



# Flair

**SPLIT**  
Heat Pump



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

# Environmentally Friendly For a Green World

It meets cooling, heating & hot water requirements with high performance up to **5.20 COP energy efficiency**.

It has a twin compressor. Heating outdoor air temperature operating range is -25~35°C, water temperature range is 25~65°C.



**INVERTER**

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.

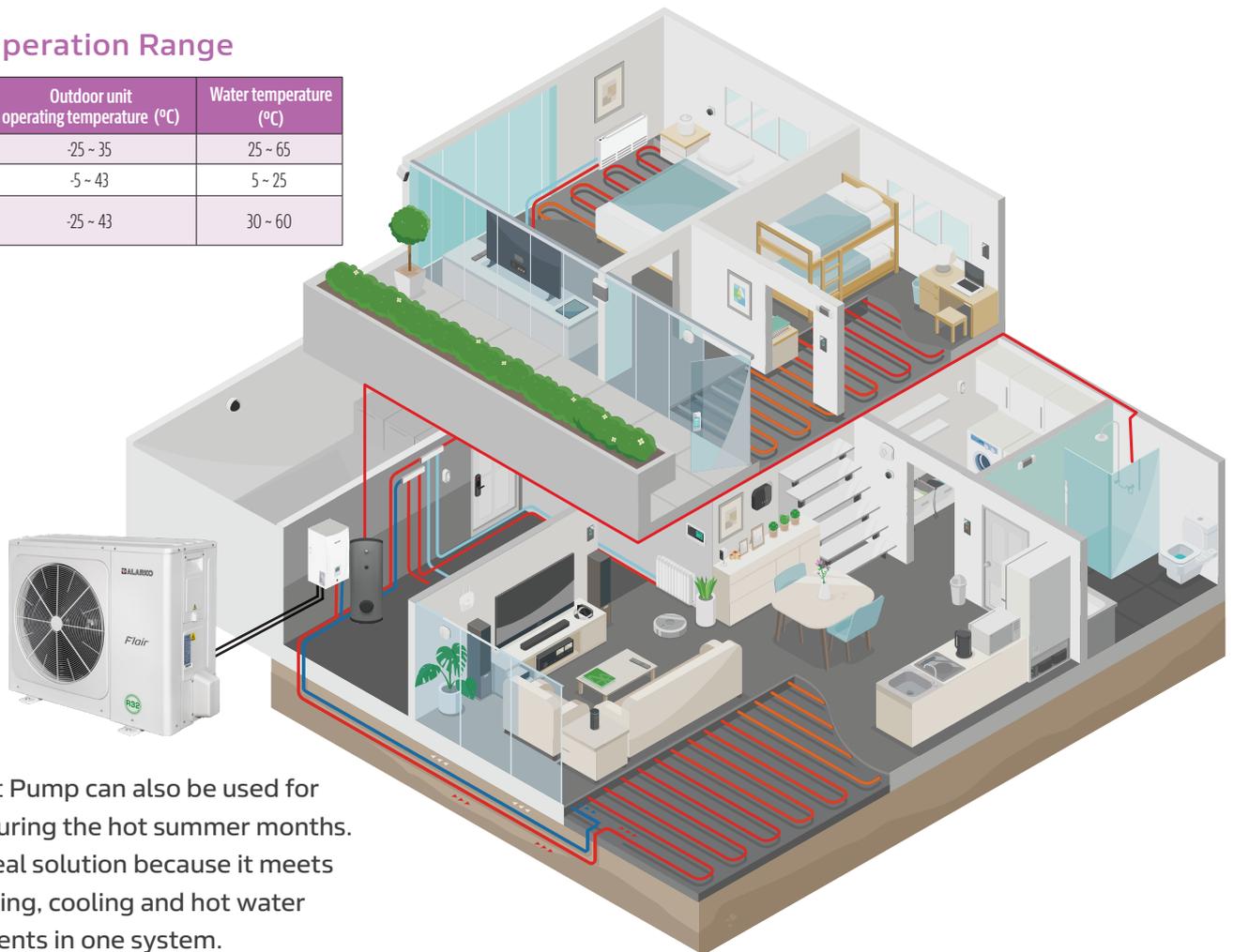
## ENJOY COMFORT AND SAVINGS ALL YEAR ROUND!



Flair Heat Pump is a multi-functional split system with DC inverter that takes the natural heat from the environment and transfers it back to the room by raising this heat thanks to its advanced technology. Flair doesn't only heat the room, but also supplies hot water required for domestic use at the same time.

### Wide Operation Range

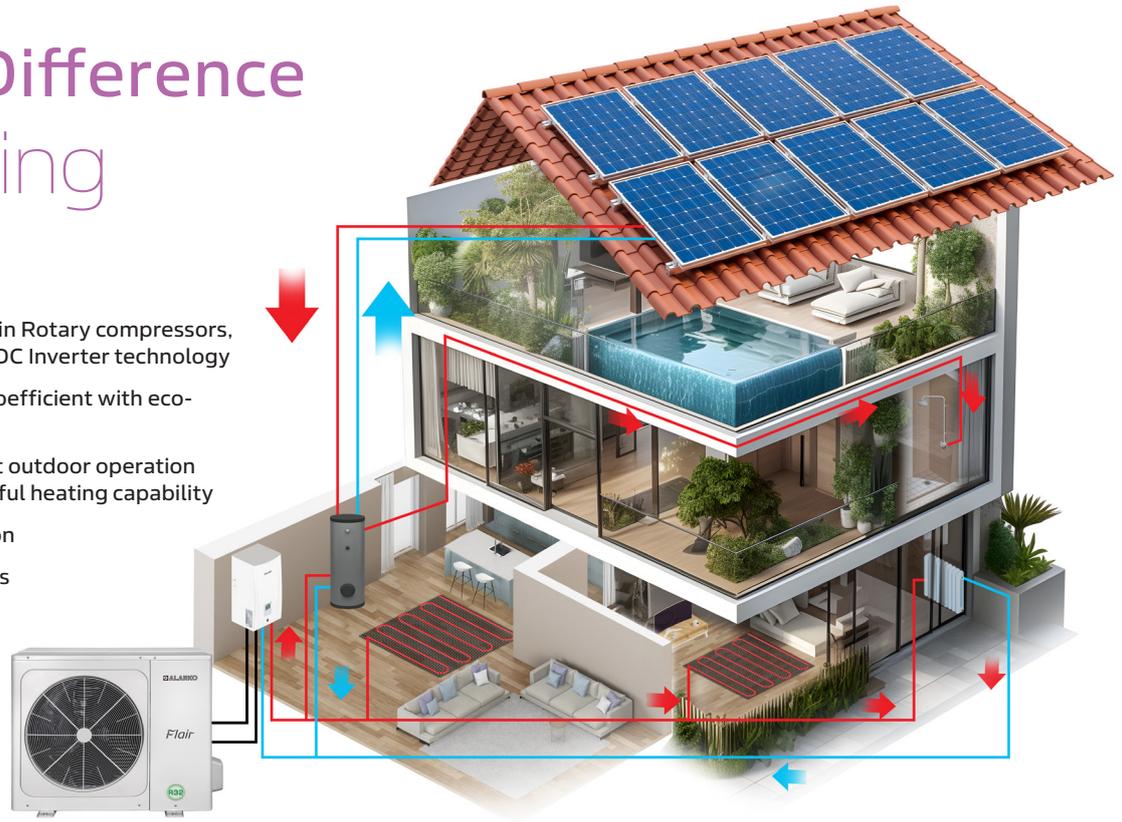
Mode	Outdoor unit operating temperature (°C)	Water temperature (°C)
Heating	-25 ~ 35	25 ~ 65
Cooling	-5 ~ 43	5 ~ 25
Domestic Water	-25 ~ 43	30 ~ 60



Flair Heat Pump can also be used for cooling during the hot summer months. It is an ideal solution because it meets your heating, cooling and hot water requirements in one system.

# Resulting Difference Outstanding Features

- Higher energy efficiency with twin Rotary compressors, water pump and fan motor with DC Inverter technology
- Low GWP, higher heat transfer coefficient with eco-friendly R32 refrigerant
- Water temperature up to 60°C at outdoor operation temperature of -15°C with powerful heating capability
- Fast Hot Water Production Option
- 32 different preset climate curves
- High seasonal efficiency
- Power Limitation Function
- Wide Operation Range
- Wi-Fi Controller
- Double Zone Control
- Holiday Mode



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



Hot Water Tank



Indoor Unit



Outdoor Unit

It has many user-friendly functions such as holiday mode, double zone control, daily timer, weekly timer, floor heating setting. 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.



## Combination Examples:

### Different Operation Modes

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

### Domestic Water Temperature Range

Domestic Water: 30°C ~ 60°C

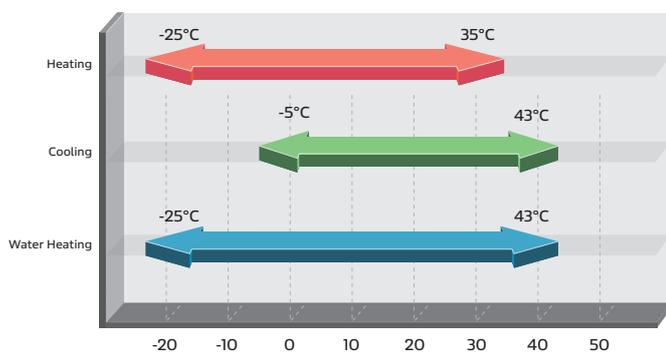
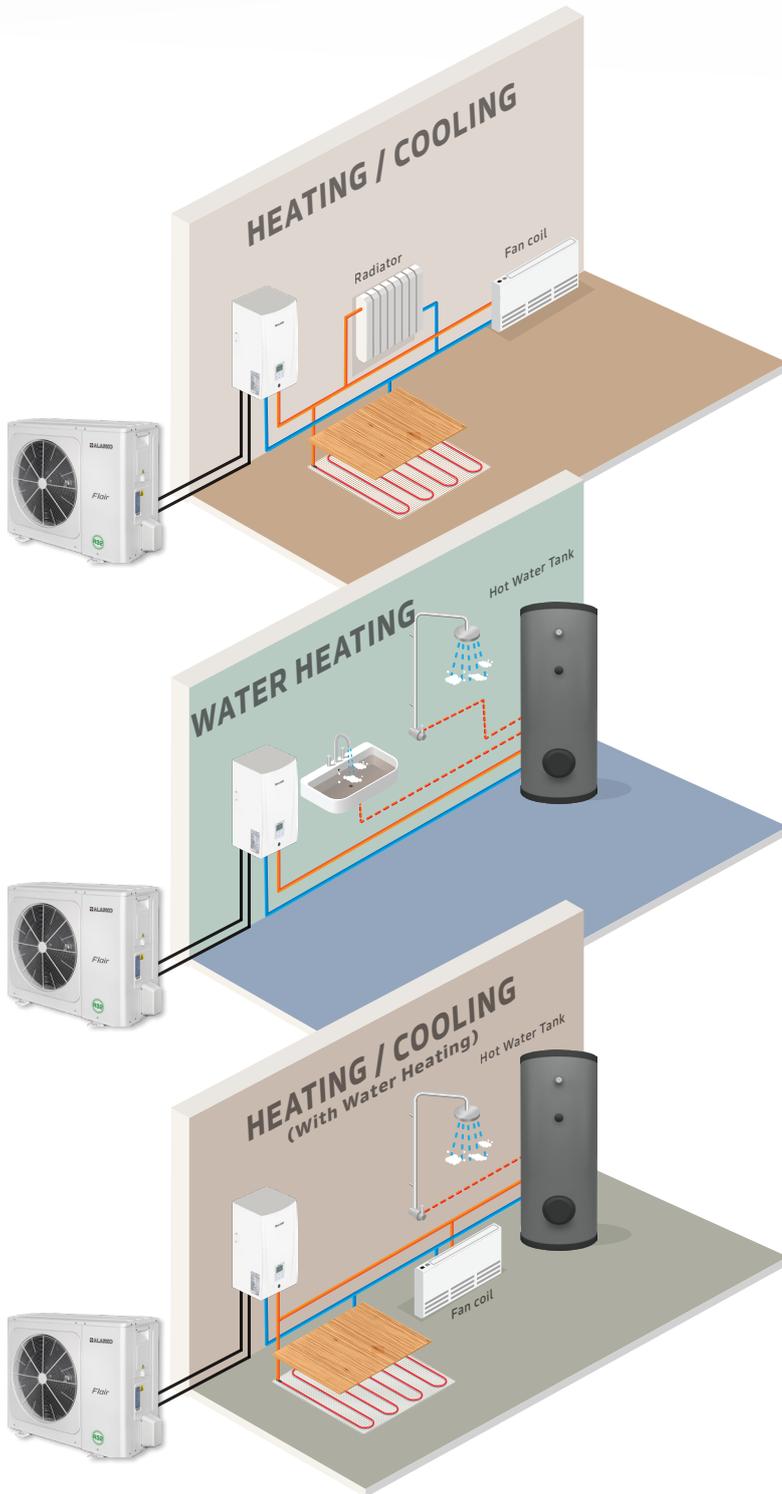
### Wide Outdoor Air Operation Temperature Range

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

### Leaving Water Operation Temperature Range

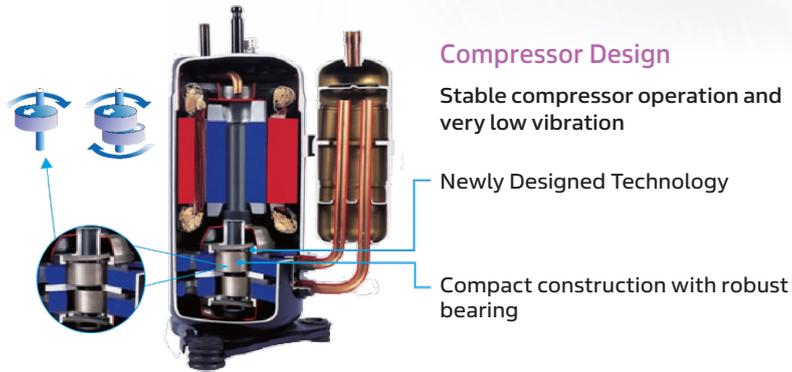
The recommended operation ranges according to different heating applications are as follows.

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





## Special System Design for Quiet Operation

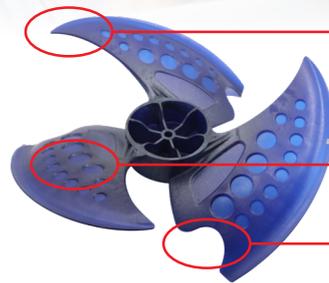


### Compressor Design

Stable compressor operation and very low vibration

Newly Designed Technology

Compact construction with robust bearing



### Blade Design

- The sound level is reduced with special blade edge design
- Special surface design
- Special notch design

# A+++

Alarko Flair Heat Pumps have A+++ seasonal heating energy efficiency class.



## 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**



**DC Inverter Twin Rotary Compressor**

- Wide Operation Frequency Range
- High Efficiency
- Low Operation Vibration
- Compact construction with robust bearing and robust moving parts



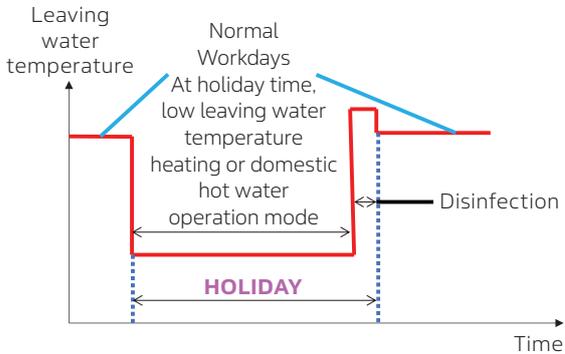
**DC Inverter Fan Motor**

Stepless control BLDC fan motor

- Silent Operation
- Low Power Consumption

## Holiday Mode

On holiday, holiday mode can be used to protect the device from freezing damage depending on the climatic condition.



## Timer

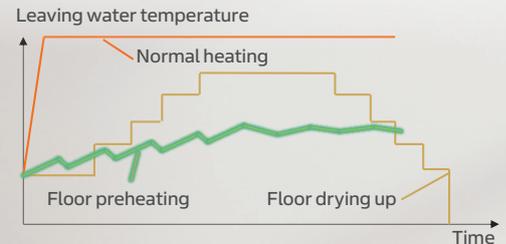
The use of the device is simplified with daily and weekly programs. Up to 6 timers can be set in a day.

## Power Limitation Function

There are 9 different configurations that can be selected by the user for the maximum allowable current. It is set via the wired controller.

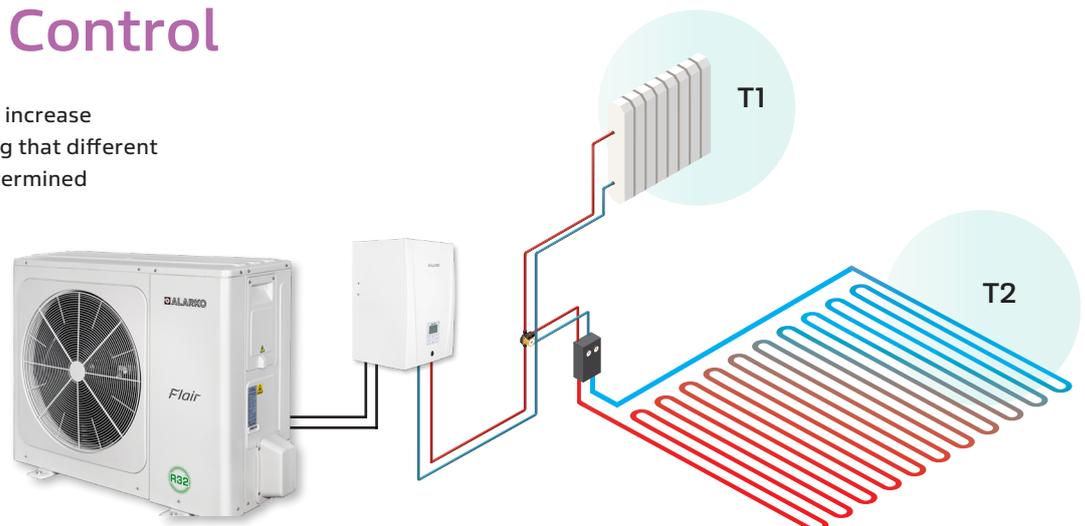
## Floor Protection

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



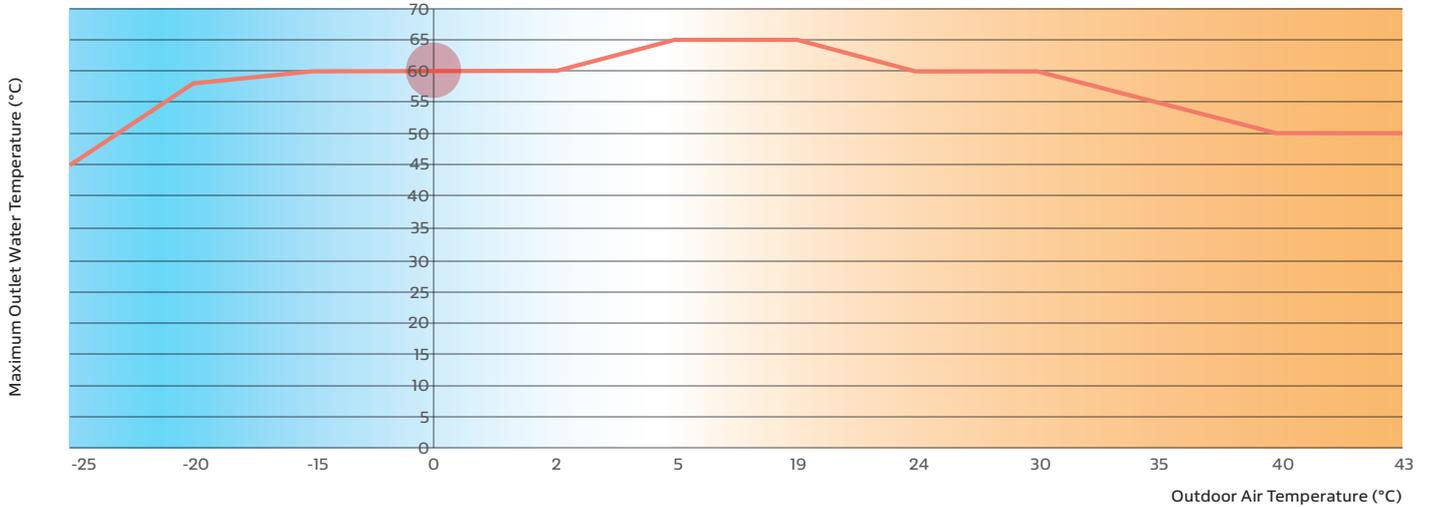
## Double Zone Control

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

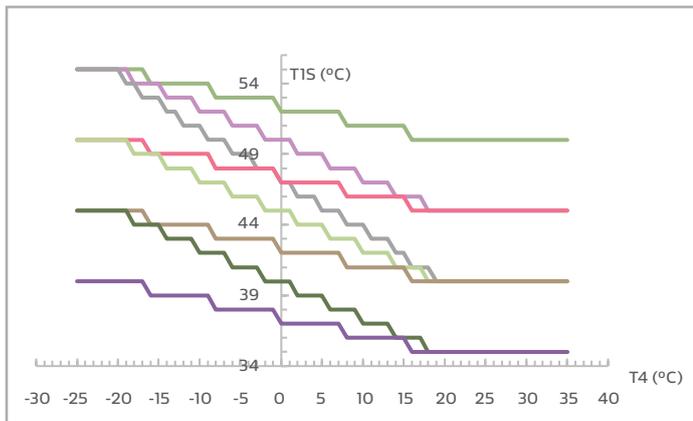
- In heating mode, leaving water temperature up to 65°C is provided.
- Outlet water temperature up to 60°C is provided at outdoor air temperature of -15°C.



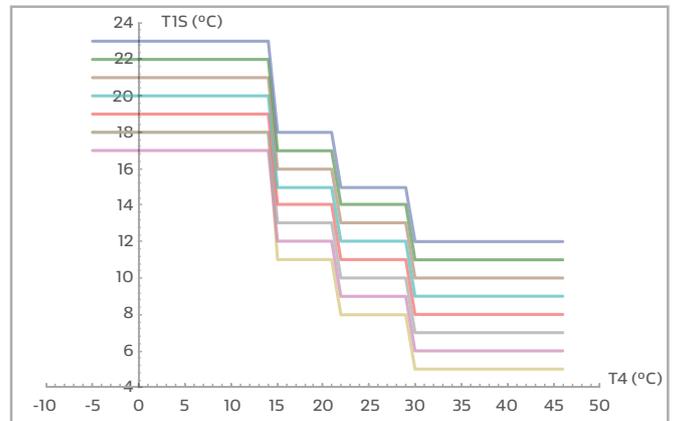
## Preset Curves

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

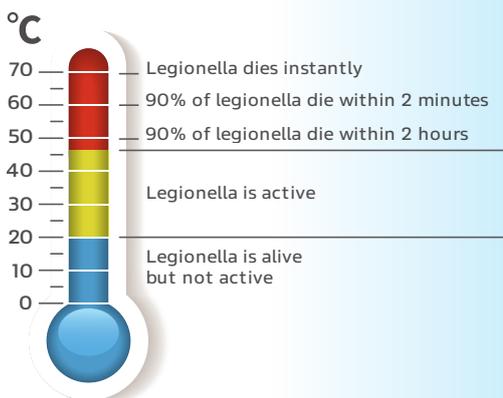
Preset Curve for Heating Mode



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.

## Fast Hot Water Production



Through Auxiliary Heating sources, the hot water required for domestic use is quickly obtained. (\*Optional)



## Outdoor Unit: Sustainable Energy Converter

With excellent COP values, Flair uses DC Inverter Technology and R32 Refrigerant that does not damage the ozone layer.



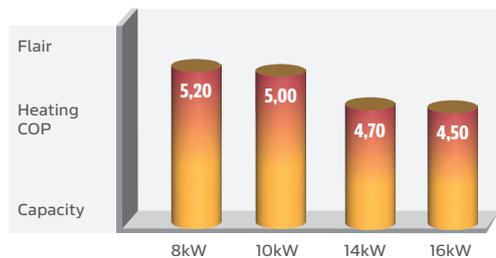
Ambient Temperature



### More heating power with less energy consumption!

### Heat Pump Technology Reduces CO<sub>2</sub> Emissions and Energy Consumption!

Flair reduces energy consumption and CO<sub>2</sub> emissions considerably with a heat pump technology that transfers the heat energy from the outdoor to indoor environment for heating, cooling, and hot water supply.



## COP up to 5.20

With excellent performance class (COP), the maximum COP value reaches 5.20.

Test Standard: EN14511

Note: ■ In single-phase models



## 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

# Hydro Indoor Unit: Heating/Cooling and Domestic Water

The hydro-indoor unit transfers the heat in the refrigerant to the radiators, the floor heating system, and the water to be stored in the domestic hot water tank. If the cooling mode is selected, the hydro unit will lower the water temperature to allow the space to cool down.

## Lightweight and Compact

Flair Hydro Indoor Unit provides easy installation and adaptation to every space with its compact design and lightweight.

3 kw back up heater is standard on all indoor units.



**46kg**  
Minimum weight



## Indoor Unit Specifications:

Model		FLRHPH10A114		FLRHPH16A114	
Compatible Outdoor Unit Model		FLRHP008A114 / FLRHP010A114		FLRHP014A114 / FLRHP016A114	
Function		Heating and Cooling			
Leaving Water Operation Temperature Range	Cooling	°C	5 ~ 25		
	Heating	°C	25 ~ 65		
	Domestic Hot Water <sup>3</sup>	°C	30 ~ 60		
Power Supply		V/Ph/Hz	220 - 240 / 1 / 50		220 - 240 / 1 / 50
Back Up Heater		kW	3		3
Sound Power Level <sup>1</sup>		dB	42		43
Sound Pressure Level (1m) <sup>2</sup>		dB	30		32
Dimensions (W×H×D)		mm	445 × 711 × 389		445 × 711 × 389
Packing Dimensions (W×H×D)		mm	525 × 800 × 450		525 × 800 × 450
Net / Gross Weight		kg	46 / 52		48 / 54
Water Circuit	Pipe Connections		inch	R1"	
	Safety Valve Set Pressure		MPa	0.3	
	Drain Pipe Connection		mm	Ø 25	
	Expansion Tank	Volume	L	8	
		Maximum Water Pressure	MPa	0.3	
		Pre-Pressure	MPa	0.1	
	Water Side	Type		Plate	
	Water Pump Pump Head		m	9	
Water Flow Range		m <sup>3</sup> /h	0.4 ~ 2.10		
Internal Water Volume		L	5		
Refrigerant Circuit	Liquid Pipeline (OD)		mm	Ø 9.52	
	Gas Pipeline (OD)		mm	Ø 15.9	

1. Test standard: EN12102-1

2. Sound pressure level is the maximum value tested under two conditions, including Heating: A7W35 and Cooling: A35W18 for the different combination between Outdoor unit and hydronic box.

3. Maximum domestic water temperature of 60°C can only be achieved with the support of TBH.

## Outdoor Unit Specifications:

Model			FLRHP008A114	FLRHP010A114	FLRHP014A114	FLRHP016A114
Compatible Hydronic Unit			FLRHP10A114		FLRHP16A114	
Power Supply		V/Ph/Hz	220 - 240 / 1 / 50			
Heating (A7W35)	Capacity	kW	8.3	10	14.5	16
	Power Input	kW	1.6	2	3.09	3.56
	COP			5.20	5.00	4.70
Heating (A7W45)	Capacity	kW	8.2	10	14.2	16
	Power Input	kW	2.08	2.63	3.89	4.44
	COP			3.95	3.80	3.65
Heating (A7W55)	Capacity	kW	7.5	9.5	13.8	16
	Power Input	kW	2.36	3.06	4.6	5.52
	COP			3.18	3.10	3.00
Heating (A-7W35)	Capacity	kW	7.1	8.25	12	13.3
	Power Input	kW	2.18	2.62	4.29	4.93
	COP			3.25	3.15	2.80
Heating (A-7W55)	Capacity	kW	6.15	6.85	11	12.5
	Power Input	kW	3	3.43	5.37	6.19
	COP			2.05	2.00	2.05
Cooling (A35W18)	Capacity	kW	8.4	10	13.5	14.2
	Power Input	kW	1.66	2.08	3.75	3.93
	EER			5.05	4.80	3.60
Cooling (A35W7)	Capacity	kW	7.4	8.2	12.7	14
	Power Input	kW	2.19	2.48	4.98	5.71
	EER			3.38	3.30	2.55
Seasonal Heating Energy Efficiency Class <sup>1</sup>	Leaving Water Temperature 35 °C		A+++	A+++	A+++	A+++
	Leaving Water Temperature 55 °C		A++	A++	A++	A++
SCOP	Warmer Climate	35 °C	6.99	7.09	6.58	6.29
		55 °C	4.51	4.62	4.49	4.48
	Average Climate	35 °C	5.22	5.2	4.72	4.62
		55 °C	3.37	3.47	3.47	3.41
	Cold Climate	35 °C	4.33	4.32	4.07	4.02
		55 °C	2.88	2.99	3.05	3.12
SEER	Leaving Water Temperature 7 °C		5.83	5.98	4.86	4.69
	Leaving Water Temperature 18 °C		8.95	8.78	6.9	6.75
Nominal Flow Rate		m <sup>3</sup> /h	1.43	1.72	2.49	2.75
Compressor	Type		Twin rotary DC inverter		Twin rotary DC inverter	
Outdoor Unit Fan	Motor Type		Brushless DC motor		Brushless DC motor	
	Number of Fans		1	1	1	1
Air Side Heat Exchanger	Type		Finned Tubular		Finned Tubular	
Refrigerant (R32)	Ex-factory Quantity	kg	1.65	1.65	1.84	1.84
Connection Pipe	Liquid Pipeline(OD)	mm	∅ 9.52	∅ 9.52	∅ 9.52	∅ 9.52
	Gas Pipeline (OD)	mm	∅ 15.9	∅ 15.9	∅ 15.9	∅ 15.9
	Min. Pipe Length	m	2	2	2	2
	Max. Pipe Length	m	30	30	30	30
Installation Elevation Difference	Outdoor Unit Above	m	20	20	20	20
	Outdoor Unit Below	m	20	20	20	20
Sound Power Level <sup>2</sup>		dB	59	60	65	68
Sound Pressure Level <sup>2</sup>		dB	46	49	51	54
Dimensions (W×H×D)		mm	1118 × 865 × 523	1118 × 865 × 523	1118 × 865 × 523	1118 × 865 × 523
Packing Dimensions (W×H×D)		mm	1180 × 890 × 560	1180 × 890 × 560	1180 × 890 × 560	1180 × 890 × 560
Net / Gross Weight		kg	77 / 88	77 / 88	96 / 110	96 / 110
Outdoor Operating Temperature Range	Cooling	°C	-5 ~ 43			
	Heating	°C	-25 ~ 35			
	Domestic Water	°C	-25 ~ 43			

Note:

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

# 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.

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

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