

HOME USE AIR SOURCE HEAT PUMP WATER HEATER



DOMESTIC / HOUSE HOLD HEAT PUMPS



The heat pump water heater is an integrated system that utilizes the heat pump technology to provide more efficient way to heat water with electricity. it pulls heat from surrounding air and deposits the heat into the tank. The end result is very efficient production of hot water with cooler and dehumidified air as a welcome by-product.

The Domestic heat pump water heater works great in applications where the need for hot water and space cooling occurs simultaneously. Both outputs are utilized efficiently and interchangeably to ensure maximum energy cost savings and the shortest payback periods. Applications requiring space cooling and significant hot water usage will maximize energy savings. Best of all, heat pump heaters are three times more efficient than standard electric water heaters and up to five times more efficient than conventional gas water heaters.

43kW/h

\$85

\$10256

PRODUCT FEATURES :

- 1. Absorbs Environment heat and transfers it to the water, at the same time cooling and dehumidifying the ambient air.
- 2. "Environmental-friendly" R-410a refrigerant.
- 3. Multiple operating modes maximize efficiency & meet increasing hot water needs.
- 4. High capacity storage tank enables heat pump to operate more frequently than the heating elements. This provides higher efficiency & cover operating costs, saving money for the owner.

Calorific Value

Heating Load

Energy-Saving

Consumption Per Hour

Operating Cost Per Day

Operating Cost Per Yea

Items

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Unit Price



98Kg/h

\$147

\$17691

22.48%

Biomass

4000

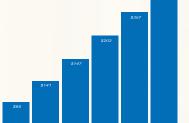
0.20

85%

51

\$24282

43.52%





24m³/h

\$141

\$16941

19.05%

OTHER BENEFITS OF HEAT PUMP.

- An energy saving device that saves energy cost by over 65%.
- Allowed 80% DEPRECIATION under Income-tax Act.1961
- Easy to install and occupies less floor space.
- Environment-friendly as there is no carbon emission.
- Low maintenance cost.
- Heat pump system can provide hot water temperature up to 80°C.
- Caters to any capacity needs.
- Heat Pump is a fully automatic machine.

WHY ARE HEAT PUMP WATER HEATERS AN ENVIRONMENTALLY FRIENDLY CHOICE:

- High efficiency with coefficient of performance (COP) up to 4.2.
- No fossil fuels are used or burned at the source.
- Ozone layer-friendly, thanks to the R-410a refrigerant.
- Uses less electricity than standard electric water heaters.
- Taps into heat sources typically discarded by other units for peak efficiency.



Steamgen & Control Systems Pioneer in Steaming, Heating & Controlling

APPLICATIONS

211kW/h

\$50526

72.86%

\$421

Homes

201 /h

\$357

\$42851

68.00%

- Villas
- Farm House
- Bunglows



COMFORT SERIES HEAT PUMPS

COMFORT SERIES (HOME USE AIR SOURCE HEAT PUMP WATER HEATER CIRCULATING T	
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Model		CKXRS-3.5 IH	CKXRS-5.0 IH	CKXRS-7.0 [H	CKXRS-9.0 H			
Rated Heating ca	pacity (KW)	3.5	4.8	6.8	8.4			
Rated outlet hot v	vater quantity (L/H)	75	108	150	193			
Outlet water rated temp ($^{\circ}$)			55					
Outlet water max.	temp (°C)		60					
Electricity	Rated power (KW)	0.9	1.24	1.71	2.13			
parameter	Rated current (A)	4.1	5.6	7.8	11.4			
parameter	Power supply		1N 220V~/50HZ					
	Max power (KW)	1.28	1.63	2.26	3.01			
	"Max current (A)"	5.7	7.4	10.4	14.6			
Refrigerant		R410a						
Dimensions mm	٦	850*350*580 910*415*840			5*840			
Weight KG		43	51	65	68			
Waterproof grade		IPX4						
Defend electric shock grade			GRADE 1					
Noise Db		≦53	≦53Db ≦55Db					
Compressor GMCC Rotor type								

Stainless steel pressurized water tank specifications					
Pressurized Water Tank with Safety Valve					
Specifications	150L	200L	300L	500L	
Pipe size (mm)	DN	15	DN20		
Water Tank Size	φ480 x 1394 φ520 x 1543		φ580 x 1764	φ700 x 1835	
Installation	Floor Standing Type				
Concurrent User	3 - 4 persons	4 - 5 persons	6-8 persons	10-13 persons	

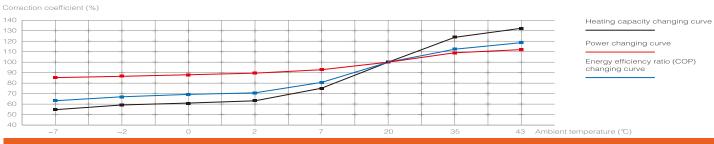
Remarks:

1. Testing condition:use side initial water temperature:15 C, end water temperature 55 C, dry-bulb temperature 20 C, wet-bulb temperature 15 C.

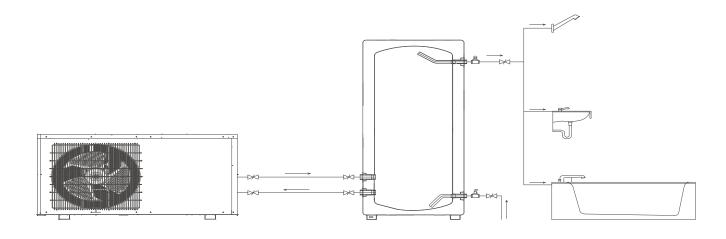
2. The above model is our basic type, the final product may have some differences from it.

HOT WATER HEATING PERFORMANCE CORRECTION COEFFCIENT (%)								
Heat source side water input temperature (C)	-7	-2	0	2	7	20	35	43
Heating capacity (%)	55	59	63	63	75	100	124	133
Power (%)	86	87	89.6	89.6	93	100	109	112
Energy efficiency ratio (COP) (%)	64.0	67.8	70.3	70.3	80.6	100.0	113.8	118.8

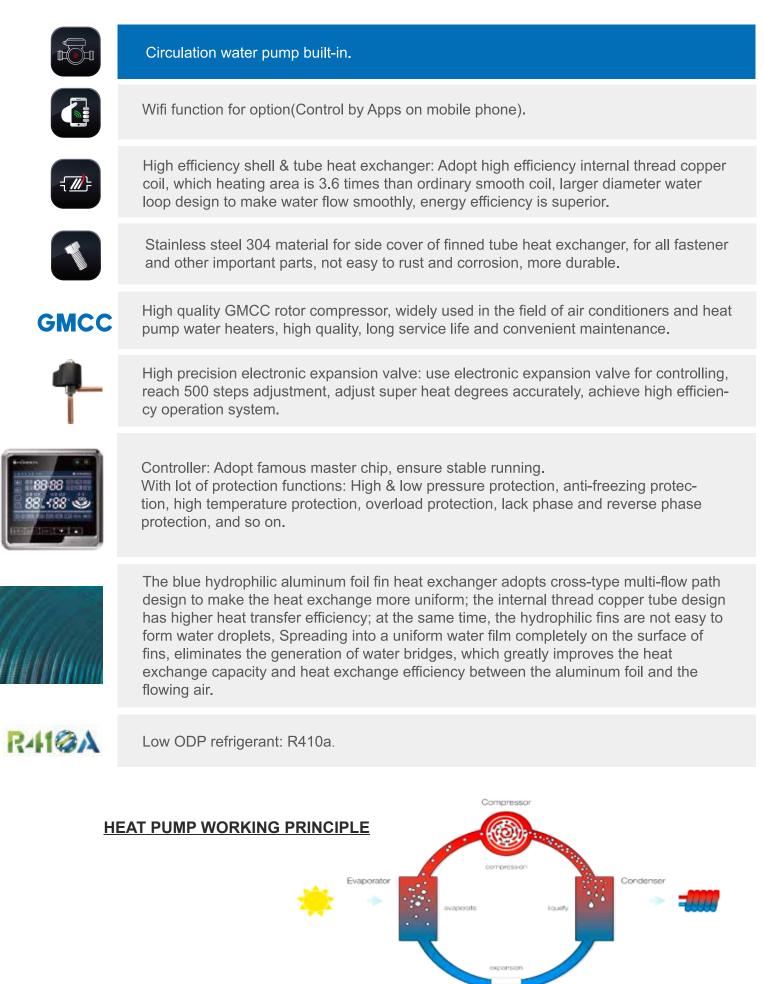
HEATING PERFORMANCE CORRECTION COEFFICIENT CHANGING CURVE



APPLICATIONS SKETCH



COMFORT SERIES HEAT PUMPS



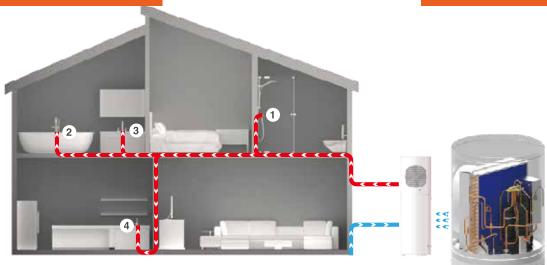
Expansion valve

NANO SERIES HEAT PUMPS

ALL IN ONE HEAT PUMP WATER HEATER CND-HWYF-CY01-2020080					
Model	CD18M-150	CD18M-200	CD25Z-150	CD25Z-200	
Power supply	220V~/50Hz, 1 phase				
Rated heating capacity(W)	18	00	2500		
Rated outlet hot water quantity (L/h)	3	9	54		
Rated power (W)	48	37	685		
Rated current (A)	2:	2	31	21	
Max power (W)	22	00	25	00	
Max current (A)	1	0	11	4	
Electric heater (W)		1500 (1500~2	500 for option)		
COP	3.	7	3.5		
Rated water output temp.(C)	5	5	55		
Refrigerant/Quantity	R134A/520g R410A/650g				
Waterproof grade	9	47	9	48	
Noise [dB(A)]		P	(4		
Net weight (kg)	56	62	56	62	
Unit dimension (mm)	Φ520×1780 Φ520×2088		Ф520×1780	Ф520×2088	
Inner tank diameter(mm)	Ф420 Ф420		Φ420	Φ420	
Nominal capacity (L)	150 200		150	200	
Rated working pressure of water tank	0.7MPa				
Water outlet/inlet pipe size	DN15				
Concurrent user	3~4 persons	4~5 persons	3~4 persons	4~5 persons	



INSIDE STRUCTURE





NANO SERIES HEAT PUMPS

Easy installation:

1. Leakage protector with plug, plug directly into the socket to power on;

2. The external thread inlet and outlet pipes can be directly connected to the hot water system at home.

As long as you do the above two steps, you can use the heat pump to make domestic hot water normally.



Multiple protection:

The heat pump unit control system has its own high-temperature and high-pressure protection, high current protection, over-temperature protection, automatic defrosting and other functions.

Electric heater:

Electric heater has been installed in the water tank. When the weather is cold, the heat pump unit heats slowly, and the electric heating automatically turns on for fast heating; The system has a one-button sterilization function, which uses electric heater to heat the water to 70 degrees and keep 3 minutes to eliminate Legionella.



Control panel:

The simple and easy-to-operate LCD panel fully meets household needs.



Cheap and good quality heat pump unit:

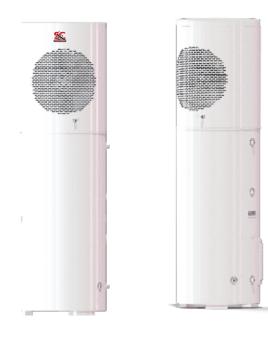
STEAMGEN not only has heat pump production workshop, but also controller production workshop and water tank production workshop. It not only produces heat pump heads, but also produces control systems and water tanks. At the same time, combined with the advantages of India's huge real estate supporting market, the cost of the unit is controlled to the lowest in the industry, while ensuring the reliable operation of the unit.

Water tank introduction:



High-quality stainless steel 304 water tank, built-in stainless steel 316L coil, built-in magnesium rod, pressure release valve, negative pressure valve & electric heater with thermal protection, safe and reliable, long life.

The design is reasonable, and the position of each component, especially the water tank temperature sensor, is reasonable, which ensures the stability of the water temperature and more comfortable bathing.





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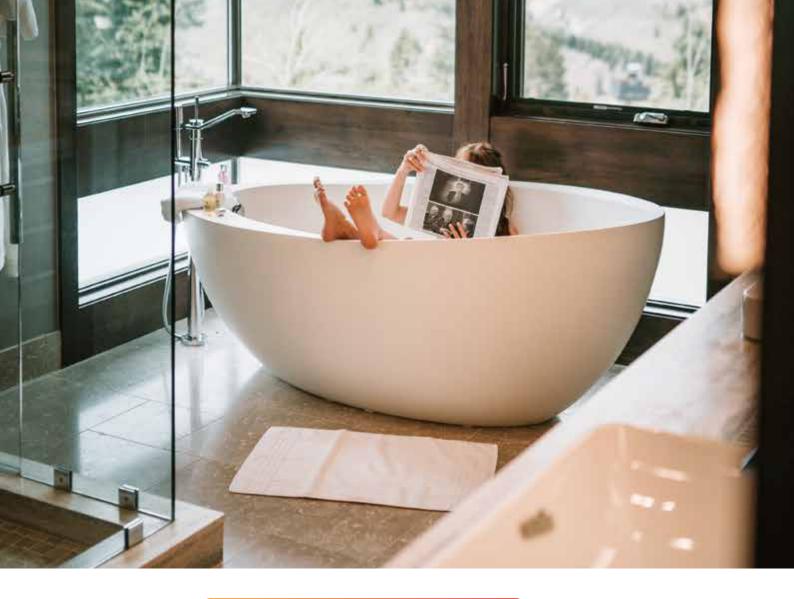












FOR PRODUCT ORDERING

Product Name	Product Code	Description	Quantity	Price (INR/USD)

STEAMGEN & CONTROL SYSTEMS

Office : K-166, Sector-5, DSIIDC, Bawana, New Delhi-110039, India Works : Plot No. 5, KH. 15/12/2, Laxmi Park, Phase-II, Ranhola Ext., Nangloi, New Delhi - 110041, India

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