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.



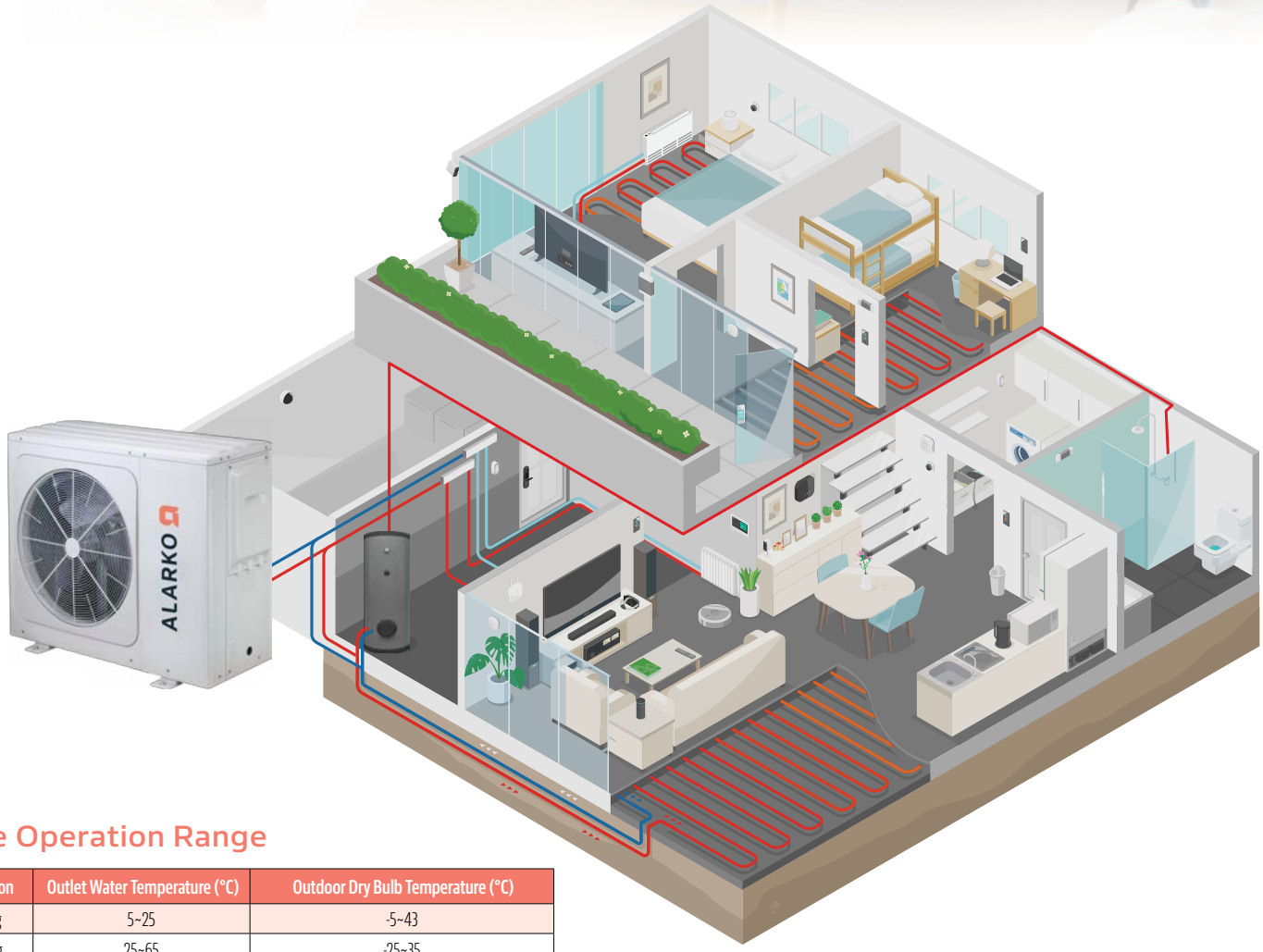
R32 INVERTER

With its advanced heat pump technology and powerful equipment, Flair's efficiency has been improved and thus its CO_2 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!





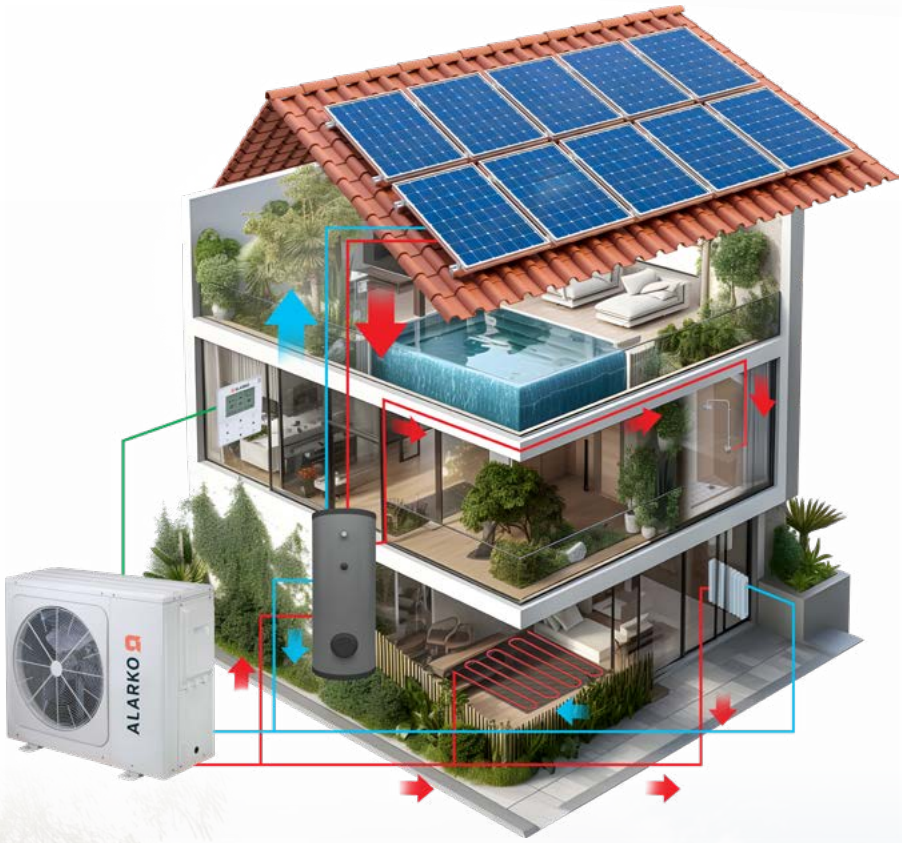
Wide Operation Range

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



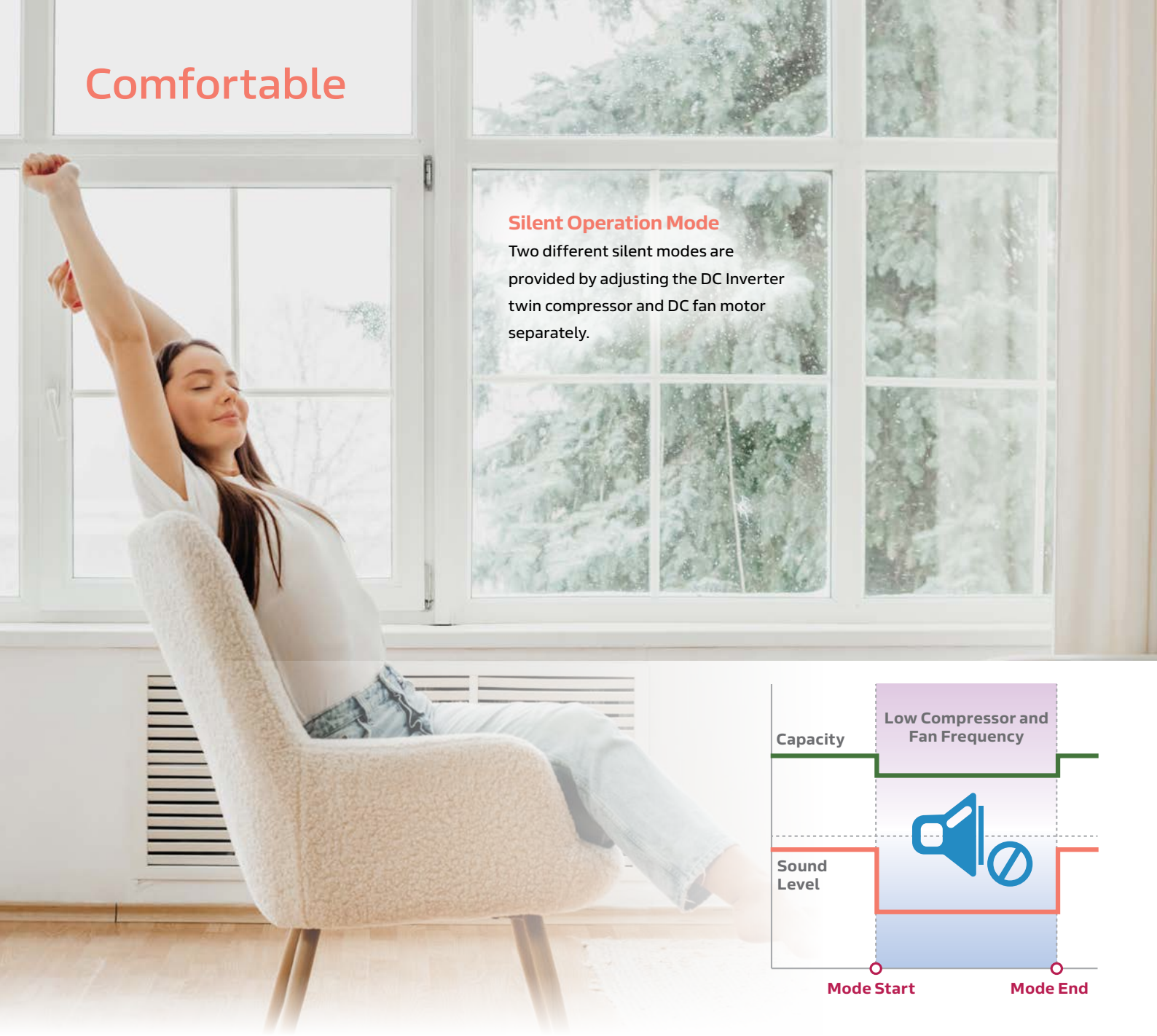
Outdoor Unit

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.



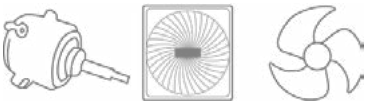
High Efficiency DC Inverter Water Pump



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.

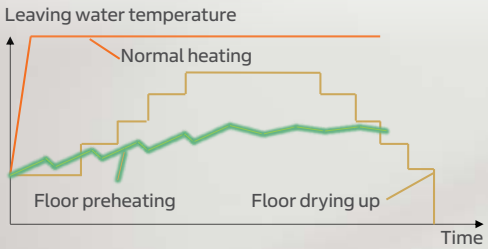
Compact Design



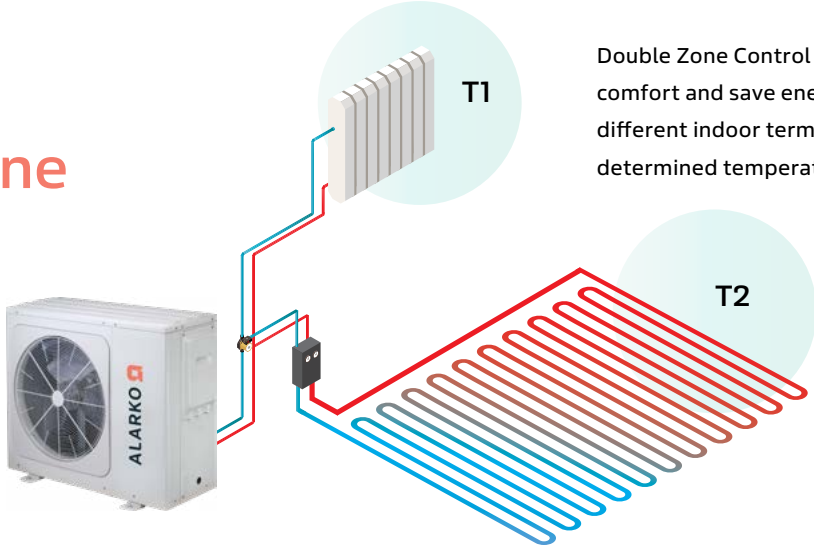
It allows flexible installation with its compact dimensions.

Floor Protection

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



Double Zone Control

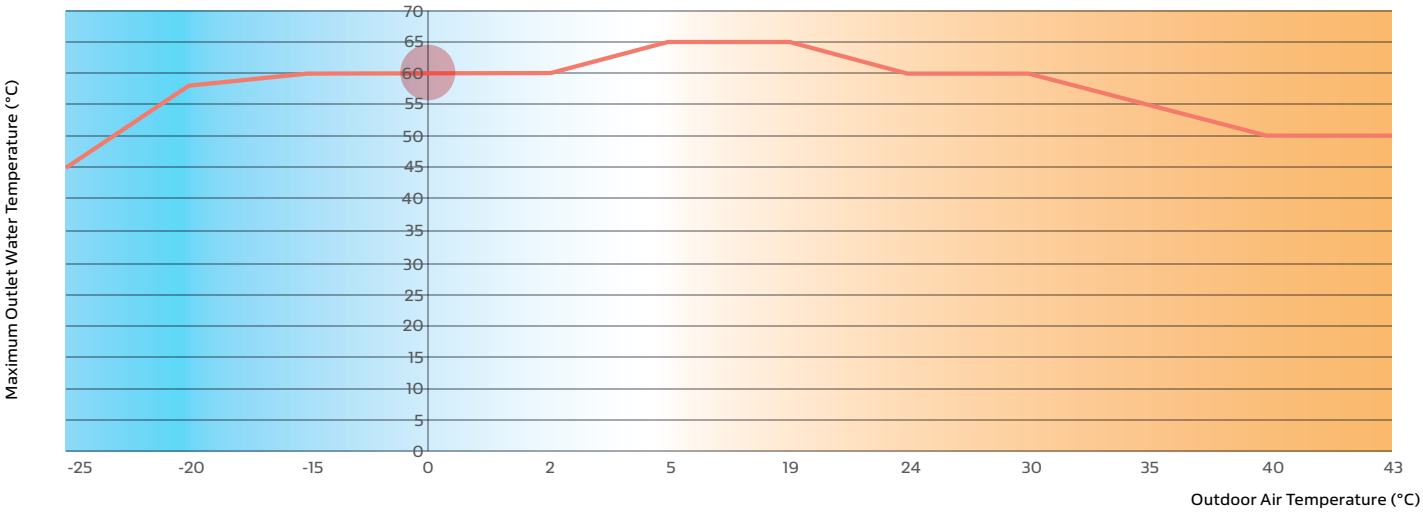


Double Zone Control can be used to increase comfort and save energy by ensuring that different indoor terminal units operate at determined temperatures.

60°C

Powerful Heating

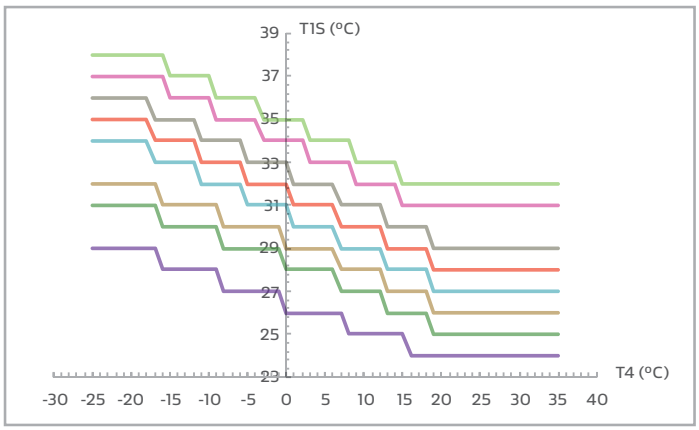
- In heating mode, leaving water temperature up to 65°C is provided.
- Outlet water temperature up to 60°C is provided at outdoor air temperature of -15°C.



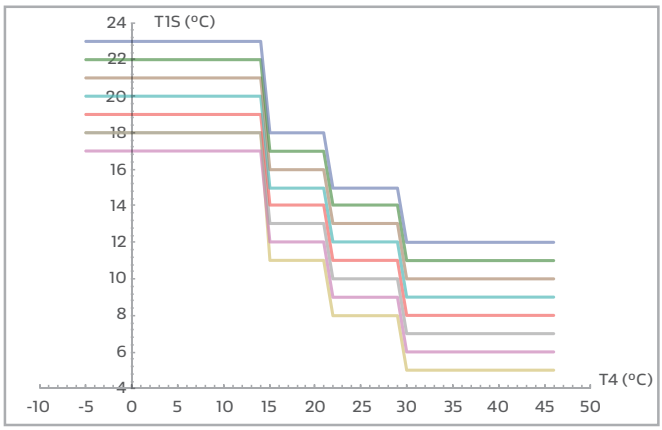
Preset Curves

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

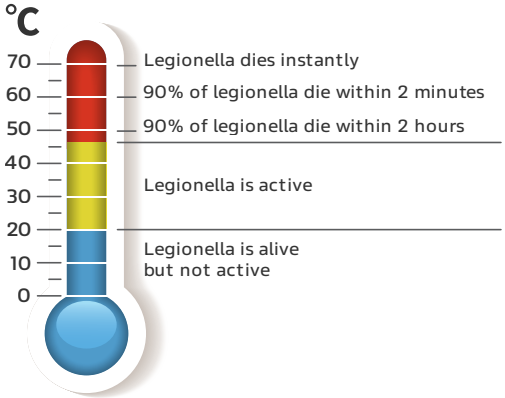
Preset Curve for Heating Mode

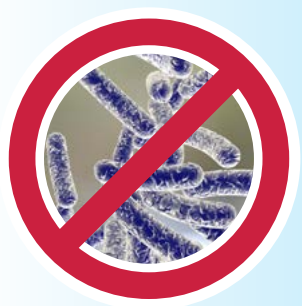


Preset Curve for Cooling Mode



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.



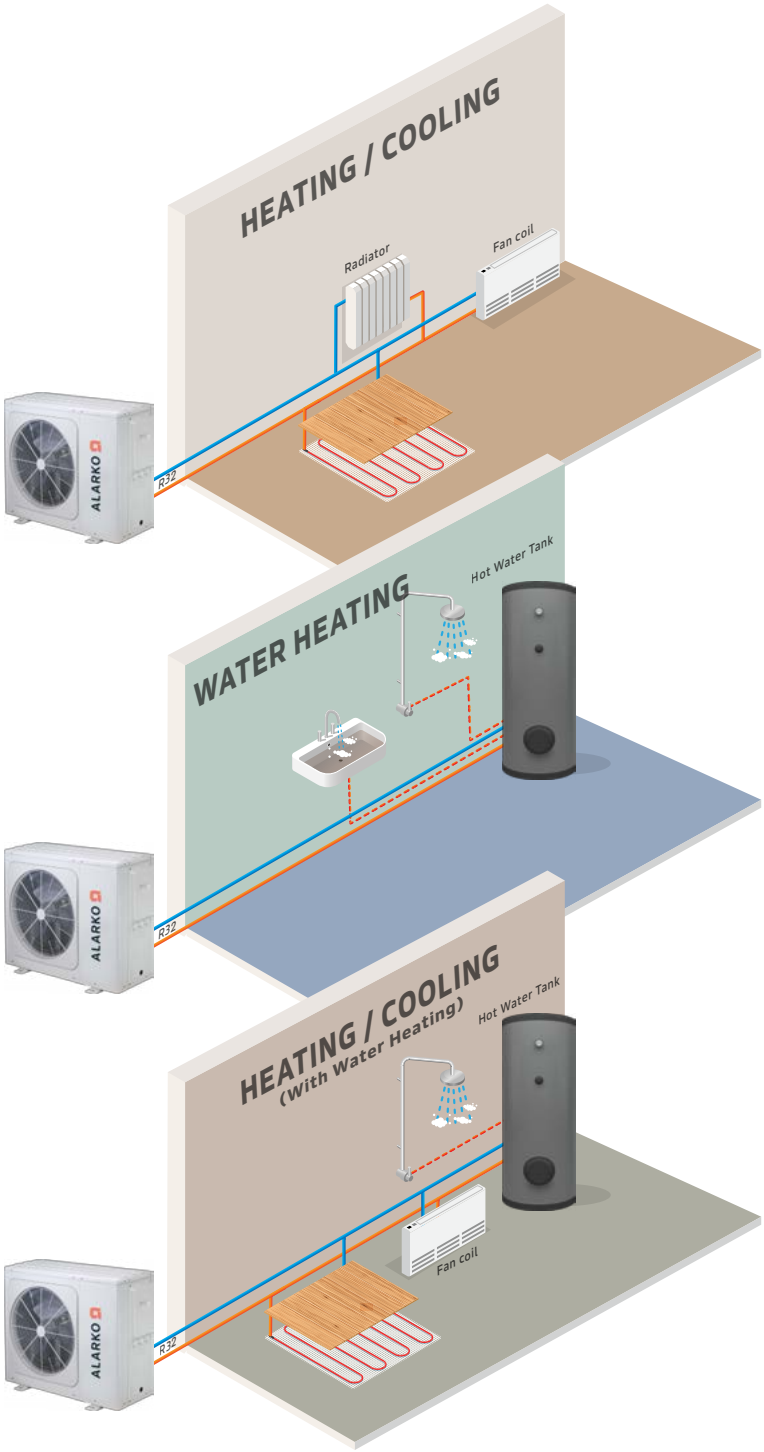


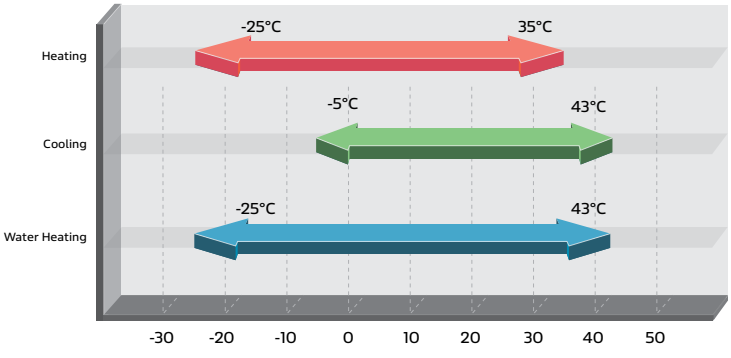
MAIN FEATURES:

- 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

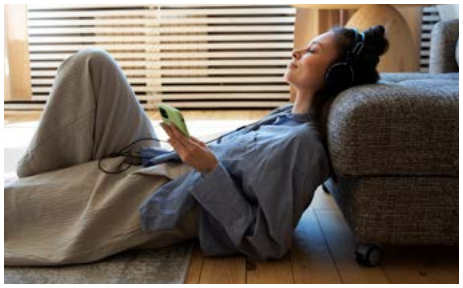
Wide Outdoor Air Operation Temperature Range

- 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









Technical Specifications:

Model			FLR-HPM08A104	FLR-HPM10A104	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	4,7	4,7	4,5
Heating A7W45	Capacity	W	8500	10200	14500	16200
	Power Input	W	2237	2795	4085	4696
	COP		3,8	3,65	3,55	3,45
Heating A7W55	Capacity	W	8200	9400	14000	16000
	Power Input	W	2603	3032	4746	5614
	COP		3,15	3,1	2,95	2,85
Heating A2W35	Capacity	W	7100	8200	13000	14500
	Power Input	W	1797	2158	3714	4462
	COP		3,95	3,8	3,5	3,25
Heating A2W45	Capacity	W	7500	8500	13000	14300
	Power Input	W	2459	2881	4643	5296
	COP		3,05	2,95	2,8	2,7
Heating A2W55	Capacity	W	7600	8400	13000	13500
	Power Input	W	2815	3170	5603	5870
	COP		2,7	2,65	2,32	230
Heating A-7W35	Capacity	W	7100	8000	12500	13500
	Power Input	W	2254	2667	4464	5000
	COP		3,15	3	2,8	2,7
Heating A-7W45	Capacity	W	6800	7400	12500	13500
	Power Input	W	2720	3083	5435	6000
	COP		2,5	2,4	2,3	2,25
Heating A-7W55	Capacity	W	6600	7200	11700	12800
	Power Input	W	3143	3512	5625	6244
	COP		2,1	2,05	2,08	2,05
Cooling A35W18	Capacity	W	8300	10000	13900	15400
	Power Input	W	1711	2326	3159	3667
	EER		4,85	4,3	4,4	4,2
Cooling A35W7	Capacity	W	7400	9000	13400	14000
	Power Input	W	2349	3103	4573	4828
	EER		3,15	2,9	2,93	2,9
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	5,1	5,05	4,83	4,78
		55°C	3,6	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	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 mode1	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			
Throttle	Type		Electronic expansion valve			
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	865×1040×410			
Packing Dimensions (W-H-D)		mm	970×1190×560			
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

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.

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

Carrier

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