



**HEATING,  
COOLING AND  
HOT WATER  
All In One:**



*Flair*

**MONOBLOCK  
AIR TO WATER HEAT PUMP**



# Environmentally Friendly for a Green World

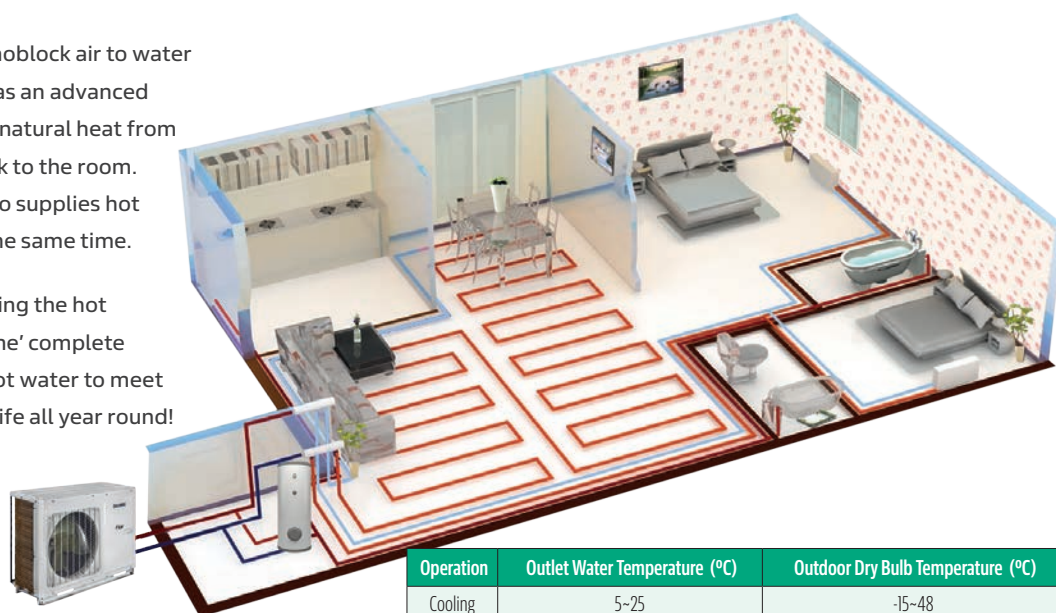
It meets cooling, heating and hot water requirements with high performance up to **5.4 COP energy efficiency**. It has a two-stage compressor. Heating outdoor air temperature operating range is -25~35 °C, water temperature range is 20~65 °C.



With its advanced heat pump technology and powerful equipment, Flair's efficiency has been improved and thus its CO<sub>2</sub> emissions have been made much lower. It is an environmentally friendly product, a reflection of our social responsibility to protect the environment.

Flair is a type of multi functional monoblock air to water heat pump with DC inverter, which has an advanced technology that takes and raises the natural heat from the environment and transfers it back to the room. It doesn't only heat the room, but also supplies hot water required for domestic use at the same time.

Flair can also be used for cooling during the hot summer months. It offers an 'All In One' complete solution with heating, cooling, and hot water to meet your needs. Enjoy your comfortable life all year round!



| Operation     | Outlet Water Temperature (°C) | Outdoor Dry Bulb Temperature (°C) |
|---------------|-------------------------------|-----------------------------------|
| Cooling       | 5~25                          | -15~48                            |
| Heating       | 20~65                         | -25~35                            |
| Water Heating | 40~80                         | -25~45                            |

## Game Changer Outstanding Features

- Ground protection.
- Easy assembly and low installation cost due to its compact structure.
- Low GWP with environmentally friendly R32 refrigerant.
- Wider outdoor temperature operating range in heating mode.
- Outlet water temperature up to 80°C.



Boiler



Wired  
remote controller  
ZF63011AJ



8- 10 - 14 - 16 kW  
Outdoor Unit



Condenser with  
Golden Fins



Grooved  
Copper Pipe



Smart  
Defrosting



Silent  
Operation



Diagnosis



Wide  
Voltage Range



Low Temperature  
Heating



Starting at  
Low Voltage



Wide  
Operation Range



Memory  
Function



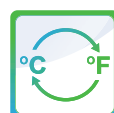
Corrosion  
Protection



24 Hour  
Programming



Weekly  
Scheduling



°C/°F  
Options



Time  
Display



Child  
Lock



Door  
Card Control



Remote  
Observation

Flair Monoblock Air to Water Heat Pump system is powerful, smart and user friendly. It has several user friendly functions, including vacation mode, silent mode, silent preset, clock setting, weekly timer, underfloor heating setting and outdoor dependency mode.

It has cooling, heating, hot water, cooling + hot water and heating + hot water functions and can be connected to radiators, underfloor heating or different types of fan coils.



## Efficient and Energy Saving



### High Efficiency Pump



### The High Performance Coefficient (COP) Plated Heat Exchanger

Has a 5% higher heat exchange efficiency of the louver vane compared to commonly used other fin in exchangers.



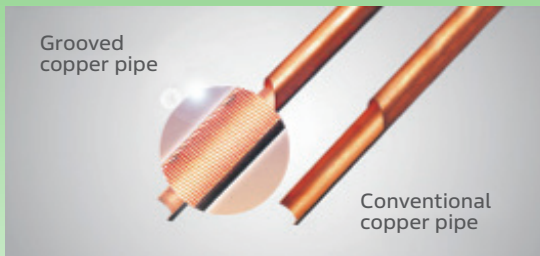
Conventional Usage:  
Normal Plane Vane



Flair:  
Blue Coated  
Louver Vane

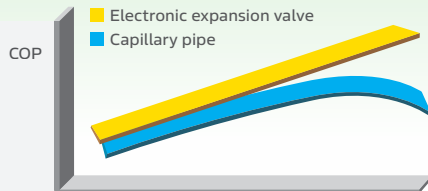
### Exclusive Grooved Copper Pipe

The copper tube, which is grooved by a special process, increases the performance of the heat exchanger by more than 8%.



### Electronic Expansion Valve

The electronic expansion valve is extremely flexible. It can automatically adjust the flow rate according to the refrigerant requirement for the balance of the system. It is more balanced and economical than capillary tubular systems.



## Compact Design



## Comfortable

### Silent Operation

By adjusting the compressor output and fan speed, the operating sound level of the device can be reduced to 3 dB(A). In this way, it allows quieter operation for night or special occasions.

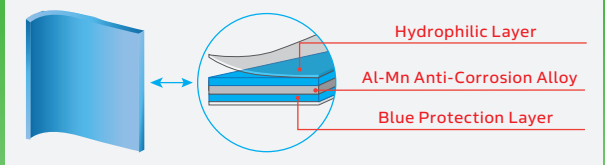
### Precise Temperature Setting

The electronic expansion valve allows the system to automatically adjust according to changes in conditions and water temperature.

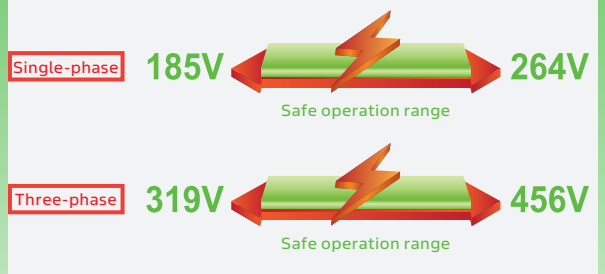
## Reliable

### Prevention of Corrosion in Heat Exchange

The blue hydrophilic coated aluminum vane with high corrosion protection is more durable than the commonly used fin.



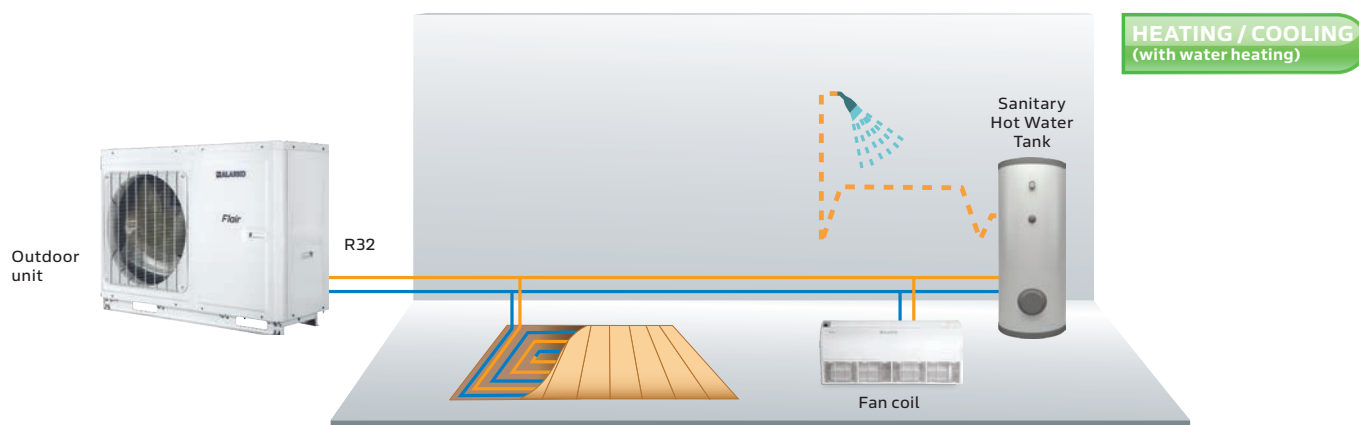
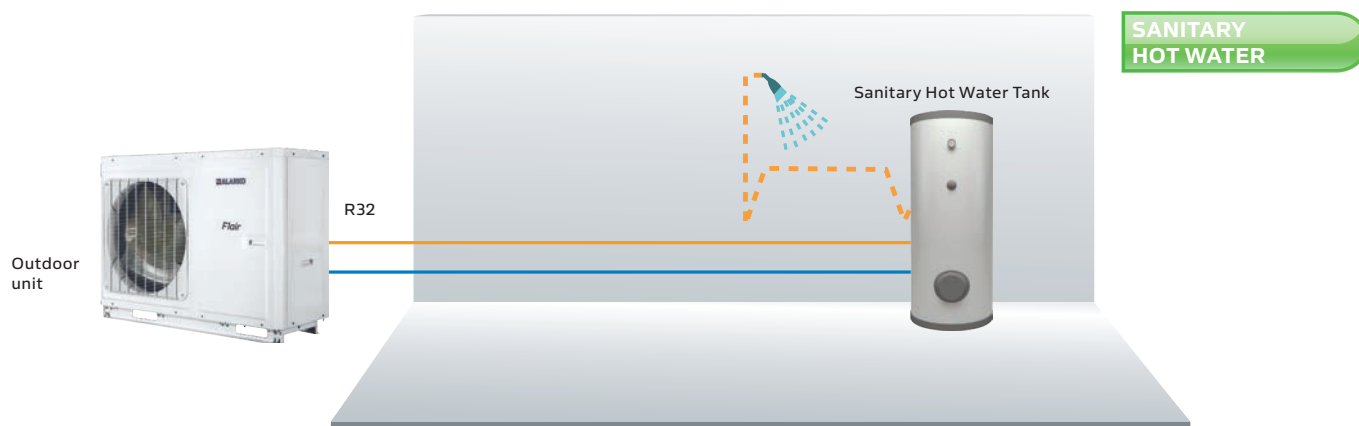
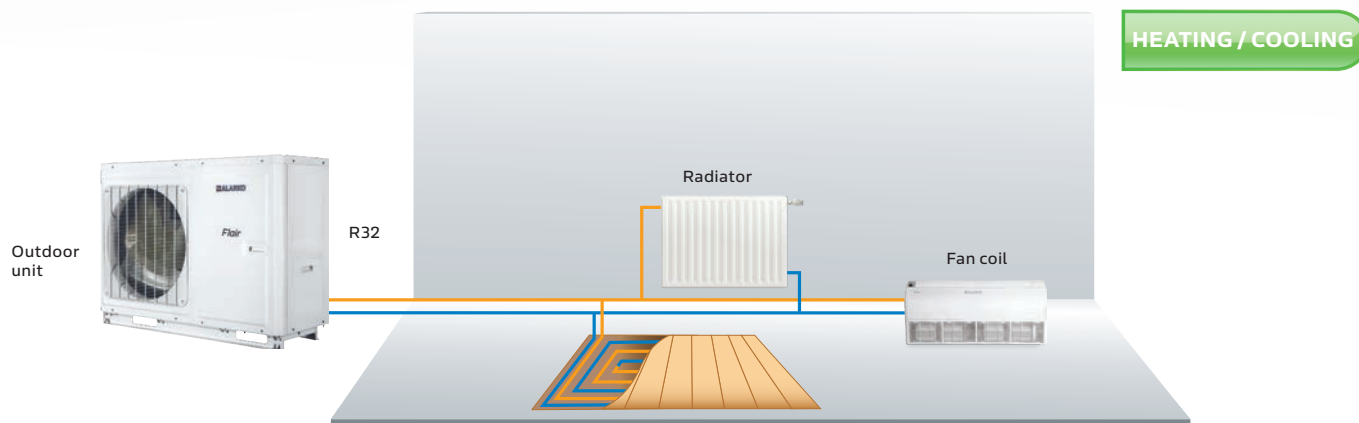
### Wide Operation Voltage



### Automatic Malfunction Detection

With the automatic malfunction detection function, when the voltage or current values go out of the normal range, the outdoor unit will automatically start the protection. When the electricity returns to normal values, the protection is automatically canceled by this function and the system starts operating automatically.

## Combination Examples:



### Five Different Operation Modes

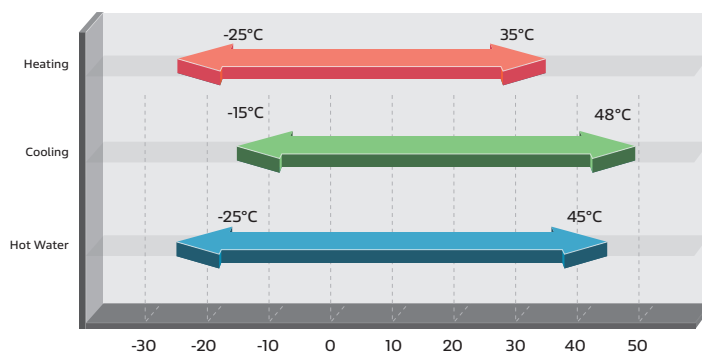
- Heating
- Cooling
- Sanitary Hot Water
- Heating + Sanitary Hot Water
- Cooling + Sanitary Hot Water

### Wide Operation Temperature Range

- Heating -25 ~ 35°C
- Cooling -15 ~ 48°C
- Sanitary Hot Water -25 ~ 45°C

### Hot Water Temperature Range

Domestic Water: 40°C - 80°C



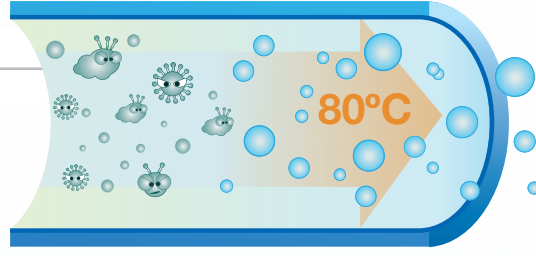
Heating: Fan coil / Radiator: 25°C-65°C  
Underfloor Heating: 25°C - 45°C

Cooling: Fan coil/Radiator: 5°C ~ 25°C  
Underfloor Cooling: 18°C - 25°C



## Healthy

Domestic water is hygienic and can be used directly.  
Stainless steel tanks and pipes do not affect water quality.  
High-temperature disinfection function up to 80°C can prevent bacteria from increasing and create a healthy living experience for the user by providing hygienic water.



## Flexible

Due to its versatile operation design, it can also get integrated into solar panels or boilers.



## Smart Control

Advanced control of the system is possible by using wired remote controller with touch screen LED display. Timer can be set hourly or daily. In this way, the temperature is automatically lowered at night or when you are on vacation, so that the temperature is maintained as much as you feel comfortable when you wake up or return home.

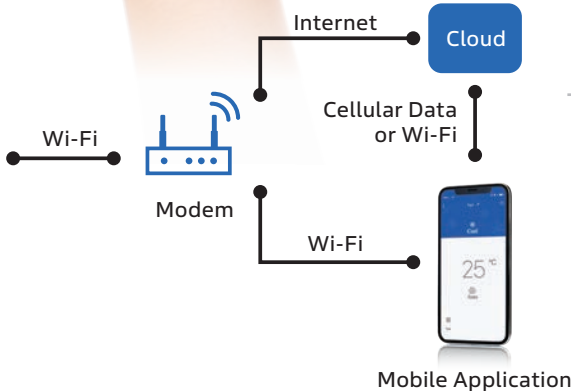


## Wi-Fi Control

With your smart phone or tablet, you have total control wherever you are. By downloading the mobile application to your phone, you can turn your system on and off remotely, change the temperature settings or turn on the vacation mode. Through the app, you can monitor your energy consumption and schedule weekly or daily. At home or not, always comfortable.



Wired  
Remote Control



## Technical Specifications:

| Model                            |                     |            | FLRHP0804MB        | FLRHP1004MB        |
|----------------------------------|---------------------|------------|--------------------|--------------------|
| Power Source                     |                     | V/Phase/Hz | 220 ~ 240 / 1 / 50 | 220 ~ 240 / 1 / 50 |
| Capacity (Underfloor Heating)    | Cooling             | kW         | 8.30               | 10.20              |
|                                  | Heating             | kW         | 8.20               | 10.20              |
| Power Input (Underfloor Heating) | Cooling             | kW         | 1.56               | 2.00               |
|                                  | Heating             | kW         | 1.54               | 2.02               |
| EER (Underfloor Cooling)         |                     | W/W        | 5.32               | 5.10               |
| COP (Underfloor Heating)         |                     | W/W        | 5.32               | 5.05               |
| Capacity (Fan Coil)              | Cooling             | kW         | 7.40               | 9.00               |
|                                  | Heating             | kW         | 8.30               | 10.20              |
| Power Input (Fan Coil)           | Cooling             | kW         | 2.00               | 2.65               |
|                                  | Heating             | kW         | 1.90               | 2.50               |
| EER (Fan Coil)                   |                     | W/W        | 3.70               | 3.40               |
| COP (Fan Coil or Radiator)       |                     | W/W        | 4.36               | 4.08               |
| Refrigerant charge amount        |                     | kg         | 1.60               | 1.60               |
| Domestic water temperature       |                     | °C         | 40-80              | 40-80              |
| Sound pressure level             | Cooling             |            | 52                 | 54                 |
|                                  | Heating             |            | 54                 | 56                 |
| Dimensions (WxDxH)               | External dimensions | mm         | 1206 × 445 × 878   | 1206 × 445 × 878   |
|                                  | Packaged            | mm         | 1338 × 553 × 1020  | 1338 × 553 × 1020  |
| Net weight                       |                     | kg         | 120.0              | 120.0              |
| Gross weight                     |                     | kg         | 139.0              | 139.0              |

| Model                            |                     |            | FLRHP1404MB        | FLRHP1604MB        |
|----------------------------------|---------------------|------------|--------------------|--------------------|
| Power Source                     |                     | V/Phase/Hz | 220 ~ 240 / 1 / 50 | 220 ~ 240 / 1 / 50 |
| Capacity (Underfloor Heating)    | Cooling             | kW         | 13.70              | 15.50              |
|                                  | Heating             | kW         | 14.20              | 15.70              |
| Power Input (Underfloor Heating) | Cooling             | kW         | 3.00               | 3.60               |
|                                  | Heating             | kW         | 2.99               | 3.45               |
| EER (Underfloor Cooling)         |                     | W/W        | 4.57               | 4.31               |
| COP (Underfloor Heating)         |                     | W/W        | 4.75               | 4.55               |
| Capacity (Fan Coil)              | Cooling             | kW         | 13.30              | 13.80              |
|                                  | Heating             | kW         | 14.20              | 16.20              |
| Power Input (Fan Coil)           | Cooling             | kW         | 4.75               | 5.09               |
|                                  | Heating             | kW         | 3.84               | 4.49               |
| EER (Fan Coil)                   |                     | W/W        | 2.80               | 2.71               |
| COP (Fan Coil or Radiator)       |                     | W/W        | 3.70               | 3.61               |
| Refrigerant charge amount        |                     | kg         | 2.20               | 2.20               |
| Domestic water temperature       |                     | °C         | 40-80              | 40-80              |
| Sound pressure level             | Cooling             |            | 55                 | 56                 |
|                                  | Heating             |            | 58                 | 59                 |
| Dimensions (WxDxH)               | External dimensions | mm         | 1206 × 445 × 878   | 1206 × 445 × 878   |
|                                  | Packaged            | mm         | 1338 × 553 × 1020  | 1338 × 553 × 1020  |
| Net weight                       |                     | kg         | 138.0              | 138.0              |
| Gross weight                     |                     | kg         | 156.0              | 156.0              |

### Note:

1. Capacities and power inputs are based on the following conditions:

• **Cooling Conditions**

Outdoor air temperature 35°C Dry / 24°C Wet  
 Inlet water temperature 23°C  
 Outlet water temperature 18°C

• **Heating Conditions**

Outdoor air temperature 7°C Dry / 6°C Wet  
 Inlet water temperature 30°C  
 Outlet water temperature 35°C  
 Standard piping length 5m.

2. Capacities and power inputs are based on the following conditions:

• **Cooling Conditions**

Outdoor air temperature 35°C Dry / 24°C Wet  
 Inlet water temperature 12°C  
 Outlet water temperature 7°C

• **Heating Conditions**

Outdoor air temperature 7°C Dry / 6°C Wet  
 Inlet water temperature 40°C  
 Outlet water temperature 45°C  
 Standard piping length 5m.

3. For underfloor cooling. • 4. For underfloor heating. • 5. For Fancoil. • 6. For the fan coil or the radiator.





**WE THINK  
GREEN**

We are investing in the future with our Alarko Flair environmentally friendly products.  
We use efficient and environmentally friendly products. We are aware that products with  
high energy efficiency are budget and environmentally friendly.  
We fight against global warming with environmentally friendly products.  
We turned our face towards green. We think green.

*Flair*

The data in this catalog is for reference only. Alarko Carrier reserves the right to make changes to product data at any time.

Manufacturer reserves the right to change any product specifications without notice.

 **ALARKO**



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