

MAKE
YOUR
LIFE
GREEN

SIDIT 



Founded in

2000

24 years'
experience

50% products
be exported to
overseas market

SIDITE Energy Co., Ltd. was founded in 2000 and is located in Jiaxing City, Zhejiang Province.

SIDITE specializes in the production of solar water heaters, solar collectors, solar power generation systems and heat pump products such as domestic heat pumps, commercial heat pumps and industrial heat pumps.

With the most advanced production line and "60HP Heat Pump Performance Comprehensive Laboratory" in China, and recognized as a national high-tech enterprise, SIDITE has 24 years of experience in manufacturing products, and 50% of its products are exported to overseas markets.

Our products have obtained the certificates of Solar Key Mark, CE, CCC, ISO9001, ISO14001, etc., and have been exported to more than 50 countries, such as Germany, Holland, Poland, Finland, Brazil, Argentina, Australia, and Kenya.

The best customer satisfaction is our goal. We will continue to uphold the principle of "customer first, credit first" to establish and develop mutually beneficial cooperative relationships with customers all over the world.



SIDITE History

2000

Zhejiang SIDITE New Energy Co., Ltd was established, located in Jiaxing City, Zhejiang Province.

2009

SIDITE was identified as the National High-tech Enterprise.

2008

SIDITE built China's largest swimming pool solar hot water project - Nanchang University, covering an area of 2,200 square meters.

2010

SIDITE moved to a new plant with a total floor space of 32,000 square meters and an annual production capacity of more than 300,000 units.

2013

SIDITE developed a household heat pump system with heating and cooling comfort applications function.

2017

Established the "60HP Heat Pump Performance Laboratory", which lay a solid foundation for researching and developing heat pump technology.

2018

Obtained the "Heat pump drying intelligent equipment Innovation development and application enterprise Competence level Qualification Certificate".

2021

Appointed as a member of the National Technical Committee for Standardization of Household Electrical Appliances (SAC/TC46) by the State Standardization Administration of the People's Republic of China.

2023

Recognized with the "2023 Yangtze Delta Heat Pump Hot Water Industry Innovation Award"

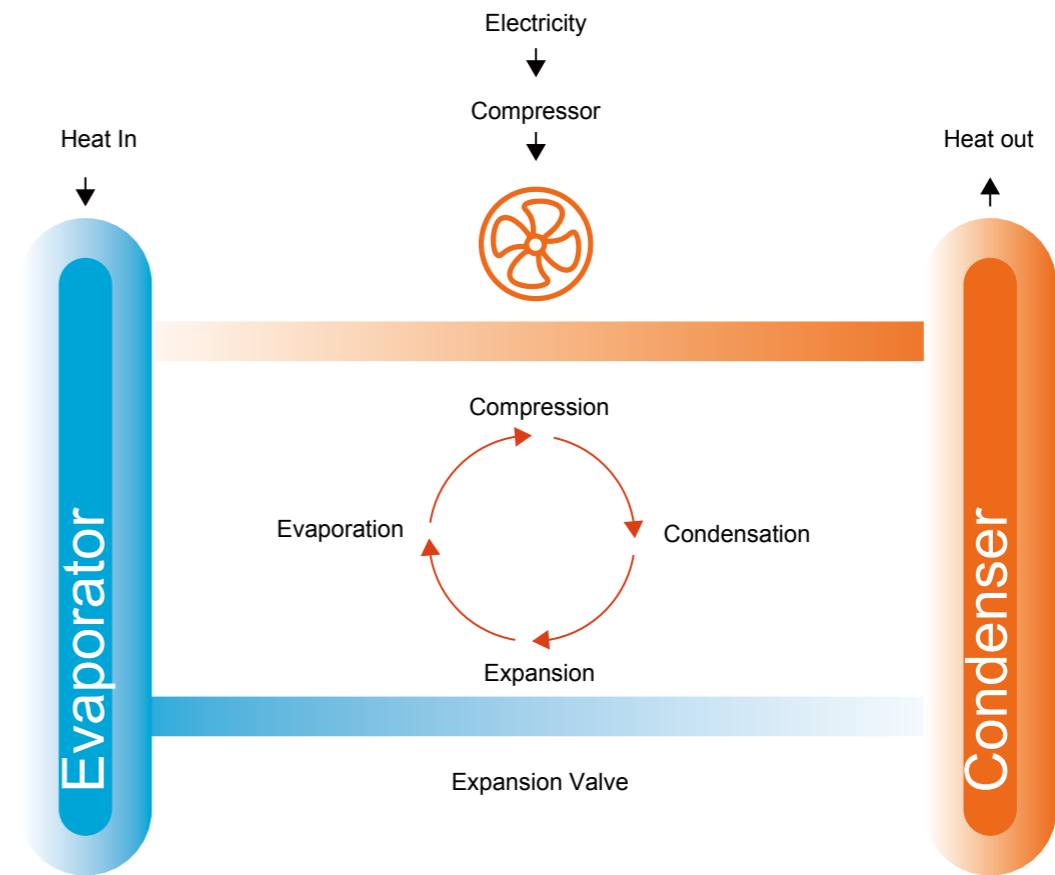
Heat Pump Working Principle

○ 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 organisms emit heat energy
- (4) Fuel combustion emit heat energy



○ How Does 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.

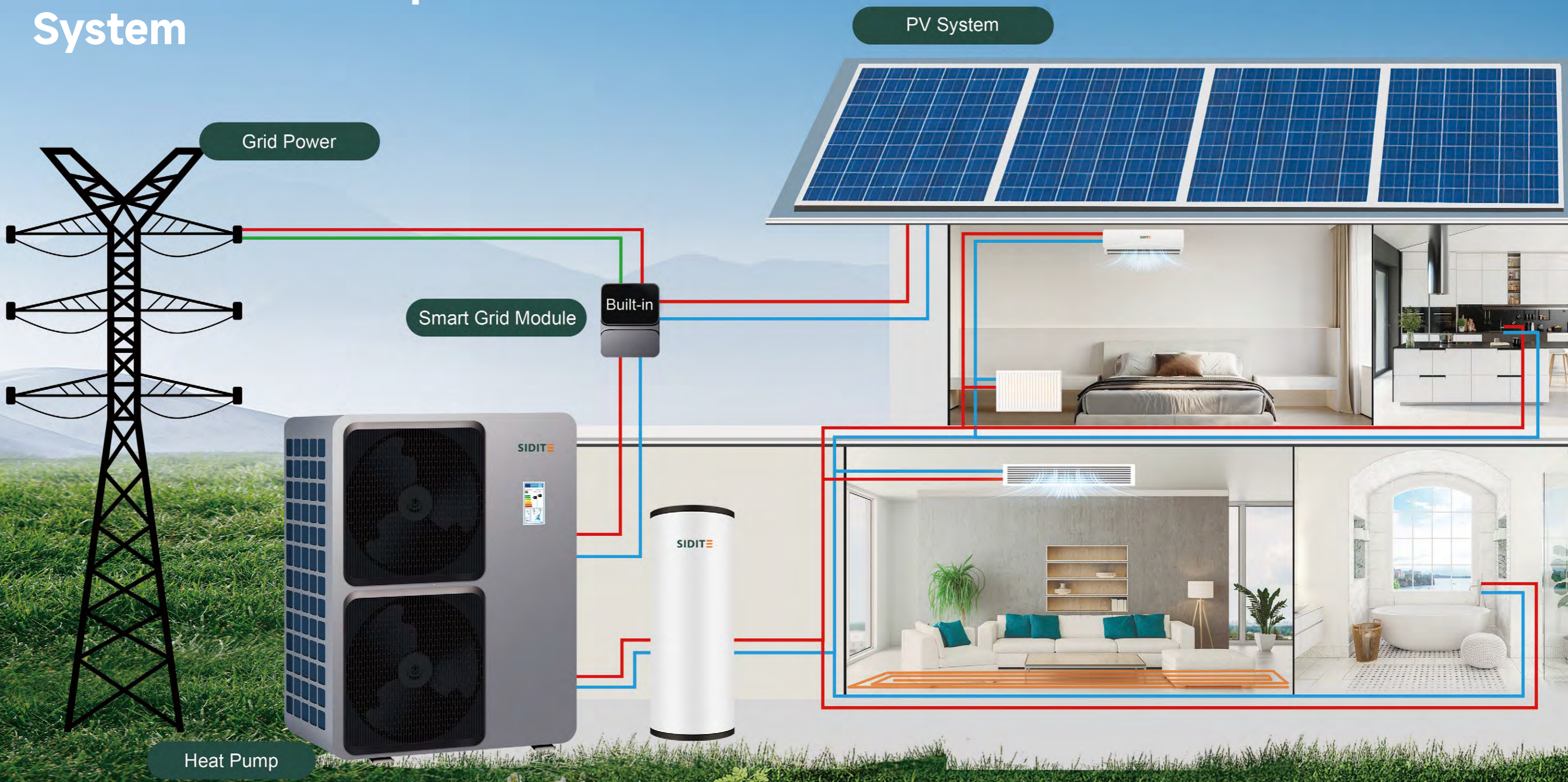
The gas then goes through the compressor that increases its temperature, and then through the expansion valve that makes the hot air enter the building

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



Grid Power

PV System

Smart Grid Module

Built-in

Heat Pump

SIDIT



Lower Your Heating Bills

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



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.



Efficient Even At Low Temperatures

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



Low Maintenance And Long Lifetime

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



No Time And Weather Restriction

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



Environment-Friendly Refrigerant

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



Intelligent Control, No need For Maintenance

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



One Unit With Multiple Functions

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

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:

What Are The Benefits of Heat Pump?

Be Your Right



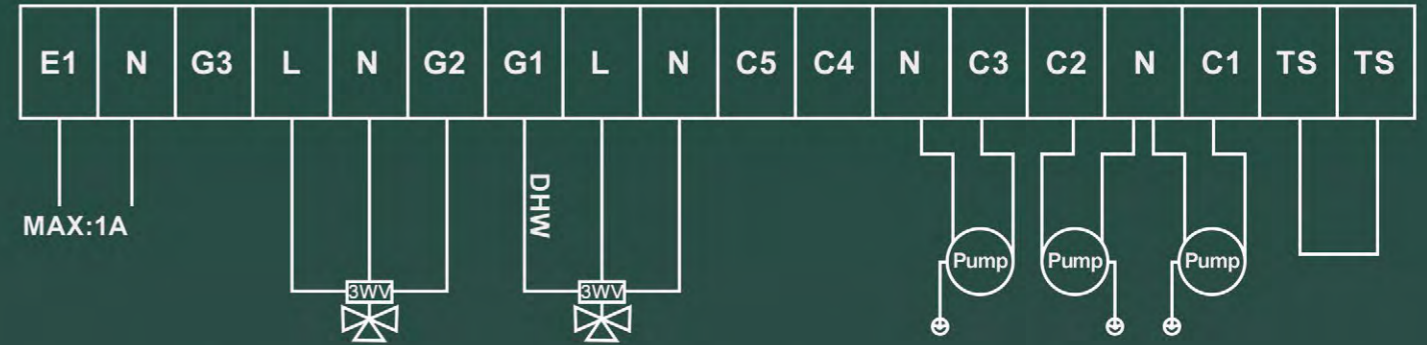
The Pioneer of European Inverter 3 in 1 Heat Pump



R290 HIGH TEMPERATURE AIR SOURCE HEAT PUMP

Multifunctional Connection

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



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 Axlliriary Water Pump
 C4:DHW Pipeline Crcluating 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°C,heating capacity output increased 200% in low temperature.

Dual rotor

Dc inverter

R290

Refrigerant

-25°C

Operation

200%

Heat Output

The Reasons For Choosing SIDITE 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



Compatible With Existing Units

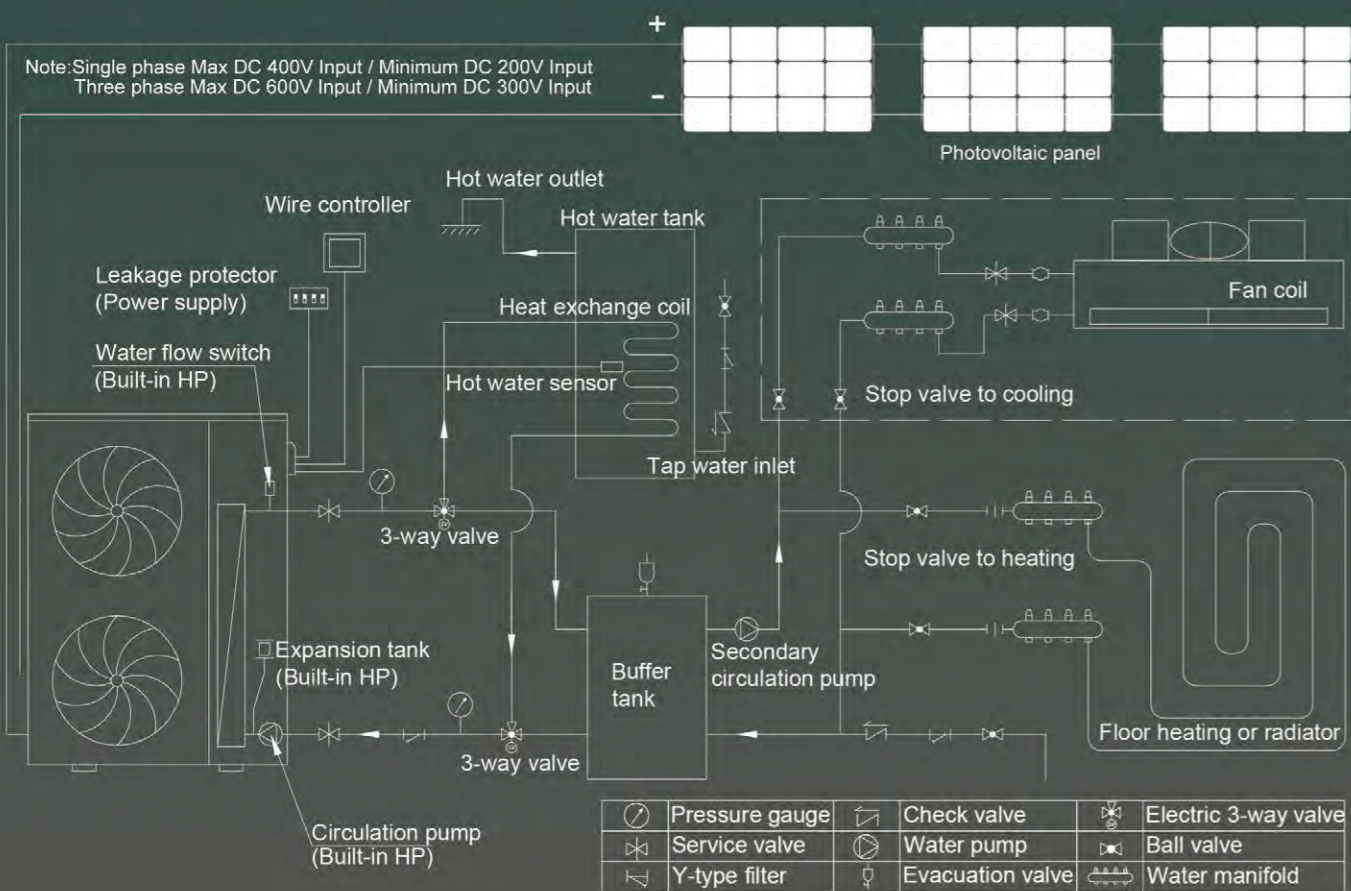
Flamingo R290 Series is ideal for replacing less efficient systems due to the high temperature of its water supply. It is compatible with radiators and does not require a large accumulation volume of domestic hot water.

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. Built-in water pump
- 07. Built-in 3KW electric heater
- 08. Built-in expansion tank
- 09. R290 EVI DC inverter compressor

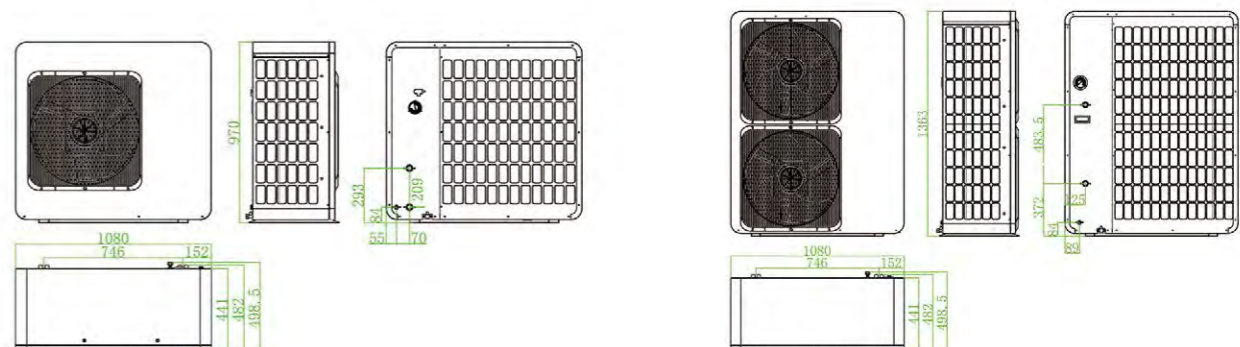


EVI DC INVERTER HEAT PUMP

R290 is the most sustainable refrigerant and possibly your best option when it comes to purchasing a commercial refrigerant for your business.



Dc Inverter Heat Pump		SDT-FLM30-100II/R290	SDT-FLM30-130II/R290	SDT-FLM50-160II/R290	SDT-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°C / Heating: 45°C / Cooling: 12°C			
Max water temperature	°C	75°C ~ 80°C			
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			
Compressor	Quantity	1			
Compressor	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
Circulation pump	built-in	SHIMGE	Inverter Water Pump (water head 12 meters)		
Expansion tank	built-in	L	5	5	5
Ambient temperature	°C	(-25°C -- 43°C)			
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



Flamingo Series

Pilot I Series



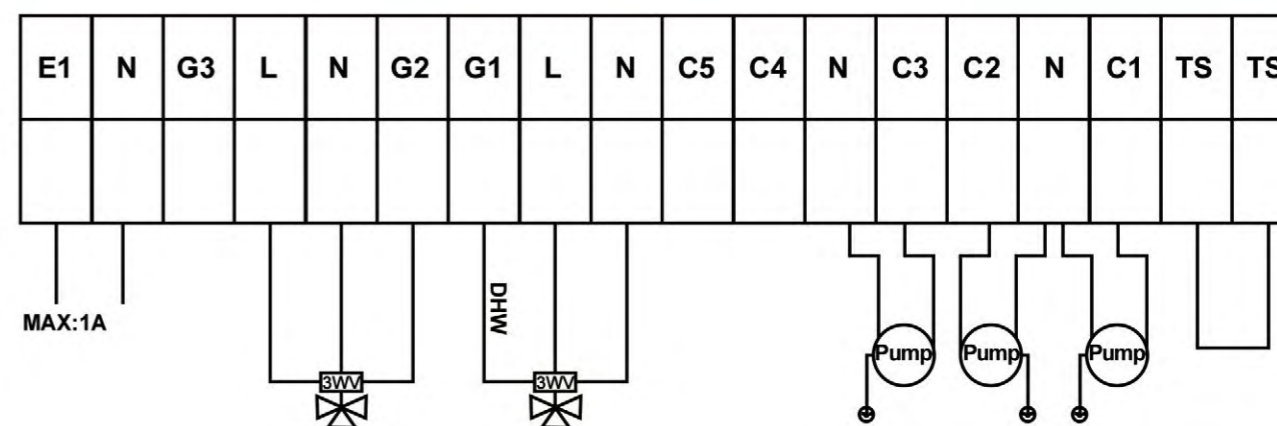
Multi-Language Controller



Controller Panel



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 Axllary Water Pump
 C4:DHW Pipeline Crcluating Water Pump
 C5:Indoor Circulating Water Pump

Parameter



Model Name		SDT-FLM30-95II/R32	SDT-FLM40-150II/R32	SDT-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°C / Heating: 45°C / Cooling: 12°C		
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
Compressor	Quantity	/	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
Circulation pump	built-in	SHIMGE	Inverter Water Pump	
Expansion tank	built-in	L	5	5
Ambient temperature	°C	(-25°C -- 43°C)	(-25°C -- 43°C)	(-25°C -- 43°C)
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



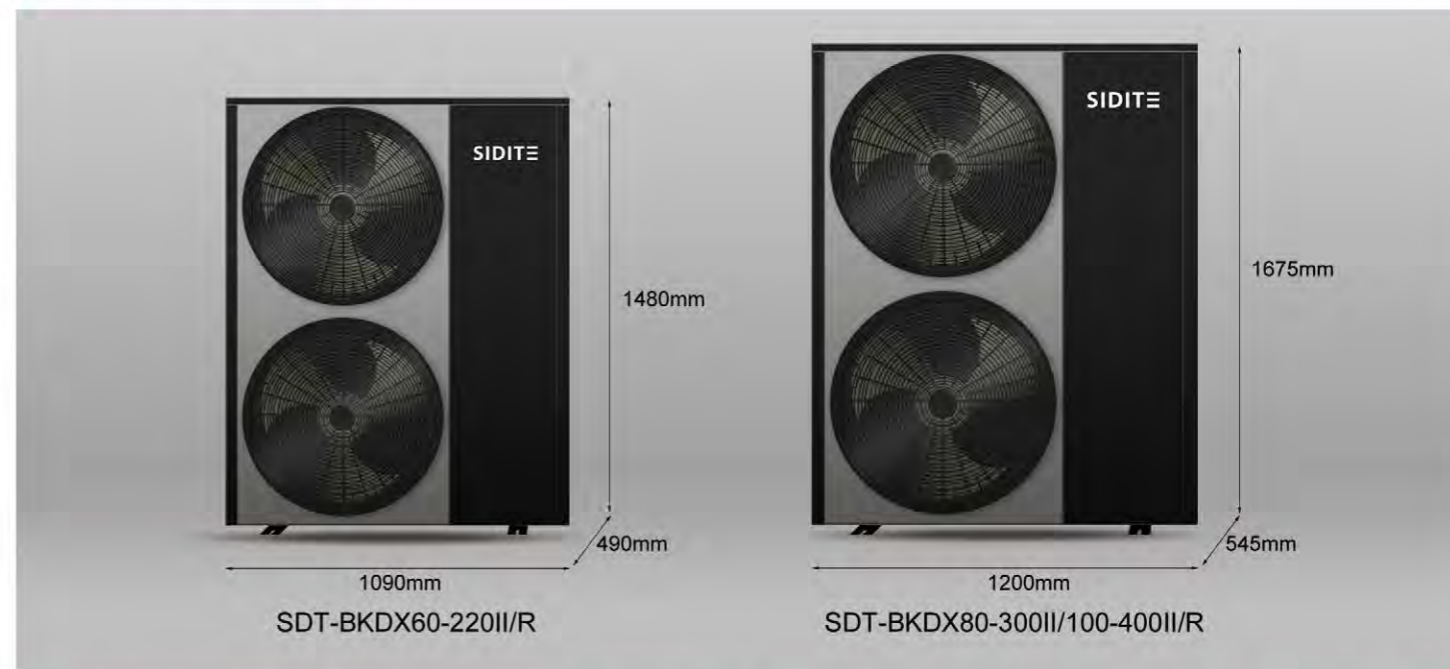
Model Name		SDT-FLM60-220II/R32	SDT-FLM80-300II/R32	SDT-FLM100-400II/R32
Rated heating capacity	KW	5.6~23	7.5~30	9.5~40
Rated hot water capacity	KW	5.2~22	7.0~28	9.0~38
Rated cooling capacity	KW	5.6~16	6.5~22	8.0~28
Heating power consumption	KW	2.5~6.9	3.5~9	4.5~11
Hot water power consumption	KW	2.5~6.9	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°C / Heating: 45°C / Cooling: 12°C		
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
Compressor	Quantity	/	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
Circulation pump	built-in	SHIMGE	Inverter Water Pump	/
Expansion tank	built-in	L	5	8
Ambient temperature	°C	(-25°C -- 43°C)	(-25°C -- 43°C)	(-25°C -- 43°C)
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		SDT-BKDX30-95II/R	SDT-BKDX40-150II/R	SDT-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
Compressor	Quantity	/	1	1
	Brand	/	Mitsubishi	Mitsubishi
	Net size	mm	1050*470*970	1050*470*1345
Outdoor unit	Weight	Kg	100	110
	Nosie level	dB(A)	≤50	≤52
Heat exchanger	/	Sweden SWEP Plate heat exchanger		
Fan	Form	/	Full DC fan motor	
Auxiliary Element	built-in	KW	3	3
Circulation pump	built-in	/	√	√
Expansion tank	built-in	L	5	5
Ambient temperature	°C	(-25°C -- 43°C)		
Pipe diameter		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°C A+++ / 55°C A++	35°C A++ / 55°C A+	35°C A+++ / 55°C A++

Parameter



Model Name		SDT-BKDX60-220II/R	SDT-BKDX80-300II/R	SDT-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
Compressor	Quantity	/	1	1
	Brand	/	Mitsubishi	Mitsubishi
	Net size	mm	1050*470*1345	1161*476*1550
Outdoor unit	Weight	Kg	145	170
	Nosie level	dB(A)	≤52	≤58
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
Ambient temperature	°C	(-25°C -- 43°C)		
Pipe diameter		DN25		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°C A+++ / 55°C A++	/

Pioneer Series



Parameter



Model Name		SDT-BKDX30-95II/R32	SDT-BKDX40-150II/R32	SDT-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°C / Heating: 45°C / Cooling: 12°C		
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		
	Form	/	Double-rotor type	Double-rotor type
Compressor	Quantity	/	1	1
	Brand	/	Japanese Panasonic brand with Inverter + EVI technology	
	Net size	mm	1050*460*838	1050*460*1343
Outdoor unit	Weight	Kg	100	130
	Nosie level	dB(A)	≤49	≤52
Heat exchanger	/	Sweden SWEP Plate heat exchanger		
Fan	Form	/	Full DC fan motor	
Fan motor	PCS		1	2
Auxiliary Element	built-in	KW	3	3
Circulation pump	built-in	Wilo	RS-15/6	RS-25/8
Expansion tank	built-in	L	2	5
Ambient temperature	°C		(-25°C -- 43°C)	(-25°C -- 43°C)
Pipe diameter			DN25	DN25
Packing size	mm		1100*480*1000	1100*480*1500
ErP Energy class	/		35°C A+++ / 55°C A++	35°C A+++ / 55°C A++
20"GP container loading	pcs		48	24
40"HQ container loading	pcs		96	48

Parameter



Model Name		SDT-BKDX80-300II/R32	SDT-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°C / Heating: 45°C / Cooling: 12°C		
Rated water flow	m³/h	6	7	
Refrigeration	/	R32	R32	
Rated of waterproof	/	IPX4	IPX4	
Control mode	/	Heating / Cooling / DHW / Heating+DHW/ Cooling+DHW		
	Form	/	Double-rotor type	
Compressor	Quantity	/	1	
	Brand	/	Japanese Panasonic brand with Inverter + EVI technology	
	Net size	mm	1215*490*1558	1215*490*1558
Outdoor unit	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°C -- 43°C)	(-25°C -- 43°C)
Pipe diameter			DN40	DN40
Packing size	mm		1295*520*1720	1295*520*1720
ErP Energy class	/		35°C A+++ / 55°C A++	/
20"GP container loading	pcs		16	16
40"HQ container loading	pcs		36	36

Compressor

DC Inverter Compressor

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.

Dual rotor
Dc inverter

R32
Refrigerant

-25°C
Operation

200%
Heat Output




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

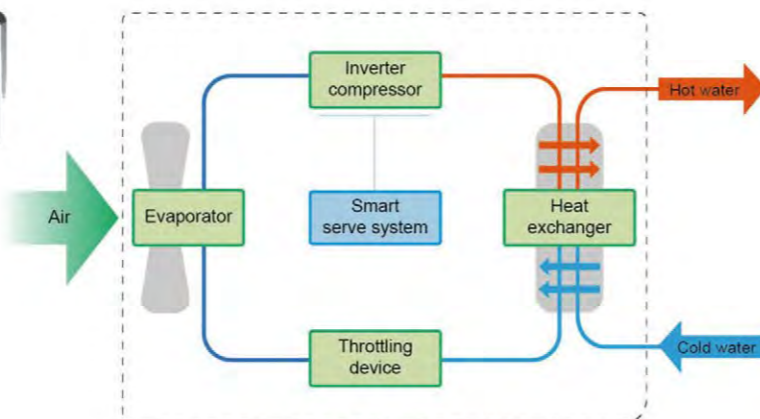
75%
Energy Saving

-25°C
Low Temp Operation

Inverter

Cool&Heat

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



Eco-Friendly Application

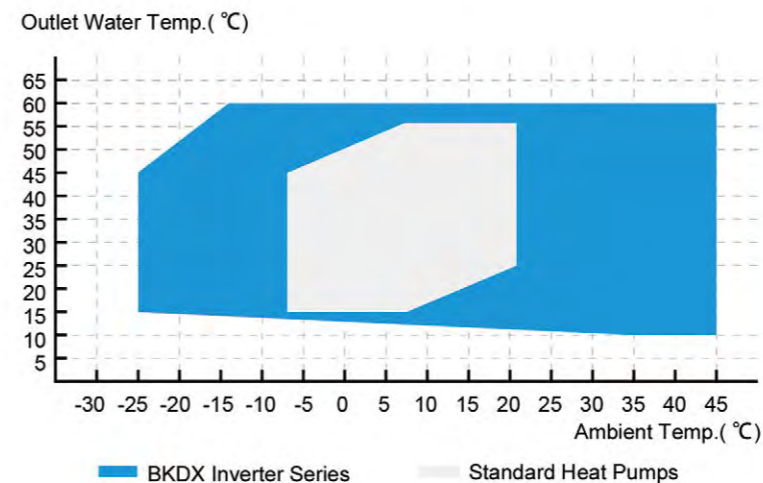
Fan coil heating

Sanitary hot water

Heat Pump

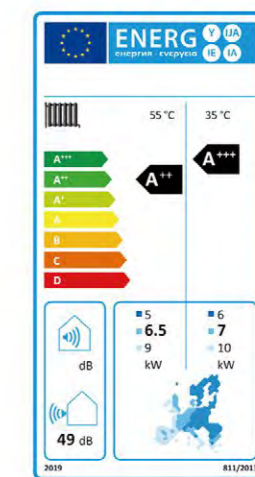
Radiator

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 energy efficiency high.

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
- + Built-in inverter water pump
- + Built-in 3KW electric heater
- + Built-in expansion tank
- + More multifunctional connection

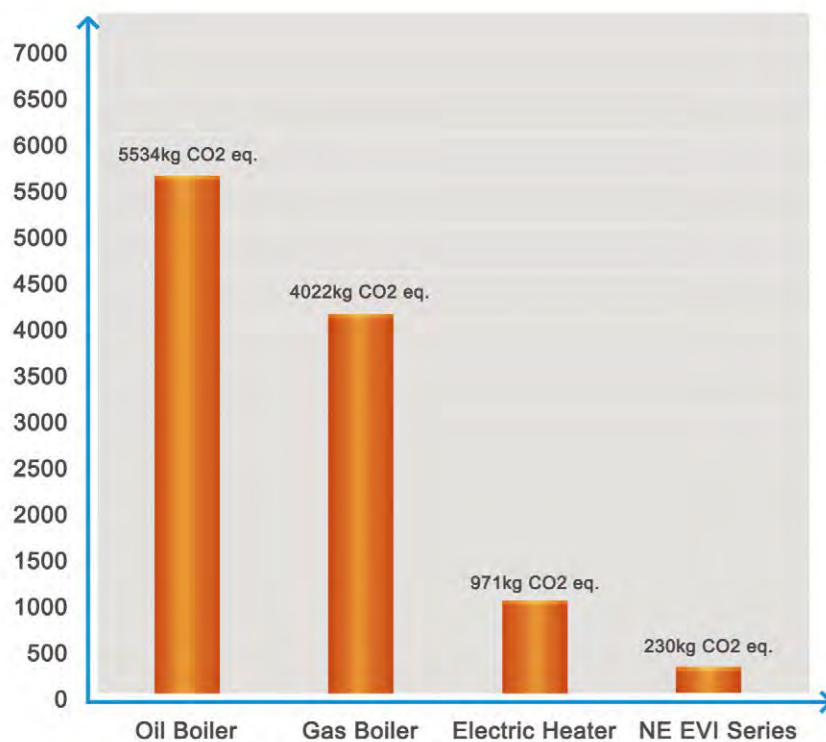
Pilot II Series



Split DC Inverter Heat Pump

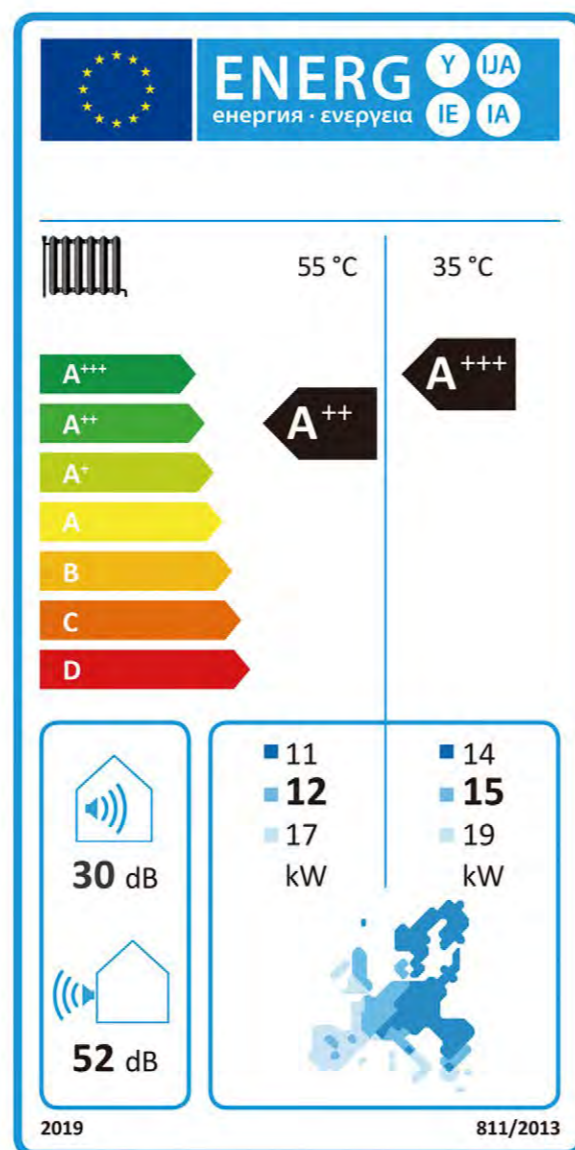
- ⊕ R32/R410a refrigerant, with Mitsubishi 10Hz~120Hz double rotor DC Inverter compressor, lower noise but more efficient.
- ⊕ Split system with better heating conditions. Well defrosting function and high working stability.
- ⊕ Simple controlling system for using.
- ⊕ Intelligent EEV achieve higher 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

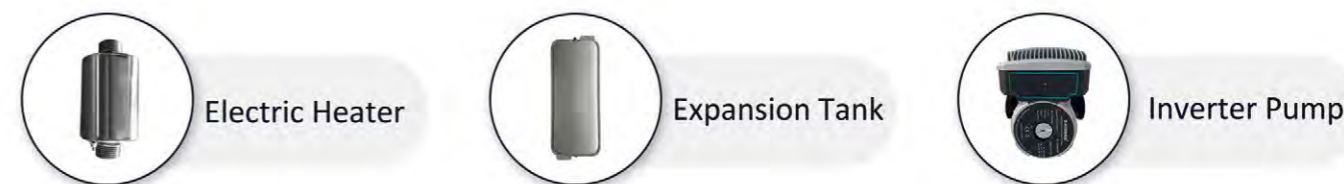


Annual GHG emissions (kg CO2eq.) - Heating only(Victoria, Canada)		
Fuel	Cop	CO2 Emission from Building 1500 ft2 (140m2)
Electricity	0.95	971
Gas	0.84	4022
Oil	0.84	5534

Data provided by CGC



Product Advantages



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 conducive 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.

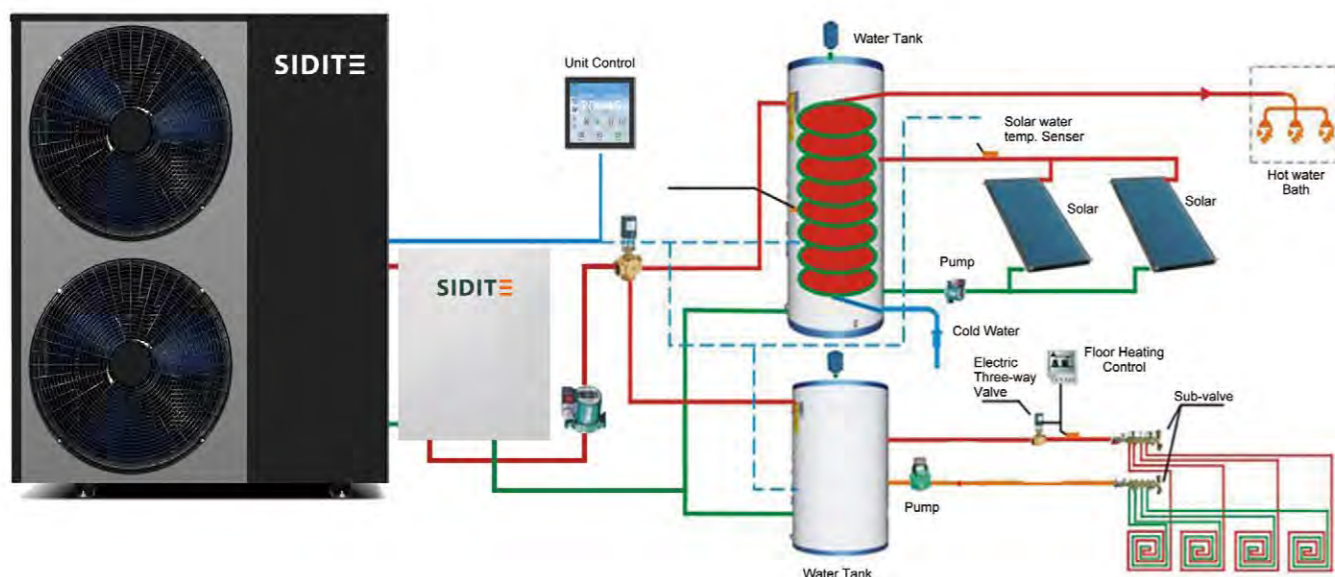


conditions and broaden the application range of the unit.stronger anti-corrosion feature and performs higher efficiency.

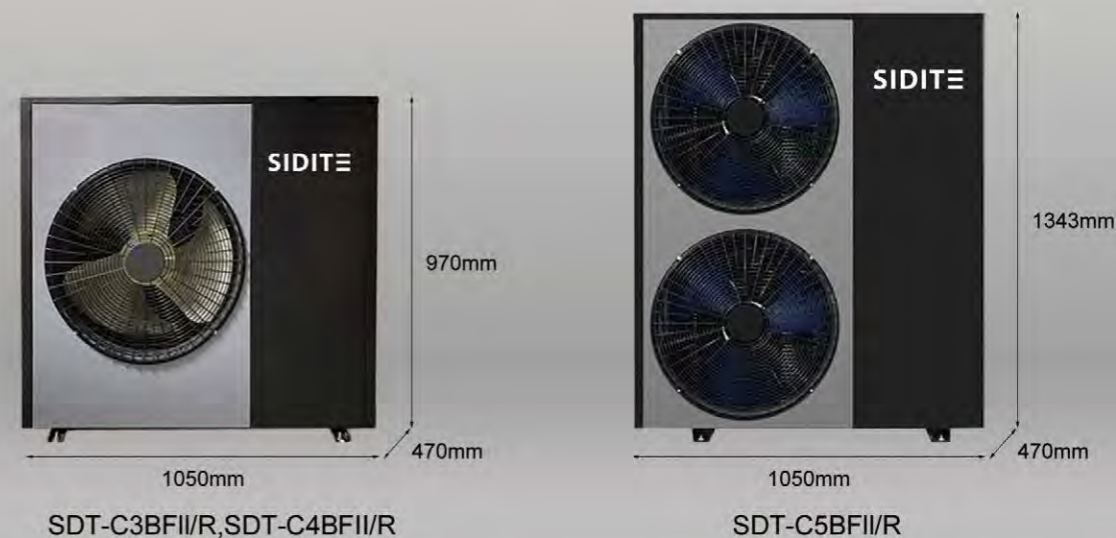


The world famous brand electronic expansion valve controls the volume of the refrigerant accurately and reduces energy consumption.

Production Installation



Parameter



Model Name		SDT-C3BFII/R	SDT-C4BFII/R	SDT-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°C / Heating 45°C / Cooling 12°C		
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
Auxiliary Element	KW	3	3	3
Heat exchanger	/	SWEP Plate heat exchanger	SWEP Plate heat exchanger	SWEP Plate heat exchanger
Build-in water pump	/	√	√	√
Indoor unit				
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°C -- 43°C)		
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.

Polar X Series



Mitsubishi DC Inverter Compressor



Dual rotor
Dc inverter

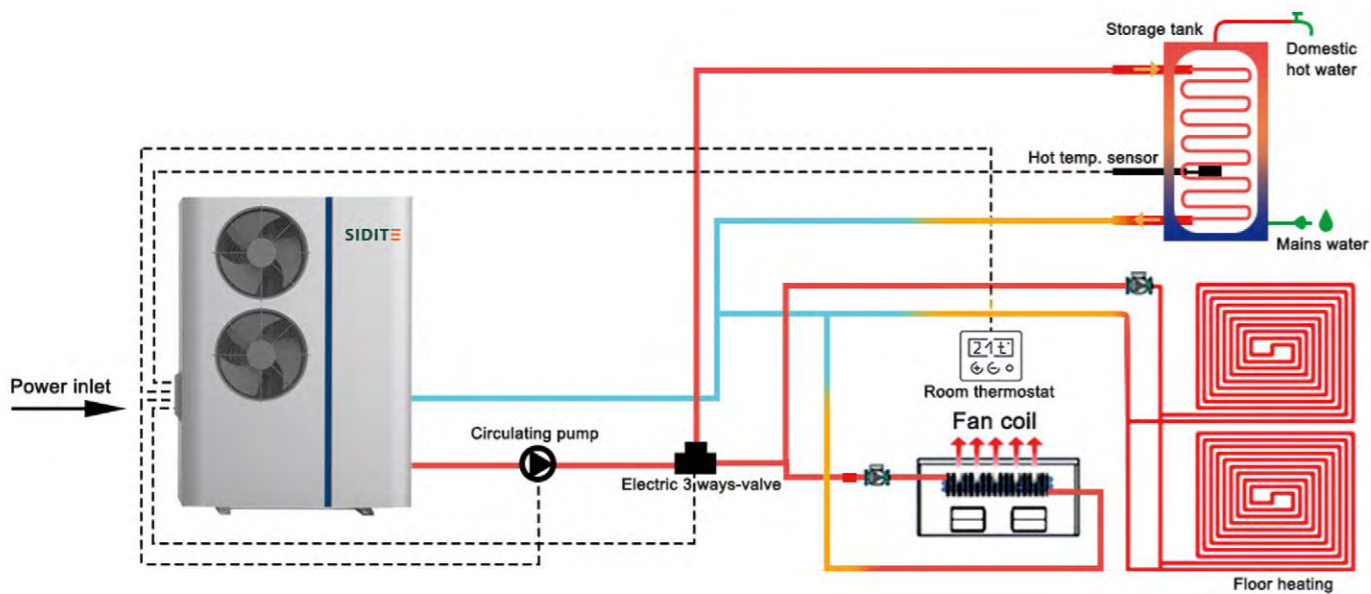
R32
Refrigerant

-25°C
Operation

200%
Heat Output

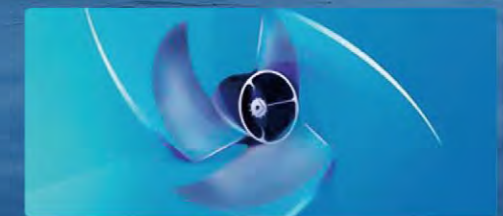
Quickly heating&energy saving,automatic to change the power input, adapted dual-rotor balance technology,operation peaceful,low noise and longer life time.Stably running down to -25°C,heating capacity output increased 200% in low temperature.

Production Installation



Huge evaporator with strong heating exchanging ability

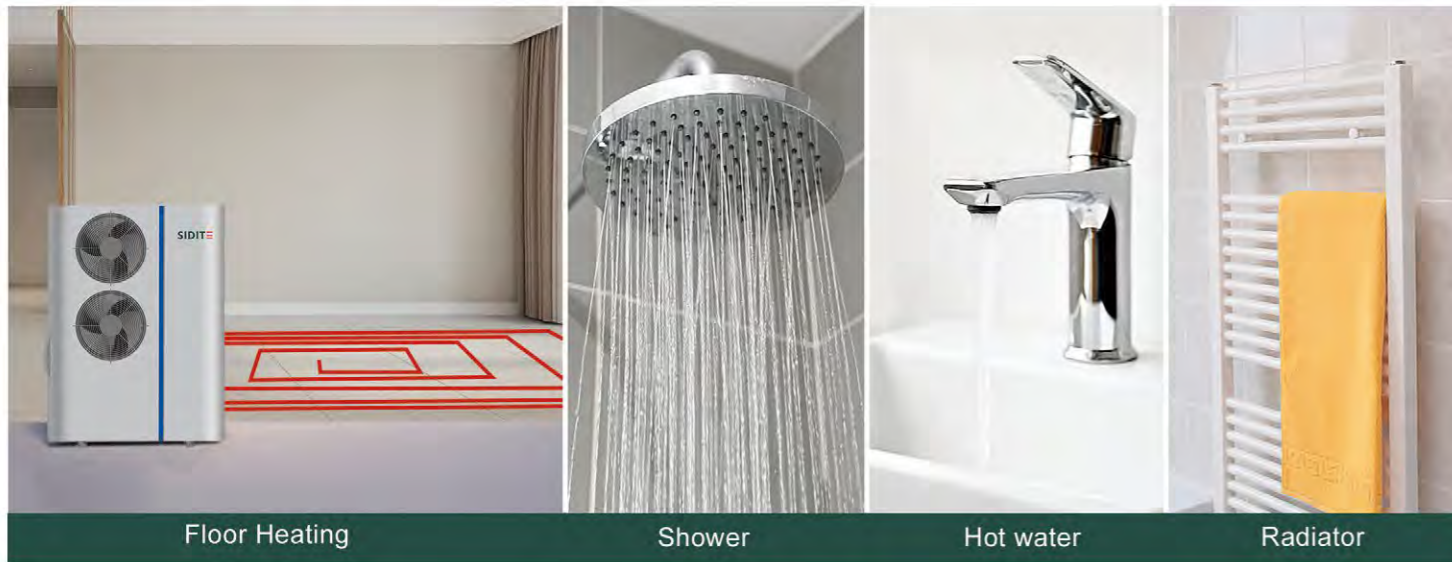
The evaporator has 40% larger heat exchange area than other suppliers. Ensure that the strong heating capacity can be output stably in the ultra-low temperature.



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

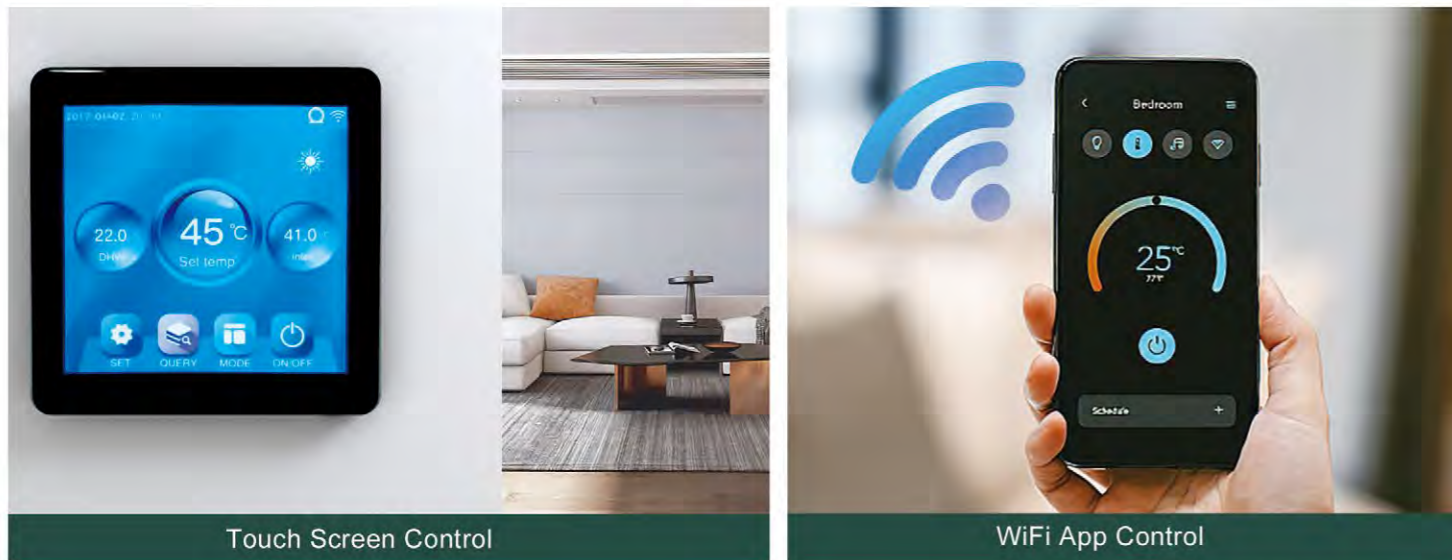


Floor Heating

Shower

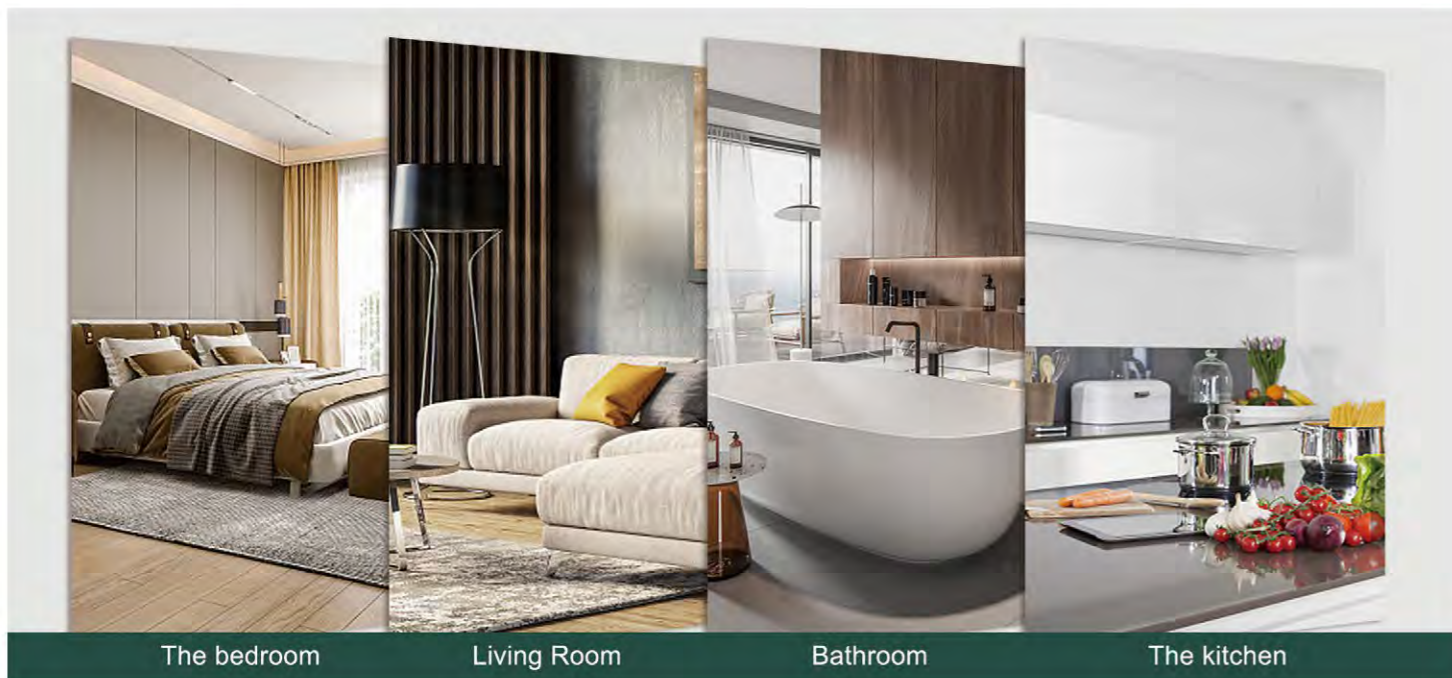
Hot water

Radiator



Touch Screen Control

WiFi App Control



The bedroom

Living Room

Bathroom

The kitchen

Parameter



SDT-B245II/R32,SDT-B300II/R32

SDT-B345II/R32

Model Name		SDT-B245II/R32	SDT-B300II/R32	SDT-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	m³/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
	Quantity	/	1	1
	Brand	/	Mitsubishi Inverter	Mitsubishi Inverter
Outdoor unit	Net size	mm	900*350*1250	975*350*1350
	Weight	Kg	90	92
Fan	Nosie level	dB(A)	≤50	≤50
	Form	/	Smart fan motor	Smart fan motor
Operation ambient temperature	°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++

R32 Mini Spa Pool Air Source Heat Pump



Surfer Series

Parameter



Model Name	SDT-M10Y/32	SDT-M15Y/32	SDT-M18Y/32	SDT-M22Y/32	
Advised pool volume	5~15	10~20	12~22	12~25	
Power source	220V~240V ~50hz ~1 phase				
Operating ambient temp	(7°C ~ 43°C)				
Casing type	Galvanized steel case				
Funtions	Heating only				
Refrigerant	R32	R32	R32	R32	
Heating: (Air 26°C	Capacity(KW)	2.91	4.2	5.2	6.5
Water 26°C/ Humidity 80%)	Power input(KW)	0.58	0.83	1.07	1.32
Heating: (Air 15°C	COP (W/W)	4.98	5.04	4.89	4.88
Water 26°C/ Humidity 70%)	Capacity (KW)	1.80	2.86	4.08	5.06
	Power input (KW)	0.55	0.76	1.04	1.29
	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	



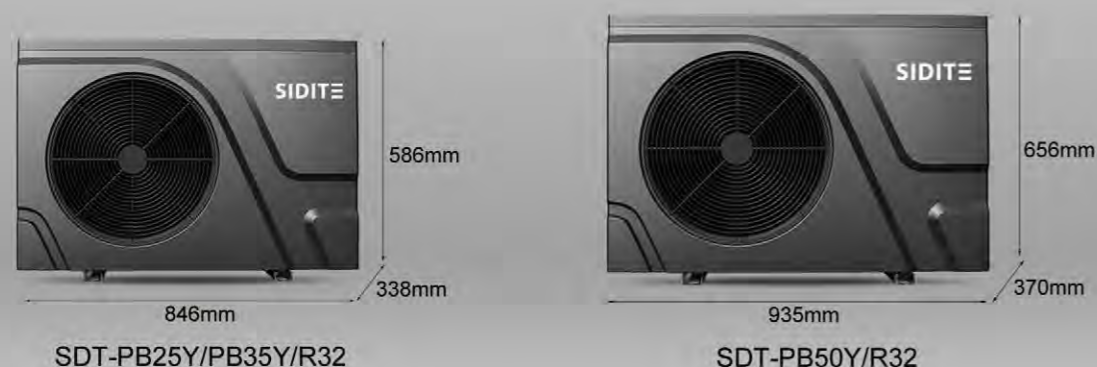
R32 DC Inverter Swimming Pool Heat Pump

Swimming Pool Heating/Cooling Application Expert



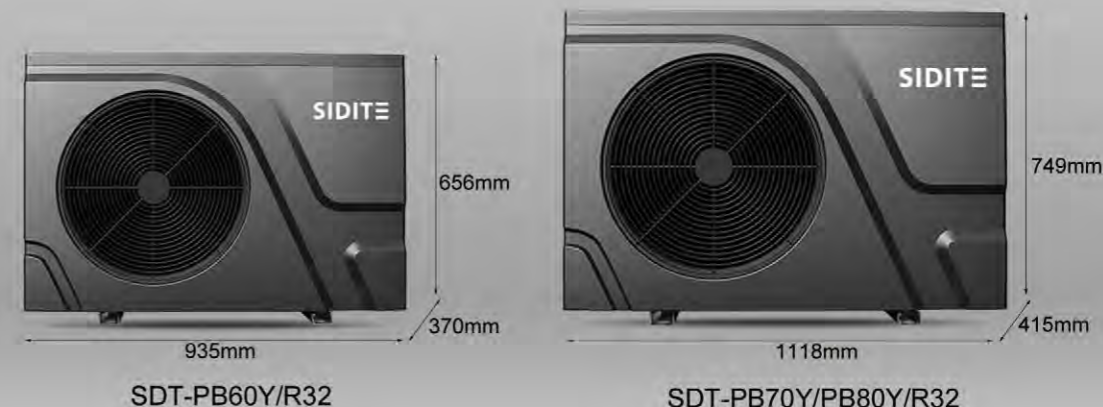
SEAL INVERTER SERIES

Parameter



Model Name	SDT-PB25Y/32	SDT-PB35Y/32	SDT-PB50Y/32	
Heating: (Air 26°C)	Capacity(KW)	7.64	10.20	16.30
Water 26°C/	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°C)	Capacity (KW)	5.48	7.20	12.00
Water 26°C/	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°C ~ 43°C)			
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	SDT-PB60Y/32	SDT-PB70Y/32	SDT-PB80Y/32	
Heating: (Air 26°C)	Capacity(KW)	18.40	21.20	25.20
Water 26°C/	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°C)	Capacity (KW)	14.30	16.50	18.40
Water 26°C/	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°C ~ 43°C)			
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



SDT-PG90Y/PG104Y/R32

Model Name	SDT-PG90Y/32	SDT-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 (°C)	(-12°C ~ 43°C)		
Casing type	Galvanized Steel Case		
Refrigerant	R32		
Heating: (Air 26°C)	Capacity(KW)	28	32
Water 26°C/	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°C)	Capacity (KW)	22.5	25.5
Water 26°C/	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		

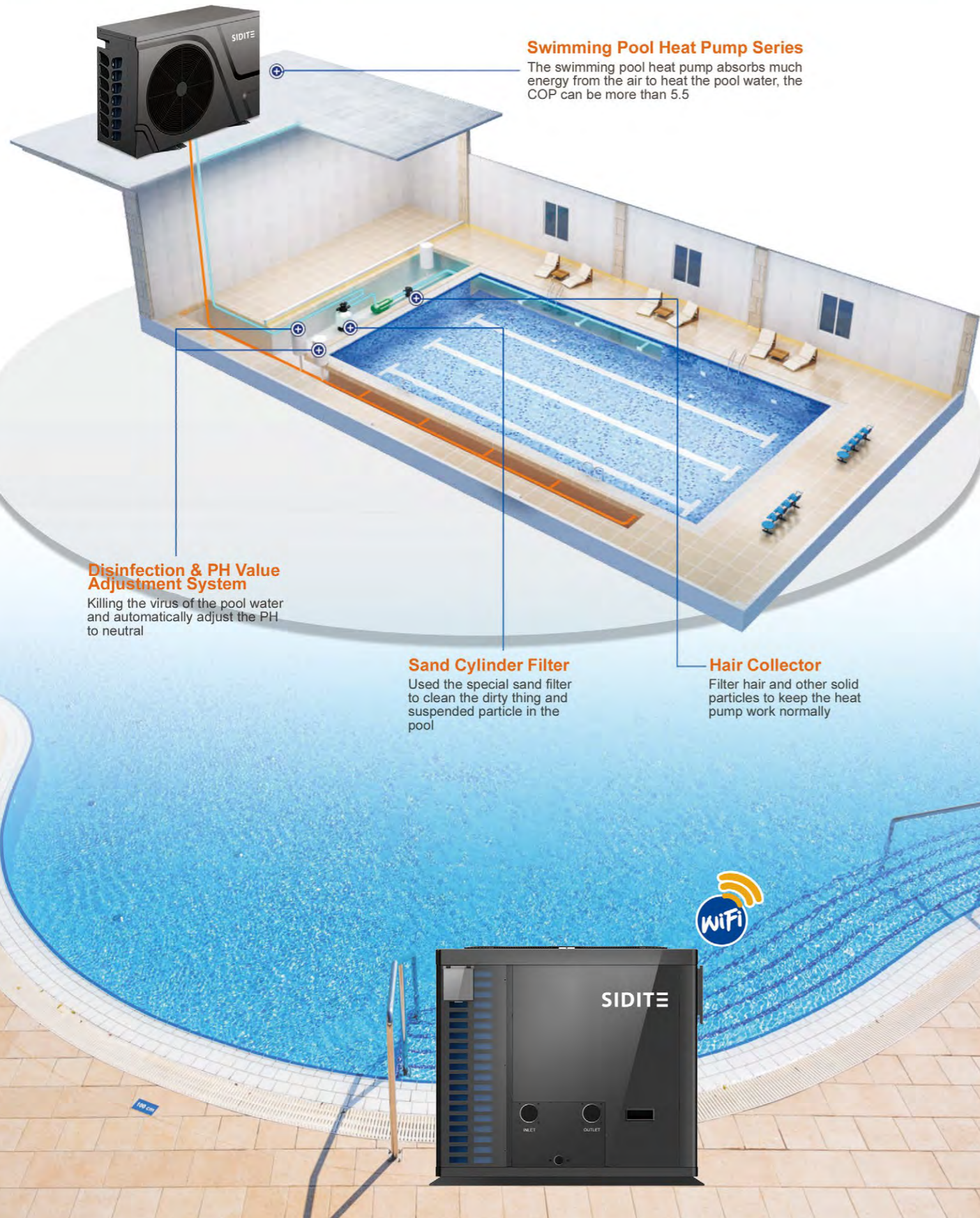
Parameter



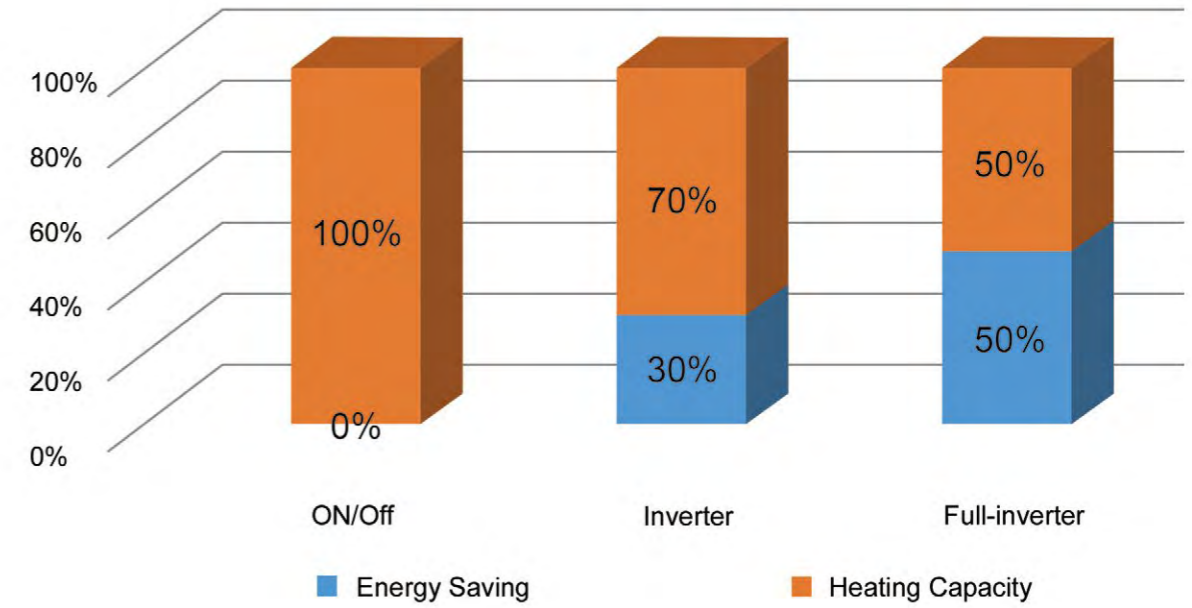
SDT-PG120Y/PG140Y/R32

Model Name	SDT-PG120Y/32	SDT-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 (°C)	(-12°C ~ 43°C)		
Casing type	Galvanized Steel Case		
Refrigerant	R32		
Heating: (Air 26°C)	Capacity(KW)	38.5	42.3
Water 26°C/	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°C)	Capacity (KW)	31.2	33.9
Water 26°C/	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		

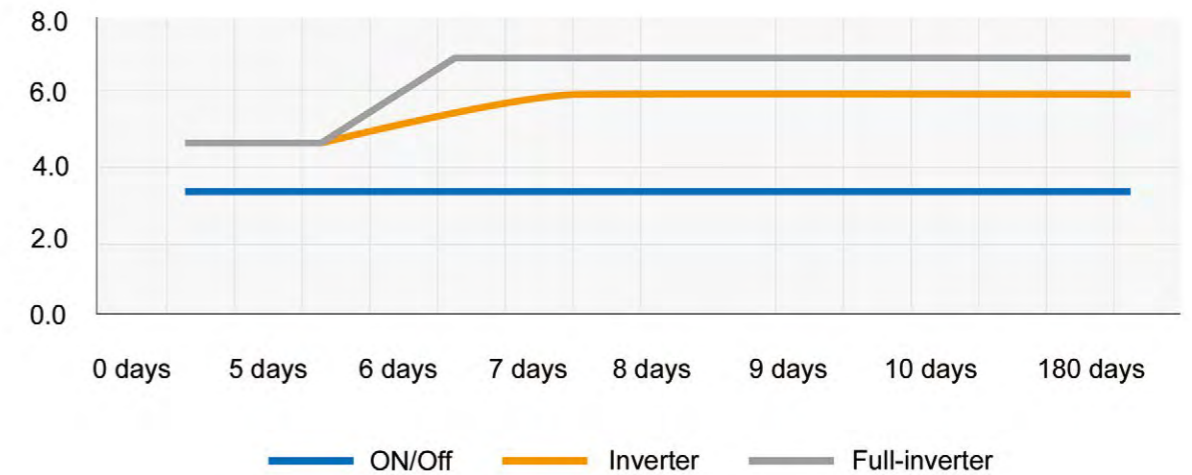
Installation Diagram



Comparison Of Energy Saving



Cop During 180 Days



Household Domestic Hot Water Expert

All in one heat pump water heater



Smart Home Series



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, multiple 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 water 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



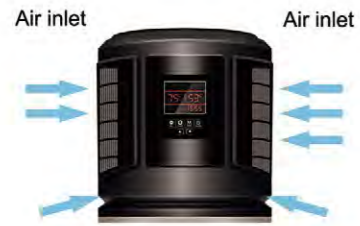
Bath



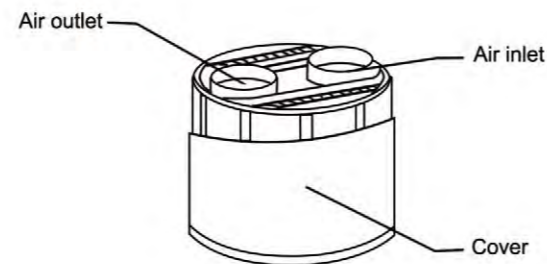
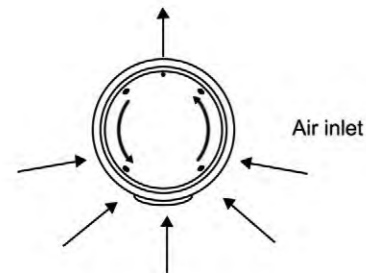
Kitchen

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		SDT-FR1.0/EN150	SDT-FR1.0/EN200	SDT-FR1.0/EN250	SDT-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	°C	55	55	55	55
Max outlet water temperature	°C	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	°C	-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	/	External 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

Mini Air Water Heat Pump Chiller

For Small Hot Water/Heating Project



75°C
Max Hot Water Temperature



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

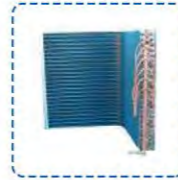
Model Name		SDT-B1.0S-P	SDT-B1.5S-P	SDT-B2.0S	SDT-B3.0S	
Rated heating capacity	KW	3.5	5.1	7.2	10.3	
Input power	KW	0.86	1.24	1.79	2.55	
Voltage (V)	V/Hz	220V-240V ~ 50Hz				
Rated output water temperature	°C	55°C				
Max output water temperature	°C	60°C or 75°C				
Rated output water quantity (L)	L	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°C ~ 43°C)				
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 configurations



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

Panasonic / GMCC Compressor

Fast heating & energy-saving, automatically control for different demand. Adopted twin-rotor spot-balance technology, running smoothly, lower noise, longer life time. Adapting to work stably in -10°C environment improve much heating capacity performance in low ambient environment.

- ▶ Twin-rotor type
- ▶ -10°C ultra low temperature
- ▶ 100% heating capacity production



Installation



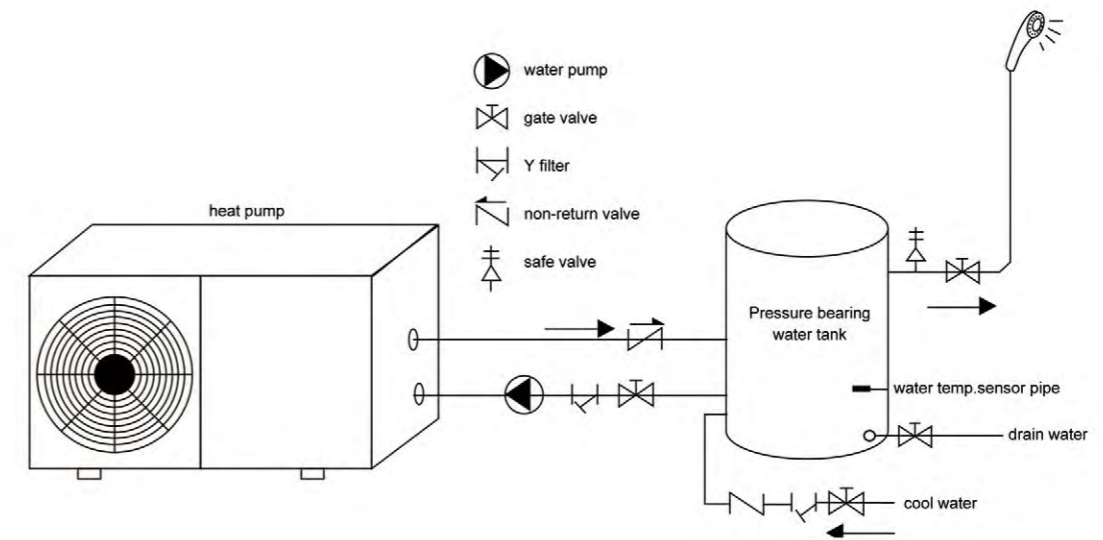
Energy Saving, Health, Safety

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.

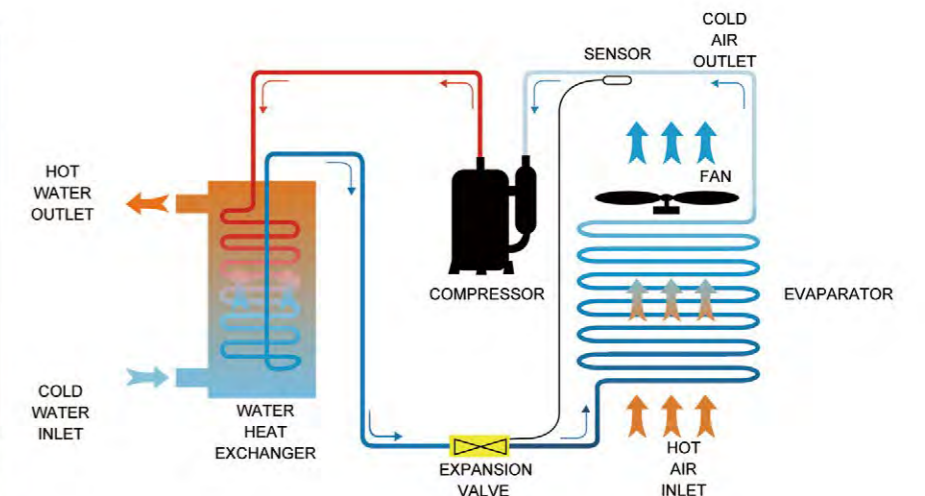


Full dimensional advection heat exchange technology

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



Working Principle



Commercial Swimming Pool Heat Pump



SIDITE

SIDITE

Parameter



SDT-B1.5Y



SDT-B2Y-B2.5Y



SDT-G3Y-G5Y-G6Y

Model Name		SDT-B1.5Y	SDT-B2Y	SDT-B2.5Y	SDT-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°C~28°C , Max temperature : 40°C				
Cooling water temperature	°C	Rated temperature : 12°C~15°C , Min temperature : 10°C				
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		SDT-G5Y	SDT-G6Y	SDT-G8Y	SDT-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°C~28°C , Max temperature : 40°C				
Cooling water temperature	°C	Rated temperature : 12°C~15°C , Min temperature : 10°C				
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



SDT-G8Y-G10Y-G12Y-G15Y



SDT-G20Y-G24Y-G30Y



SDT-G40Y-G50Y-G60Y

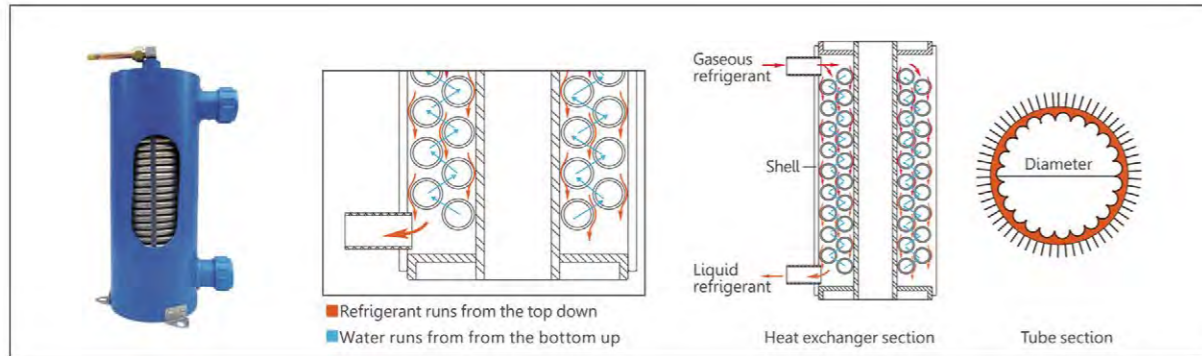
Model Name		SDT-G12Y	SDT-G15Y	SDT-G20Y	SDT-G24Y	
Rated heating capacity	KW	48.6	65	85	101	
Rated cooling capacity	KW	37.2	52.5	68.65	74.2	
Input power	KW	9.35	12.5	16.35	19.6	
COP	W/W	5.2	5.2	5.2	5.15	
Voltage	V/Hz	380V-400V / 50Hz / 3phase				
Heating water temperature	°C	Rated temperature : 26°C~28°C , Max temperature : 40°C				
Cooling water temperature	°C	Rated temperature : 12°C~15°C , Min temperature : 10°C				
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		SDT-G30Y	SDT-G40Y	SDT-G50Y	SDT-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°C~28°C , Max temperature : 40°C				
Cooling water temperature	°C	Rated temperature : 12°C~15°C , Min temperature : 10°C				
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

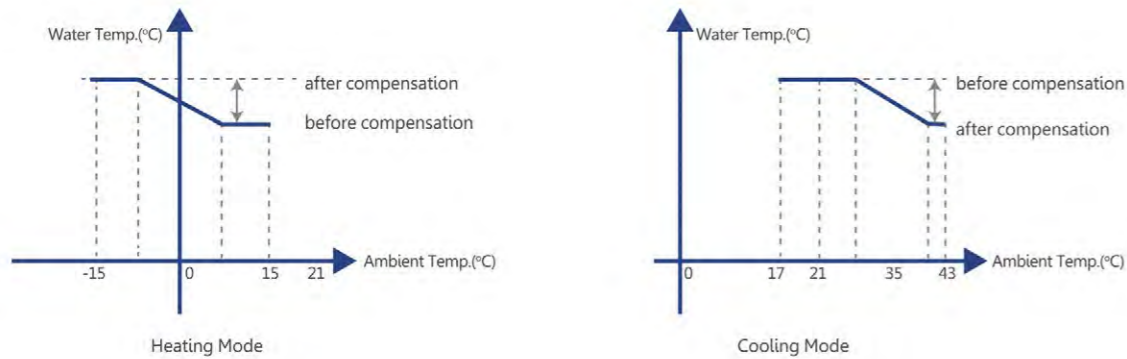
1. Patented Efficient Heat Exchanger

The patented high efficiency heat exchangers have a strong counter current design, and are helpful for refrigerant super-cooling. 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.



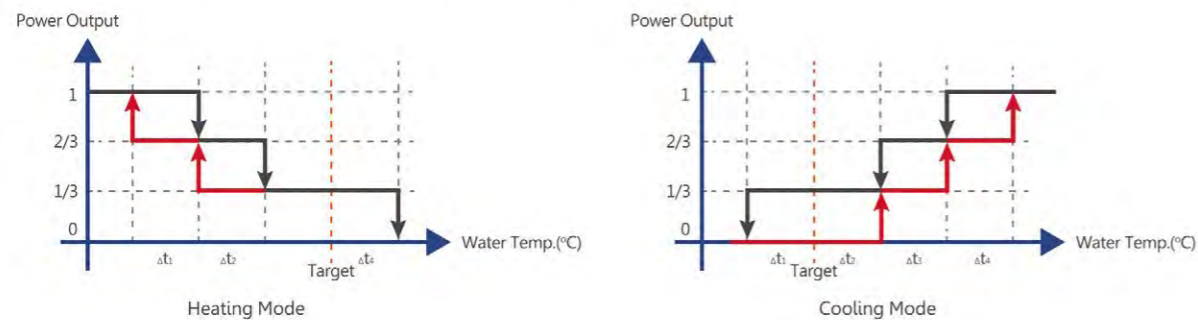
2. Temperature Compensation Technology

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



3. Compressor Interchange Control Logic

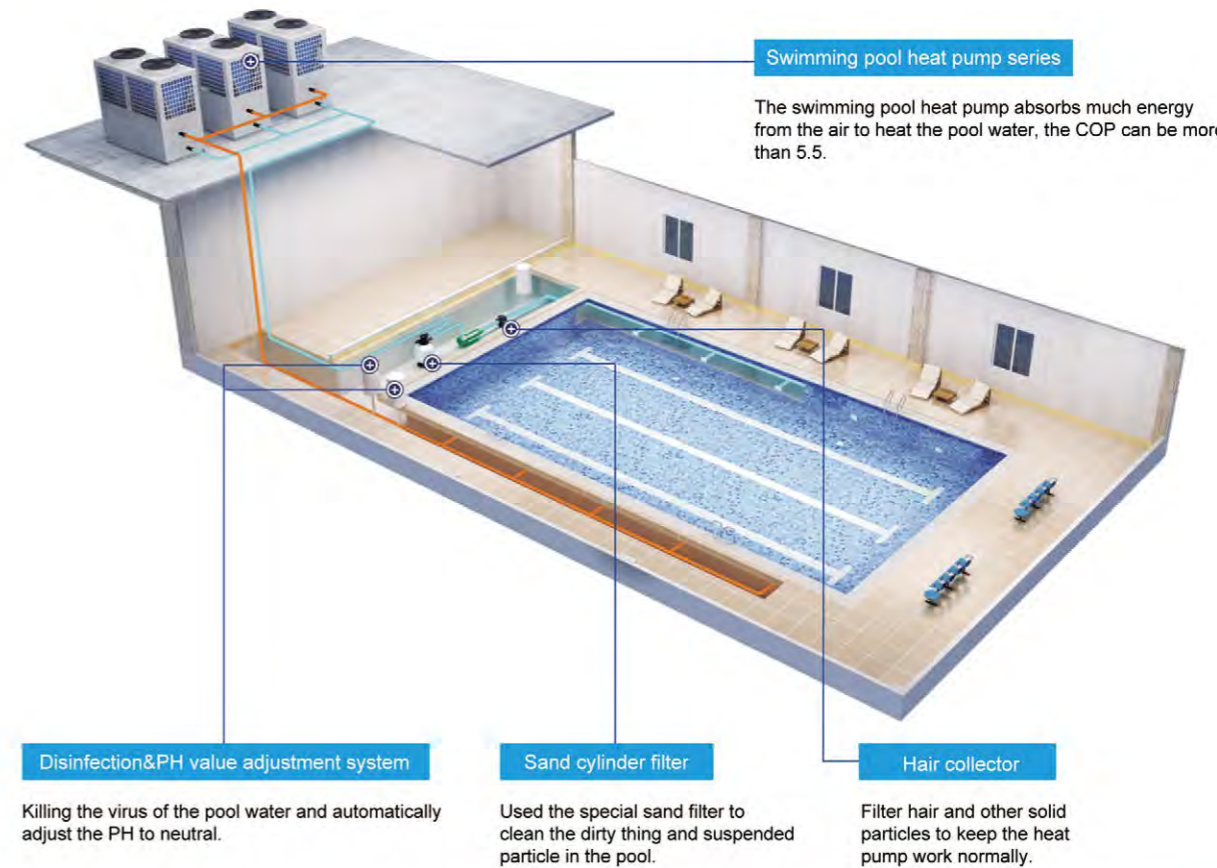
Compressor interchange control logic ensures only the energy required is delivered to the terminals with up to three compressors on or off, which provides you both comfortable temperatures and a longer service life of the units, while consuming less energy.



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



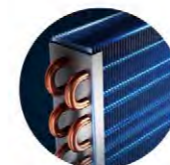
Detailed Features



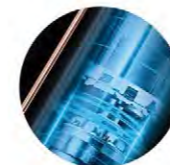
The world famous EEV (electronic expansion valve) is critical to PID control the volume of the refrigerant accurately and reduces energy consumption.



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.



Commercial AC Heat Pump Water Heater



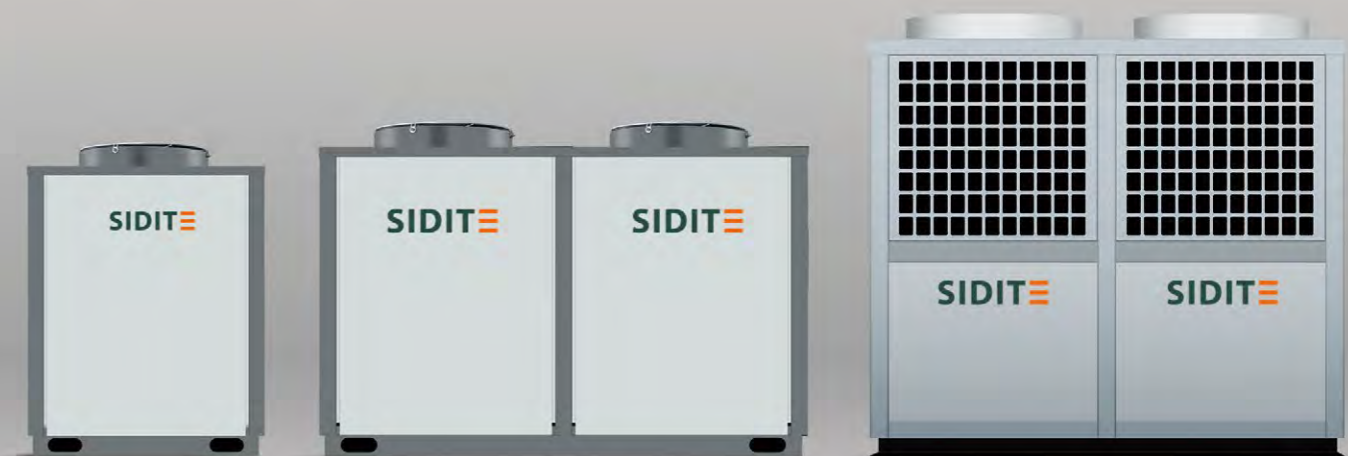
-10°C
Ambient Temperature

For central heating/cooling system

Jupiter Series



Parameter



SDT-G3K-G5K-G6K

SDT-G8K-G10K-G12K

SDT-G20K-G24K-G30K-G40K-G50K-G60K

Model Name		SDT-G3K	SDT-G5K	SDT-G6K	SDT-G8K	SDT-G10K	SDT-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		SDT-G20K	SDT-G24K	SDT-G30K	SDT-G40K	SDT-G50K	SDT-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



-25°C
Ambient
Temperature

Venus Series



For Central Heating/Cooling System

Parameter



SDT-G3KD-G5KD-G6KD

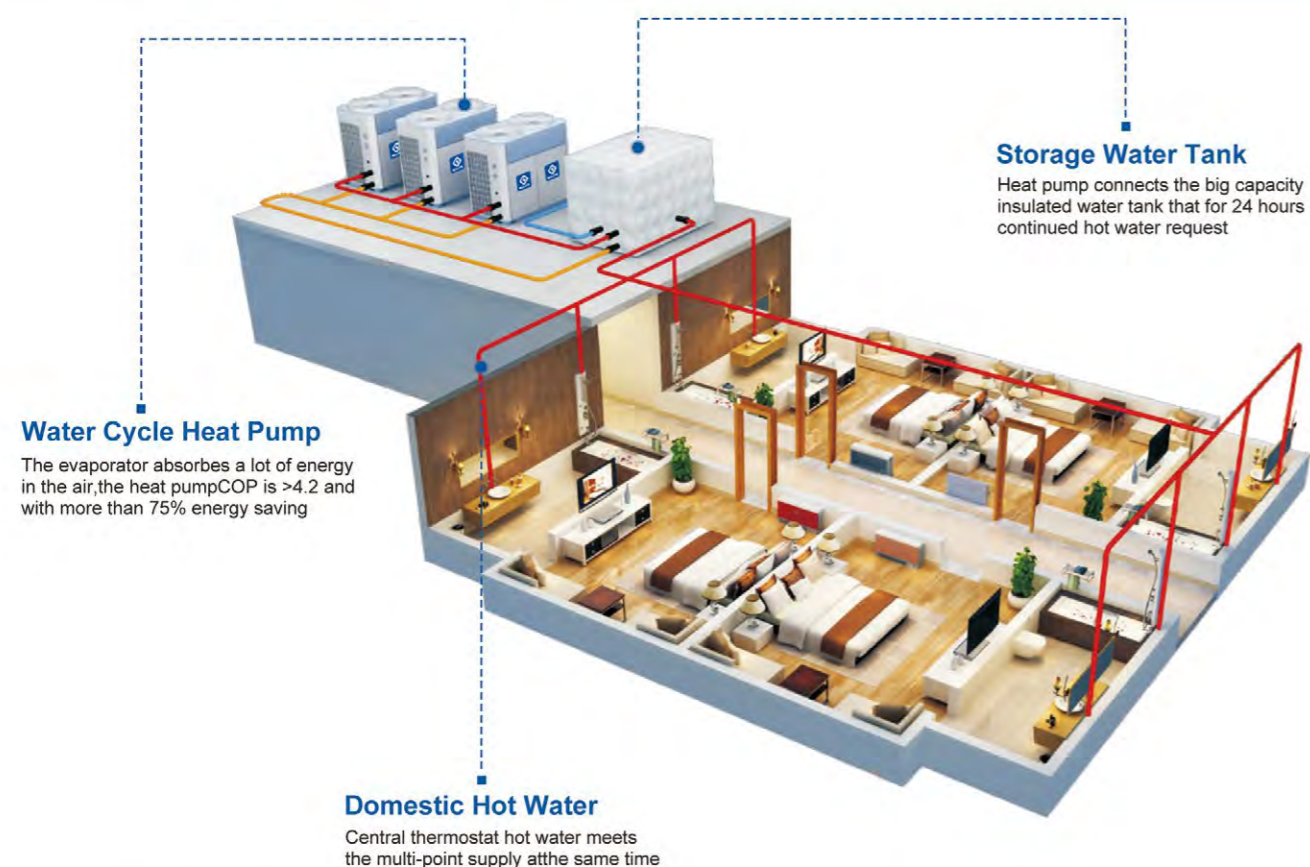
SDT-G8KD-G10KD-G12KD

SDT-G20KD-G24KD-G30KD
G40KD-G50KD-G60KD

Model Name		SDT-G3KD	SDT-G5KD	SDT-G6KD	SDT-G8KD	SDT-G10KD	SDT-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		SDT-G20KD	SDT-G24KD	SDT-G30KD	SDT-G40KD	SDT-G50KD	SDT-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

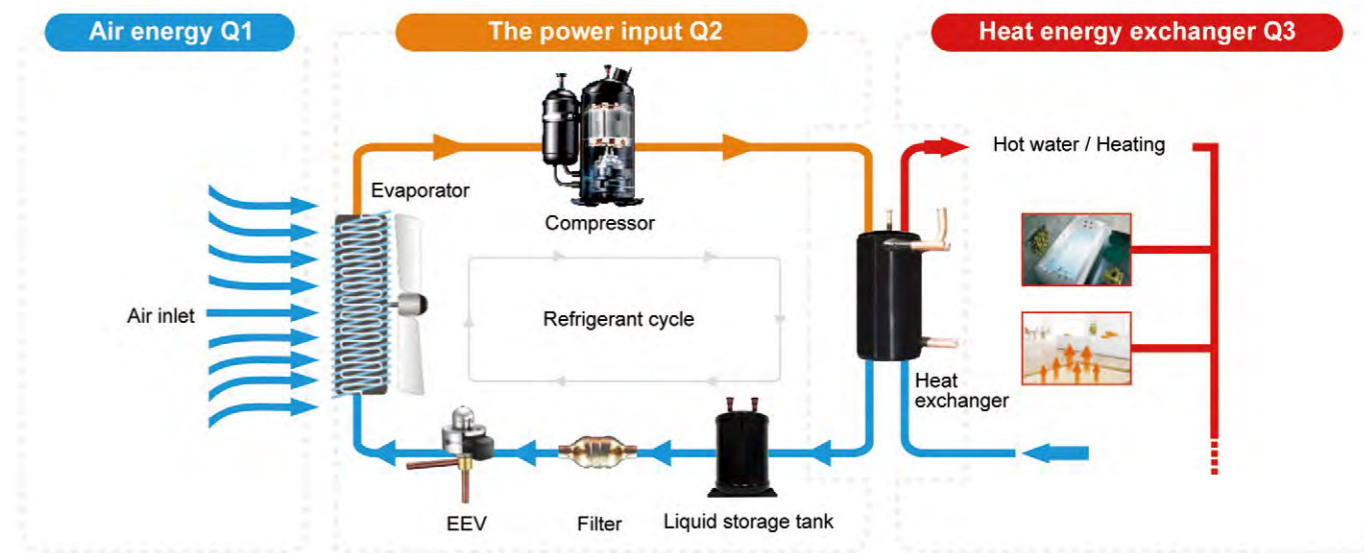


Multi-protection & Long Service Life

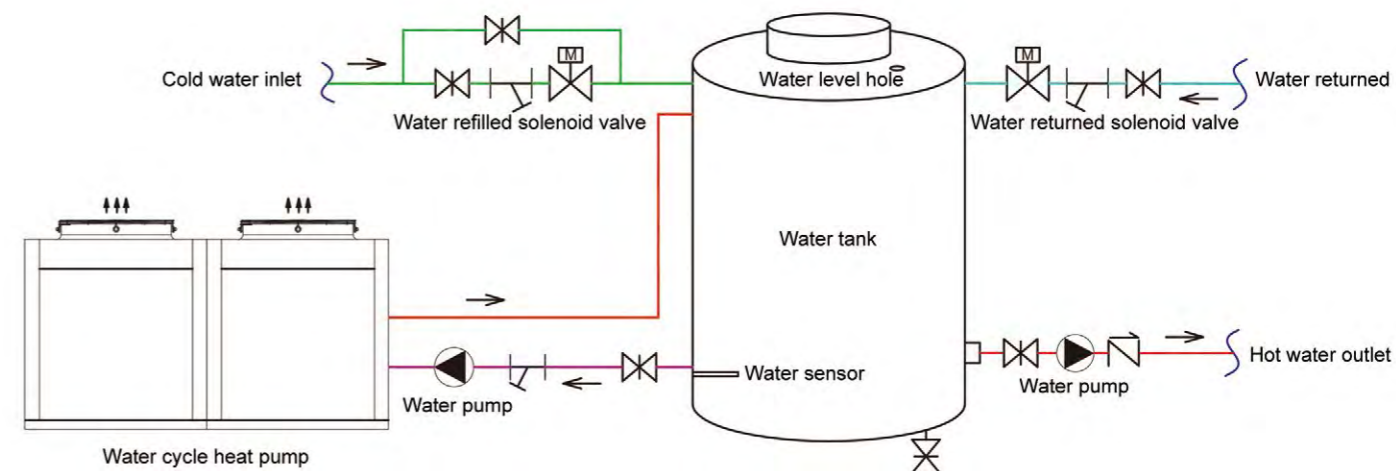
- Water Flow Switch Protection**
When the volume of the inlet water is lower than minimum set point, the unit automatically shuts down to protect the system. When the volume increases to a normal level, the unit starts up again.
- Antifreezing Protection**
When the water inlet temp. is too low, the water 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 pressure rises 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.



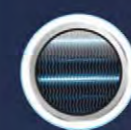
Working Principle



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 communication interface, linked switch.



High efficiency heat exchanger
Dedicated coaxial threaded tube in tube heat exchanger, efficient tube in shell heat exchanger, high heat transfer efficiency, corrosion 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.

EVI Commercial AC Heat Pump Water Heater



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.



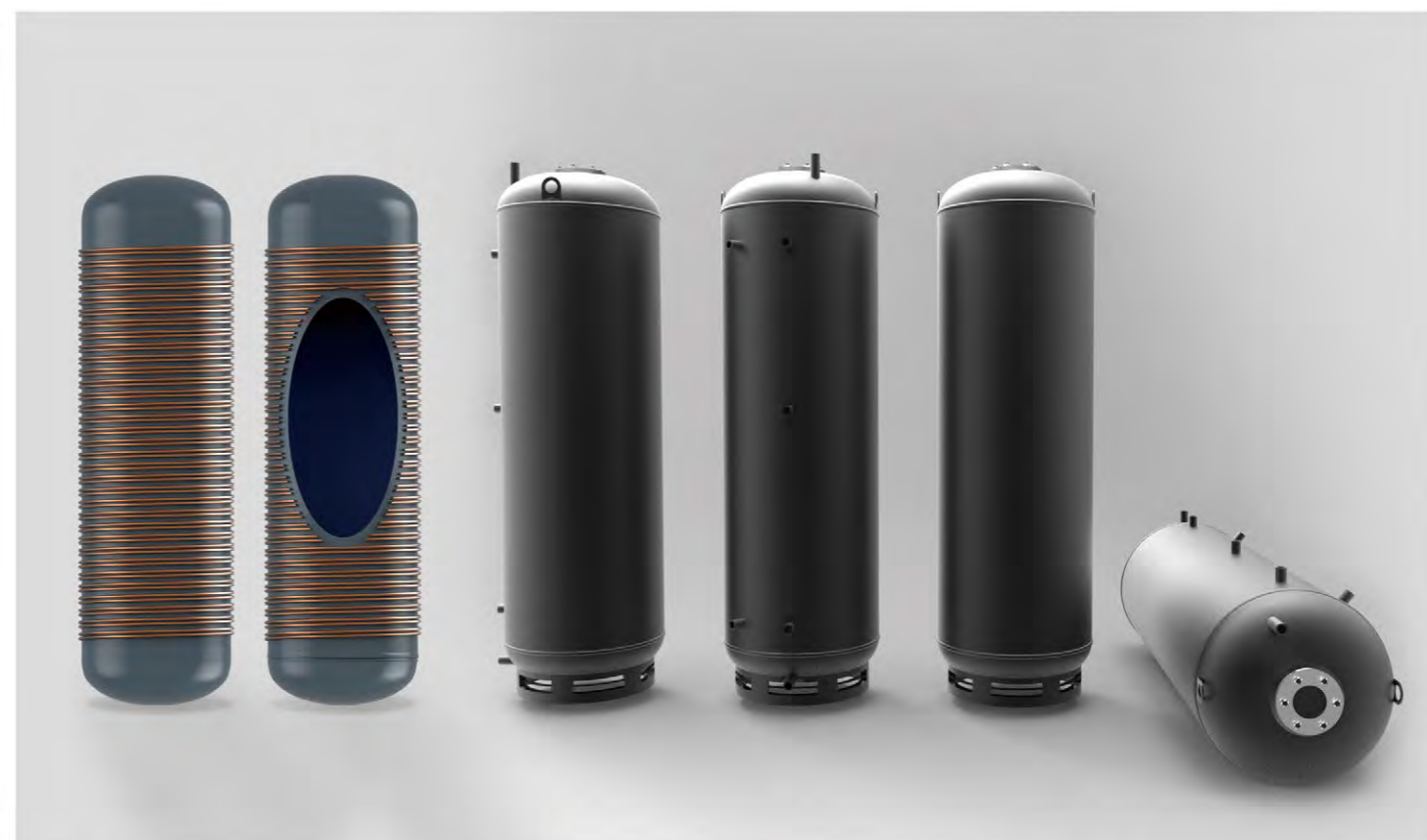
Inner tank material

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.



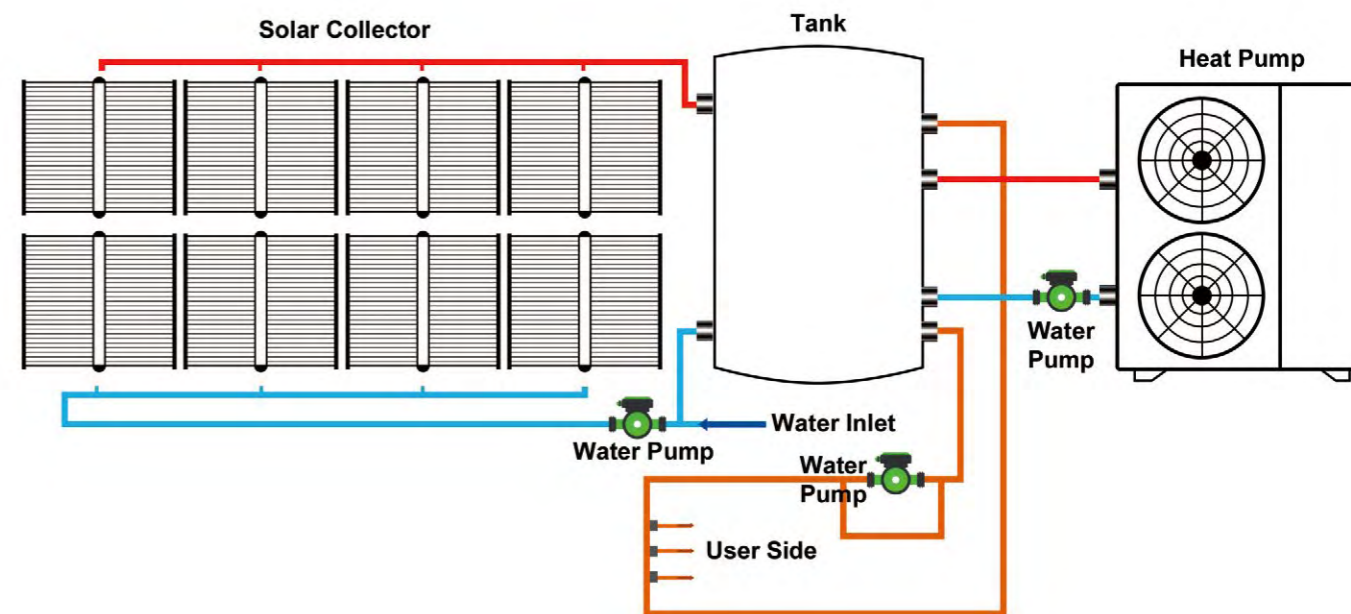
Model Name	Volume	Size(mm)	Inner tank material	Inner tank thickness(mm)	Insulation Materials Thickness
SDT-E150L	150L	470*1510mm	SPCC	2.0+0.05mm	50mm Polyurethane
SDT-E200L	200L	510*1615mm	SPCC	2.0+0.05mm	50mm Polyurethane
SDT-E260L	260L	570*1590mm	SPCC	2.0+0.05mm	50mm Polyurethane
SDT-E300L	300L	570*1805mm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



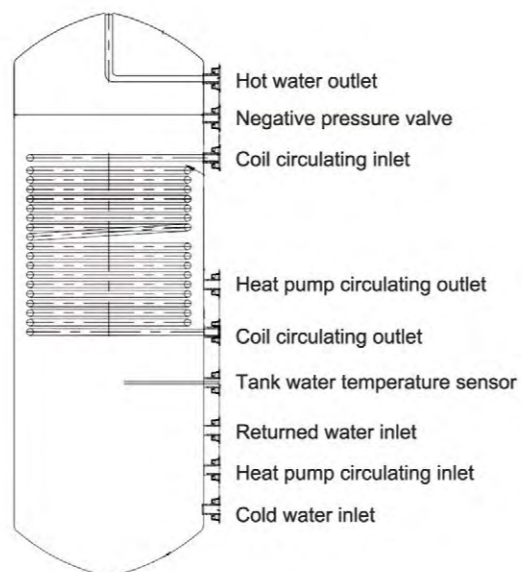
Parameter

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

Design 1

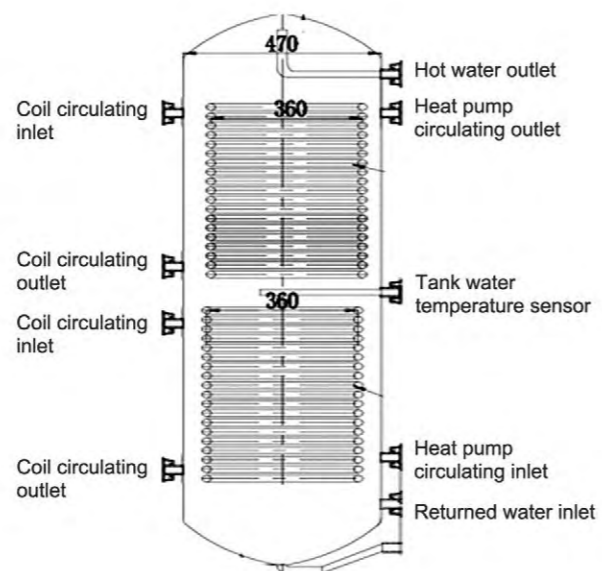
Built with one Serpentine coil inside for house heating system to use.

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



Design 2

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

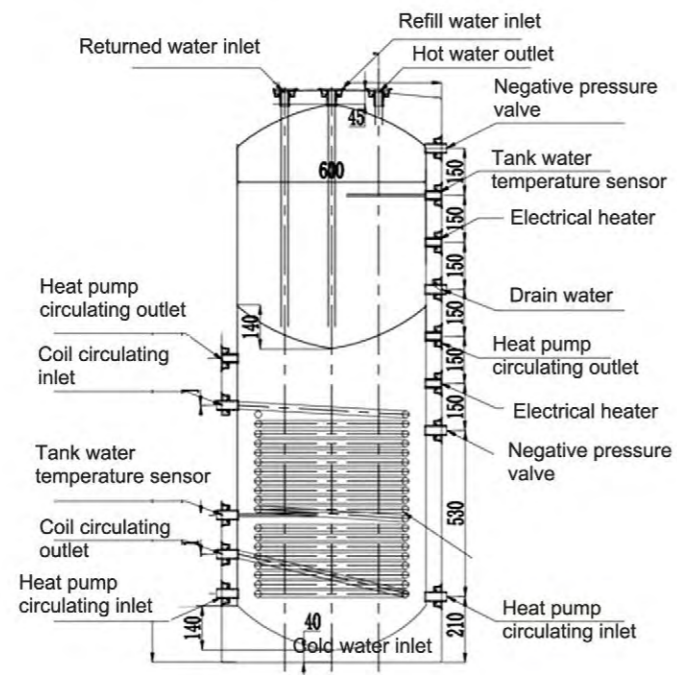


Design 3

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



Commercial Project Case I



Commercial Project Case II





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