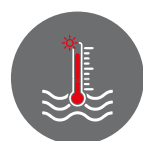




# SWIMMING POOL HEAT PUMPS (HOT & COLD)

A swimming pool HEAT PUMP is a device that uses electricity to transfer heat from the air to your pool water. By using a heat exchange process, these energy-efficient systems can keep your pool at a comfortable temperature, allowing you to swim whenever you want, regardless of the weather. These heat pumps are easy to operate & maintain. Users can set the desired temperature and these heat pumps offer heating and cooling accordingly. With low cost & high operational performance these heating devices can withstand prolonged exposure to swimming pool water, so that you can swim 365 days.



**35°C**  
Maximum Outlet  
Temperature



**10°C**  
Minimum Outlet  
Temperature



**Wi-Fi**  
Enabled



**Maximum  
COP of 10**

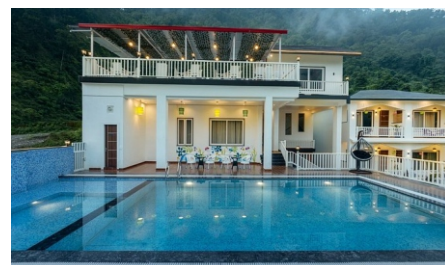
## Residential



## Hotels



## Hostels



APPLICATIONS

## COMMERCIAL SWIMMING POOL HEAT PUMPS

| Model                                                                                         | ST-HP-14                    | ST-HP-SP-27             | ST-HP-SP-55          | ST-HP-SP-80          | ST-HP-SP-100      | ST-HP-SP-125     | ST-HP-SP-150      |
|-----------------------------------------------------------------------------------------------|-----------------------------|-------------------------|----------------------|----------------------|-------------------|------------------|-------------------|
| Advised pool volume (M3)                                                                      | Upto 15 M3                  | Upto 25 M3              | Upto 45 M3           | Upto 60 M3           | Upto 80 M3        | Upto 100 M3      | Upto 120 M3       |
| Operating air temperature (°C)                                                                | (-) 7 to (+) 43 Degrees C   |                         |                      |                      |                   |                  |                   |
| Perfomance Condition : Air 27°C , Water 26°C, Humidity 80%                                    |                             |                         |                      |                      |                   |                  |                   |
| Heating Capacity (KW)                                                                         | 14                          | 27                      | 55                   | 75                   | 100               | 125              | 150               |
| Heating Capacity (BTU)                                                                        | 47600                       | 88400                   | 185200               | 255000               | 340000            | 411400           | 493000            |
| Consumed power (KW )                                                                          | 2.15                        | 4.2                     | 8.9                  | 12.1                 | 16.8              | 20.2             | 23.8              |
| Cop                                                                                           | 6.5                         | 6.2                     | 6.1                  | 6.2                  | 6                 | 6                | 6.1               |
| Perfomance Condition : Air 15°C , Water 26°C, Humidity 70%                                    |                             |                         |                      |                      |                   |                  |                   |
| Heating Capacity (KW)                                                                         | 11                          | 19.3                    | 39.8                 | 53.5                 | 77.5              | 90.3             | 105.8             |
| Heating Capacity (BTU)                                                                        | 35400                       | 65840                   | 135803               | 182550               | 264400            | 308100           | 359720            |
| Consumed power (KW )                                                                          | 2.12                        | 3.9                     | 8.4                  | 11.3                 | 16.7              | 19.2             | 22.8              |
| Cop                                                                                           | 5                           | 4.7                     | 4.7                  | 4.7                  | 4.6               | 4.7              | 4.6               |
| Perfomance Condition : Air 35°C , Water 28°C, Humidity 80%                                    |                             |                         |                      |                      |                   |                  |                   |
| Cooling capacity (KW)                                                                         | 7.2                         | 16.5                    | 33.4                 | 48.5                 | 65.1              | 78.5             | 94.6              |
| Sound pressure AT 1m dB(A)                                                                    | 43                          | 56                      | 58                   | 60                   | 62                | 64               | 66                |
| Sound pressure AT 10m dB(A)                                                                   | 37                          | 44                      | 46                   | 48                   | 50                | 52               | 54                |
| Heat Exchanger                                                                                | SPIRAL TITANIUM TUBE IN PVC |                         |                      |                      |                   |                  |                   |
| Casing                                                                                        | METAL CASING                |                         |                      |                      |                   |                  |                   |
| Power supply                                                                                  | 220 V /1Ph/50 Hz            | 380-400V/3PH/50Hz       |                      |                      |                   |                  |                   |
| Connection Sizez and Type                                                                     | 50 ( 2")                    | 1-1/2 " (Female Thread) | 2 " ( FemaleThread ) | 2 " ( FemaleThread ) | DN 110 ( Flange ) | DN 110 (Flange ) | DN 110 ( Flange ) |
| Rated Input Current at Air 15°C (A)                                                           | 9.3                         | 6.05                    | 13.02                | 17.52                | 25.89             | 29.77            | 35.35             |
| Advised Water Flux (M3/h)                                                                     | 4.5                         | 11.2                    | 22.1                 | 32.3                 | 43                | 52               | 62.4              |
| Water Pressure Drop (max) KPA                                                                 | 10                          | 50                      | 50                   | 50                   | 45                | 45               | 50                |
| Net Weight / Gross Weight (KG)                                                                | 70/83                       | 135/145                 | 200/220              | 248/268              | 352/372           | 450/480          | 465/500           |
| PRODUCT SIZE (MM)                                                                             | 980*410*650                 | 740*805*1165            | 1500*750*1075        | 1530*790*1100        | 1705*1005*1230    | 2005*1050*1400   |                   |
| PACKAGE SIZE (MM) (PLYWOOD)                                                                   | 1050*500*800                | 800*865*1325            | 1600*850*1275        | 1630*890*1300        | 1805*1105*4130    | 2105*1150*1600   |                   |
| REFRIGERANT CHARGE QUANTITY (G)                                                               | 2000                        | 2500                    | 5400                 | 7000                 | 10000             | 10400            | 13000             |
| REFRIGERANT                                                                                   | R32                         | R410A                   |                      |                      |                   |                  |                   |
| COMPRESSOR                                                                                    | Panasonic                   | COPELAND                |                      |                      |                   |                  |                   |
| FOUR-WAY-VALVE                                                                                | SANHUA                      |                         |                      |                      |                   |                  |                   |
| EXPANSION VALVE                                                                               | SANHUA                      |                         |                      |                      |                   |                  |                   |
| Operating Temperature (°C) - Heating                                                          | 9~43                        |                         |                      |                      |                   |                  |                   |
| Opearting Temperature (°C) - Cooling                                                          | 9~35                        |                         |                      |                      |                   |                  |                   |
| *The Above Specifications are subject to change without prior notice for product Improvement. |                             |                         |                      |                      |                   |                  |                   |

## FEATURES OF HEAT PUMPS



### SCROLL COMPRESSOR

Makes the unit efficient as they do not have a dynamic discharge valve which makes the operation smoother, quieter and reliable.



### TITANIUM HEAT EXCHANGER

A heat exchanger made from titanium is ideal for its high strength-to-weight ratio and corrosion resistance.



### HEATING & COOLING

A heat pump uses electricity to put heat in contact with cooler, lower-pressure environments so that the heat can naturally transfer outside air and visa versa to provide comfort all year round.



### TOUCH SCREEN CONTROLLER

Heat pumps have smart digital controllers to set Temperature and the time when hot water is required.

