

# SWIMMING POOL AIR SOURCE HEAT PUMP

It is widely used in various swimming pools heating.

**NORMAL  
TEMPERATURE  
TYPE**

**LOW  
TEMPERATURE  
TYPE**



<B-12-B-70II>  
Galvanized sheet painted UV resistant shell.



- 

High efficiency pure titanium heat exchanger  
Corrosion resistant
- 

For various pools heating
- 

Flexible settings  
Automatic control
- 

Automatic heating  
Automatic defrost
- 

Multiple protection  
Safe and reliable

<B-45IV-B-120IV>  
Galvanized sheet painted UV resistant shell.



<Side Air Outlet Type>  
Galvanized sheet painted UV resistant shell.



• Customizable stainless steel construction  
Stainless Steel 304 Shell.



# SWIMMING POOL AIR SOURCE HEAT PUMP

## B Series <Regular Type>



### NORMAL TEMPERATURE TYPE

| Model                         |                  | B-12                  | B-15          | B-20          | B-22           | B-30           | B-35           | B-55II         | B-60II         | B-70II         |       |
|-------------------------------|------------------|-----------------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|
| Rated Heating (A24°C/W26°C)   | Heating Capacity | kw                    | 56.0          | 75.0          | 90.0           | 100.0          | 125.0          | 150.0          | 225.0          | 250.0          | 300.0 |
|                               | COP              | W/W                   | 5.6           | 5.6           | 5.6            | 5.6            | 5.6            | 5.6            | 5.6            | 5.6            | 5.6   |
|                               | Power            | kw                    | 10.0          | 13.4          | 16.1           | 17.9           | 22.3           | 26.8           | 40.2           | 44.6           | 53.6  |
|                               | Current          | A                     | 17.1          | 22.9          | 27.4           | 30.5           | 38.1           | 45.7           | 68.6           | 76.2           | 91.5  |
| Nominal Heating (A20°C/W26°C) | Heating Capacity | kw                    | 47.8          | 64.2          | 77.1           | 86.0           | 106.8          | 128.4          | 192.5          | 214.3          | 257.4 |
|                               | COP              | W/W                   | 4.8           | 4.8           | 4.8            | 4.8            | 4.8            | 4.8            | 4.8            | 4.8            | 4.8   |
|                               | Power            | kw                    | 10.0          | 13.4          | 16.1           | 17.9           | 22.3           | 26.8           | 40.1           | 44.6           | 53.6  |
|                               | Current          | A                     | 17.0          | 22.8          | 27.4           | 30.6           | 38.0           | 45.7           | 68.5           | 76.2           | 91.5  |
| Power Supply                  | /                | 380V/3N~/50Hz         |               |               |                |                |                |                |                |                |       |
| Max. Current Input            | A                | 23                    | 28            | 32            | 40             | 52             | 63             | 82             | 98             | 110            |       |
| Max. Power Input              | kw               | 12.9                  | 15.7          | 17.9          | 22.4           | 29.1           | 35.2           | 45.9           | 54.8           | 61.5           |       |
| Compressor Type               | /                | Fully enclosed scroll |               |               |                |                |                |                |                |                |       |
| Water Pressure Drop           | kPa              | 43                    | 45            | 45            | 52             | 58             | 58             | 65             | 68             | 68             |       |
| Noise                         | dB(A)            | 65                    | 68            | 68            | 70             | 70             | 72             | 73             | 73             | 73             |       |
| Connection Size(PVC)          | mm               | DE75 Flange           | DE75 Flange   | DE75 Flange   | DE75 Flange    | DE90 Flange    | DE90 Flange    | DE110 Flange   | DE110 Flange   | DE110 Flange   |       |
| Water Flow                    | m³/h             | 16                    | 20            | 25            | 30             | 35             | 40             | 58             | 65             | 75             |       |
| Refrigerant                   | /                | R410A                 |               |               |                |                |                |                |                |                |       |
| Operating Temperature Range   | °C               | -12~45                |               |               |                |                |                |                |                |                |       |
| Dimensions (L*W*H)            | mm               | 1580*900*1660         | 1580*900*1660 | 1580*900*1660 | 1926*1056*2190 | 2126*1106*2200 | 2126*1106*2200 | 2450*1302*2260 | 2450*1302*2260 | 2650*1302*2260 |       |
| Weight                        | kg               | 310                   | 340           | 380           | 505            | 590            | 680            | 785            | 962            | 1085           |       |

\* Rated Heating Condition: Outdoor Ambient Temp. (DB/WB): 24°C/19°C, Water Temp. (In): 26°C.  
 \* Nominal Heating Condition: Outdoor Ambient Temp. (DB/WB): 20°C/15°C, Water Temp. (In): 26°C.  
 \* The data above is for reference only. For model specifications, please refer to the nameplate on the unit.

### LOW TEMPERATURE TYPE

| Model                              |                  | B-12(E)               | B-15(E)       | B-20(E)       | B-22(E)        | B-30(E)        | B-35(E)        | B-55II(E)      | B-60II(E)      |       |
|------------------------------------|------------------|-----------------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|-------|
| Heating Condition 1 (A20°C/W26°C)  | Heating Capacity | kw                    | 47.8          | 64.2          | 77.1           | 86.0           | 106.8          | 128.4          | 192.5          | 214.3 |
|                                    | COP              | W/W                   | 4.8           | 4.8           | 4.8            | 4.8            | 4.8            | 4.8            | 4.8            | 4.8   |
|                                    | Power            | kw                    | 10.0          | 13.4          | 16.1           | 17.9           | 22.3           | 26.8           | 40.1           | 44.6  |
|                                    | Current          | A                     | 17.0          | 22.8          | 27.4           | 30.6           | 38.0           | 45.7           | 68.5           | 76.2  |
| Heating Condition 2 (A7°C/W26°C)   | Heating Capacity | kw                    | 43.5          | 58.2          | 69.9           | 78.0           | 96.5           | 116.5          | 174.5          | 194.2 |
|                                    | COP              | W/W                   | 4.35          | 4.35          | 4.35           | 4.35           | 4.35           | 4.35           | 4.35           | 4.35  |
|                                    | Power            | kw                    | 10.0          | 13.4          | 16.1           | 17.9           | 22.2           | 26.8           | 40.1           | 44.6  |
|                                    | Current          | A                     | 17.0          | 22.8          | 27.4           | 30.6           | 37.9           | 45.7           | 68.5           | 76.2  |
| Heating Condition 3 (A2°C/W26°C)   | Heating Capacity | kw                    | 41.2          | 55.2          | 66.3           | 74.0           | 91.8           | 110.6          | 165.8          | 184.3 |
|                                    | COP              | W/W                   | 4.13          | 4.13          | 4.13           | 4.13           | 4.13           | 4.13           | 4.13           | 4.13  |
|                                    | Power            | kw                    | 10.0          | 13.4          | 16.1           | 17.9           | 22.2           | 26.8           | 40.1           | 44.6  |
|                                    | Current          | A                     | 17.0          | 22.8          | 27.4           | 30.6           | 37.9           | 45.7           | 68.5           | 76.2  |
| Heating Condition 4 (A-12°C/W26°C) | Heating Capacity | kw                    | 30.9          | 41.4          | 49.8           | 55.4           | 68.9           | 83.0           | 124.3          | 138.3 |
|                                    | COP              | W/W                   | 3.1           | 3.1           | 3.1            | 3.1            | 3.1            | 3.1            | 3.1            | 3.1   |
|                                    | Power            | kw                    | 10.0          | 13.4          | 16.1           | 17.9           | 22.2           | 26.8           | 40.1           | 44.6  |
|                                    | Current          | A                     | 17.0          | 22.8          | 27.4           | 30.5           | 37.9           | 45.7           | 68.5           | 76.2  |
| Power Supply                       | /                | 380V/3N~/50Hz         |               |               |                |                |                |                |                |       |
| Max. Current Input                 | A                | 23                    | 28            | 32            | 40             | 52             | 63             | 82             | 98             |       |
| Max. Power Input                   | kw               | 12.9                  | 15.7          | 17.9          | 22.4           | 29.1           | 35.2           | 45.9           | 54.8           |       |
| Compressor Type                    | /                | Fully enclosed scroll |               |               |                |                |                |                |                |       |
| Water Pressure Drop                | kPa              | 43                    | 45            | 45            | 52             | 58             | 58             | 65             | 68             |       |
| Noise                              | dB(A)            | 65                    | 68            | 68            | 70             | 70             | 72             | 73             | 73             |       |
| Connection Size(PVC)               | mm               | DE75 Flange           | DE75 Flange   | DE75 Flange   | DE75 Flange    | DE90 Flange    | DE90 Flange    | DE110 Flange   | DE110 Flange   |       |
| Water Flow                         | m³/h             | 16                    | 20            | 25            | 30             | 35             | 40             | 58             | 65             |       |
| Refrigerant                        | /                | R410A                 |               |               |                |                |                |                |                |       |
| Operating Temperature Range        | °C               | -30~45                |               |               |                |                |                |                |                |       |
| Dimensions (L*W*H)                 | mm               | 1580*900*1660         | 1580*900*1660 | 1580*900*1660 | 1926*1056*2190 | 2126*1106*2200 | 2126*1106*2200 | 2450*1302*2260 | 2450*1302*2260 |       |
| Weight                             | kg               | 315                   | 345           | 385           | 515            | 605            | 705            | 812            | 986            |       |

\* Heating Condition 1: Outdoor Ambient Temp. (DB/WB): 20°C/15°C, Water Temp. (In): 26°C.  
 \* Heating Condition 2: Outdoor Ambient Temp. (DB/WB): 7°C/6°C, Water Temp. (In): 26°C.  
 \* Heating Condition 3: Outdoor Ambient Temp. (DB/WB): 2°C/1°C, Water Temp. (In): 26°C.

\* Heating Condition 4: Outdoor Ambient Temp. (DB/WB): -12°C/-14°C, Water Temp. (In): 26°C.  
 \* The data above is for reference only. For model specifications, please refer to the nameplate on the unit.

## NORMAL TEMPERATURE TYPE

| Model                             | B-45IV                  | B-55IV         | B-60IV         | B-70IV         | B-110IV        | B-120IV        |
|-----------------------------------|-------------------------|----------------|----------------|----------------|----------------|----------------|
| Heating Capacity                  | 180.0                   | 225.0          | 250.0          | 300.0          | 450.0          | 500.0          |
| Rated Heating COP (A24°C/W26°C)   | 5.6                     | 5.6            | 5.6            | 5.6            | 5.6            | 5.6            |
| Power                             | 32.1                    | 40.2           | 44.6           | 53.6           | 80.4           | 89.3           |
| Current                           | 54.9                    | 68.6           | 76.2           | 91.5           | 137.2          | 152.4          |
| Heating Capacity                  | 154.1                   | 192.5          | 214.3          | 257.4          | 385.0          | 415.2          |
| Nominal Heating COP (A20°C/W26°C) | 4.8                     | 4.8            | 4.8            | 4.8            | 4.8            | 4.8            |
| Power                             | 32.1                    | 40.1           | 44.6           | 53.6           | 80.2           | 86.5           |
| Current                           | 54.8                    | 68.5           | 76.2           | 91.5           | 136.9          | 147.7          |
| Power Supply                      | / 380V/3N~/50Hz         |                |                |                |                |                |
| Max. Current Input                | A                       | 72             | 82             | 98             | 110            | 165            |
| Max. Power Input                  | kw                      | 40.3           | 45.9           | 54.8           | 61.5           | 92.3           |
| Compressor Type                   | / Fully enclosed scroll |                |                |                |                |                |
| Water Pressure Drop               | kPa                     | 62             | 65             | 68             | 68             | 72             |
| Noise                             | dB(A)                   | 72             | 73             | 73             | 75             | 78             |
| Connection Size(PVC)              | mm                      | DE110 Flange   | DE110 Flange   | DE110 Flange   | DE110 Flange   | DE140 Flange   |
| Water Flow                        | m <sup>3</sup> /h       | 50             | 58             | 65             | 75             | 96             |
| Refrigerant                       | / R410A                 |                |                |                |                |                |
| Operating Temperature Range       | °C                      | -12~45         |                |                |                |                |
| Dimensions (L*W*H)                | mm                      | 2006*2212*2185 | 2006*2212*2228 | 2006*2212*2228 | 2006*2212*2228 | 2900*2350*2260 |
| Weight                            | kg                      | 830            | 985            | 1170           | 1380           | 1570           |

- Rated Heating Condition: Outdoor Ambient Temp. (DB/WB): 24°C/19°C, Water Temp. (In): 26°C.  
 - Nominal Heating Condition: Outdoor Ambient Temp. (DB/WB): 20°C/15°C, Water Temp. (In): 26°C.  
 - The data above is for reference only. For model specifications, please refer to the nameplate on the unit.

## LOW TEMPERATURE TYPE

| Model                              | B-45IV(E)               | B-55IV(E)      | B-60IV(E)      | B-70IV(E)      | B-110IV(E)     | B-120IV(E)     |
|------------------------------------|-------------------------|----------------|----------------|----------------|----------------|----------------|
| Heating Capacity                   | 154.1                   | 192.5          | 214.3          | 257.4          | 385            | 415.2          |
| Heating Condition 1 (A20°C/W26°C)  | COP                     | 4.8            | 4.8            | 4.8            | 4.8            | 4.8            |
| Power                              | kw                      | 32.1           | 40.1           | 44.6           | 53.6           | 80.2           |
| Current                            | A                       | 54.8           | 68.5           | 76.2           | 91.5           | 136.9          |
| Heating Capacity                   | 139.6                   | 174.5          | 194.2          | 233.1          | 345.0          | 388.4          |
| Heating Condition 2 (A7°C/W26°C)   | COP                     | 4.35           | 4.35           | 4.35           | 4.35           | 4.35           |
| Power                              | kw                      | 32.1           | 40.1           | 44.6           | 53.6           | 79.3           |
| Current                            | A                       | 54.8           | 68.5           | 76.2           | 91.5           | 135.4          |
| Heating Capacity                   | 132.5                   | 165.8          | 184.3          | 221.3          | 331.6          | 368.6          |
| Heating Condition 3 (A2°C/W26°C)   | COP                     | 4.13           | 4.13           | 4.13           | 4.13           | 4.13           |
| Power                              | kw                      | 32.1           | 40.1           | 44.6           | 53.6           | 80.3           |
| Current                            | A                       | 54.8           | 68.5           | 76.2           | 91.5           | 137.1          |
| Heating Capacity                   | 99.6                    | 124.3          | 138.3          | 166.1          | 248.3          | 276.6          |
| Heating Condition 4 (A-12°C/W26°C) | COP                     | 3.1            | 3.1            | 3.1            | 3.1            | 3.1            |
| Power                              | kw                      | 32.1           | 40.1           | 44.6           | 53.6           | 80.1           |
| Current                            | A                       | 54.8           | 68.5           | 76.2           | 91.5           | 136.7          |
| Power Supply                       | / 380V/3N~/50Hz         |                |                |                |                |                |
| Max. Current Input                 | A                       | 72             | 82             | 98             | 110            | 165            |
| Max. Power Input                   | kw                      | 40.3           | 45.9           | 54.8           | 61.5           | 92.3           |
| Compressor Type                    | / Fully enclosed scroll |                |                |                |                |                |
| Water Pressure Drop                | kPa                     | 62             | 65             | 68             | 68             | 72             |
| Noise                              | dB(A)                   | 72             | 73             | 73             | 75             | 78             |
| Connection Size(PVC)               | mm                      | DE110 Flange   | DE110 Flange   | DE110 Flange   | DE110 Flange   | DE140 Flange   |
| Water Flow                         | m <sup>3</sup> /h       | 50             | 58             | 65             | 75             | 96             |
| Refrigerant                        | / R410A                 |                |                |                |                |                |
| Operating Temperature Range        | °C                      | -30~45         |                |                |                |                |
| Dimensions (L*W*H)                 | mm                      | 2006*2212*2185 | 2006*2212*2228 | 2006*2212*2228 | 2006*2212*2228 | 2900*2350*2260 |
| Weight                             | kg                      | 860            | 1005           | 1205           | 1405           | 1720           |

- Heating Condition 1: Outdoor Ambient Temp. (DB/WB): 20°C/15°C, Water Temp. (In): 26°C.  
 - Heating Condition 2: Outdoor Ambient Temp. (DB/WB): 7°C/6°C, Water Temp. (In): 26°C.  
 - Heating Condition 3: Outdoor Ambient Temp. (DB/WB): 2°C/1°C, Water Temp. (In): 26°C.  
 - Heating Condition 4: Outdoor Ambient Temp. (DB/WB): -12°C/-14°C, Water Temp. (In): 26°C.  
 - The data above is for reference only. For model specifications, please refer to the nameplate on the unit.

## Side Air Outlet Air Source Heat Pump

| Model                             | V-30N-SW          | V-50N-SW     | V-70N-SW      | V-100N-SW     | B-12-SW               | B-15-SW       | B-20-SW       |
|-----------------------------------|-------------------|--------------|---------------|---------------|-----------------------|---------------|---------------|
| Heating Capacity                  | 15.0              | 25.0         | 35.0          | 42.0          | 56.0                  | 75.0          | 90.0          |
| Rated Heating COP (A24°C/W26°C)   | 5.6               | 5.2          | 5.2           | 5.2           | 5.6                   | 5.6           | 5.6           |
| Power                             | 2.7               | 4.8          | 6.7           | 8.1           | 10.0                  | 13.4          | 16.1          |
| Current                           | 12.2              | 8.2          | 11.5          | 13.8          | 17.1                  | 22.9          | 27.4          |
| Heating Capacity                  | 13.1              | 22.9         | 32.5          | 38.7          | 47.8                  | 64.2          | 77.1          |
| Nominal Heating COP (A20°C/W26°C) | 4.8               | 4.8          | 4.8           | 4.8           | 4.8                   | 4.8           | 4.8           |
| Power                             | 2.7               | 4.8          | 6.7           | 8.1           | 10.0                  | 13.4          | 16.1          |
| Current                           | 12.4              | 8.1          | 11.5          | 13.8          | 17.0                  | 22.8          | 27.4          |
| Power Supply                      | / 220V~/50Hz      |              |               |               | 380V/3N~/50Hz         |               |               |
| Max. Current Input                | A                 | 17           | 11            | 14            | 17                    | 23            | 32            |
| Max. Power Input                  | kw                | 3.7          | 6.2           | 7.8           | 9.5                   | 12.9          | 17.9          |
| Compressor Type                   | / Rotary          |              |               |               | Fully enclosed scroll |               |               |
| Water Pressure Drop               | kPa               | 30           | 36            | 41            | 42                    | 43            | 45            |
| Noise                             | dB(A)             | 58           | 60            | 62            | 62                    | 65            | 68            |
| Connection Size(PVC)              | mm                | DE50 Union   |               | DE50 Union    | DE50 Union            | DE75 Flange   | DE75 Flange   |
| Water Flow                        | m <sup>3</sup> /h | 5            | 8             | 10            | 13                    | 16            | 20            |
| Refrigerant                       | / R410A           |              |               |               |                       |               |               |
| Operating Temperature Range       | °C -12~45         |              |               |               |                       |               |               |
| Dimensions (L*W*H)                | mm                | 1050*450*810 | 1034*506*1368 | 1034*506*1368 | 1034*506*1368         | 1800*635*1598 | 1800*635*1598 |
| Weight                            | kg                | 102          | 142           | 156           | 172                   | 285           | 323           |

- Rated Heating Condition: Outdoor Ambient Temp. (DB/WB): 24°C/19°C, Water Temp. (In): 26°C.  
 - Nominal Heating Condition: Outdoor Ambient Temp. (DB/WB): 20°C/15°C, Water Temp. (In): 26°C.  
 - The data above is for reference only. For model specifications, please refer to the nameplate on the unit.

## SWIMMING POOL AIR SOURCE HEAT PUMP

B Series <B-45IV-B-120IV>



## SWIMMING POOL AIR SOURCE HEAT PUMP

<Side Air Outlet Type>

