

# COMMERCIAL SERIES

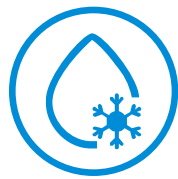
## SWIMMING POOL HEAT PUMP



Ultra Efficiency



Reliability



Intelligent Defrosting



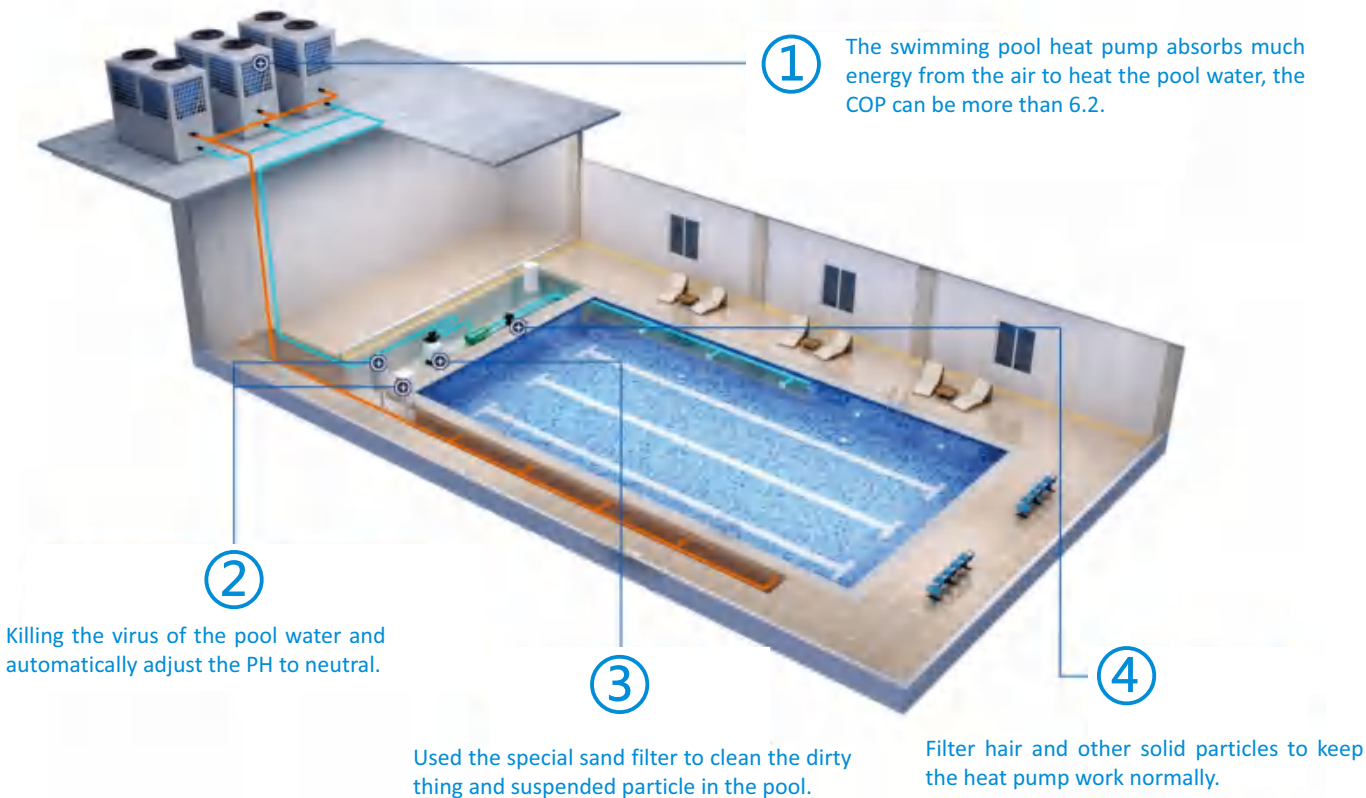
Season function



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Commercial pool heat pump provides maximum energy efficiency and reliability. Working efficiently, the heat pump units absorb another 6 times of free heat from the ambient environment, and transfer it to the pool water, which makes the heating process ecological and cost saving, specially designed for maintaining a constant temperature of swimming pools 40m<sup>3</sup> to 500m<sup>3</sup>, such as pools in hotels, public parks, schools, sports centers, gyms, and so on.

- ① Swimming Pool Heat Pump
- ② Disinfection & pH Value Adjustment System
- ③ Sand Cylinder Filter
- ④ Hair Collector



| Model                                                     | PW050<br>-KFXYC                   | PW100<br>-KFXYC            | PW150<br>-KFXYC            | PW200<br>-KFXYC      | PW250<br>-KFXYC      | PW300<br>-KFXYC      |
|-----------------------------------------------------------|-----------------------------------|----------------------------|----------------------------|----------------------|----------------------|----------------------|
| Advised pool volume (m3) ①                                | 40~85                             | 80~170                     | 120~250                    | 150~300              | 210~400              | 260~500              |
| Operating air temperature (°C)                            | -7~43°C                           |                            |                            |                      |                      |                      |
| Performance Condition: Air 27°C, Water 26°C, Humidity 80% |                                   |                            |                            |                      |                      |                      |
| Heating capacity (kW)                                     | 26                                | 51.5                       | 75                         | 100                  | 121                  | 145                  |
| Heating capacity (Btu)                                    | 88400                             | 175100                     | 255000                     | 340000               | 411400               | 493000               |
| Consumed power (kW)                                       | 4.2                               | 8.4                        | 12.1                       | 16.8                 | 20.2                 | 23.8                 |
| COP                                                       | 6.2                               | 6.1                        | 6.2                        | 6                    | 6                    | 6.1                  |
| Performance Condition: Air 15°C, Water 26°C, Humidity 70% |                                   |                            |                            |                      |                      |                      |
| Heating capacity (kW)                                     | 18.3                              | 39.8                       | 53.5                       | 77.5                 | 90.3                 | 105.8                |
| Heating capacity (Btu)                                    | 62220                             | 135320                     | 181900                     | 263500               | 307020               | 359720               |
| Consumed power (kW)                                       | 3.9                               | 8.4                        | 11.3                       | 16.7                 | 19.2                 | 22.8                 |
| COP                                                       | 4.7                               | 4.7                        | 4.7                        | 4.6                  | 4.7                  | 4.6                  |
| Performance Condition: Air 35°C, Water 28°C, Humidity 80% |                                   |                            |                            |                      |                      |                      |
| Cooling capacity (kW)                                     | 16.5                              | 33.4                       | 48.5                       | 65.1                 | 78.5                 | 94.6                 |
| Sound pressure at 1m dB(A)                                | 56                                | 58                         | 60                         | 62                   | 64                   | 66                   |
| Sound pressure at 10m dB(A)                               | 44                                | 46                         | 48                         | 50                   | 52                   | 54                   |
| Heat exchanger                                            | Spiral titanium tube in PVC shell |                            |                            |                      |                      |                      |
| Casing                                                    | Metal Casing                      |                            |                            |                      |                      |                      |
| Refrigerant                                               | R410A                             |                            |                            |                      |                      |                      |
| Power supply                                              | 380V~400V/3PH/50Hz                |                            |                            |                      |                      |                      |
| Water connection (mm)                                     | G1-1/2"<br>(PVC female thread)    | G2"<br>(PVC female thread) | G2"<br>(PVC female thread) | Dn90<br>(PVC flange) | Dn90<br>(PVC flange) | Dn90<br>(PVC flange) |
| Rated input current at air 15°C (A)                       | 6.05                              | 13.02                      | 17.52                      | 25.89                | 29.77                | 35.35                |
| Advised water flux (m³/h)                                 | 11.2                              | 22.1                       | 32.3                       | 43.0                 | 52.0                 | 62.4                 |
| Water pressure drop (max) KPa                             | 50                                | 50                         | 50                         | 45                   | 45                   | 50                   |
| Net weight / Gross weight (kg)                            | 135/145                           | 200/220                    | 248/268                    | 352/372              | 450/480              | 465/500              |
| Product size (mm)                                         | 750*805*1165                      | 1500*750*1075              | 1530*790*1100              | 1705*1065*1200       | 2005*1065*1400       |                      |
| Loading quantity (20GP/40GP/40HQ)                         | 14/28/56                          | 6/14/28                    | 6/14/28                    | 6/12/12              | 5/10/10              |                      |
| Refrigerant consumption (g)                               | 2500                              | 5400                       | 7000                       | 10000                | 10400                | 13000                |
| Operating water temperature(°C) Heating                   | 9~40°C                            |                            |                            |                      |                      |                      |
| Operating water temperature(°C) Cooling                   | 9~35°C                            |                            |                            |                      |                      |                      |

**Note:**  
The data above is for reference only, please refer to the nameplate on the unit if for more specific data.  
① The advised pool volumes are valid under ideal conditions: Air 27°C, Water 26°C, Humidity 80%, Pool covered with an isothermal cover.