



Flair

Light Commercial
Air Conditioners



**FLEXIBLE AND ECONOMICAL
SOLUTIONS TAILORED TO YOUR
BUSINESS WITH A WIDE RANGE OF
PRODUCTS...**

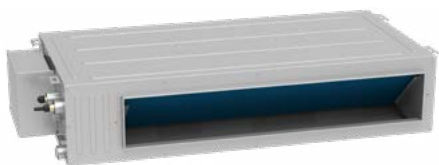
Table of Contents

Product Group	3
Inverter Technology	5
Duct Type	10
4-Way Cassette Type	12
Floor / Ceiling Type	16
Floor Standing Type	18
Outdoor Unit	23

Duct Type



24K - 36K



48K - 60K

Floor/Ceiling Type



24K - 36K - 48K

Floor Standing Type



24K - 48K

4-Way Cassette Type



24K - 45K

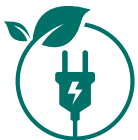


48K



Comfortable Experience

Indoor temperature and humidity are regulated with the help of high-precision temperature and humidity sensors on the wired controller, providing a comfortable experience for end users.



Hi Energy Efficiency

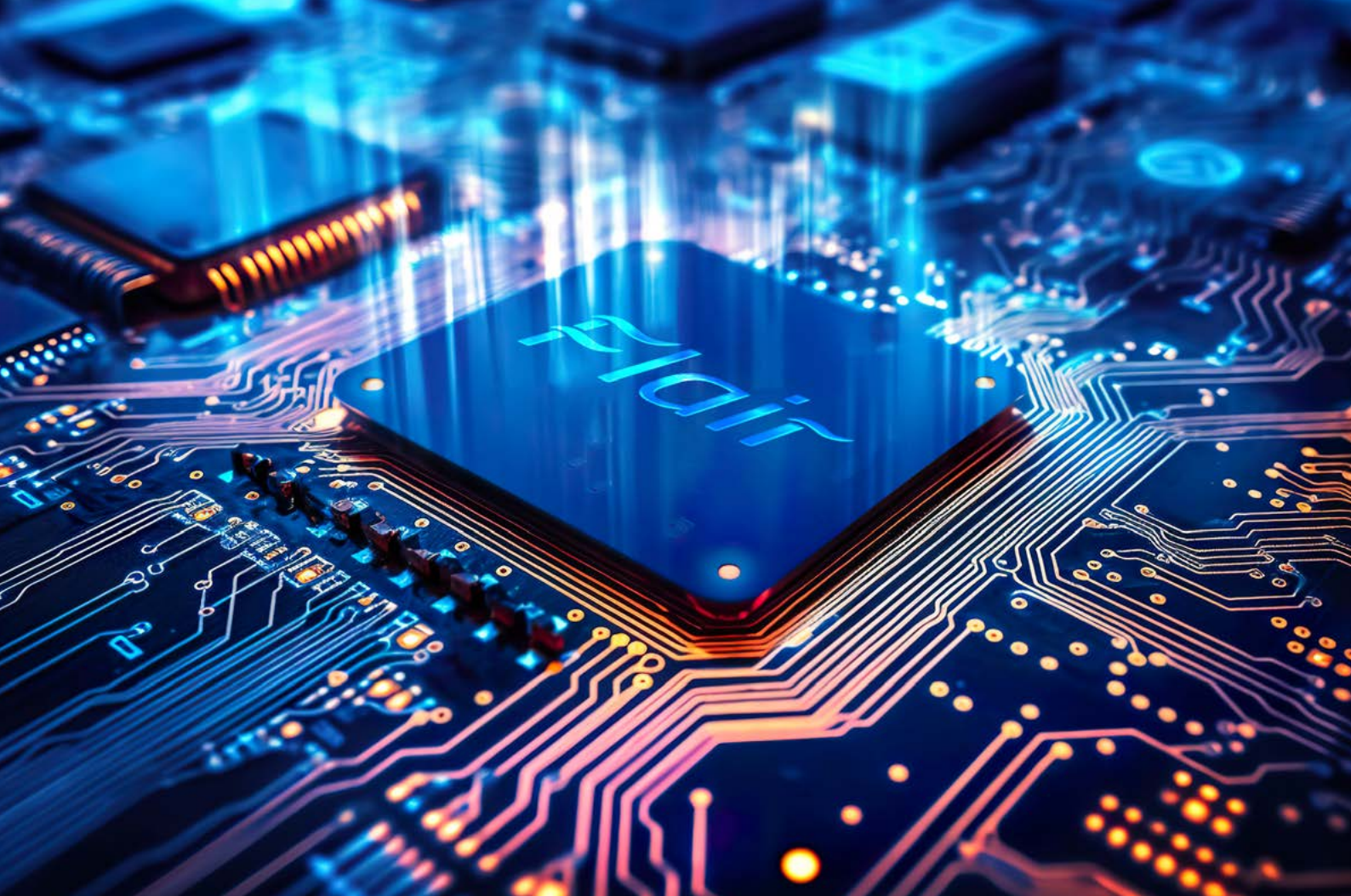
The whole system including the DC inverter compressor, DC electronic expansion valve, DC drainage pump, and DC indoor and outdoor unit fan motors, is named as DC inverter, ensuring low energy consumption and high energy efficiency in all devices with special fan and heat exchanger design.



Silent Operation

The device is designed for quiet operation with specially designed fan blades and low-noise compressor.





DC Inverter System

The compressor, fan motors, drainage pump, and electronic expansion valve inside the units are of DC Inverter type, ensuring low energy consumption and high energy efficiency.

DC Inverter Compressor



DC Drainage Pump



DC Electronic Expansion Valve



DC Indoor and Outdoor Unit Fan Motors



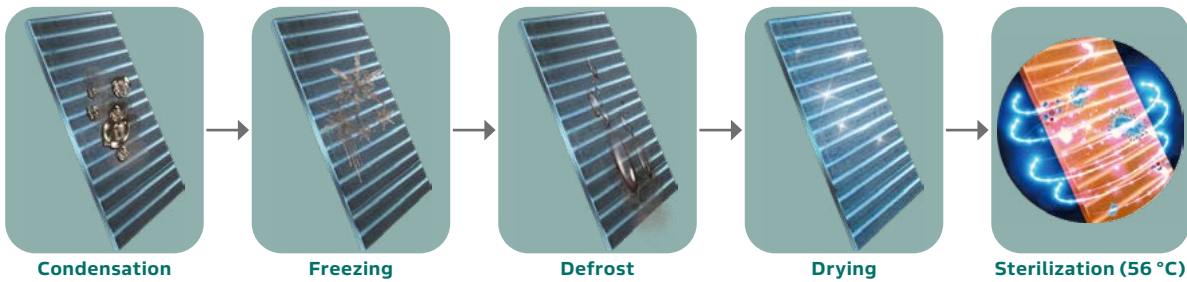
Indoor Unit Fan Motor

Outdoor Unit Fan Motor

Healthy

Self-Cleaning at 56 °C

The 5-stage high-temperature self-cleaning function removes the dust and dirt on the evaporator and then sterilizes it at high temperature.



Fresh Air Control

Ducted and floor-ceiling type devices have fresh air inlets, providing fresh air flow from outdoor to indoor environment between 8-12%. It is optional in large cassette type devices where 5-10% fresh air can be provided.



Plasma Sterilization Module

Primary Filter: It filters pollens, hair, and large particles.

Plasma Generator: They produce plasma with charged particles to kill bacteria and viruses.

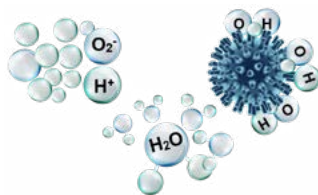
Collector: It collects dirt, killed bacteria, and other harmful matter.

Collector: It collects dirt, killed bacteria, and other harmful matter.

*Only available in some duct types, and is optional.

Plasma Cluster Ion Sterilization

Bacteria and viruses are neutralized by sending plasma ions into the air through high voltage.



*Optional

Sterilization Filter Options

*Photocatalytic Filter

*Active Carbon Filter

*Silver Ion Filter

*Only available in 48K and 60K duct types, and is optional.



Comfortable



Rapid Cooling & Heating

This feature enables detecting the set temperature, indoor and outdoor temperatures, ensuring 20% faster cooling and heating as compared to the standard operation.

*Optional



I Feel

The mini sensor on the remote control can detect the ambient temperature and send the temperature information to the indoor unit. In this way, the indoor unit transfers air to the living spaces to ensure maximum comfort.

*Not available in duct and floor standing types.

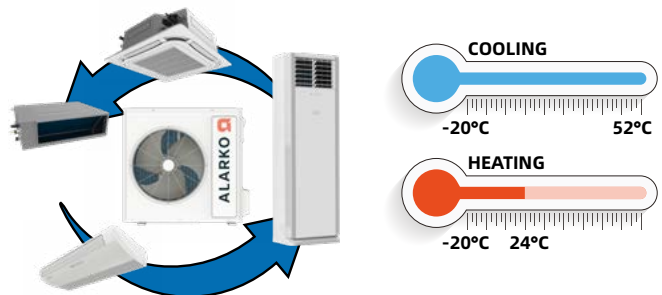
Temperature and Humidity Correction Technology

The high-precision temperature and humidity sensors in the wired control maximize the comfort level.

Constant Temperature Control

The DC inverter compressor, DC motor and electronic expansion valves, and +/- 0.5 C precision sensor technology keep the internal temperature within the comfort zones, making the user more comfortable.

Wide Operating Range*



*Operating ranges; -15 - 50 °C for cooling and -15 - 30 °C for heating in the floor standing types.

Compact and Light Weighted Design

All outdoor units are single-fan and compact. It takes up less space, making it easier to transport and install.



Efficient

Grid Design with Low Air Resistance

The special design can increase the air flow rate up to 2%.



Engine Support Piece for Low Air Resistance

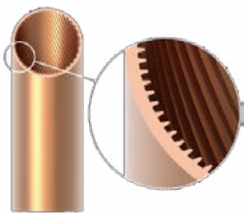
The downwind area is reduced by 55% and the air flow rate is increased by 1.5%.

Efficient Bionic Fan Blades

To improve the aerodynamic performance of the fan, bionic fan blades with an extended beam length and large inclination angle are used, resulting in a 10% increase in air volumetric flow rate.



Enhanced Heat Exchanger Design



The newly designed internally threaded copper tubes increase the heat transfer effectively. The reduced insertion angle enlarges the heat transfer surface. The enlarged helix angle increases the heat transfer.

The increased number of teeth increases the heat transfer surface and the heat transfer efficiency in parallel.

Special Design for Silent Operation

*Bionic fan blade design provides up to 3 db(A) sound reduction.

Compressor designed for silent operation Optimized fan drive control algorithm Silent operation function at night (Optional) Low-voltage start-up

*It is available in cassette type units, and is optional.

Central Controller

The central controller can control up to 36 indoor units.



*Optional

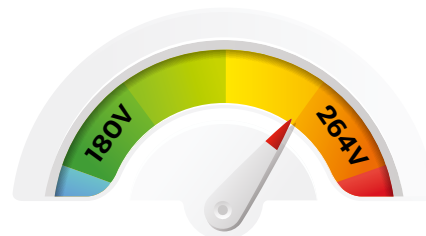
Comfortable



Turbo

When you press the 'Turbo' button on the remote control, the Turbo mode, which enables reaching the indoor set temperature faster and moving the air flow further, is activated.

*Standard for the cassette and floor ceiling types



Wide Voltage Range

Specially optimized drive and electronic control parameters ensure operation over a wide voltage range.

High-Density Anti-Dust Filter

The high-density anti-dust filter in Flair Light Commercial air conditioners keeps airborne dust and particles on the filter, providing cleaner and healthier indoor air.

High indoor air quality ensures more comfortable and healthier spaces.



Self-Cleaning (Auto Clean (X-Fan))



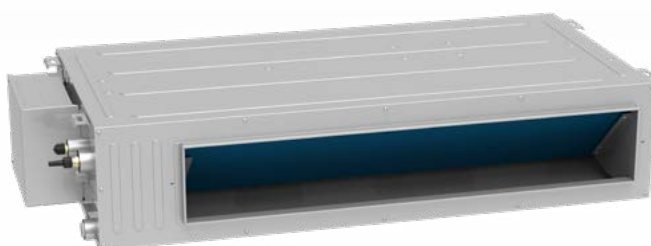
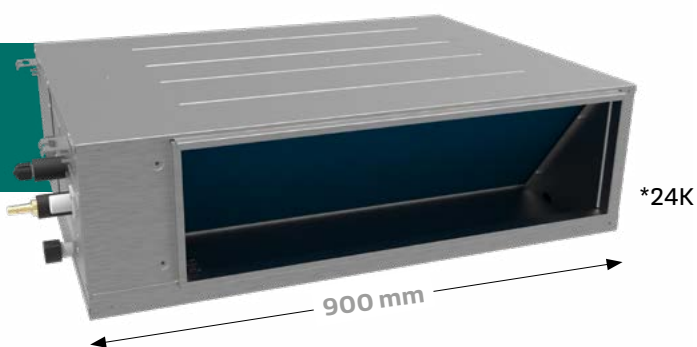
Flair has a self-cleaning feature that keeps the fans running for some time after the air conditioner has been switched off. The fans operate to remove moisture accumulated in the heat exchanger of the indoor unit and keep the heat exchanger clean. Mold odor is prevented. Your air always remain more clean and healthy.

Duct Type

Wide Static Pressure Range

The duct type unit has a static pressure range of 0-160 Pa for 24K and 36K units and 0-200 Pa for 48K and 60K units.

This meets many application demands. The long duct system has still sufficient airflow volume.



Fresh Air Inlet

If preferred, it can be connected to the fresh air duct.

Drainage Pump

A drainage service port is available for servicing convenience with a pump head up to 1000 mm.

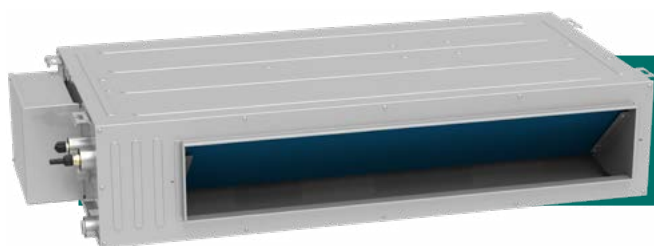
*Optional



Two Different Rotation Direction Options

Rear or bottom rotation options are available for flexible installation.



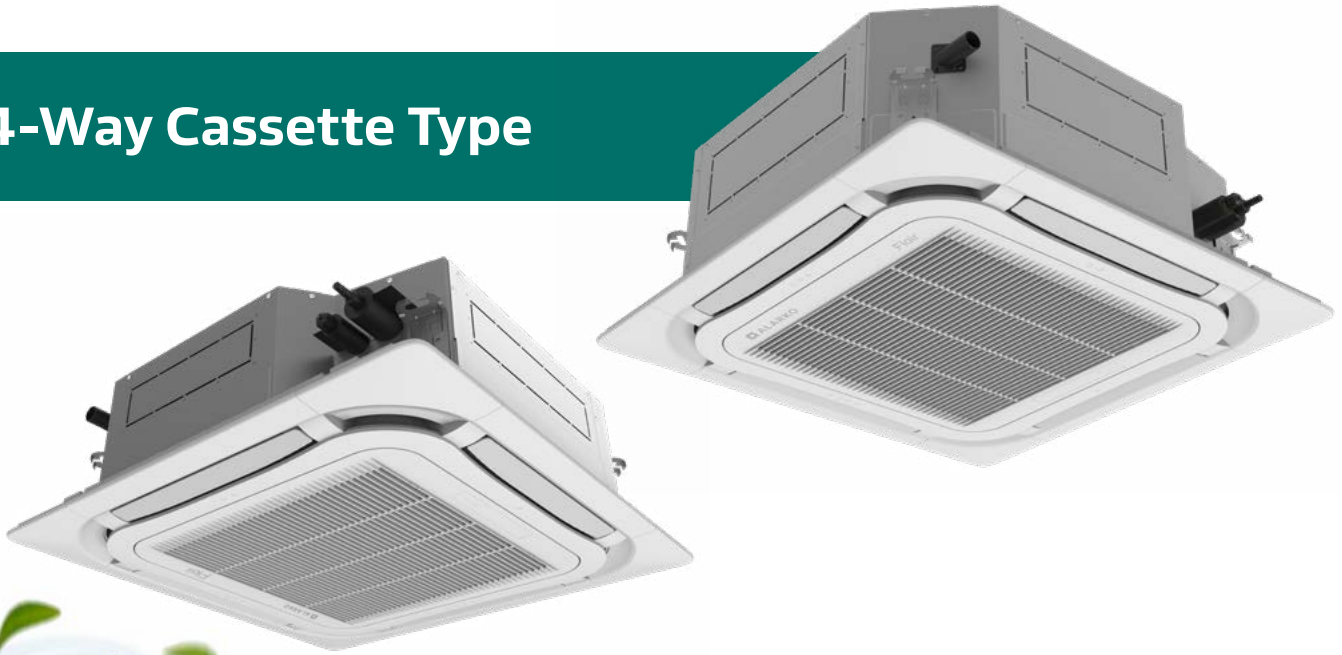


Duct Type

SYSTEM		Duct Type 24K	Duct Type 36K	Duct Type 48K	Duct Type 60K
Cooling Capacity	kW	7.1 (2.1 - 8.8)	10.5 (2.5 - 11)	13.4 (2.96 - 14.07)	16 (3.5 - 17.5)
	BTU/h	24225 (7165 - 30026)	35826 (8530 - 37532)	45721 (10100 - 48007)	54592 (11942 - 59710)
Heating Capacity	kW	8 (1.25 - 8.8)	11.5 (2.4 - 12)	15.5 (2.9 - 16.275)	17 (2.1 - 18)
	BTU/h	27296 (4265 - 30026)	39238 (8189 - 40944)	52886 (9895 - 55530)	58004 (7165 - 61416)
SEER / SCOP(Average)	kW/kW	6.70 / 4.00	6.70 / 4.30	6.30 / 4.10	6.10 / 4.00
Energy Class (Cooling / Heating)	-	A++ / A+	A++ / A+	A++ / A+	A++ / A+
Annual Power Consumption (Cooling / Heating)	kWh	371 / 1645	549 / 2279	744 / 3415	918 / 4305
EER/COP	kW/kW	3.28 / 3.71	3.55 / 3.73	2.98 / 3.65	3.05 / 3.62
Operating Current (Cooling)	A	9,20	13,18	20,60	24,00
Electrical Power (Cooling)	kW	2.165	2,97	4,50	5,25
Operating Current (Heating)	A	9,50	14,20	19,45	21,50
Electrical Power (Heating)	kW	2.165	3,20	4,25	4,70
OUTDOOR UNIT		FLRBLC2401UC8	FLRBLC3601UC8	FLRBLC4801UC8	FLRBLC6001UC8
Operating Temperature Range (Cooling)	°C	-20 ~ 52			
Operating Temperature Range (Heating)	°C	-15 ~ 24			
Power Supply	-	220-240V / 50/60 Hz / 1 Ph			
Operating Current	A				
Power Input	kW	13,80	18,00	24,00	27,50
Refrigerant (R32)	kg	3,20	3,95	5,25	6,00
Liquid/Gas Copper Tube	inch	1,5	1,9	2,8	3,4
Maximum Pipe Length	m	(1/4" / 5/8")	(1/4" / 5/8")	(3/8" / 5/8")	(3/8" / 5/8")
Maximum Height Difference	m	30	75	75	75
Additional Gas Charge	g/m	25	30	30	30
Sound Power Level	dB(A)	20	20	35	35
Sound Pressure Level	dB(A)	69	70	71	75
Air Flow Rate	m³/h	55	59	60	64
Weight (Net/Gross)	kg	3600	4500	6000	5500
Dimensions (WxLxH)	mm	41.5 / 46.0	52.5 / 57.5	73.0 / 86.0	81.0 / 92.0
INDOOR UNIT		958 × 402 × 660	1000 × 427 × 746	940 × 370 × 820	990 × 370 × 960
Sound Power Level	dB(A)	FLRBLC2401DUI	FLRBLC3601DUI	FLRBLC4801DUI	FLRBLC6001DUI
Sound Pressure Level (Highest / High / Medium / Low)	dB(A)	60	65	67	75
Air Flow Rate (Highest / High / Medium / Low)	m³/h	40 / 39 / 38 / 37	45 / 44 / 42 / 40	47 / 45 / 43 / 40	44 / 43 / 41 / 39
External Static Pressure	Pa	1300 / 1200 / 1100 / 1000	1900 / 1700 / 1500 / 1300	2800 / 2500 / 2200 / 1800	2600 / 2300 / 2000 / 1700
Weight (Net / Gross)	kg	0-160	0-160	0-200	0-200
Dimensions (WxLxH) (Device)	mm	29.0 / 34.0	35.5 / 41.0	54.0 / 60.0	57.0 / 63.0
		900 × 655 × 260	1200 × 655 × 260	1400 × 700 × 300	1400 × 700 × 300

*The cooling capacity was measured under the following conditions;
 Indoor 27 °C / 19 °C KT/YT
 Outdoor 35 °C / 24 °C KT/YT

4-Way Cassette Type



Fresh Air Inlet

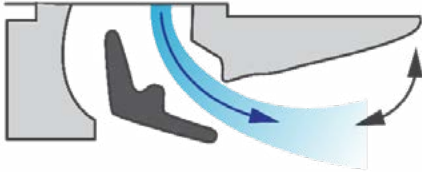
Outdoor air can be brought into the room through a connecting pipe, this feature ensures that the air in the room remains clean and healthy at all times. 5-10% fresh air is provided.

*Optional



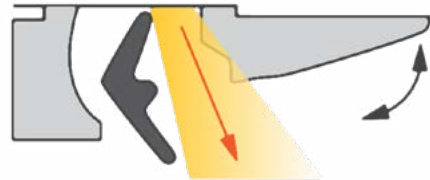
Cooling from Top to Bottom

In cooling mode, the air is blown horizontally, not directly over people in the space.



Heating from Bottom to Top

In heating mode, warm air is blown vertically and directed towards the floor.



Horizontal Blowing in Cooling Mode



Vertical Blowing in Heating Mode



Smart Sensor

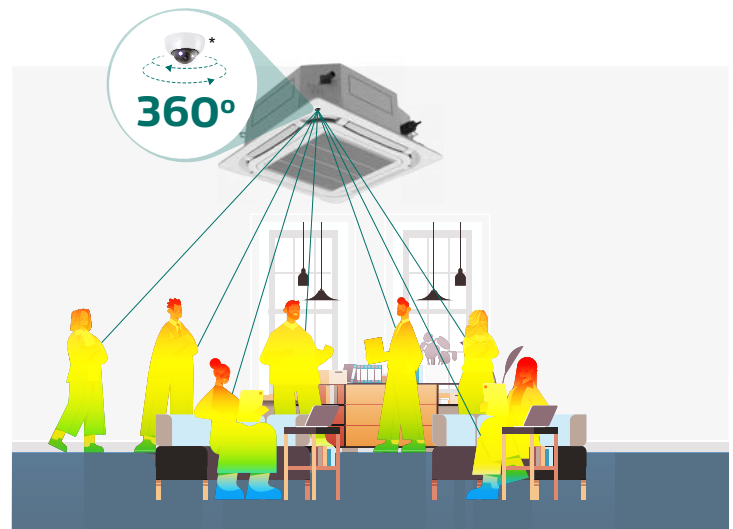
Cassette type devices can perform smart control when mounted with a smart sensor panel.

When no one is present, the device automatically adjusts the temperature to save energy.

In case of prolonged absence, the device automatically switches off to prevent energy loss.

The average ceiling height is 2.7 m and the detection distance is 10 m. Detection distance varies depending on environmental conditions.

*Optional



**Representative sensor image



Flexible Installation

Internal Drainage Pump

The drainage pump can pump condensate up to 1000 mm, which is a suitable height for the installation of drain pipes under most conditions.



Internal remote controller

360° Air Blowing



The specially designed louvers allow for a wider air blowing area and wider temperature distribution.





4-Way Cassette Type

SYSTEM		Cassette Type 24K	Cassette Type 45K	Cassette Type 48K
Cooling Capacity	kW	7.1 (1.9 - 8.8)	12.1 (2.3 - 13.31)	13.4 (3.162 - 14.07)
	Btu/h	24225 (6483 - 30026)	41285 (7848 - 45414)	45721 (10789 - 48007)
Heating Capacity	kW	7.8 (1.9 - 8.8)	13.5 (2.6 - 14.85)	15.5 (1.55 - 16.275)
	Btu/h	26613 (6483 - 30026)	46062 (8871 - 50668)	52886 (5289 - 55530)
SEER / SCOP(Average)	kW/kW	6.70 / 4.40	6.10 / 4.00	6.50 / 4.00
Energy Class (Cooling / Heating)	-	A++ / A+	A++ / A+	A++ / A+
Annual Power Consumption (Cooling / Heating)	kWh	371 / 1591		
EER/COP	kW/kW	3.50 / 3.90	3.10 / 3.46	3.04 / 3.6
Operating Current (Cooling)	A	9,70	17,80	20,10
Electrical Power (Cooling)	kW	2,03	3,90	4,40
Operating Current (Heating)	A	9,60	17,80	19,67
Electrical Power (Heating)	kW	2,00	3,90	4,30
OUTDOOR UNIT		FLRBLC2401UC8	FLRBLC4501UC8	FLRBLC4801UC8
Operating Temperature Range (Cooling)	°C	-20 ~ 52	-20 ~ 52	-20 ~ 52
Operating Temperature Range (Heating)	°C	-15 ~ 24	-15 ~ 24	-15 ~ 24
Power Supply	-	220-240V/ 50/60 Hz / 1 Ph		
Operating Current	A	14,00	23,00	24,00
Power Input	kW	3,20	5,00	5,25
Refrigerant (R32)	kg	1,5	2,2	2,8
Liquid/Gas Copper Tube	inch	(1/4" / 5/8")	(3/8" / 5/8")	(3/8" / 5/8")
Maximum Pipe Length	m	40	75	75
Maximum Height Difference	m	25	30	30
Additional Gas Charge	g/m	20	20	35
Sound Power Level	dB(A)	69	70	71
Sound Pressure Level	dB(A)	55	60	60
Air Flow Rate	m³/h	3600	6000	6000
Weight (Net/Gross)	kg	41.5 / 46.0	62.0 / 75.0	73.0 / 86.0
Dimensions (WxLxH)	mm	958 × 402 × 660	940 × 370 × 820	940 × 370 × 820
INDOOR UNIT		FLRBLC2401CAI	FLRBLC4501CAI	FLRBLC4801CAI
Sound Power Level	dB(A)	57	64	62
Sound Pressure Level (Highest/High/Middle/Low)	dB(A)	46 / 45 / 43 / 40	51 / 49 / 46 / 43	51 / 49 / 46 / 42
Air Flow Rate (Highest/High/Middle/Low)	m³/h	1300 / 1200 / 1100 / 900	2000 / 1900 / 1700 / 1500	2000 / 1800 / 1600 / 1400
Weight (Net/Gross)	kg	21.0 / 27.0	23.0 / 29.0	25.0 / 32.0
Weight (Panel) (Net / Gross)	kg	6 / 9,5	6 / 9,5	6 / 9,5
Dimensions (WxLxH) (Device)	mm	840 × 840 × 200	840 × 840 × 240	840 × 840 × 290
Dimensions (WxLxH) (Panel)	mm	950 × 950 × 52		

*The cooling capacity was measured under the following conditions:
 Indoor 27 °C / 19 °C KT/YT
 Outdoor 35 °C / 24 °C KT/YT

Floor/Ceiling Type

2 Types of Installation

Stylish design and elegant look suitable for different room styles.

Wide Angle Swing

Special design allowing free adjustment of left and right air outlet angles for different applications.



Double Air Guide Louvers

Both louvers can be closed completely to block dust and dirt.



Internal remote controller

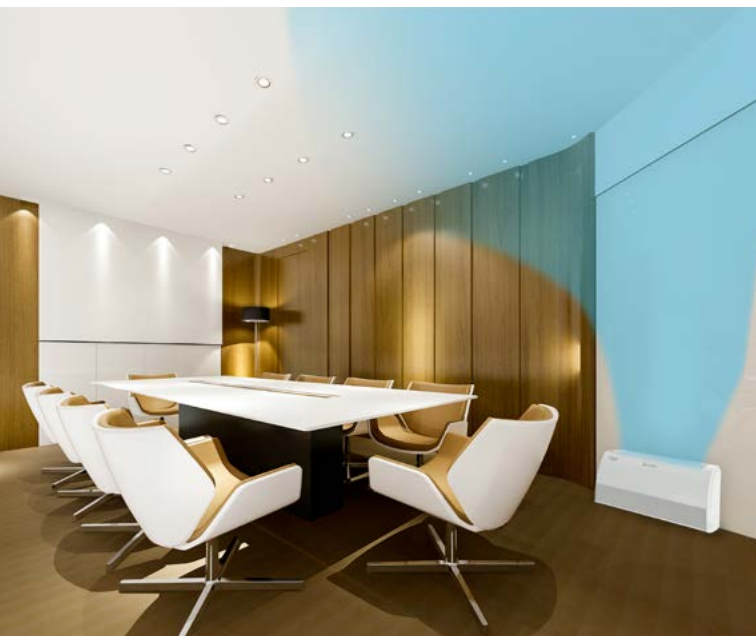
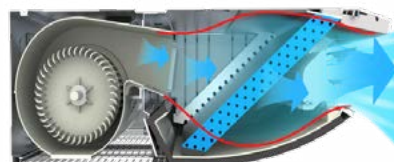
Two Different Rotation Direction Options

Rear or bottom rotation options for flexible installation...



Long Distance Air Blowing

Customized backflow prevention fan blade provides more efficient air supply.





Floor / Ceiling Type

SYSTEM		Floor / Ceiling Type 24K	Floor / Ceiling Type 36K	Floor / Ceiling Type 48K
Cooling Capacity	kW	7.1 (1.9 - 8.4)	10 (3.2 - 10.5)	13.4 (3.823 - 14.07)
	BTU/h	24225(6483 - 28661)	34120 (10918 - 35826)	45721 (13044 - 48007)
Heating Capacity	kW	7.7(1.4 - 9.6)	11.5(3-12)	15.5(2.7-16.275)
	BTU/h	26272 (4777 - 32755)	39238 (10236 - 40944)	52886 (9212 - 55530)
SEER / SCOP(Average)	kW/kW	7.20 / 4.10	6.60 / 4.00	6.50 / 4.10
Energy Class (Cooling / Heating)	-	A++ / A+	A++ / A+	A++ / A+
Annual Power Consumption (Cooling / Heating)	kWh	345 / 1605	530 / 2450	-
EER/COP	kW/kW	3.50 / 3.50	3.40 / 2.87	3.22 / 3.75
Operating Current (Cooling)	A	9.70	13,53	19,00
Electrical Power (Cooling)	kW	2,03	3,05	4,15
Operating Current (Heating)	A	9.60	17,97	18,90
Electrical Power (Heating)	kW	2,20	4,05	4,13
OUTDOOR UNIT		FLRBLC2401UC8	FLRBLC3601UC8	FLRBLC4801UC8
Operating Temperature Range (Cooling)	°C	-20 ~ 52	-20 ~ 52	-20 ~ 52
Operating Temperature Range (Heating)	°C	-15 ~ 24	-15 ~ 24	-15 ~ 24
Power Supply	-	220-240V/ 50/60 Hz / 1 Ph		
Operating Current	A	14,00	18,00	24,00
Power Input	kW	3,20	4,20	5,25
Refrigerant (R32)	kg	1,5	1,9	2,8
Liquid/Gas Copper Tube	inch	(1/4" / 5/8")	(1/4" / 5/8")	(3/8" / 5/8")
Maximum Pipe Length	m	40	75	75
Maximum Height Difference	m	25	30	30
Additional Gas Charge	g/m	20	20	35
Sound Power Level	dB(A)	69	70	71
Sound Pressure Level	dB(A)	55	59	60
Air Flow Rate	m³/h	3600	4500	6000
Weight (Net/Gross)	kg	41.5 / 46.0	52.5 / 57.5	73.0 / 86.0
Dimensions (WxLxH)	mm	958 × 402 × 660	1000 × 427 × 746	940 × 370 × 820
INDOOR UNIT		FLRBLC2401CEI	FLRBLC3601CEI	FLRBLC4801CEI
Sound Power Level	dB(A)	65	62	65
Sound Pressure Level (Highest/High/Middle/Low)	dB(A)	50 / 49 / 46 / 44	47 / 46 / 45 / 43	52 / 49 / 47 / 44
Air Flow Rate (Highest/High/Middle/Low)	m³/h	1200 / 1100 / 1000 / 800	1600 / 1500 / 1400 / 1200	2300 / 2100 / 1800 / 1500
Weight (Net/Gross)	kg	32.0 / 37.0	32.0 / 37.0	42.0 / 49.0
Dimensions (WxLxH) (Device)	mm	1200 × 665 × 235	1200 × 665 × 235	1570 × 665 × 235

*The cooling capacity was measured under the following conditions:
 Indoor 27 °C / 19 °C KT/YT
 Outdoor 35 °C / 24 °C KT/YT

Floor Standing Type





Special Defrost Technology



With its customized technology, the amount of frost in the outdoor unit is detected and defrosting is activated when defrosting is required. Not only energy is saved, but also the heating effect is increased.

Troubleshooting



In the event of a fault, fault codes are displayed on the panel for quick and easy repair.

Special Design Copper Tube

The special design of thickened inner corrugated copper tube increases the heat transfer.



FLR-YAPIF4



FLR-YAPIF11

Internal remote controller



Automatic Restart

The function settings from the previous operation are restored when the unit is turned off and then on again.

Fully Enclosed Air Outlet

The air outlet of the indoor unit is fully enclosed to prevent dust ingress, protecting the health of users.

Floor Standing Type



SYSTEM		Floor Standing Type 24K	Floor Standing Type 48K
Cooling Capacity	kW	7.2 (0.97 - 8.4)	12.3 (1.5 - 13.5)
	BTU/h	24566 (3310 - 28661)	41967.6 (5118 - 46062)
Heating Capacity	kW	7.9 (0.64 - 8.8)	12.6 (2.5 - 14)
	BTU/h	26955 (2184 - 30026)	42991.2 (8530 - 47768)
SEER / SCOP(Average)	kW/kW	6.10 / 3.80	5.70 / 3.70
Energy Class (Cooling / Heating)	-	A++ / A	A+ / A
Annual Power Consumption (Cooling / Heating)	kWh	413 / 2063	755 / 3405
EER/COP	kW/kW	3.51 / 3.39	2.95 / 3.30
Operating Current (Cooling)	A	9,00	18,50
Electrical Power (Cooling)	kW	2,05	4,17
Operating Current (Heating)	A	10,50	17,00
Electrical Power (Heating)	kW	2,33	3,82
OUTDOOR UNIT		FLR2403INVFSO	FLRBLC4802FC8
Operating Temperature Range (Cooling)	°C	-15~50	-15~50
Operating Temperature Range (Heating)	°C	-15~30	-15~30
Power Supply	-	220-240V/ 50 Hz / 1 Ph	
Operating Current	A	14,50	22,00
Power Input	kW	3,03	5,06
Refrigerant (R32)	kg	1,5	2
Liquid/Gas Copper Tube	inch	(1/4" / 5/8")	(1/4" / 5/8")
Maximum Pipe Length	m	25	75
Maximum Height Difference	m	10	25
Additional Gas Charge	g/m	40	25
Sound Power Level	dB(A)	70	73
Sound Pressure Level	dB(A)	61	63
Air Flow Rate	m³/h	3600	4000
Weight (Net/Gross)	kg	43.0 / 47.5	55.0 / 66.0
Dimensions (WxLxH)	mm	958 x 402 x 660	1000 x 427 x 746
INDOOR UNIT		FLR2403INVFS	FLRBLC4802FSP
Sound Power Level	dB(A)	56	64
Sound Pressure Level (Highest/High/Middle/Low)	dB(A)	45 / 41 / 39 / 35	54 / 52 / 50 / 49
Air Flow Rate (Highest/High/Middle/Low)	m³/h	1250 / 950 / 850 / 750	2000 / 1850 / 1700 / 1580
Weight (Net/Gross)	kg	38.0 / 47.0	53.0 / 65.0
Dimensions (WxLxH) (Device)	mm	507 x 320 x 1770	587 x 394 x 1882

*The cooling capacity was measured under the following conditions:
Indoor 27 °C / 19 °C KT/YT
Outdoor 35 °C / 24 °C KT/YT

Controller		Floor Standing	Cassette Type	Duct Type	Floor Ceiling Type
Remote Controller FLR-YAPIF4		Standard			
Wifi Module FLR-WB01A(RT-13)		Optional			
Remote Controller FLR-YAPIF7			Standard	Optional*	Standard
Wired Controller FLR-XE7A-24/H			Optional	Standard	Optional
Wifi Wired Controller FLR-XE7A-24/HC			Optional	Optional	Optional

*Wired controller is required

Controller		Floor Standing Type	Cassette Type	Duct Type	Floor Ceiling Type
Door Card Module FLR-LE60-24/H1			Optional	Optional	Optional
Dry Contact Gateway FLR-ME30-42/E1			Optional	Optional	Optional
Modbus Kit FLR-ME50-00/EG(M)			Optional	Optional	Optional
Central Controller FLR-CE52-24/F(C)			Optional*	Optional*	Optional*
BacNet Gateway FLR-ME30-44/D2(B)			Optional	Optional	Optional

*Modbus Gateway is required.

Outdoor Units

Compact and Light Weighted Design

All outdoor units are single-fan and compact. It takes up less space, making it easier to transport and install.



eco-friendly and high efficiency products for a better world



We are investing in the future with our Alarko Flair environmentally friendly air conditioners. 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.



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

ALARKO



**ALARKO CARRIER
SANAYİ VE TİCARET A.Ş.**

GOSB - Gebze Organize Sanayi Bölgesi, Şahabettin Bilgisu Cad.

No:1604 Gebze 41480 KOCAELİ - TÜRKİYE

Phone: +90 262 648 60 00

Fax: +90262 648 60 08

www.alarko-carrier.com.tr

info@alarko-carrier.com.tr