

 **ALARKO**

Flair

MONOBLOC
Heat Pump



**HEATING, COOLING & HOT WATER
ALL IN ONE FLEXIBLE AND
ECONOMICAL SOLUTION!**

Environmentally Friendly For a Green World

It meets cooling, heating and hot water requirements with high performance up to **5.05 COP energy efficiency**. It has a twin compressor.

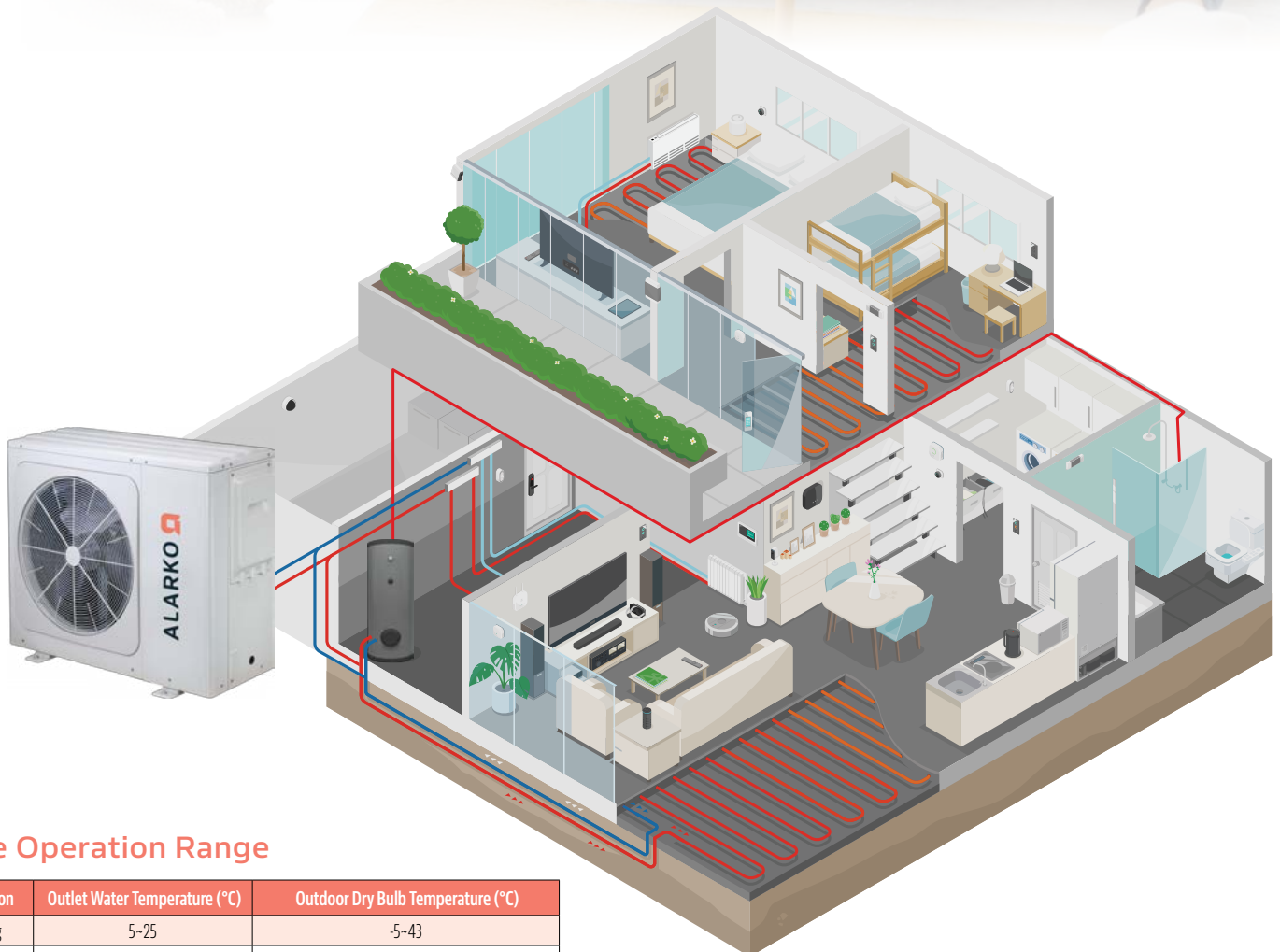
Heating outdoor air temperature operating range is -25~35°C, outlet water temperature range is 25 ~ 65°C.



With its advanced heat pump technology and powerful equipment, Flair's efficiency has been improved and thus its CO₂ 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 monobloc 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. **You can benefit from the comfort and savings all year round!**

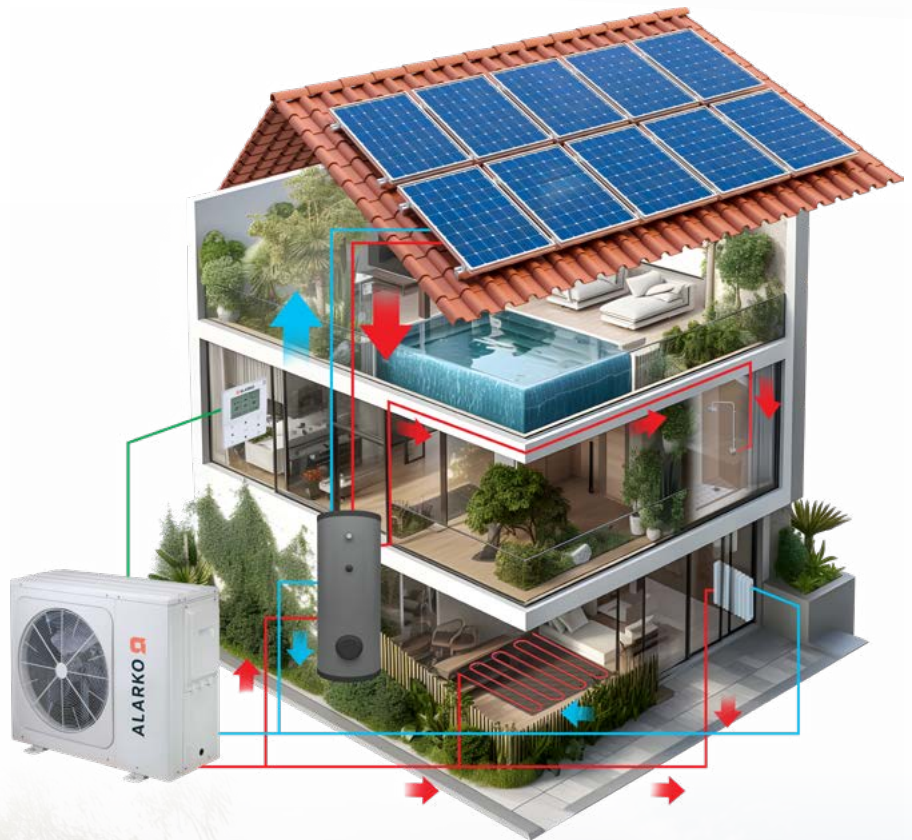


Wide Operation Range

| Operation | Outlet Water Temperature (°C) | Outdoor Dry Bulb Temperature (°C) |
|----------------|-------------------------------|-----------------------------------|
| Cooling | 5~25 | -5~43 |
| Heating | 25~65 | -25~35 |
| Domestic Water | 20~60 | -25~43 |

Resulting Difference Outstanding Features

- Easy assembly and low installation cost due to its compact structure
- Low GWP, higher heat transfer coefficient with eco-friendly R32 refrigerant
- Higher energy efficiency with twin Rotary compressors, water pump and fan motor with DC Inverter technology
- Wider outdoor temperature operating range in heating mode.
- Water temperature up to 60°C at outdoor operation temperature of -15°C with powerful heating capability
- Silent operation mode
- Manual defrost mode to defrost quickly
- Double zone control
- Floor protection
- 32 different preset climate curves
- Wi-Fi Controller
- Cascade system capable of controlling 6 heat pumps



Flair Monobloc Air to Water Heat Pump system is high-performance, smart and user friendly.



Hot Water Tank



Wired
Remote Control



Outdoor
Unit

It has several user friendly functions, including holiday mode, silent mode, double zone control, daily timer, weekly timer, floor heating setting, and manual defrost mode.

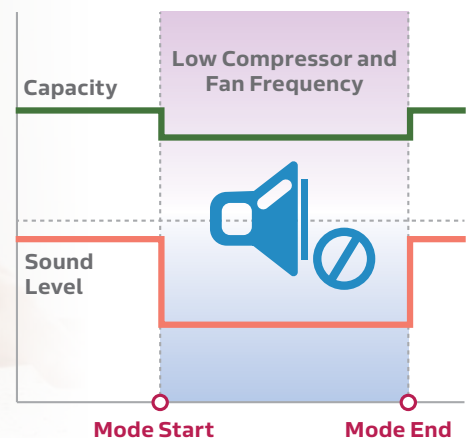
It has cooling, heating, hot water, cooling + hot water and heating + hot water functions and can be connected to radiators, floor heating or different types of fan coils.



Comfortable

Silent Operation Mode

Two different silent modes are provided by adjusting the DC Inverter twin compressor and DC fan motor separately.



High Efficiency

Alarko Flair Heat Pumps provide high efficiency and silent operation with DC Inverter fan motor, compressor and water pump.



**High Efficiency
DC Inverter
Water Pump**



**New Design
DC Inverter
Twin Rotary
Compressor**

- Wide operation range
- High pressure limit and high heating capacity at low outdoor temperatures
- Low operation vibration and noise
- Safe operation with durable and stable bearing and moving parts

DC Inverter Fan Motor



Stepless control BLDC fan motor

- Silent Operation
- Multiple Speed Control

Manual Defrost



*Representative

Manual defrost mode can be activated to quickly defrost according to the user's request.

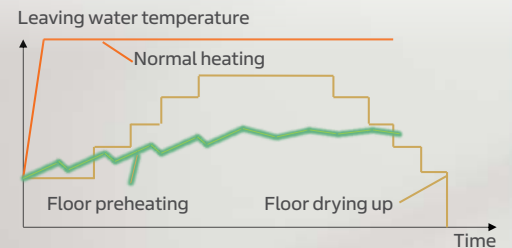
Compact Design



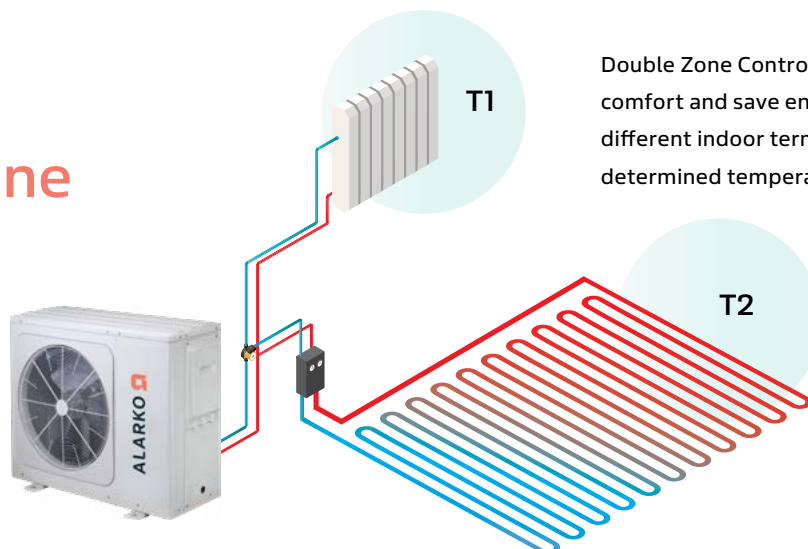
It allows flexible installation with its compact dimensions.

Floor Protection

The floor is protected against warping or cracking with the drying up mode and the preheating mode.



Double Zone Control

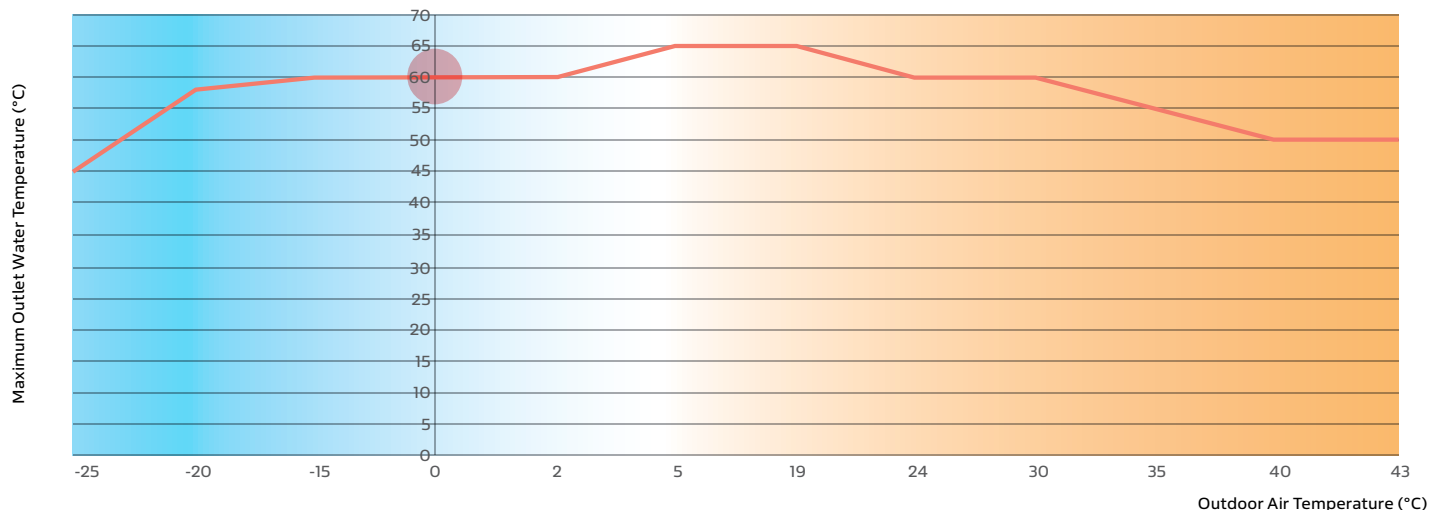


Double Zone Control can be used to increase comfort and save energy by ensuring that different indoor terminal units operate at determined temperatures.

60°C

Powerful Heating

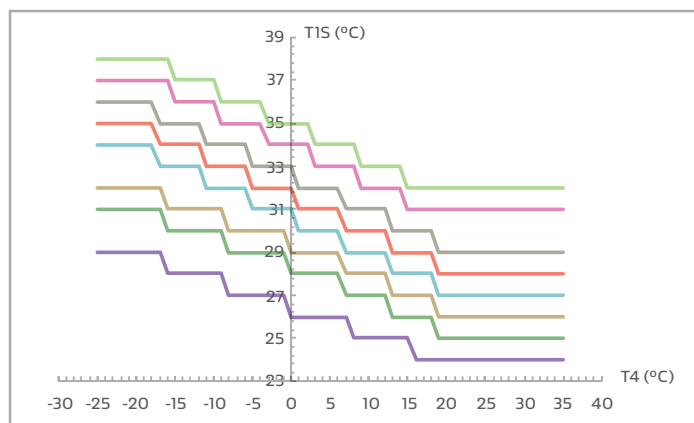
- In heating mode, leaving water temperature up to 65°C is provided.
- Outlet water temperature up to 60°C is provided at outdoor air temperature of -15°C.



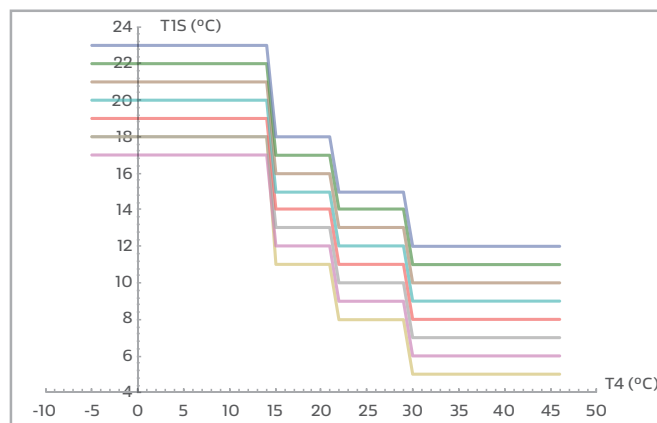
Preset Curves

- The water temperature is automatically set depending on the outdoor air temperature.
- 32 preset curves for heating/cooling mode

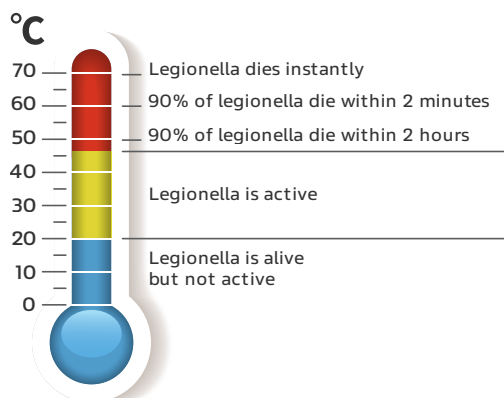
Preset Curve for Heating Mode



Preset Curve for Cooling Mode



Disinfection



The disinfection function is used to inactivate legionella bacteria with water at a temperature of 70°C to ensure healthy and safe use. This function is activated from the user interface.

Cascade System



With cascade system, up to 6 heat pumps can be controlled via one controller. The main unit generates hot water when the other units are operating in heating/cooling mode.

Flexible Solutions



Thanks to its versatile operation design, it can also get integrated into solar panels, electrical heaters, boilers and different heating solutions.

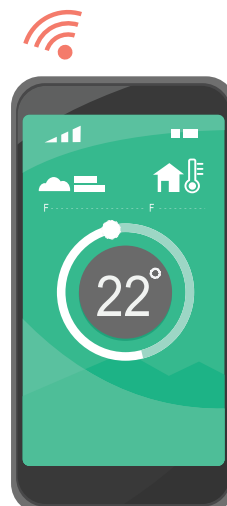
Wi-Fi Controller

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 holiday mode. Through the app, you can monitor your energy consumption and schedule weekly or daily.



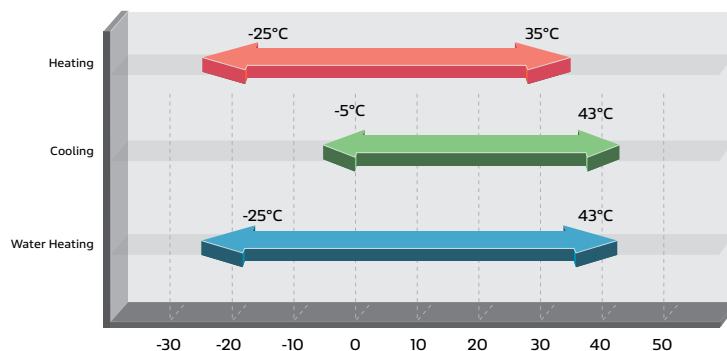
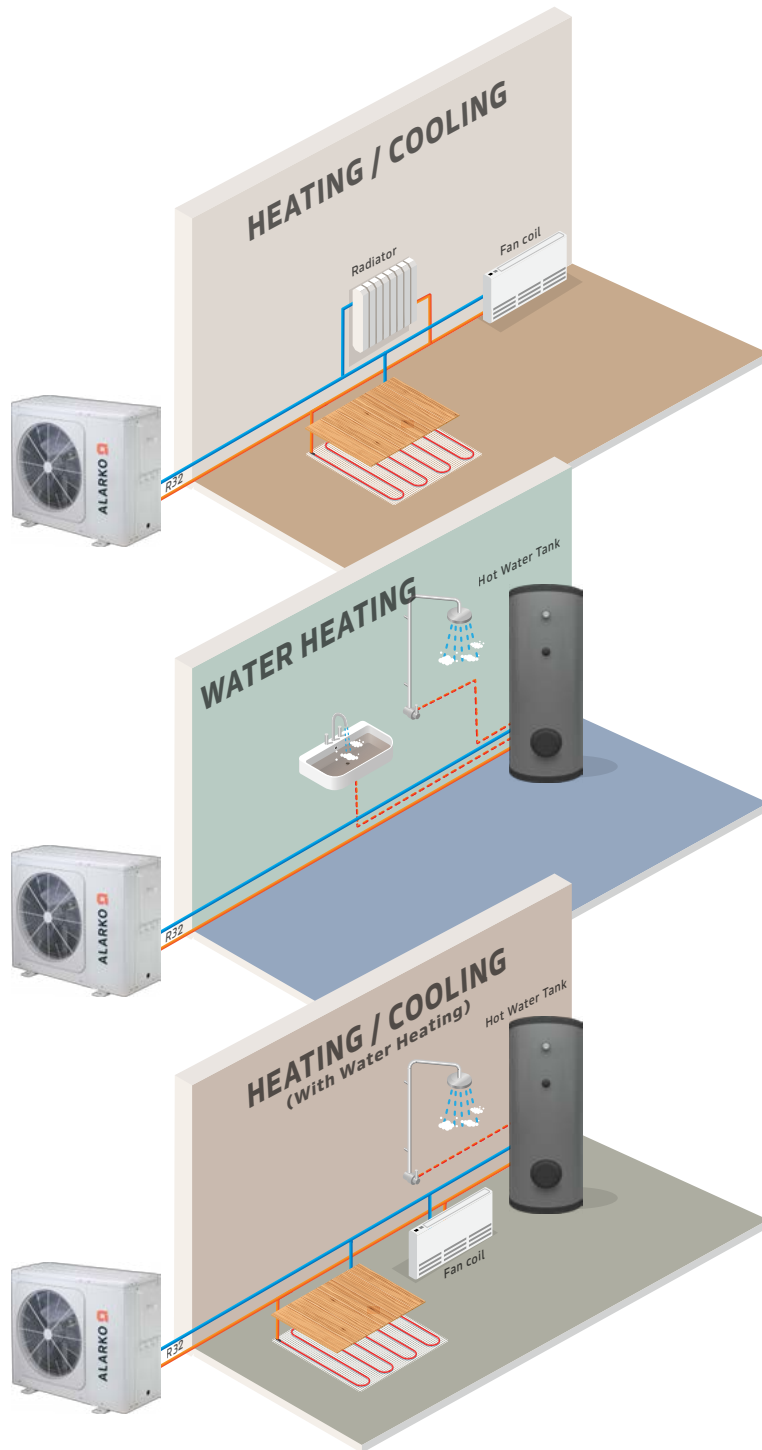
MAIN FEATURES:

- Internal Temperature Sensor and Wi-Fi Module
- Touch Key design
- LCD Display
- Error Code Screen
- Operation Parameters
- Zone Control
- Modbus Protocol and Network Flexibility



*Representative

Combination Examples:



Different Operation Modes

- Heating
- Cooling
- Water Heating
- Heating + water heating
- Cooling + water heating

Domestic Water Temperature Range

Domestic Water: 20°C ~ 60°C

Wide Outdoor Air Operation Temperature Range

- Heating -25 ~ 35°C
- Cooling -5 ~ 43°C
- Water Heating -25 ~ 43°C

Leaving Water Operation Temperature Range

The recommended operation ranges according to different heating applications are as follows.

- Floor Heating 30 ~ 35°C
- Fan Coil 40 ~ 45°C
- Low-temperature radiators 40 ~ 50°C



Note:

1. The seasonal heating energy efficiency class was tested in average climatic conditions.
2. Test standard: EN12102.
3. Test reference standards of the data: EN14511; EN14825; EN50564; EN12102; (EU) No 811/2013; (EU) No 813/2013; OJ 2014/C 207/02.

Technical Specifications:

| Model | | | FLR-HPM07A104 | FLR-HPM09A104 | FLR-HPM14A104 | FLR-HPM16A104 |
|---|--------------------------------|-------------------|-------------------------|---------------|---------------|---------------|
| Power Supply (V/Ph/Hz) | | | 220-240/1/50 | 220-240/1/50 | 220-240/1/50 | 220-240/1/50 |
| Heating A7W35 | Capacity | W | 8400 | 10000 | 14100 | 16000 |
| | Power Input | W | 1663 | 2128 | 3000 | 3556 |
| | COP | | 5.05 | 4.70 | 4.70 | 4.50 |
| Heating A7W45 | Capacity | W | 8500 | 10200 | 14500 | 16200 |
| | Power Input | W | 2237 | 2795 | 4085 | 4696 |
| | COP | | 3.80 | 3.65 | 3.55 | 3.45 |
| Heating A7W55 | Capacity | W | 8200 | 9400 | 14000 | 16000 |
| | Power Input | W | 2603 | 3032 | 4746 | 5614 |
| | COP | | 3.15 | 3.10 | 2.95 | 2.85 |
| Heating A2W35 | Capacity | W | 7100 | 8200 | 13000 | 14500 |
| | Power Input | W | 1797 | 2158 | 3714 | 4462 |
| | COP | | 3.95 | 3.80 | 3.50 | 3.25 |
| Heating A2W45 | Capacity | W | 7500 | 8500 | 13000 | 14300 |
| | Power Input | W | 2459 | 2881 | 4643 | 5296 |
| | COP | | 3.05 | 2.95 | 2.80 | 2.70 |
| Heating A2W55 | Capacity | W | 7600 | 8400 | 13000 | 13500 |
| | Power Input | W | 2815 | 3170 | 5603 | 5870 |
| | COP | | 2.70 | 2.65 | 2.32 | 2.30 |
| Heating A-7W35 | Capacity | W | 7100 | 8000 | 12500 | 13500 |
| | Power Input | W | 2254 | 2667 | 4464 | 5000 |
| | COP | | 3.15 | 3.00 | 2.80 | 2.70 |
| Heating A-7W45 | Capacity | W | 6800 | 7400 | 12500 | 13500 |
| | Power Input | W | 2720 | 3083 | 5435 | 6000 |
| | COP | | 2.50 | 2.40 | 2.30 | 2.25 |
| Heating A-7W55 | Capacity | W | 6600 | 7200 | 11700 | 12800 |
| | Power Input | W | 3143 | 3512 | 5625 | 6244 |
| | COP | | 2.10 | 2.05 | 2.08 | 2.05 |
| Cooling A35W18 | Capacity | W | 8300 | 10000 | 13900 | 15400 |
| | Power Input | W | 1711 | 2326 | 3159 | 3667 |
| | EER | | 4.85 | 4.30 | 4.40 | 4.20 |
| Cooling A35W7 | Capacity | W | 7400 | 9000 | 13400 | 14000 |
| | Power Input | W | 2349 | 3103 | 4573 | 4828 |
| | EER | | 3.15 | 2.90 | 2.93 | 2.90 |
| Seasonal Heating Energy Efficiency Class ¹ | Leaving Water Temperature 35°C | | A+++ | A+++ | A+++ | A+++ |
| | Leaving Water Temperature 55°C | | A++ | A++ | A++ | A++ |
| SCOP | Warmer Climate | 35°C | 6.94 | 7.05 | 6.59 | 6.46 |
| | | 55°C | 4.71 | 4.91 | 4.69 | 4.68 |
| | Average Climate | 35°C | 5.10 | 5.05 | 4.83 | 4.78 |
| | | 55°C | 3.60 | 3.63 | 3.55 | 3.53 |
| | Colder Climate | 35°C | 4.44 | 4.44 | 4.36 | 4.35 |
| | | 55°C | 3.02 | 3.14 | 3.24 | 3.18 |
| SEER | Leaving Water Temperature 7°C | | 5.13 | 5.0 | 5.03 | 5.08 |
| | Leaving Water Temperature 18°C | | 8.03 | 8.23 | 7.58 | 7.43 |
| Sound Power Level ² | Heating A7W35 | dB | 63 | 65 | 72 | 72 |
| | Cooling maximum | dB | 66 | 68 | 74 | 74 |
| | Heating silent mode 1 | dB | 61 | 63 | 67 | 67 |
| | Heating silent mode 2 | dB | 58 | 60 | 64 | 64 |
| | Cooling A35W18 | dB | 63 | 65 | 71 | 71 |
| | Cooling maximum | dB | 66 | 68 | 74 | 74 |
| | Cooling silent model | dB | 61 | 63 | 67 | 67 |
| | Cooling silent mode 2 | dB | 58 | 60 | 64 | 64 |
| Compressor | Type | | Twin Rotary DC Inverter | | | |
| Fan | Type | | DC Motor | | | |
| | Quantity | | 1 | 1 | 1 | 1 |
| | Air Flow Rate | m ³ /h | 4500 | 4500 | 5200 | 5200 |
| Air Side Heat Exchanger | Type | | Finned Tubular | | | |
| Refrigerant | Type | | R32 | R32 | R32 | R32 |
| | Quantity | kg | 1.25 | 1.25 | 1.8 | 1.8 |
| Water Side Heat Exchanger | Type | | Plate | Plate | Plate | Plate |
| Nominal Flow Rate | m ³ /h | | 1.44 | 1.72 | 2.43 | 2.75 |
| Water Flow Range | m ³ /h | | 0.40-1.65 | 0.40-2.10 | 0.70-2.75 | 0.70-3.00 |
| Water Pump | Type | | DC | DC | DC | DC |
| | Maximum Pump Head | m | 9 | 9 | 9 | 9 |
| Expansion Tank | Volume | L | 5 | 5 | 5 | 5 |
| | Maximum Operation Pressure | bar | 8 | 8 | 8 | 8 |
| Safety Valve | MPa | | 0.3 | 0.3 | 0.3 | 0.3 |
| Flow Switch | m ³ /h | | 0.36 | 0.36 | 0.6 | 0.6 |
| Water Side Connection | | | G1" BSP | G1" BSP | G5/4" BSP | G5/4" BSP |
| Dimensions (W-H-D) | | mm | 1040x865x410 | | | |
| Packing Dimensions (W-H-D) | | mm | 1190x970x560 | | | |
| Net Weight | | kg | 87 | 87 | 106 | 106 |
| Gross Weight | | kg | 103 | 103 | 122 | 122 |
| Outdoor Operating Temperature Range | Cooling | °C | -5-43 | -5-43 | -5-43 | -5-43 |
| | Heating | °C | -25-35 | -25-35 | -25-35 | -25-35 |
| | Domestic Water | °C | -25-43 | -25-43 | -25-43 | -25-43 |
| Outlet Water Operation Temperature Range | Cooling | °C | 5-25 | 5-25 | 5-25 | 5-25 |
| | Heating | °C | 25-65 | 25-65 | 25-65 | 25-65 |
| | Domestic Water | °C | 20-60 | 20-60 | 20-60 | 20-60 |

eco-friendly and high-efficiency products for a better world



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 stand against global warming with products with R32 refrigerant. 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.

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

ALARKO



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