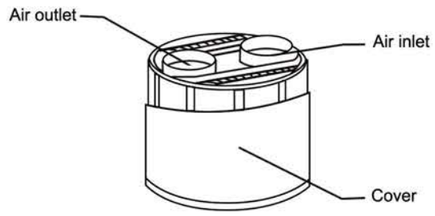

Kitchen

Blow Design

▶ The air will come from the side and blow out from the back



▶ The air will come from the top and blow out from the top

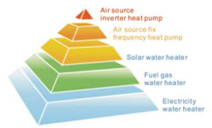


Tank Design

Parameter

Model Name		NL-FR1.0/EN150	NL-FR1.0/EN200	NL-FR1.0/EN250	NL-FR1.0/EN300
Heating capacity	kw	1.8	1.8	2.42	2.42
Water tank Volume	L	150	200	250	300
Hot water production	L/h	39	39	52	52
Power supply	V/Hz/Ph	220～240V/50/1	220～240V/50/1	220～240V/50/1	220～240V/50/1
Rated outlet water temp	℃	55	55	55	55
Max outlet water temperature	℃	75	75	75	75
Rated input power	W	470	470	623	623
Current	A	1.85	1.85	2.3	2.3
Auxiliary electric heating	W	2000	2000	2000	2000
E-heating current	A	9.1	9.1	9.1	9.1
Refrigerant	/	R134a	R134a	R134a	R134a
Compressor	/	GMCC		Panasonic	
Four-way valve	/	SHF-4	SHF-4	SHF-4	SHF-4
Motor	/	YDK25/32	YDK25/32	YDK25/32	YDK25/32
Centrifugal fan	/	φ190	φ190	φ190	φ190
High pressure switch	Mpa	3.0~2.4	3.0~2.4	3.0~2.4	3.0~2.4
low pressure switch	MPa	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15
Ambient temperature	℃	－7～45	－7～45	－7～45	－7～45
Waterproof protection level	/	IPX4	IPX4	IPX4	IPX4
Product cabinet	/	Galvanized powder coated steel			
Material of water tank	/	Enamel tank			
Heat exchanger type	/	Extemal coil			
Evaporator	/	Hydrophilic aluminum foil			
Throttling device	/	Electrical expansion valve			
Wire controller	/	Digital screen, touch buttons			
Pipe diameter	inch	G1/2"	G1/2"	G3/4"	G3/4"
Built-in pressure protection	MPa	0.8MPa	0.8MPa	0.8MPa	0.8MPa
Product Dimensions	mm	φ570*1515	φ570*1800	φ640*1800	φ640*2020
Packing Dimensions	mm	645*645*1700mm	645*645*1990mm	740*740*1980mm	740*740*2220mm
Net Weight	Kg	85	98	117	132
Noise	dB(A)	≤48	≤48	≤48	≤51

Advantages



80% Energy-Saving

It can improve its performance by absorbing the heat from the air,
and compared with electric water heaters, it can save 80% of electricity.

Safety And Environmental

It is a water and electricity separation system, which is more stable and safe to use.
It does not use oil, it won't cause environmental pollution, and more environmentally friendly.

Central Hot Water,Comfortable

Its maximum hot water temperature is 60/75 degrees, and it can be used as a central hot water system, which is more convenient and comfortable.

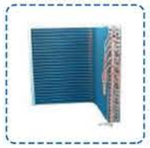
Parameter

Model Name			NL-B1.0S-P	NL-B1.5S-P	NL-B2.0S	NL-B3.0S
Rated heating capicity		KW	3.5	5.1	7.2	10.3
Input power		KW	0.86	1.24	1.79	2.55
Voltage (V)		V/Hz	220V-240V ~ 50Hz			
Rated output water temperature		°C	55°C			
Max output water temperature		°C	60°C or 75°C			
Rated output water quantity (L)		L	76	109	145	225
Refrigeration			R290 / R134A / R32 / R410a			
Control mode			Microcomputer central processor (linear control)			
Compressor	Form		Rotation type			
	Quantity		1			
	Brand		Panasonic			
Outdoor unit	Net size	mm	772*323*496	898*402*538	942*372*548	1010*401*622
	Weight	Kg	56	63	67	100
	Nosie level	dB(A)	<53			
Fan	Form		internal rotor motor, plastic leaves			
Ambient temperature			(-10℃ ~ 43℃)			
Inlet pipe diameter			3/4"			
Outlet pipe diameter			3/4"			
Wilo water pump build-in			Optional			

Component

Compressor

Panasonic / GMCC compressor super energy saving,R290/R134A/R32/R410A refrigerant stably work in -10°C ambient



Evaporator

Hydropilic Aluminium oiland internal thread copper pipe heat exchanger

Heat Exchanger

Tube in shell heat exchanger purple copper material with high efficiency

High / Low Pressure Switch

Compressor inlet gas high/low pressure switch,protect compressor at over high/low pressure condition

Water Pump

You can choose whether to have a built-in water pump, and customize different con-figurations

4-Way Valve

4-way valve is for defrosting in winter

Green Refrigerant

R290/R134A refrigerant,no pollution friendly environment , Max water outlet can reach 75°C

Green Refrigerant

R32/R410A refrigerant,no pollution friendly environment , Max water outlet can reach 60°C

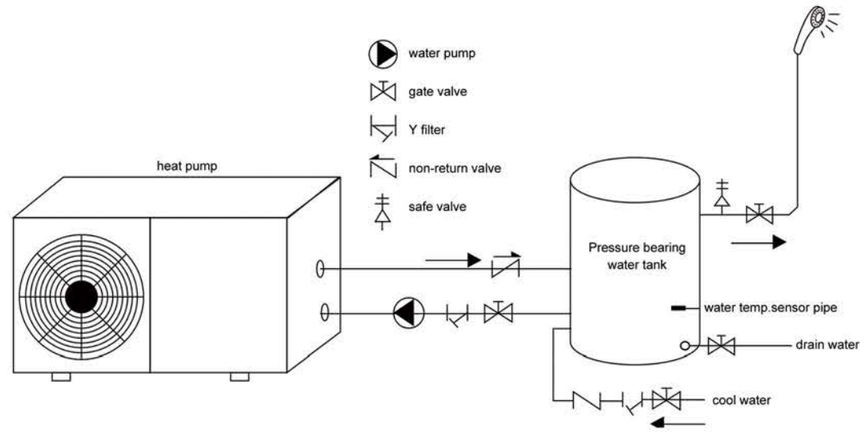
Installation

Energy Saving, Health, Safety

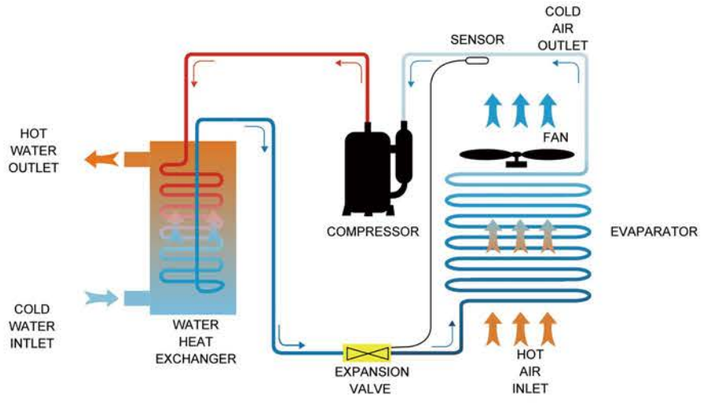
Comparing with other normal electricity powered water heater,it saves up to 75% energy, and its bacteriostasis and scale removal function help to make the daily usage safer to users.

Full dimensional advection heat exchange technology

Full dimensional contact heat exchange, multi stream path, high efficiency thermal conductive silicone grease seamless bonding.



Working Principle



Commercial Swimming Pool Heat Pump

Parameter

NL-B1.5Y　　NL-B2Y-B2.5Y　　NL-G3Y-G5Y-G6Y

Model Name			NL-B1.5Y	NL-B2Y	NL-B2.5Y	NL-G3Y
Rated heating capacity		KW	6.5	9	10.5	12.8
Rated cooling capacity		KW	4.55	6.3	7.35	8.96
Input power		KW	1.2	1.67	1.95	2.43
COP		W/W	5.42	5.39	5.38	5.27
Voltage		V/Hz	220V-240V / 50Hz / 1phase			
Heating water temperature		°C	Rated temperature : 26℃~28℃ , Max temperature : 40℃			
Cooling water temperature		°C	Rated temperature : 12℃~15℃ , Min temperature : 10℃			
Water flow		m³/h	2.5	3.4	4.3	5
Refrigeration		/	R410A			
Control mode		/	Microcomputer central processor (line control)			
Compressor	Form	/	Rotate type	Rotate type	Rotate type	Scroll type
	Quantity	/	1	1	1	1
	Brand	/	Panasonic	Panasonic	Panasonic	Copeland
Unit	Net size	mm	849*402*538	942*372*548	942*372*548	720*720*930
	Weight	Kg	60	65	80	95
	Nosie level	dB(A)	<48	<48	<48	<50
Fan	Form	/	Internal rotor motor, ABS plastic / Metal leaves			
Inlet pipe diameter		/	1.5”	1.5”	1.5”	1.5”
Outlet pipe diameter		/	1.5”	1.5”	1.5”	1.5”

Model Name			NL-G5Y	NL-G6Y	NL-G8Y	NL-G10Y
Rated heating capacity		KW	22.5	26.2	32	40.5
Rated cooling capacity		KW	15.7	18.3	23.5	30
Input power		KW	4.24	5.12	6.15	7.68
COP		W/W	5.31	5.12	5.2	5.27
Voltage		V/Hz	380V-400V / 50Hz / 3phase			
Heating water temperature		°C	Rated temperature : 26℃~28℃ , Max temperature : 40℃			
Cooling water temperature		°C	Rated temperature : 12℃~15℃ , Min temperature : 10℃			
Water flow		m³/h	8.7	13	17.5	17.5
Refrigeration		/	R410A			
Control mode		/	Microcomputer central processor (line control)			
Compressor	Form	/	Scroll type			
	Quantity	/	1	1	2	2
	Brand	/	Copeland			
Unit	Net size	mm	830*830*1100	830*830*1100	1520*800*1235	1520*800*1235
	Weight	Kg	125	138	250	265
	Nosie level	dB(A)	<55	<55	<60	<60
Fan	Form	/	Internal rotor motor, ABS plastic / Metal leaves			
Inlet pipe diameter		/	1.5”	1.5”	1.5”	1.5”
Outlet pipe diameter		/	1.5”	1.5”	1.5”	1.5”

Parameter

NL-G8Y-G10Y-G12Y-G15Y　　NL-G20Y-G24Y-G30Y　　NL-G40Y-G50Y-G60Y

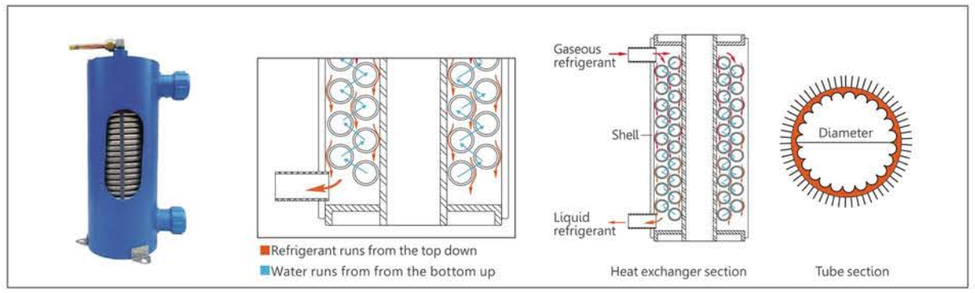
Model Name			NL-G12Y	NL-G15Y	NL-G20Y	NL-G24Y
Rated heating capacity		KW	48.6	65	85	101
Rated cooling capacity		KW	37.2	52.5	68.65	74.2
Input power		KW	9.35	12.5	16.35	19.6
COP		W/W	5.2	5.2	5.2	5.15
Voltage		V/Hz	380V-400V / 50Hz / 3phase			
Heating water temperature		°C	Rated temperature : 26℃~28℃ , Max temperature : 40℃			
Cooling water temperature		°C	Rated temperature : 12℃~15℃ , Min temperature : 10℃			
Water flow		m³/h	20.8	28	36.5	40
Refrigeration		/	R410A			
Control mode		/	Microcomputer central processor (line control)			
Compressor	Form	/	Scroll type			
	Quantity	/	2	2	2	2
	Brand	/	Copeland			
Unit	Net size	mm	1520*800*1235	1520*800*1235	2000*950*2060	2000*950*2060
	Weight	Kg	280	320	600	700
	Nosie level	dB(A)	<60	<60	<64.8	<64.8
Fan	Form	/	Internal rotor motor, ABS plastic / Metal leaves			
Inlet pipe diameter		/	1.5”	1.5”	3”	3”
Outlet pipe diameter		/	1.5”	1.5”	3”	3”

Model Name			NL-G30Y	NL-G40Y	NL-G50Y	NL-G60Y
Rated heating capacity		KW	120	165	196	238
Rated cooling capacity		KW	91	120	132	160
Input power		KW	23.5	32.2	37.5	46
COP		W/W	5.11	5.12	5.23	5.17
Voltage		V/Hz	380V-400V / 50Hz / 3phase			
Heating water temperature		°C	Rated temperature : 26℃~28℃ , Max temperature : 40℃			
Cooling water temperature		°C	Rated temperature : 12℃~15℃ , Min temperature : 10℃			
Water flow		m³/h	52.5	68.8	84	98
Refrigeration		/	R410A			
Control mode		/	Microcomputer central processor (line control)			
Compressor	Form	/	Scroll type			
	Quantity	/	2	4	4	4
	Brand	/	Copeland			
Unit	Net size	mm	2000*950*2060	2500*1250*2240	2500*1250*2240	2500*1250*2240
	Weight	Kg	850	1150	1350	1500
	Nosie level	dB(A)	<66	<68	<66	<68
Fan	Form	/	Internal rotor motor, ABS plastic / Metal leaves			
Inlet pipe diameter		/	3”	3”	3”	3”
Outlet pipe diameter		/	3”	3”	3”	3”

Advantage

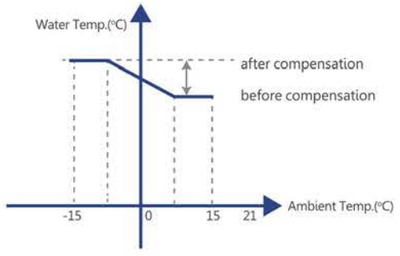
1.Patented Efficient Heat Exchanger

The patented high eficiency heat exchangers have a strong counter current design, and are helpful for refrigerant super-coling. Because the interspace between the shell and tubes is small, this leads to a larger flow, which makes oil return easy. Additionally, the large tube diameter prevents tubes from deposits and blocking.

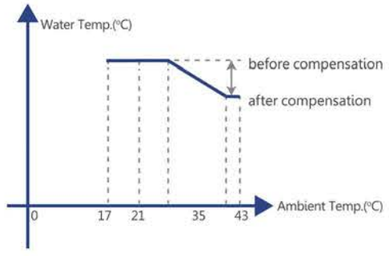


2.Temperature Compensation Technology

Automatic compensation technology can adjust water temperature according to the ambient temperature, which means you always feel comfortable, whether in winter or summer.



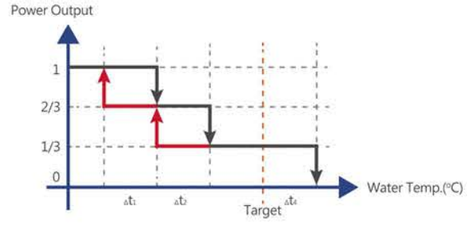
Heating Mode



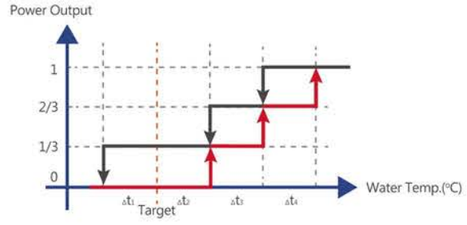
Cooling Mode

3.Compressor Interchange Control Logic

Compressor interchange control logic ensures only the energy required is delivered to the terminals with up to three compressors on or off, which provides you both comfortable temperatures and a longer service life of the units, while consuming less energy.



Heating Mode

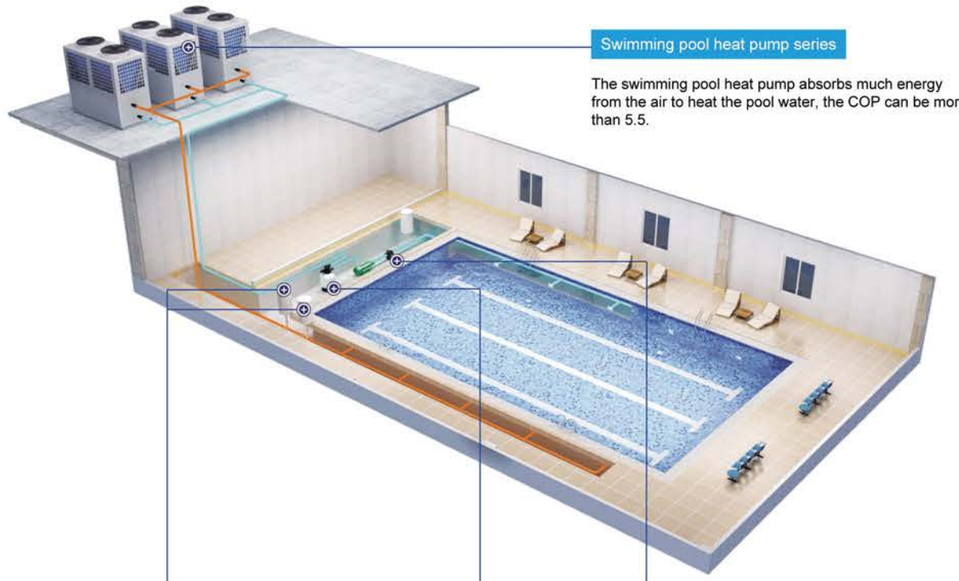


Cooling Mode

4.Anti-freeze Protection

With multiple anti-freezing protection, units can detect ambient temperature and outlet water temperature in real time, which helps avoid frost crack of water pipe and leakage, eventually leading units to longer and more stable operation..

Installation



Detailed Features

The world famous EEV (electronic expansion valve) is critical to PID control the volume of the refrigerant accurately and reduces energy consumption.

The compressors can be on or off according to the actual energy need. So the units are reliable and easy to control.

Air exchangers (fins-coi) with hydrophilic coating are strongly anti-corrosive and perform at high efficiency.

With strong countercurrent design, the patented C&S heat exchanger is conducive to improving the efficiency and reliability of the unit.

Commerical Hot Water Heat Pump Water Heater

For Central Hot Water / Heating System

60℃
Max Hot Water Temperature

-10℃
Ambient Temperature

Mercurius Series

Parameter

NL-G3B-G5B-G6B　　NL-G8B-G10B-G12B　　NL-G20B-G24B-G30B-G40B-G50B-G60B

Model Name	NL-G3B	NL-G5B	NL-G6B	NL-G8B	NL-G10B	NL-G12B
Power Source	220V/50Hz~380V/50Hz			380V/50Hz	380V/50Hz	380V/50Hz
Max Water Temp.	60℃	60℃	60℃	60℃	60℃	60℃
Heating Capacity	11.4KW	19.7KW	23KW	30.5KW	38.5KW	44.7KW
Rated Input Power	2.57KW	4.45KW	5.3KW	7.2KW	8.73KW	10.11KW
Max Input Power	3.72KW	6.4KW	7.63KW	9.8KW	12.57KW	14.56KW
Max Current	6.7A	11.4A	13.6A	17.5A	22.4A	26A
Water Flow	2m³/h	3.4m³/h	4.1m³/h	5.3m³/h	6.6m³/h	7.7m³/h
Noise Level	≤56dB(A)	≤58dB(A)	≤58dB(A)	≤62dB(A)	≤64dB(A)	≤64dB(A)
Refrigerant	R410a	R410a	R410a	R410a	R410a	R410a
Working ambient temp.	-10℃~43℃					
Pipe diameter	G1"	G1"	G1"	G1-1/2"	G1-1/2"	G1-1/2"
Net Size	720x720x930	830x830x1100	830x830x1100	1520x800x1235	1520x800x1235	1520x800x1235
Net Weight	95kg	125kg	138kg	250kg	265kg	280kg

Model Name	NL-G20B	NL-G24B	NL-G30B	NL-G40B	NL-G50B	NL-G60B
Power Source	380V/50Hz	380V/50Hz	380V/50Hz	380V/50Hz	380V/50Hz	380V/50Hz
Max Water Temp	60℃	60℃	60℃	60℃	60℃	60℃
Heating Capacity	72KW	90.3KW	115KW	140KW	180KW	230KW
Rated Input Power	18KW	20.3KW	27.8KW	36KW	41KW	56KW
Max Input Power	23.5KW	28.4KW	34.8KW	46KW	57KW	69KW
Max Current	41.9A	50.8A	62.3A	84A	106.4A	125A
Water Flow	13.5m³/h	15.5m³/h	19.5m³/h	28m³/h	32m³/h	41m³/h
Noise Level	≤68dB(A)	≤68dB(A)	≤70dB(A)	≤72dB(A)	≤74dB(A)	≤76dB(A)
Refrigerant	R410a	R410a	R410a	R410a	R410a	R410a
Working ambient temp.	-10℃~43℃					
Pipe diameter	G2"	G2"	G2"	G2-1/2"	G2-1/2"	G3"
Net Size	2000x950x2060	2000x950x2060	2000x950x2060	2500x1250x2240	2500x1250x2240	2500x1250x2240
Net Weight	600kg	700kg	850kg	1150kg	1350kg	1500kg

The specifications are based on: DB Temperature 20°C ,WB Temperature 15°C ,In/Out 15°C /55°C.

Notice: the above data is for reference only, the specific data is subject to actual product.

EVI Commerical Hot Water Heat Pump Water Heater

For Central Hot Water / Heating System

60℃
Max Hot Water Temperature

-25℃
Ambient Temperature

Parameter

Model Name	NL-G3D	NL-G5D	NL-G6D	NL-G8D	NL-G10D	NL-G12D
Power Source	220V/50Hz~380V/50Hz			380V/50Hz	380V/50Hz	380V/50Hz
Max Water Temp.	60℃	60℃	60℃	60℃	60℃	60℃
Heating Capacity	11.4KW	19.7KW	23KW	30.5KW	38.5KW	44.7KW
Rated Input Power	2.57KW	4.45KW	5.3KW	7.2KW	8.73KW	10.11KW
Max Input Power	3.72KW	6.4KW	7.63KW	9.8KW	12.57KW	14.56KW
Max Current	6.7A	11.4A	13.6A	17.5A	22.4A	26A
Water Flow	2m³/h	3.4m³/h	4.1m³/h	5.3m³/h	6.6m³/h	7.7m³/h
Noise Level	≤56dB(A)	≤58dB(A)	≤58dB(A)	≤62dB(A)	≤64dB(A)	≤64dB(A)
Refrigerant	R410a	R410a	R410a	R410a	R410a	R410a
Working ambient temp.	-25℃~43℃					
Pipe diameter	G1"	G1"	G1"	G1-1/2"	G1-1/2"	G1-1/2"
Net Size	720x720x930	830x830x1100	830x830x1100	1520x800x1235	1520x800x1235	1520x800x1235
Net Weight	95kg	125kg	138kg	250kg	265kg	280kg

Model Name	NL-G20D	NL-G24D	NL-G30D	NL-G40D	NL-G50D	NL-G60D
Power Source	380V/50Hz	380V/50Hz	380V/50Hz	380V/50Hz	380V/50Hz	380V/50Hz
Max Water Temp	60℃	60℃	60℃	60℃	60℃	60℃
Heating Capacity	72KW	90.3KW	115KW	140KW	180KW	230KW
Rated Input Power	18KW	20.3KW	27.8KW	36KW	41KW	56KW
Max Input Power	23.5KW	28.4KW	34.8KW	46KW	57KW	69KW
Max Current	41.9A	50.8A	62.3A	84A	106.4A	125A
Water Flow	13.5m³/h	15.5m³/h	19.5m³/h	28m³/h	32m³/h	41m³/h
Noise Level	≤68dB(A)	≤68dB(A)	≤70dB(A)	≤72dB(A)	≤74dB(A)	≤76dB(A)
Refrigerant	R410a	R410a	R410a	R410a	R410a	R410a
Working ambient temp.	-25℃~43℃					
Pipe diameter	G2"	G2"	G2"	G2-1/2"	G2-1/2"	G3"
Net Size	2000x950x2060	2000x950x2060	2000x950x2060	2500x1250x2240	2500x1250x2240	2500x1250x2240
Net Weight	600kg	700kg	850kg	1150kg	1350kg	1500kg

The specifications are based on: DB Temperature 20°C ,WB Temperature 15°C ,In/Out 15°C /55°C.

Notice: the above data is for reference only, the specific data is subject to actual product.

High Temperature Heat Pump Water Heater

For Central Hot Water / Heating System

75℃
Max Hot Water Temperature

-10℃
Ambient Temperature

Parameter

NL-G3G-G5G-G6G　　NL-G8G-G10G-G12G　　NL-G20G-G24G-G30G-G40G-G50G-G60G

Model Name	NL-G3G	NL-G5G	NL-G6G	NL-G8G	NL-G10G	NL-G12G
Power Source		220V/50Hz~380V/50Hz		380V/50Hz	380V/50Hz	380V/50Hz
Max Water Temp.	75℃	75℃	75℃	75℃	75℃	75℃
Heating Capacity	11.4KW	19.7KW	23KW	30.5KW	38.5KW	44.7KW
Rated Input Power	2.57KW	4.45KW	5.3KW	7.2KW	8.73KW	10.11KW
Max Input Power	3.72KW	6.4KW	7.63KW	9.8KW	12.57KW	14.56KW
Max Current	6.7A	11.4A	13.6A	17.5A	22.4A	26A
Water Flow	2m³/h	3.4m³/h	4.1m³/h	5.3m³/h	6.6m³/h	7.7m³/h
Noise Level	≤56dB(A)	≤58dB(A)	≤58dB(A)	≤62dB(A)	≤64dB(A)	≤64dB(A)
Refrigerant	R134a	R134a	R134a	R134a	R134a	R134a
Working ambient temp.			-10℃~43℃			
Pipe diameter	G1"	G1"	G1"	G1-1/2"	G1-1/2"	G1-1/2"
Net Size	720x720x930	830x830x1100	830x830x1100	1520x800x1235	1520x800x1235	1520x800x1235
Net Weight	95kg	125kg	138kg	250kg	265kg	280kg

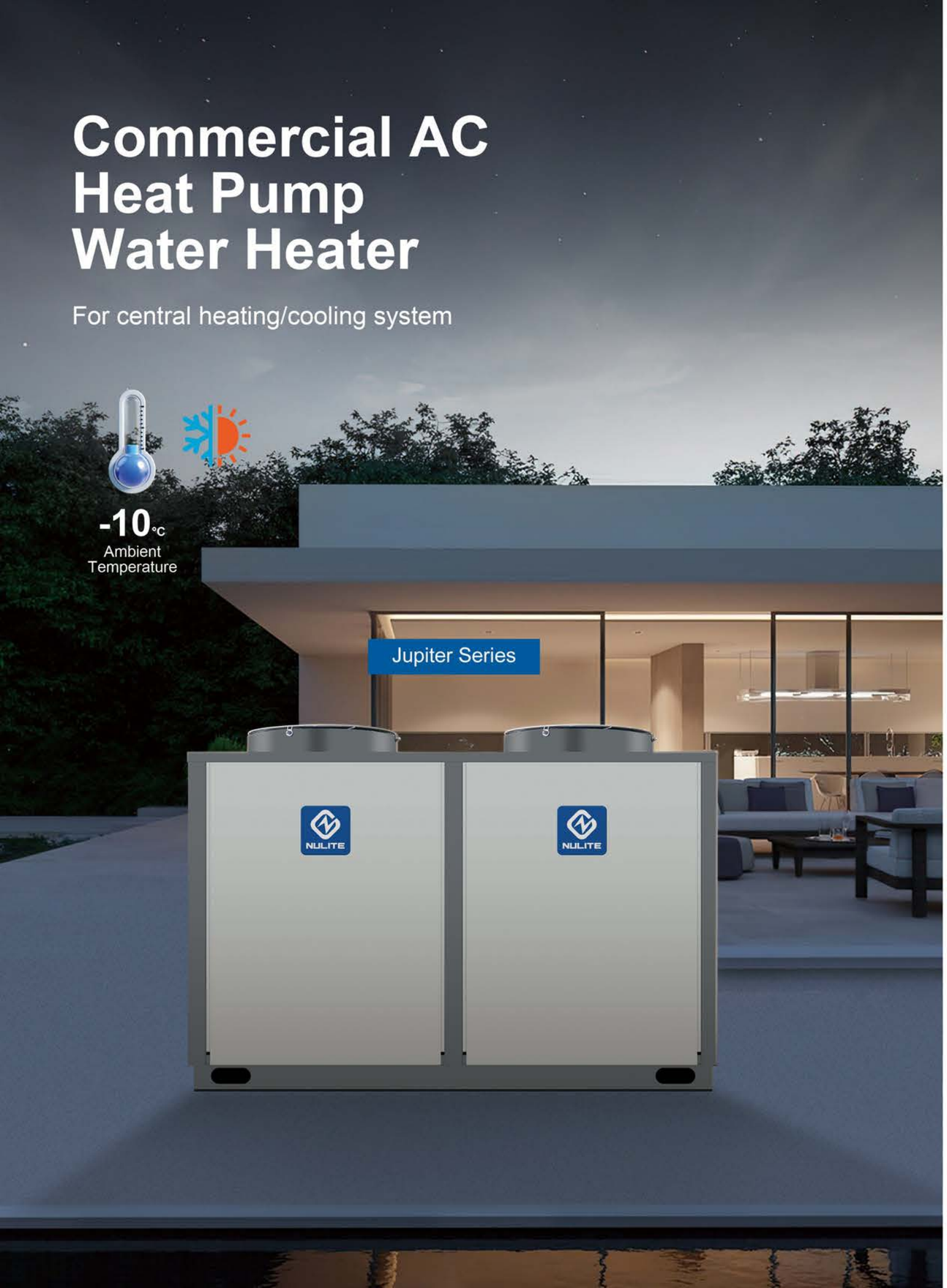
Model Name	NL-G20G	NL-G24G	NL-G30G	NL-G40G	NL-G50G	NL-G60G
Power Source	380V/50Hz	380V/50Hz	380V/50Hz	380V/50Hz	380V/50Hz	380V/50Hz
Max Water Temp	75℃	75℃	75℃	75℃	75℃	75℃
Heating Capacity	72KW	90.3KW	115KW	140KW	180KW	230KW
Rated Input Power	18KW	20.3KW	27.8KW	36KW	41KW	56KW
Max Input Power	23.5KW	28.4KW	34.8KW	46KW	57KW	69KW
Max Current	41.9A	50.8A	62.3A	84A	106.4A	125A
Water Flow	13.5m³/h	15.5m³/h	19.5m³/h	28m³/h	32m³/h	41m³/h
Noise Level	≤68dB(A)	≤68dB(A)	≤70dB(A)	≤72dB(A)	≤74dB(A)	≤76dB(A)
Refrigerant	R134a	R134a	R134a	R134a	R134a	R134a
Working ambient temp.			-10℃~43℃			
Pipe diameter	G2"	G2"	G2"	G2-1/2"	G2-1/2"	G3"
Net Size	2000x950x2060	2000x950x2060	2000x950x2060	2500x1250x2240	2500x1250x2240	2500x1250x2240
Net Weight	600kg	700kg	850kg	1150kg	1350kg	1500kg

The specifications are based on: DB Temperature 20°C ,WB Temperature 15°C ,In/Out 15°C /55°C.

Notice: the above data is for reference only, the specific data is subject to actual product.

Commercial AC Heat Pump Water Heater

For central heating/cooling system



Parameter

Model Name		NL-G3K	NL-G5K	NL-G6K	NL-G8K	NL-G10K	NL-G12K
Power Source	V/Hz	220V/50Hz~380V/50Hz			380V/50Hz	380V/50Hz	380V/50Hz
AC Water Temp.	°C	7~12°C / 35~45°C					
Heating Capacity	KW	8.4	15	18.5	24.58	29.5	34.12
Rated heating input Power	KW	2.79	4.69	5.82	7.62	9.38	11.04
Cooling Capacity	KW	7.84	12.8	16.3	21.2	26.2	31.1
Rated cooling input Power	KW	2.56	4.4	5.6	7.3	9.01	10.58
Max Input Power	KW	3.72	6.4	7.63	9.8	12.57	14.56
Max Current	A	6.7	11.4	13.6	17.5	22.4	26
Water Flow	m³/h	2	3.4	4.1	5.3	6.6	7.7
Noise Level	dB(A)	≤56	≤58	≤58	≤62	≤64	≤64
Refrigerant	/	R410a	R410a	R410a	R410a	R410a	R410a
Working ambient temp.	°C	-10°C ~ 43°C					
Pipe diameter	/	G1"	G1"	G1"	G1-1/2"	G1-1/2"	G1-1/2"
Net Size	mm	720*720*930	830*830*1100	830*830*1100	1520*800*1235	1520*800*1235	1520*800*1235
Net Weight	KG	95	125	138	250	265	280

Model Name		NL-G20K	NL-G24K	NL-G30K	NL-G40K	NL-G50K	NL-G60K
Power Source	V/Hz	380V/50Hz	380V/50Hz	380V/50Hz	380V/50Hz	380V/50Hz	380V/50Hz
AC Water Temp.	°C	7~12°C / 35~45°C					
Heating Capacity	KW	58.5	68	96	135	173	215
Rated Input Power	KW	17.8	22.3	26	33	43	54
Cooling Capacity	KW	50.2	63.8	73	92	115	145
Rated cooling input Power	KW	17.1	21.9	24.8	31.2	39.1	49.3
Max Input Power	KW	23.5	28.4	34.8	46	57	69
Max Current	A	41.9	50.8	62.3	84	106.4	125
Water Flow	m³/h	13.5	15.5	19.5	28	32	41
Noise Level	dB(A)	≤68	≤68	≤70	≤72	≤74	≤76
Refrigerant	/	R410a	R410a	R410a	R410a	R410a	R410a
Working ambient temp.	°C	-10°C ~ 43°C					
Pipe diameter	/	G2"	G2"	G2"	G2-1/2"	G2-1/2"	G3"
Net Size	mm	2000*950*2060	2000*950*2060	2000*950*2060	2500*1250*2240	2500*1250*2240	2500*1250*2240
Net Weight	KG	600	700	850	1150	1350	1500

EVI Commercial AC Heat Pump Water Heater

For Central Heating/Cooling System

-25℃
Ambient Temperature

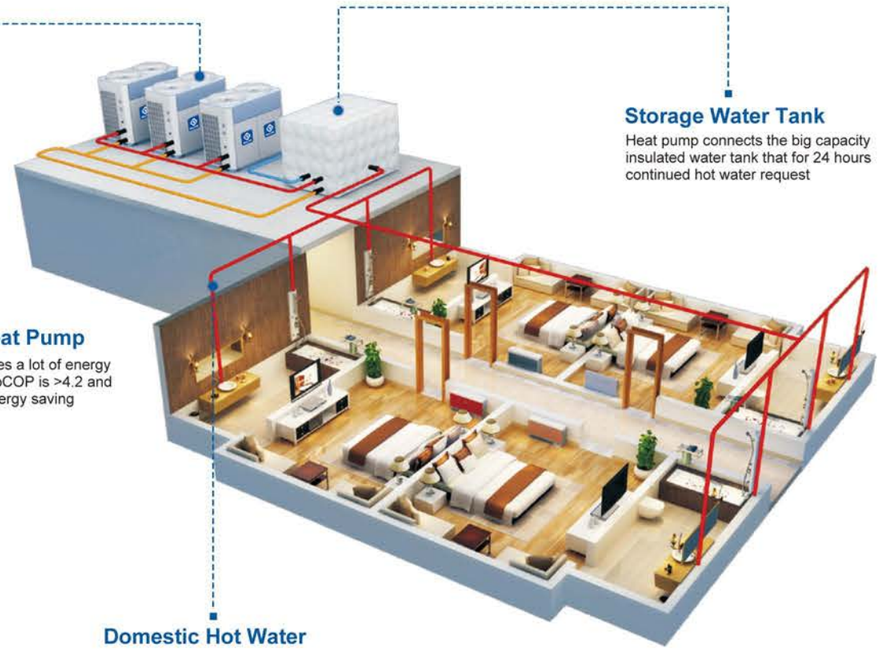
Venus Series

Parameter

Model Name		NL-G3KD	NL-G5KD	NL-G6KD	NL-G8KD	NL-G10KD	NL-G12KD
Power Source	V/Hz	220V/50Hz~380V/50Hz			380V/50Hz	380V/50Hz	380V/50Hz
AC Water Temp.	°C	7~12°C / 35~45°C					
Heating Capacity	KW	8.4	15	18.5	24.58	29.5	34.12
Rated heating input Power	KW	2.79	4.69	5.82	7.62	9.38	11.04
Cooling Capacity	KW	7.84	12.8	16.3	21.2	26.2	31.1
Rated cooling input Power	KW	2.56	4.4	5.6	7.3	9.01	10.58
Max Input Power	KW	3.72	6.4	7.63	9.8	12.57	14.56
Max Current	A	6.7	11.4	13.6	17.5	22.4	26
Water Flow	m³/h	2	3.4	4.1	5.3	6.6	7.7
Noise Level	dB(A)	≤56	≤58	≤58	≤62	≤64	≤64
Refrigerant	/	R410a	R410a	R410a	R410a	R410a	R410a
Working ambient temp.	°C	-25°C ~ 43°C					
Pipe diameter	/	G1"	G1"	G1"	G1-1/2"	G1-1/2"	G1-1/2"
Net Size	mm	720*720*930	830*830*1100	830*830*1100	1520*800*1235	1520*800*1235	1520*800*1235
Net Weight	KG	95	125	138	250	265	280

Model Name		NL-G20KD	NL-G24KD	NL-G30KD	NL-G40KD	NL-G50KD	NL-G60KD
Power Source	V/Hz	380V/50Hz	380V/50Hz	380V/50Hz	380V/50Hz	380V/50Hz	380V/50Hz
AC Water Temp.	°C	7~12°C / 35~45°C					
Heating Capacity	KW	58.5	68	96	135	173	215
Rated Input Power	KW	17.8	22.3	26	33	43	54
Cooling Capacity	KW	50.2	63.8	73	92	115	145
Rated cooling input Power	KW	17.1	21.9	24.8	31.2	39.1	49.3
Max Input Power	KW	23.5	28.4	34.8	46	57	69
Max Current	A	41.9	50.8	62.3	84	106.4	125
Water Flow	m³/h	13.5	15.5	19.5	28	32	41
Noise Level	dB(A)	≤68	≤68	≤70	≤72	≤74	≤76
Refrigerant	/	R410a	R410a	R410a	R410a	R410a	R410a
Working ambient temp.	°C	-25°C ~ 43°C					
Pipe diameter	/	G2"	G2"	G2"	G2-1/2"	G2-1/2"	G3"
Net Size	mm	2000*950*2060	2000*950*2060	2000*950*2060	2500*1250*2240	2500*1250*2240	2500*1250*2240
Net Weight	KG	600	700	850	1150	1350	1500

Commercial Heat Pump



Storage Water Tank

Heat pump connects the big capacity insulated water tank that for 24 hours continued hot water request

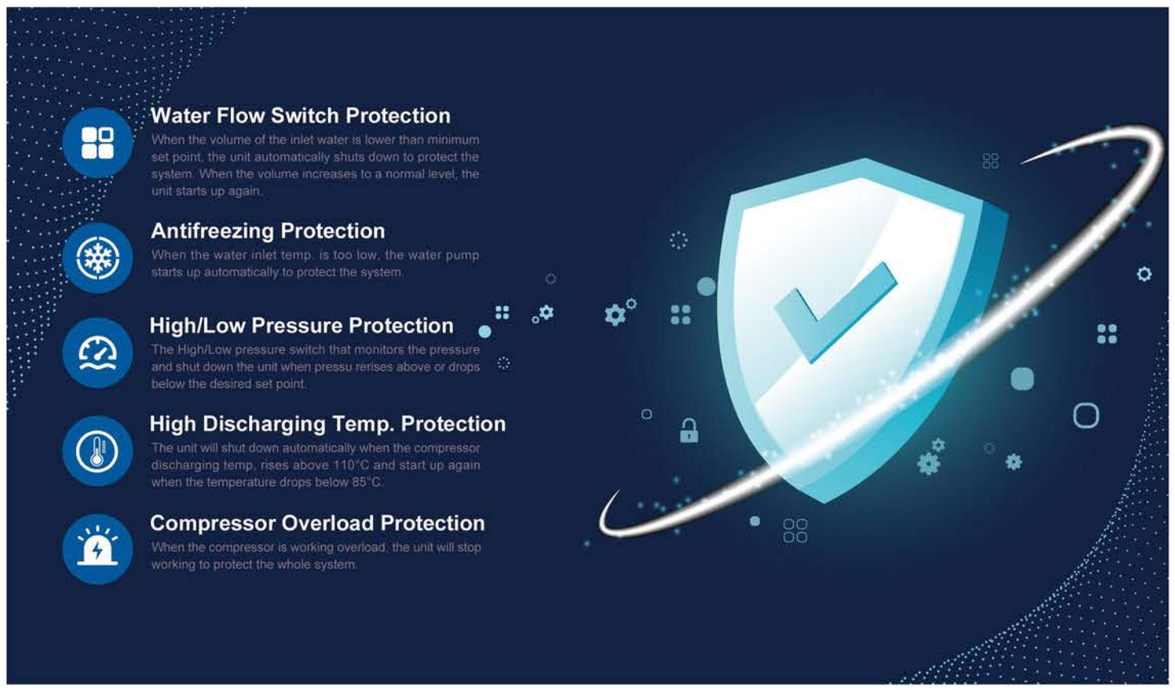
Water Cycle Heat Pump

The evaporator absorbes a lot of energy in the air,the heat pumpCOP is >4.2 and with more than 75% energy saving

Domestic Hot Water

Central thermostat hot water meets the multi-point supply atthe same time

Multi-protection & Long Service Life



Water Flow Switch Protection

When the volume of the inlet water is lower than minimum set point, the unit automatically shuts down to protect the system. When the volume increases to a normal level, the unit starts up again.

Antifreezing Protection

When the water inlet temp. is too low, the water pump starts up automatically to protect the system.

High/Low Pressure Protection

The High/Low pressure switch that monitors the pressure and shut down the unit when pressu rerises above or drops below the desired set point.

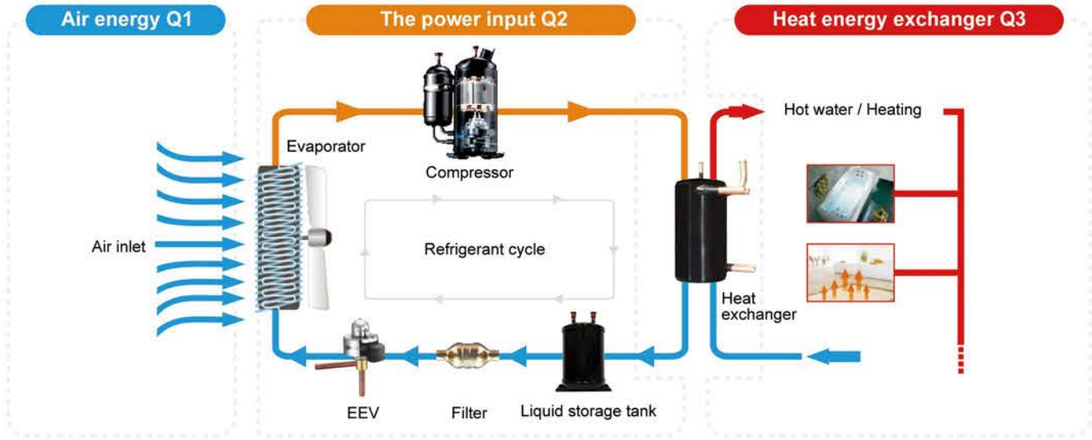
High Discharging Temp. Protection

The unit will shut down automatically when the compressor discharging temp. rises above 110°C and start up again when the temperature drops below 85°C.

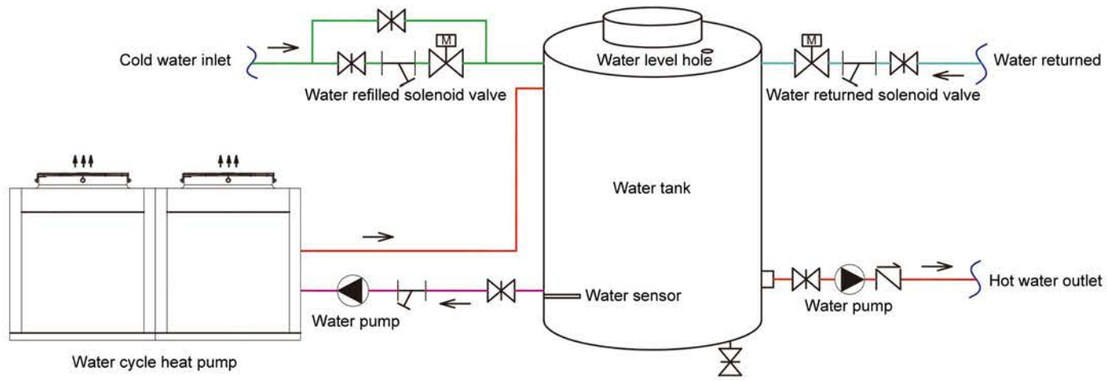
Compressor Overload Protection

When the compressor is working overload, the unit will stop working to protect the whole system.

Working Principle



Commercial Installation Diagram



MAIN COMPONENTS

Hydrophilic corrugated fin evaporator

Evaporator hydrophilic corrugated fin, arranged in rows, the windward area, good heat absorption,not easy to frost.

International famous brand control chip

Adopt international famous brand chip, transistor regulator technology, anti-interference ability to protect the powerful, good stability, 485 communi-cation interface, linked switch.

High efficient heat exchanger

Dedicated coaxial threaded tube in tube heat exchanger,efficient tube in shell heat exchanger,high heat transfer efficiency,corro-sion resistance and other high-quality performances.

Copeland zw series compressors

Using the USA Copeland ZW series fully enclosed scroll heat pump dedicated compressor, very high performance, resisted high pressure, resisted high temperature, low noise ,long service life.

Geothermal Water Heat Pump

Water source / Ground source Heat Pump
Heating / Cooling / Hot Water

Parameter

NL-G2S-G3S-G4S-G5S-G6S-G8S

Model Name			NL-G2S	NL-G3S	NL-G4S	NL-G5S	NL-G6S	NL-G8S
Rated heating water capicity (W)		W	7400	10800	14300	17700	21100	28100
Input power (W)		W	1700	2500	3300	4100	4900	6400
COP			4.35	4.32	4.33	4.32	4.31	4.39
Rated cooling capicity (W)		W	6500	9500	12600	15600	18600	24800
Input power (W)		W	1200	1700	2300	2800	3400	4500
Voltage (V)		V/Hz	220V- 50Hz		380V-50Hz			
Rated AC water temperature		°C	7--12°C or 35--45°C					
Refrigeration			R410a/R407C					
Control mode			Microcomputer central processor (linear control)					
	Form		Scroll type					
Compressor	Quantity		1	1	1	1	1	2
	Brand		Panasonic/Copeland					
	Form		panel or spiral pipe					
condenser / outdoor cycle	pipe diameter	DN	25	25	32	32	40	40
	Flow Rate	m3	1.3	1.8	2.5	3.0	3.6	4.8
	Form		panel or spiral pipe					
Evaporator / indoor cycle	pressure loss		＜40kpa		＜50kpa			
	pipe diameter DN	DN	25	25	32	32	40	40
	Flow Rate m3	m3	1.1	1.6	2.2	2.7	3.2	4.3
	Net size	mm	600*600*950	600*600*950	600*600*950	600*600*950	600*600*950	800*600*950
Unit	Weight	Kg	120	125	130	135	150	190
	Nosie level	dB(A)	49	54	54	60	60	60
Above heating capacity based on the conditions @ source in/out. 15℃ /9 ℃ and indoor cycle in/out. 40/45 ℃;								
Above cooling capacity based on the conditions @ source in/out. 18℃ /26 ℃ and indoor cycle in/out. 12/7 ℃;								

Parameter

NL-G10S-G12S-G16S-G25S-G50S

Model Name			NL-G10S	NL-G12S	NL-G16S	NL-G25S	NL-G50S
Rated heating water capicity (W)		W	34000	40800	54300	89000	178000
Input power (W)		W	7700	9500	9500	13200	26400
COP			4.42	4.29	5.72	6.74	6.74
Rated cooling capicity (W)		W	30000	36000	48000	78600	157200
Input power (W)		W	5500	6500	8700	14300	28600
Voltage (V)		V/Hz	380V-50Hz				
Rated AC water temperature		°C	7--12°C or 35--45°C				
Refrigeration			R410a/R407C				
Control mode			Microcomputer central processor (linear control)				
	Form		Scroll type				
Compressor	Quantity		2	2	2	2	2
	Brand		Panasonic/Copeland				
	Form		panel or spiral pipe				
condenser / outdoor cycle	pipe diameter	DN	40	40	50	50	50
	Flow Rate	m3	5.8	7.0	9.3	15.3	30.6
	Form		panel or spiral pipe				
Evaporator / indoor cycle	pressure loss		＜50kpa				
	pipe diameter DN	DN	40	40	40	50	50
	Flow Rate m3	m3	5.2	6.2	8.3	13.5	27
	Net size	mm	800*600*950	800*600*950	1250*550*1625	1250*550*1625	1800*700*1450
Unit	Weight	Kg	205	205	350	375	840
	Nosie level	dB(A)	64.5	64.5	64.5	74	74
Above heating capacity based on the conditions @ source in/out. 15℃ /9 ℃ and indoor cycle in/out. 40/45 ℃;							
Above cooling capacity based on the conditions @ source in/out. 18℃ /26 ℃ and indoor cycle in/out. 12/7 ℃;							

Enamel Water Tank
Buffer Tank

Advantage

Tank shell material

Galvanized sheet electrostatic powder spraying shell series, numerical automatic direct seaming welding.12 prior treatments, spraying production line. Leading technology, superior quality.

Inner tank material

TBC or SPCC sheet plate is adopted for the tank body, welded with fully numerical automatic welding equipment. The connecting area is welded with fully automatic welding machine Co2 , to ensure the welding strength.

Thermal insulation material of water tank

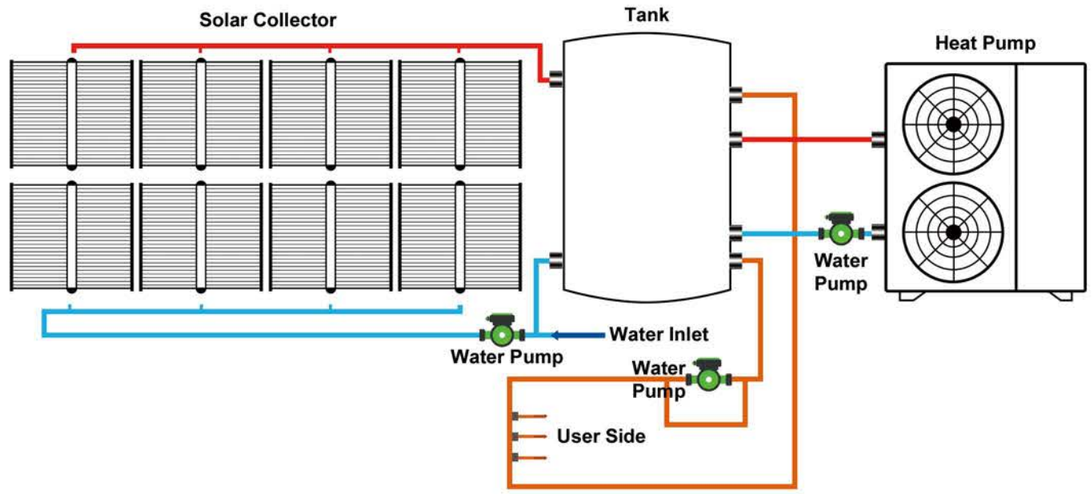
Environment friendly cyclopentane material is adopted; Thermal insulation layer is made of disposable foaming by German disposable foaming machine. Thickness: 50 mm. Superior quality, safe & energy saving, good performance in heat preservation, with only a small drop of five degrees in a heat preservation period of 24 hours.

Model Name	Volume	Size(mm)	Inner tank material	Inner tank thickness(mm)	Insulation Materials Thickness
NL-E150L	150L	470*1510mm	SPCC	2.0+0.05mm	50mm Polyurethane
NL-E200L	200L	510*1615mm	SPCC	2.0+0.05mm	50mm Polyurethane
NL-E260L	260L	570*1590mm	SPCC	2.0+0.05mm	50mm Polyurethane
NL-E300L	300L	570*1805mm	SPCC	2.0+0.05mm	50mm Polyurethane
NL-E500L	500L	600*1900mm	SPCC	2.0+0.05mm	50mm Polyurethane

Stainless Steel Tanks

- SUS304/316/2205
- Buffer tank
- Storage hot water tank
- Can work with heat pump and Solar collector

Installatin Case



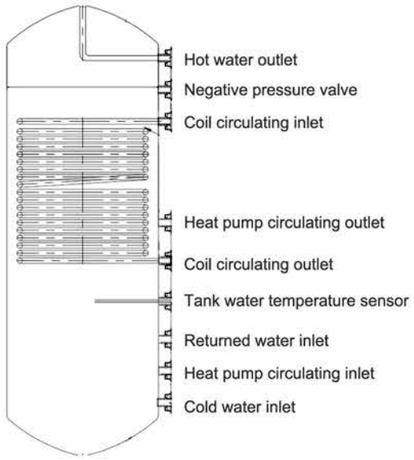
Parameter

Model Name	Inner tank	Inner tank Size(MM)	Unit size(MM)	Insulation Material Thickness	Package size
NL-T40L	SUS304	&1.0/φ370	φ470*525	50mm Polyurethane	540*540*530
NL-T60L	SUS304	&1.0/φ370	φ470*725	50mm Polyurethane	540*540*720
NL-T80L	SUS304	&1.0/φ370	φ470*850	50mm Polyurethane	540*540*920
NL-T100L	SUS304	&1.0/φ370	φ470*1115	50mm Polyurethane	540*540*1100
NL-T120L	SUS304	&1.0/φ370	φ470*1325	50mm Polyurethane	540*540*1300
NL-T150L	SUS304	&1.2/φ370	φ470*1545	50mm Polyurethane	540*540*1530
NL-T200L	SUS304	&1.4/φ420	φ520*1545	50mm Polyurethane	595*595*1600
NL-T250L	SUS304	&1.4/φ470	φ560*1625	50mm Polyurethane	630*630*1650
NL-T300L	SUS304	&1.5/φ470	φ560*1915	50mm Polyurethane	630*630*1950
NL-T400L	SUS304	&1.8/φ600	φ700*1625	50mm Polyurethane	780*780*1700
NL-T500L	SUS304	&1.8/φ600	φ700*1915	50mm Polyurethane	780*780*1980

Design 1

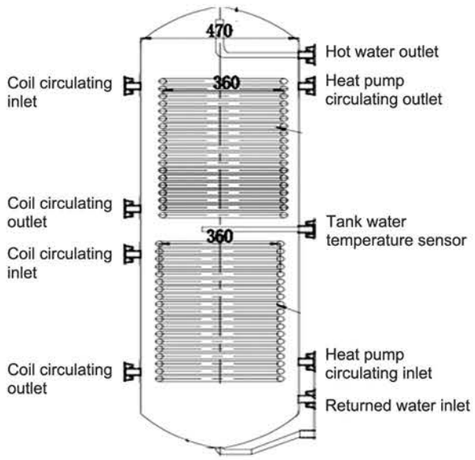
Built with one Serpentine coil inside for house heating system to use.

Like for floor heating,radiator, fan coil units,ect.



Design 2

Built with double Serpentine coils inside for house heating system and solar collector.

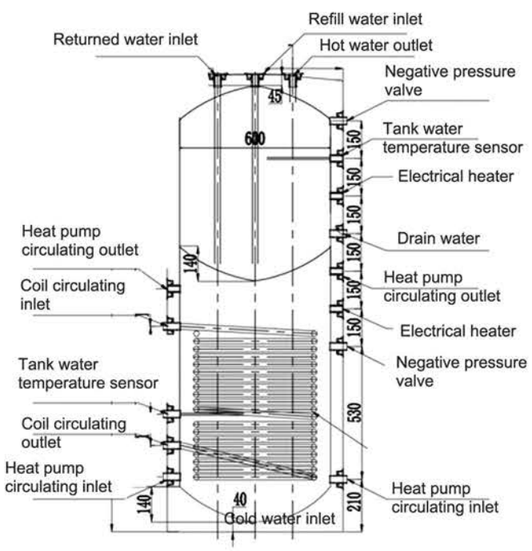


Design 3

Gallbladder design,the bigger tank was used for heating system,inner tank was used for domestic hot water.

Built with double tank inside, One for domestic hot water, another for heating system

Two circulation connection, One for heat pump,another one for the solar collector

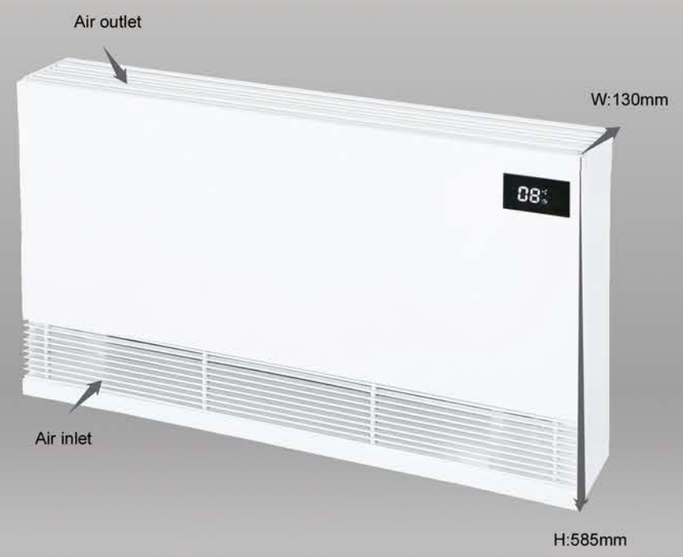


Project Installations

Ultra Floor Standing Fan Coil Unit

It Is Water System,Heating And Cooling Function

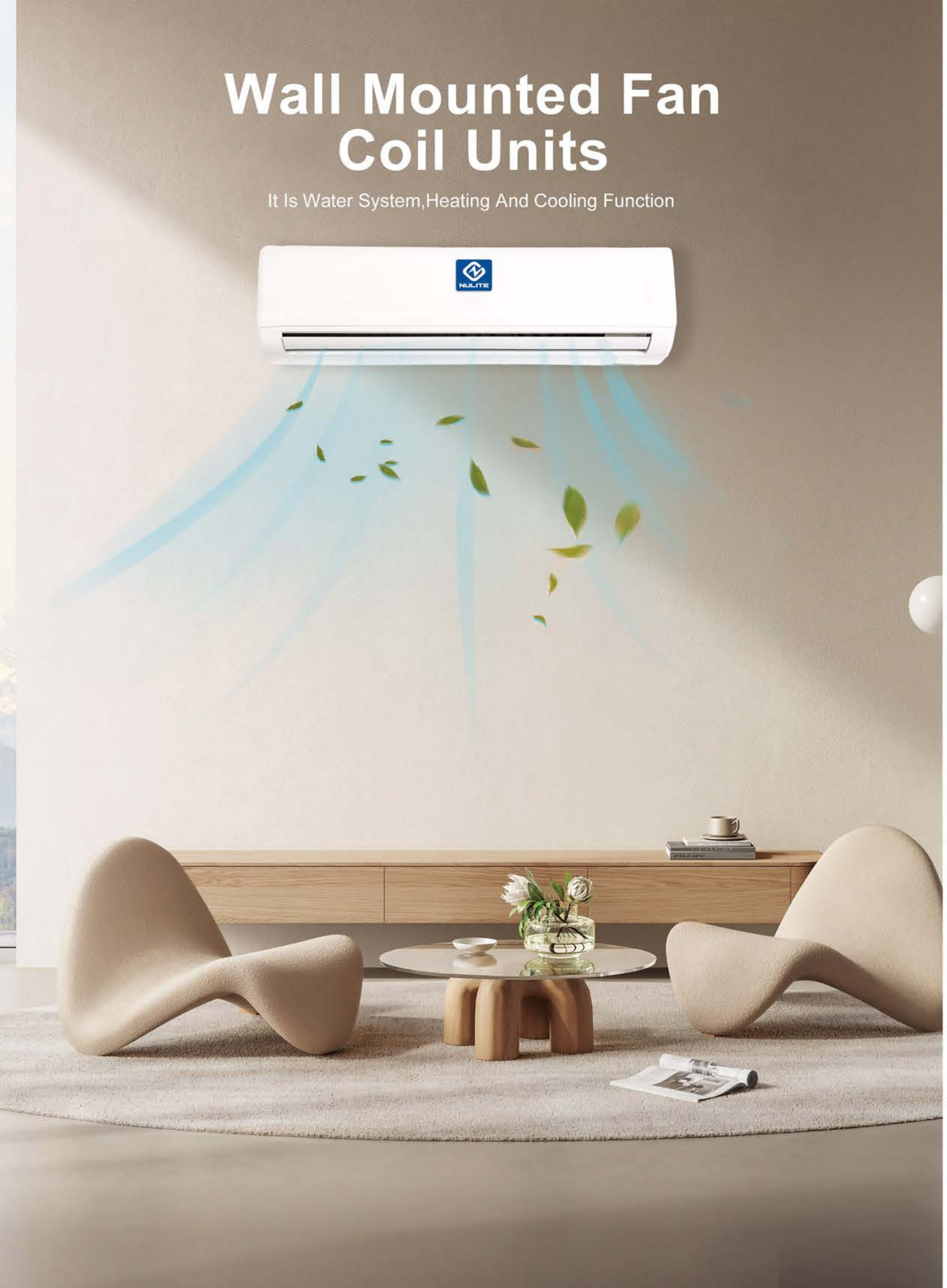
Parameter



Model Name		MFP-40	MFP-50	MFP-60
Air volume (m3/h)	High	400	500	600
	Middle	360	450	540
	Low	320	400	480
Cooling capacity(W)	High	2600	3500	4300
	Middle	2340	3150	3870
	Low	2100	2830	3480
Heating capacity (w)	High	3200	4300	5400
	Middle	2880	3870	4860
	Low	2590	3480	4370
Noise db(A)		<43	<45	<48
Input power (W)		65	82	98
Temperature for cold water		7℃~12℃		
Temperatureheat water		65℃~60℃		
Power(V／HZ)		Single-phase power supply 220v、50Hz		
Water pipes(Dia)		R3/4"	R3/4"	R3/4"
Drain pipe(Dia)		R1/2"	R1/2"	R1/2"
Size L×W×H		990*130*585	1085*130*585	1220*130*585
Weight of unit(kg)		23	25	26

Wall Mounted Fan Coil Units

It Is Water System,Heating And Cooling Function



Features

1, Exquisite Structure, pleasing in appearance, reasonable product structure, acoustic heat insulator, fire insulation.

2, It has the fine design, light weight and good strength and can be equipped at any place.

3,The effiency is high Fan coil adopt seamless red Copper Pipe and aluminum blinds-fin .

4, It is easy to control and owns complete functions.

Parameter

Model Name		FP-68BG	FP-85BG	FP-102BG
Air volume (m3/h)	High	680	850	1020
	Middle	470	685	780
	Low	360	585	600
Cooling capacity(btu)	High	12000	18000	24000
Cooling capacity(W)	High	3600	4500	5400
	Middle	2610	3440	3850
	Low	2150	2750	3290
Heating capacity (w)	High	5400	6750	8100
	Middle	3950	5160	5780
	Low	3700	4130	5000
Power Input [w]		50	60	75
Water flow rate [m3/h]		0.6	0.8	0.9
Water pressure drop [kPa]		25	30	35
Noise dB(A)		≤45	≤48	≤48
Max working pressure [MPa]			2	
Chilled water temperature			7℃-12℃	
Standard External Pressure			12 Pa	
Hot water temperature			65℃-60℃	
Supply power(V Hz)			Single phase A.C. 220V 50Hz	
Water pipe			ZG3/4''	
Outside measurement(L*W*H)		890*200*280	1000*225*320	1080*240*350
Weight(Kg)		12.5	14	16

Cassette Fan Coil Unit

It Is Water System,Heating And Cooling Function

Parameter

Model Name		FP-34KM	FP-51KM	FP-68KM	FP-85KM	FP-102KM
air volume（m3/h）	High	340	510	680	850	1020
	Middle	280	390	520	640	790
	Low	180	260	350	430	520
Rated cooling capacity(kw)		1.98	2.98	3.68	4.98	5.58
Rated heating capacity(kw)		2.987	4.8	5.48	7.2	8.18
Water flow rate (m3/h)		0.42	0.52	0.62	0.86	0.98
Hydraulic resistance(Kpa)		7	9	11	18	19
Water capacity /L		1.65	1.66	1.67	2.03	2.06
Noise level dB(A)		37	39	41	43	45
Motor Power/W		12	15	15	22	25
Input power/W		35	50	58	72	92
Current/A		0.16	0.23	0.28	0.36	0.43
Voltage V/P/Hz		220V/1P/50HZ				
Controller		Remote control /Wire control				
Net size（mm）		580*580*290			720*720*290	
Package size（mm）		720*720*380			860*860*380	
Panel size（mm）		650*650*30			800*800*30	
Net weight(kg)		23			29	
Pipe size		ZG3/4"（DN20）				

Model Name		FP-136KM	FP-170KM	FP-204KM	FP-238KM
air volume（m3/h）	High	1360	1700	2040	2380
	Middle	1030	1290	1500	1800
	Low	690	860	1032	1200
Rated cooling capacity(kw)		7.2	9.9	10.8	12.6
Rated heating capacity(kw)		10.8	14.5	16.2	18.9
Water flow rate (m3/h)		1.08	1.58	1.78	1.92
Hydraulic resistance(Kpa)		22	30	32	35
Water capacity /L		2.09	2.88	2.98	3.08
Noise level dB(A)		46	47	59	52
Motor Power/W		30	40	40	70
Input power/W		126	128	152	200
Current/A		0.59	0.67	0.85	0.98
Voltage V/P/Hz		220V/1P/50HZ			
Controller		Remote control /Wire control			
Net size（mm）		720*720*290	830*830*290		
Package size（mm）		860*860*380	1000*1000*380		
Panel size（mm）		800*800*30	950*950*30		
Net weight(kg)		29	38		
Pipe size		ZG3/4"（DN20）			

Hide Ceiling Fan Coil Unit

It Is Water System,Heating And Cooling Function

Parameter

Model Name：NL-FP		34HC	51HC	68HC	85HC	105HC	136HC	170HC	204HC	238HC
Air volume (m3/h)	High	340	510	680	850	1020	1360	1700	2040	2380
	Middle	260	390	520	650	780	1040	1290	1580	1820
	Low	180	270	360	450	530	710	890	1060	1240
Cooling capacity(W)	High	1800	2700	3600	4500	5400	7200	9000	10800	12600
	Middle	1620	2450	3240	4050	4850	6480	7980	9580	11200
	Low	1430	1990	2650	3220	3820	5140	6400	7480	8960
Heating capacity (w)	High	2700	4050	5400	6750	8100	10800	13500	16200	18900
	Middle	2450	3680	4860	6120	7275	9980	11960	14200	16520
	Low	2160	3240	4300	5200	6400	8600	9200	10800	12960
Conventional type noise dB(A)		≤35	≤36	≤38	≤40	≤43	≤44	≤45	≤46	≤49
High static press noisiness dB(A)		≤39	≤41	≤43	≤45	≤48	≤49	≤50	≤52	≤54
Input power(w)	Standard type	41	54	65	82	98	132	168	206	247
	Overpressure type	45	58	76	89	110	165	195	228	273
Outlet static press of unit（Pa)		12Pa,30Pa,50Pa								
Electric power		Signal phase 220v 50HZ								
thermal sink		louvered aluminum thermal sink, spacing of fins is 2.2mm								
No. of wind wheel(n)		2	2	2	2	2	2	3	4	4
Heat exchanger	Model	3-row aluminum								
	Structure model	copper stringing roll aluminum fin								
	working pressure	1.2Mpa								
	water pipe branching	DN20 pipe								
	condensed water connecting hose	DN20 pipe								
water volume (kg/h)		350	480	680	780	910	1140	1270	1320	1460
hydraulic resistance (kpa)		15	20	30	35	45	35	35	38	40
Weight of unit(kg)		16	19	21	22	23	25	35	38	45

Floor Standing Fan Coil Unit

It Is Water System,Heating And Cooling Function

Parameter

Modle Name		FP-34LM	FP-51LM	FP-68LM	FP-85LM	FP-102LM
Nominal air volume (m3/h)	High	340	510	680	850	1020
	Middle	260	390	520	650	780
	Low	180	270	360	450	530
Cooling capacity(W)	High	1800	2700	3600	4500	5400
	Middle	1620	2450	3240	4050	4850
	Low	1430	1990	2650	3220	3820
Heating capacity (w)	High	2700	4050	5400	6750	8100
	Middle	2450	3680	4860	6120	7275
	Low	2160	3240	4300	5200	6400
Conventional type noise dB(A)		≤35	≤36	≤38	≤40	≤43
High static press noisiness dB(A)		≤39	≤41	≤43	≤45	≤48
Input power(w)	Standard type	41	54	65	82	98
	Overpressure type	45	58	76	89	110
Outlet static press of unit（Pa)		12Pa,30Pa,50Pa				
Electric power		Signal phase 220v 50HZ				
thermal sink		louvered aluminum thermal sink, spacing of fins is 2.2mm				
No. of wind wheel(n)		2	2	2	2	2
Heat exchanger	Model	3-row aluminum				
	Structure model	copper stringing roll aluminum fin				
	working pressure	1.2Mpa				
	water pipe branching	DN20 pipe				
	condensed water connecting hose	DN20 pipe				
water volume (kg/h)		350	480	680	780	910
hydraulic resistance (kpa)		15	20	30	35	45
Weight（kg）	Horizontal concealed(WA)	16	19	21	22	23

Model Name		FP-136LM	FP-170LM	FP-204LM	FP-238LM
Nominal air volume (m3/h)	High	1360	1700	2040	2380
	Middle	1040	1290	1580	1820
	Low	710	890	1060	1240
Cooling capacity(W)	High	7200	9000	10800	12600
	Middle	6480	7980	9580	11200
	Low	5140	6400	7480	8960
Heating capacity (w)	High	10800	13500	16200	18900
	Middle	9980	11960	14200	16520
	Low	8600	9200	10800	12960
Conventional type noise dB(A)		≤44	≤45	≤46	≤49
High static press noisiness dB(A)		≤49	≤50	≤52	≤54
Input power(w)	Standard type	132	168	206	247
	Overpressure type	165	195	228	273
Outlet static press of unit（Pa)		12Pa,30Pa,50Pa			
Electric power		Signal phase 220v 50HZ			
thermal sink		louvered aluminum thermal sink, spacing of fins is 2.2mm			
No. of wind wheel(n)		2	2	2	2
Heat exchanger	Model	3-row aluminum			
	Structure model	copper stringing roll aluminum fin			
	working pressure	1.2Mpa			
	water pipe branching	DN20 pipe			
	condensed water connecting hose	DN20 pipe			
water volume (kg/h)		1140	1270	1320	1460
hydraulic resistance (kpa)		35	35	38	40
Weight（kg）	Horizontal concealed(WA)	25	35	38	45

Cabinet Vertical Fan Coil Unit

It Is Water System,Heating And Cooling Function

Parameter

Model Name		FP-136LZ(2P)	FP-170LZ(3P)	FP-204LZ(5P)
Air volume (m3/h)	High	1360	1700	2040
	Middle	1100	1370	1740
	Low	880	1170	1420
Cooling capacity(W)	High	7400	8500	10000
	Middle	5920	7270	9000
	Low	4810	6120	7000
Heating capacity (w)	High	11100	12750	15000
	Middle	8880	11000	12000
	Low	7220	9400	10000
Noise db(A)		<50	<56	<56
Electric power (W)		45	55	100
Backwater temperature for cold water		7℃~12℃		
Backwater temperature for heat water		65℃~60℃		
Power(V／HZ)		Single-phase power supply 220v、50Hz		
Water main		ZG 3/4"	ZG 3/4"	ZG 3/4"
Size L×W×H		485×290×1680	520×285×1755	600×310×1900
Weight of unit(kg)		38	42	48

House Heating Case I









House Heating Case II









House Heating Case Ⅲ








House Heating Case Ⅳ









House Heating Case Ⅶ









Domestic Hot Water Case












Swimming Pool Heating Case Ⅰ







Swimming Pool Heating Case Ⅱ







Commercial Project Case Ⅰ







Commercial Project Case Ⅱ