

75%
ENERGY
SAVINGS

ENERGY FROM NATURE

**Heat Pump Water Heater for
Residential use**



EN 14511





RENEWABLE ENERGY SOLUTIONS FROM **SUNTEC**

Based on experience, Backed by Commitment

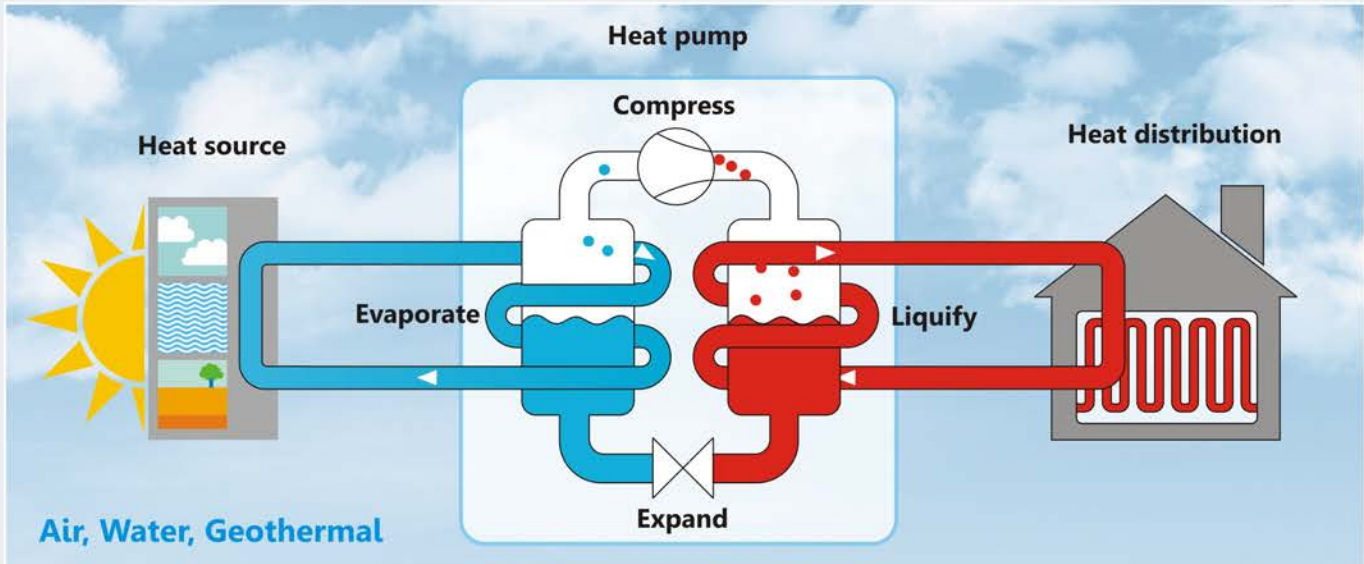
Over three decades of application knowledge

Over three decades various process industry sector have been reaping benefit of SUNTEC's cost effective, performance oriented process heat solutions by ensuring, conservation of energy & preserving Environment.

Besides providing solutions for combustion systems for Oil, Gas, Biomass to various industrial segments, Suntec now offer renewable energy solutions for Residential, Commercial & Industrial Heating & Cooling needs by offering suitable **HEAT PUMP** technology for each application.

Optimum selection of all components for each type of application to provide maximum efficiency & longer service life with minimum maintenance & down time.

Suntec now offers complete products for residential & commercial applications for heating & cooling with turn-key solutions.

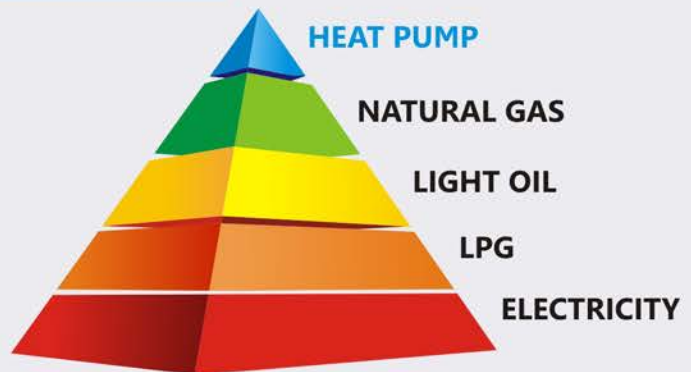


Heat Pumps uniquely convert unused “ambient heat” into heat of utilizable temperature by adding very little amount of primary energy without burning of fossil fuels as a source of CO₂ emission. Heat Pumps need electric energy that is only about one-fourth or even less to collect “one unit” of heat. Thus Heat Pumps produce heat energy that far exceeds the primary energy consumed as power stations, even if the loss in the process of generation of electricity is taken into consideration. Heat Pump operation totally favors green energy & helps to reduce global warming by cooling effect.

Key features

- Environment friendly no fossil fuel
- Energy cost reduce upto 75-80%
- Easy to install & maintain
- Safe & silent working
- 24x7 Hot water available
- Compatible with Solar system
- Early payback on investment
- Clean working area
- Minimal installation space

1kw/h=4.5kw/h



Item	Heat Pump Water Heater	Gas fired Water Heater		Oil Water Heater	Electric Water Heater
Source type	Electricity	NG	LPG	HSD	Electricity
Efficiency (assumed)	400%	87%	87%	87%	90-100%
Cost (Rs.)	8.00	45.00	75.00	65.00	8.00
Cost per day (Rs.)	18.60	58	72	62	82
Annual running cost (Rs.)	6790	17246	26280	22268	30180

Reference conditions

Ambient Temperature 20°C. 200 Lt/h water heating from 15°C to 55°C.

Prices mentioned are indicative & for reference only. Kindly refer local price for exact calculation.

SUNTEC SD-S series : Split type Heat Pump Water Heater

**Higher
COP ≥ 4
up to 75%
Energy
Savings**



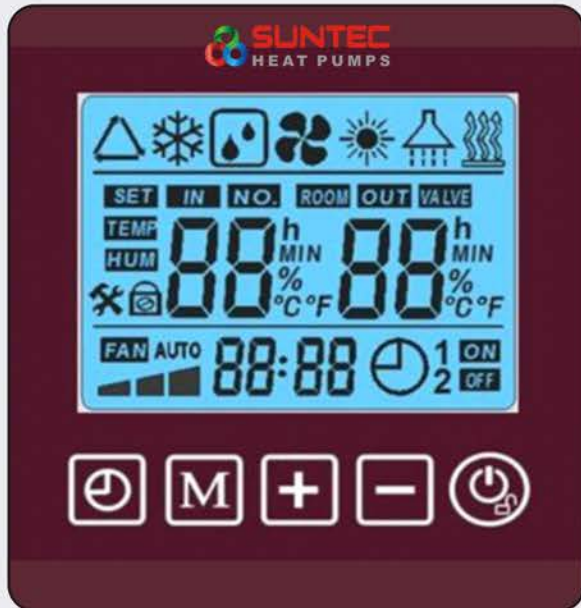
Features

- Hot water outlet temperature 55°C
- Automatic controls
- Touch screen multi-functional controller
- Automatic breakdown self-check
- High efficient rotary compressor
- Environment friendly refrigerant
- Polyurethane insulated water tank
- Stand-by electrical heater
- Safe, reliable & eco-friendly
- Low Noise & vibration
- Clean & simple installation
- Storage Tanks combination
150L, 200L, 300L, 500L, 1000L

**SUNTEC Heat Pump does not require any electrical back-up heater
It is true 100% Heat Pump using energy from nature**

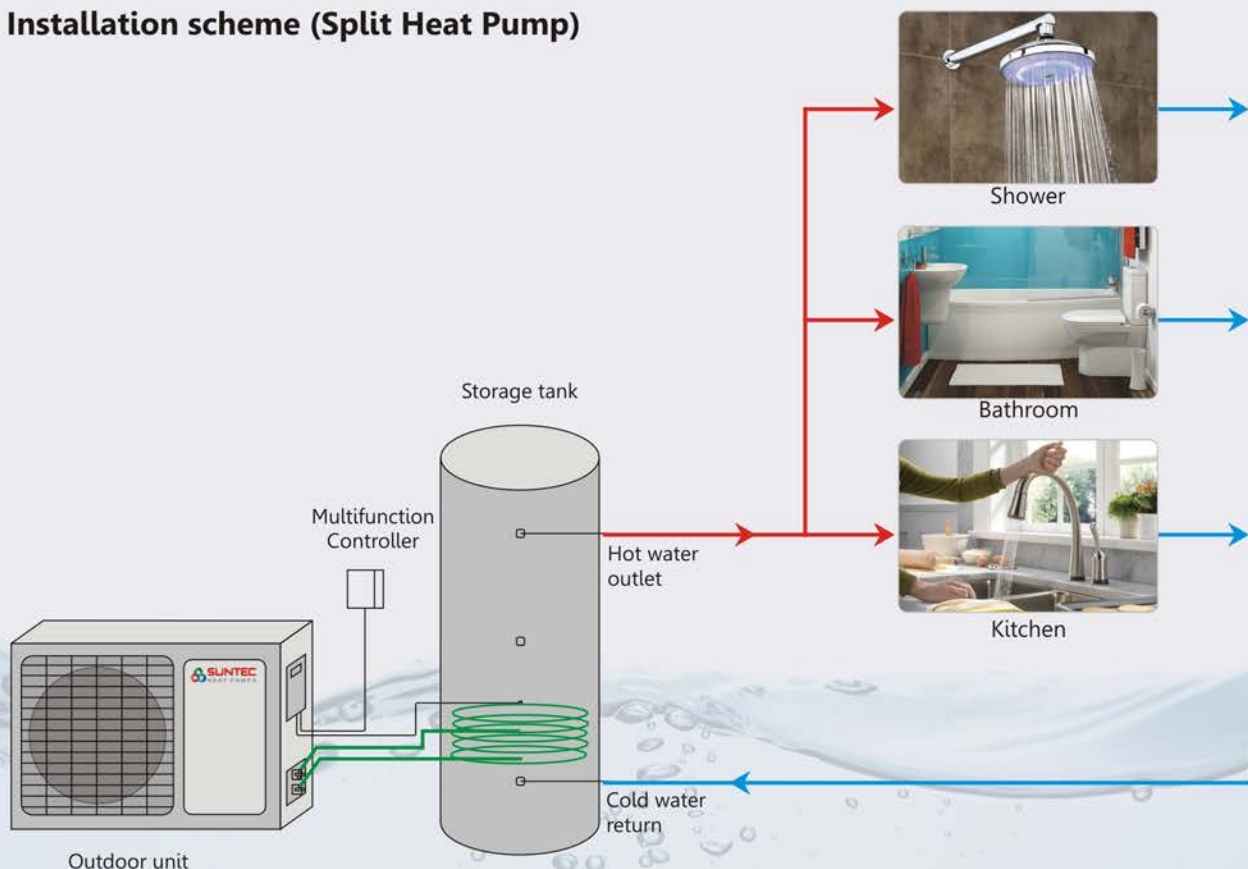
Model		SD-S-35-150/200	SD-S-50-300/500	SD-S-55-500/1000
Power supply	V/Ph/Hz	220-240/1/50		
Ambient temperature	°C	-7 to 46		
Rated heat output	W	3500	5000	5500
Rated hot water output	Lt/h	75	107	118
Input power	W	913	1295	1410
Rated water outlet temperature	°C	55		
Maximum water outlet temperature	°C	60		
Compressor		Rotary type		
Noise	dB(A)	≤ 50		
Dimension (LWH)	mm	760x256x552	760x256x552	795x255x540
Net weight	kg	29	35	34
Indoor Tank	Ltr	150	300	500
	mm	Φ470x1440	Φ555x1800	Φ690x1850
	Ltr	200	500	1000
	mm	Φ555x1255	Φ600x1950	Φ1000x1950
Water inlet/outlet connections	mm	G 1/2"	G 3/4"	1"
Magnesium rod		Available		
Stand-by electric heater	W	2000	3000	3000
Testing conditions		Inlet water 15°C/Outlet water 55°C (max.60°C) Dry bulb / Wet bulb temperature 20°C/15°C		

Touch screen control (wired)



- Touch screen type automatic multifunction wired controllers
- Heating operation, Cooling operation (where applicable)
- Display of water tank temperature and preset temperature, with function of pipe temperature, ambient temperature, exhaust air temperature
- Save all parameters automatically when power off and all the parameters recover after power on.
- Clock remain on when power off without bother of adjust parameters after power on
- With the peak load shifting function, can adjust two times scheduled on/off in 24 hours
- All parameters setting & amending
- Electric heater function
- Defrost automatically functions
- Forced defrost function
- Large touch keys and bright LCD display
- **Smart operation thru WI-FI (optional)**

Installation scheme (Split Heat Pump)



SUNTEC SD-A series: All in One type Heat Pump Water Heater

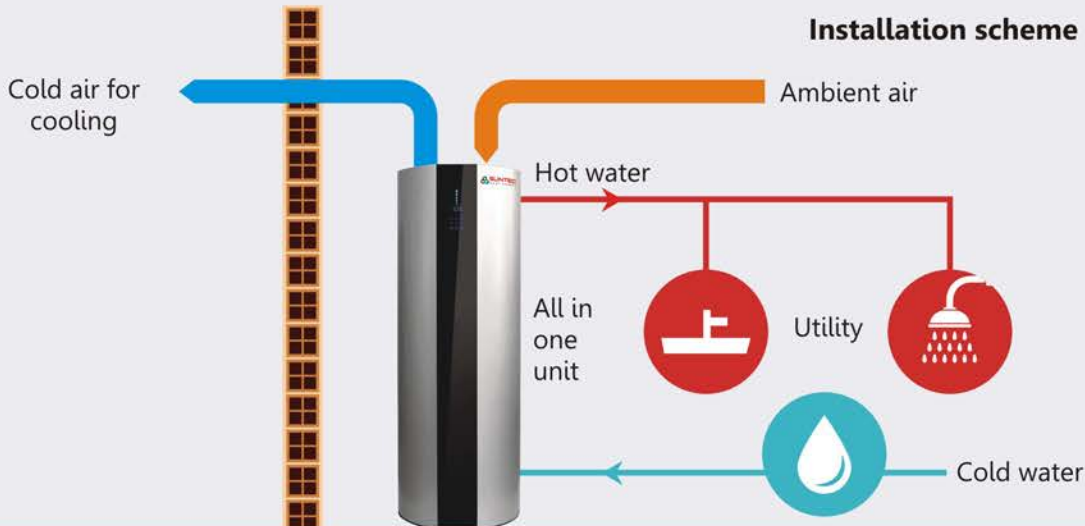
**COP ≥ 4
up to
75%
Energy
Savings**



Features

- Hot water outlet temperature 55°C
- Very compact structure
- Automatic controls
- Touch screen multi-functional controller
- Automatic breakdown self-check
- High efficient rotary compressor
- Environment friendly refrigerant
- Polyurethane insulated water tank
- Stand-by electrical heater
- Safe, reliable & eco-friendly
- Low Noise & vibration
- Clean & simple installation
- Plug & Play

Installation scheme (All in one)



Model		SD-A-20-150	SD-A-20-200	SD-A-20-300	SD-A-40-500
Power supply	V/Ph/Hz	220-240/1/50			
Ambient temperature	°C	-7 to 46			
Rated heat output	W	2020	2020	2020	4000
Rate input power	W	500	500	500	1000
Rated water outlet temperature	°C	55			
Maximum water outlet temperature	°C	60			
Compressor		Rotary			
Noise	dB(A)	≤46	≤46	≤50	≤50
Tank volume	L	150	200	300	500
Solar integration		Available			
Net weight	kg	86	90	97	115
Dimension	mm	Φ560x1565	Φ560x1750	Φ640x1845	Φ700x2250
Magnesium rod		Available			
Stand-by electric heater	W	1600			
Testing conditions		Inlet water 15°C/Outlet water 55°C (max.60°C) Dry bulb / Wet bulb temperature 20°C/15°C			

Touch screen control (wired)



- Touch screen type automatic multifunction wired controllers
- Heating operation, Cooling operation (where applicable)
- Display of water tank temperature and preset temperature, with function of pipe temperature, ambient temperature, exhaust air temperature
- Save all parameters automatically when power off and all the parameters recover after power on
- Clock remain on when power off without bother of adjust parameters after power on
- With the peak load shifting function, can adjust two times scheduled on/off in 24 hours
- All parameters setting & amending
- Electric heater function
- Defrost automatically functions
- Forced defrost function
- Large touch keys and bright LCD display
- **Smart operation thru WI-FI (optional)**



SUNTEC SC-H-M series: Monoblock type Heat Pump Water Heater

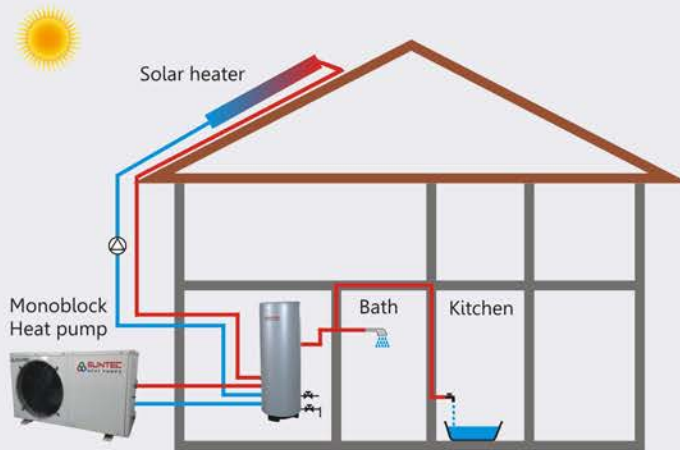


**Higher COP ≥ 4
up to 75%
Energy Savings**

Features

- Hot water outlet temperature 55°C
- Built-in water circulating pump
- Automatic controls
- Touch screen multi-functional controller
- Automatic breakdown self-check
- High efficient rotary compressor
- Environment friendly refrigerant
- Clean & simple installation
- Storage Tanks combination 300L, 500L, 1000L, 1500L, 2000L

Combination for existing Solar hot water system



If you are annoyed by the unstable hot water supply of your solar heater system, this easily installed revolutionary system can be an ideal solution

- Efficiently guarantees supply of low cost hot water
- Utilize the energy from both Sun & Air, the innovative system helps to increase the performance greatly
- Even in monsoon season you will get hot water consistently
- Smart controls for 24x7 hot water

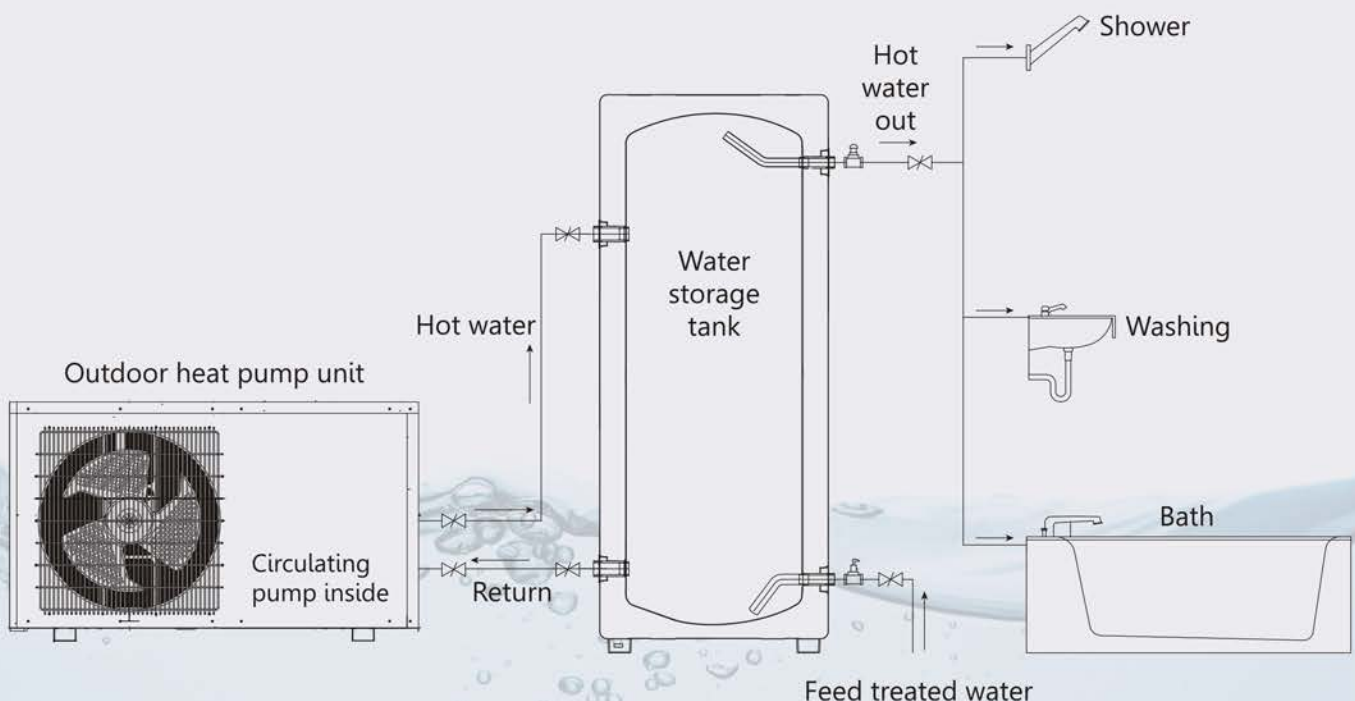
Model		SC-H-40M	SC-H-60M	SC-H-72M	SC-H-100M
Power supply	V/Ph/Hz	220-240/1/50			
Ambient temperature	°C	-7 to 46°C			
Rated heat output	W	3800	5750	6800	9500
Rated hot water output	L/h	80	120	142	196
Rated power	W	908	1376	1650	2370
Rated current	A	3.95	5.98	7.45	9.96
Water circulating pump		Rotary			
Rated water outlet temperature	°C	55			
Max. water outlet temperature	°C	60			
Compressor		Fully closed rotary type			
Noise	dB(A)	≤ 50	≤ 52	≤ 54	≤ 56
Net weight	kg	55	67	69	89
Dimension (LWH)	mm	936x375x605	936x375x605	936x375x605	1048x375x605
Testing conditions		Inlet water 15°C/Outlet water 55°C (max.60°C) Dry bulb / Wet bulb temperature 20°C/15°C			

Touch screen control (wired)



- Touch screen type automatic multifunction wired controllers
- Heating operation, Cooling operation (where applicable)
- Display of water tank temperature and preset temperature, with function of pipe temperature, ambient temperature, exhaust air temperature
- Save all parameters automatically when power off and all the parameters recover after power on.
- Clock remain on when power off without bother of adjust parameters after power on
- With the peak load shifting function, can adjust two times scheduled on/off in 24 hours
- All parameters setting & amending
- Electric heater function
- Defrost automatically functions
- Forced defrost function
- Large touch keys and bright LCD display

Standard installation scheme for hot water



SUNTEC SD-J & SC-W series: Spa & Swimming Pool Water Heater



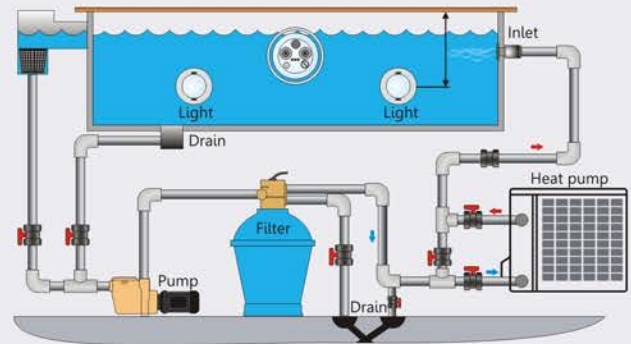
COP \geq 5
80% Energy savings
No Oil
No Gas

Heating in Winter
Cooling in Summer



Features

- Hot water outlet temperature up to 45°C
- Titanium heat exchanger
- Automatic controls
- Touch screen multi-functional controller
- Automatic breakdown self-check
- High efficient rotary compressor
- Environment friendly refrigerant
- Clean & simple installation



Model		SD-J-30	SD-J-55	SD-J-70	SC-W-120	SC-W-210
		Spa/Pool			Swimming pool	
Power supply	V/Ph/Hz	220-240/1/50			220-240/1/50	415/3/50
Ambient temperature	°C	-7 to 43				
Rated heating output	W	3300	5780	7010	11300	21000
Rated input power	W	620	950	1290	2100	3700
Maximum water outlet temperature	°C	45			40	
Rated cooling output	W	1930	3380	4100	-	15200
Rated input power	W	640	1120	1360	-	4770
Compressor		Fully closed rotary type				Scroll
Noise	dB(A)	≤ 50			≤ 54	≤ 56
Net weight	kg	37	39	40	70	116
Dimensions (LWH)	mm	885x350x580	808x300x580	885x350x580	956x372x600	1050x455x1250
Testing conditions	Heating	Use side water outlet temperature 27°C Dry bulb / Wet bulb temperature 27°C/22°C				
	Cooling	Use side water outlet temperature 27°C Dry bulb / Wet bulb temperature 35°C/30°C				

SUNTEC SC-HC series: Climate Heating & Cooling with Sanitary hot water



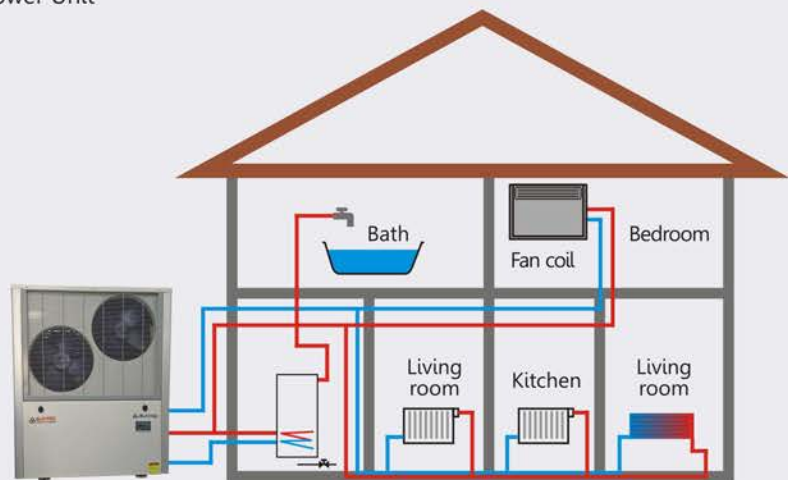
For Cold Climate

Features

- Multifunction unit for climate heating & cooling with sanitary hot water
- Operation is same as Air conditioner
- Capacity 1TR, 1.5TR, 2TR, 3TR & higher
- Useful throughout a year
- Automatic remote controls
- Touch screen multi-functional controller
- Automatic breakdown self-check
- High efficient rotary compressor
- Clean & simple installation
- Smart operation thru WI-FI(optional)



Multifunction Controller



You can find us at:

- Luxury bungalows
- Villas
- High rise apartments
- Weekend houses
- Private clubs
- Residential pools
- Spa



SUNTEC Network

Our nationwide network is fully geared to provide prompt and efficient pre and post sales/service at your doorstep. This includes spares & service requirement in time.



In lieu of continuous product development process, we reserve the right to change details mentioned in catalogue without prior notice



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