



Turn to the experts



# LIGHT COMMERCIAL AIR CONDITIONER



# CONTENTS



<b>Product Line-up</b>	4 - 5
<b>Core Technology</b>	6 - 11
<b>Duct Unit</b>	12 - 15
<b>4-Way Casette</b>	16 - 19
<b>Ceiling &amp; Floor</b>	20 - 23
<b>Floor Standing</b>	24 - 27
<b>Outdoor Unit</b>	28 - 30





Turn to the experts

## Duct Unit



24K - 36K - 48K - 60K

## 4-Way Casette



24K - 48K





## Ceiling & Floor



24K - 36K - 48K

## Floor Standing



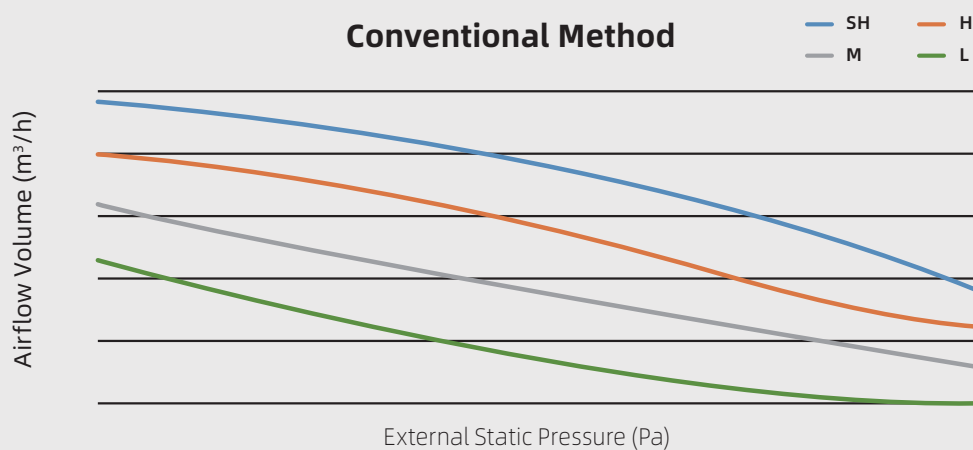
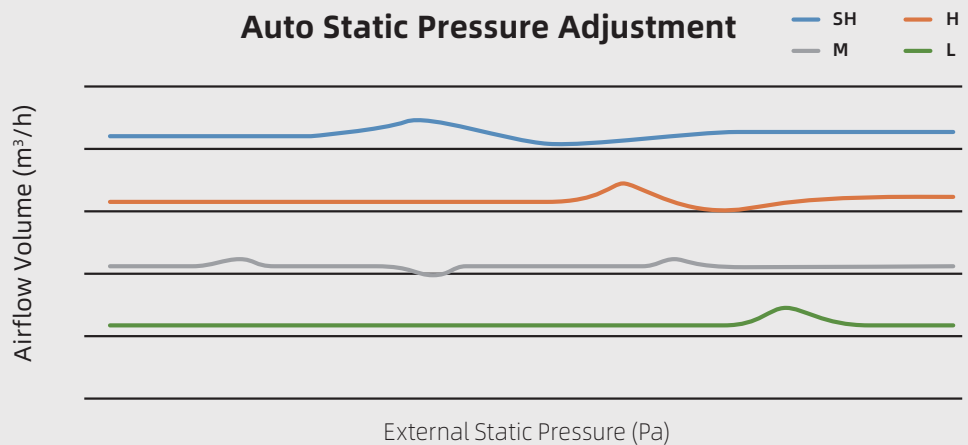
48K



# Auto Static Pressure Adjustment

The inverter duct unit can automatically adjust the static pressure of ducting for different installation situation. The exclusive program from PCB of indoor unit calculate the necessary static pressure for confirmed ducting and adjust the speed of DC fan motor to deliver best volume of airflow. This process can be done with simple steps on wired controller after installation.

(\*Maximum available static pressure=160 Pa)





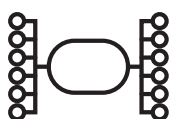
### Installation Convenience

It simplifies the airflow volume adjustment process and saves lots of installation efforts. Auto Static Pressure Adjustment just needs easy steps on wired controller to finish the setting, but the traditional adjustment method needs the installers to manually set the motor speed, according to the installation instruction and ducting design. It takes lots of time if this thing doesn't go well.



### Comfortable Experience

Auto Static Pressure Adjustment provides most comfortable body sense and lower noise. It ensures the airflow volume can be exactly aligned with demands of ducting. Automatic adjustment beats manual calculation as always.



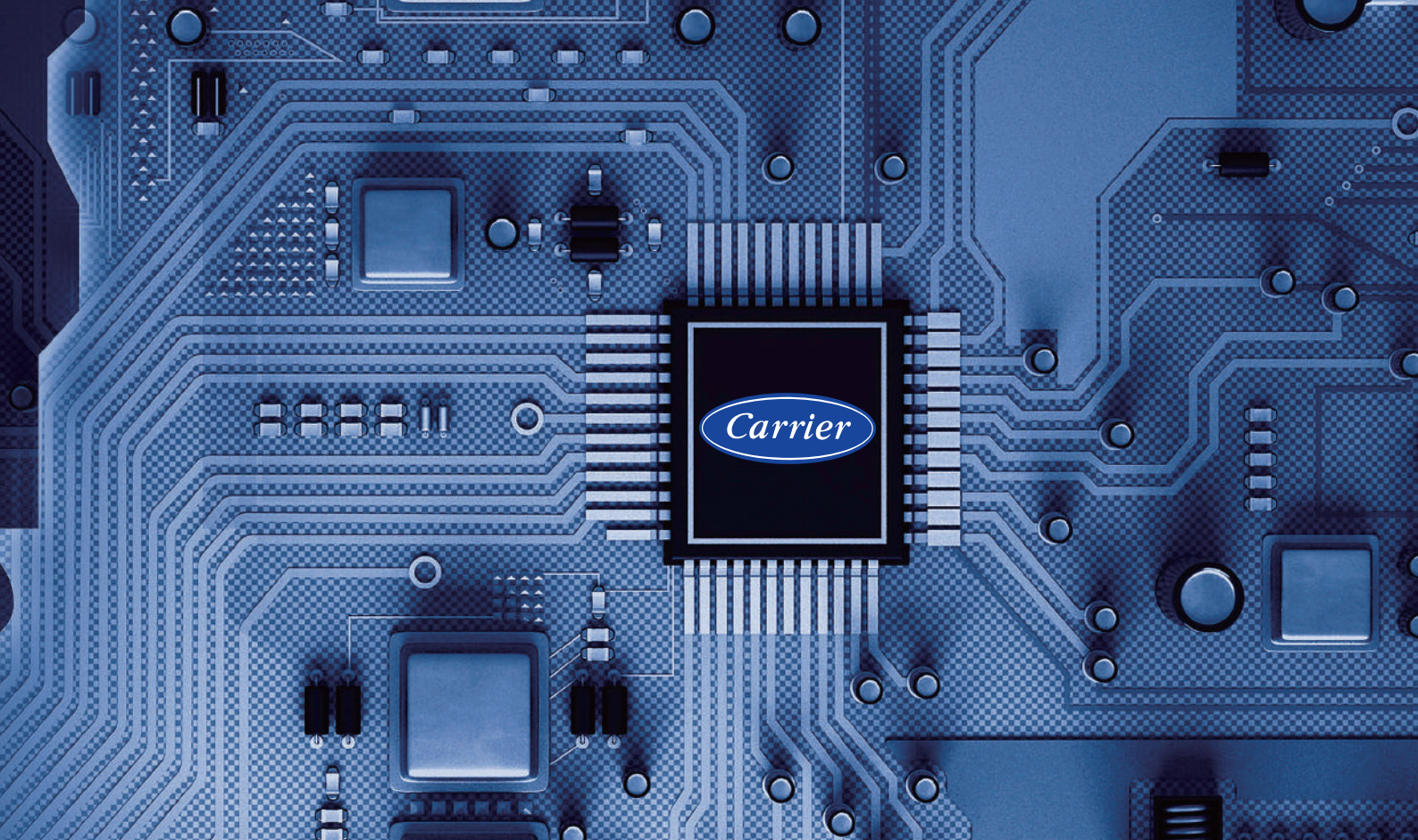
### Cost Saving

The duct unit avoids extra cost caused by frequent ducting design change after construction project bidding, since one model can fulfill different ESP demands of ducting and it doesn't need to repurchase another kind of conventional duct to fit in new demand.

(\*ESP=External static pressure)







# Inverter Technology

With improved control program, the units can make great achievements in temperature adjustment and energy efficiency. The inverter compressor and DC fan motors realizes higher heat exchange efficiency by better control of airflow and refrigerant flow, according to the data collected by sensors and processed by programs.

## 30% Energy Saving



DOWN

## 30% Faster Cooling



## $\pm 1$ Temperature Adjustment



## Lower Noise





# Durability

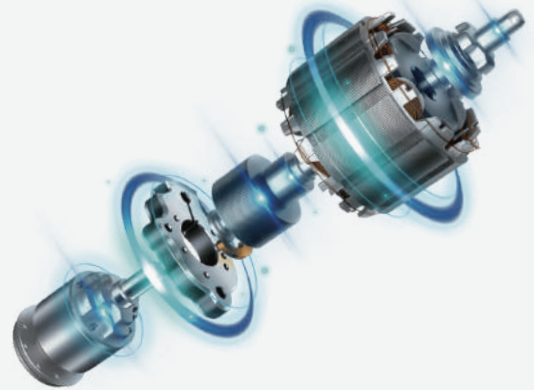


Turn to the experts

## Durable Compressor

(No. 1 in it's segment)

A strong heart - the efficient and reliable GMCC compressor guarantees durable operation. One third of compressors used around the world are supplied by GMCC due to its stable quality and excellent performance.



## Golden Fin

### Outdoor Unit

The unique hydrophilic golden coating on aluminum fin of the heat exchangers can withstand the salty air, rain and other corrosive elements. It also effectively improves the system's efficiency.



## Golden Fin

### Indoor Unit

All Light Commercial Air Conditioner indoor units are standard with hydrophilic golden coating on aluminum fin of the heat exchangers. It prevents bacteria from breeding and spreading, improving heat efficiency



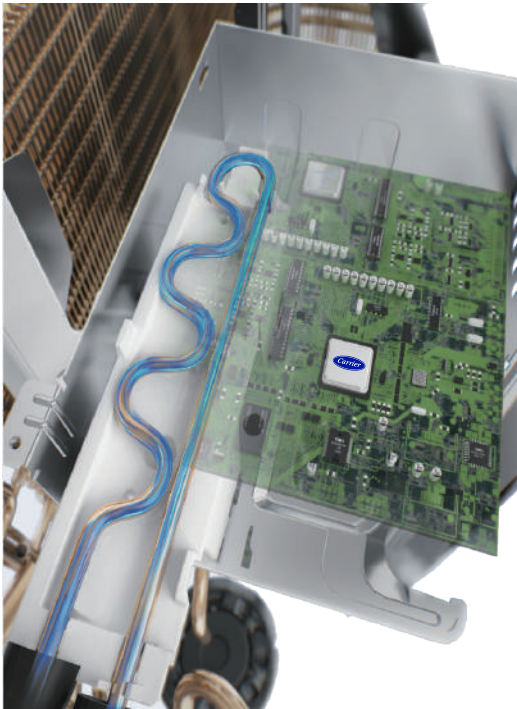
## Coating For PCB

For better protection of the PCB, an anti-corrosion coating is also applied to ensure a longer life cycle.

# 50° High Temperature Cooling

The inverter compressor keeps operating to guarantee the continuous cooling, even under the high temperature of up to 50°C. And the whole unit still has 80% output capacity under 50°C ambient temperature. With good quality elements inside, the new-designed heat dissipation system performs better.

(\*Data applied to some models with specific experimental conditions.)

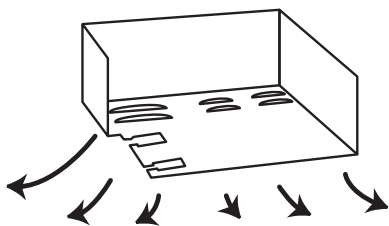


## E-box Refrigerant Cooling

The extended refrigerant tube is designed to cool down the e-box only, resulting the great improvement of durability of electronic elements under extremely hot weather.

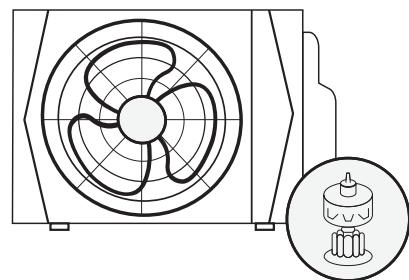
The tube gets curved to maximize the heat exchange area between refrigerant and PCB.

And the heat dissipation efficiency increases by 5 times.



## 4 Heat Dissipation Grids

Compared with old models, the heat dissipation grid increases to 4 and the outdoor unit achieve faster temperature falling.



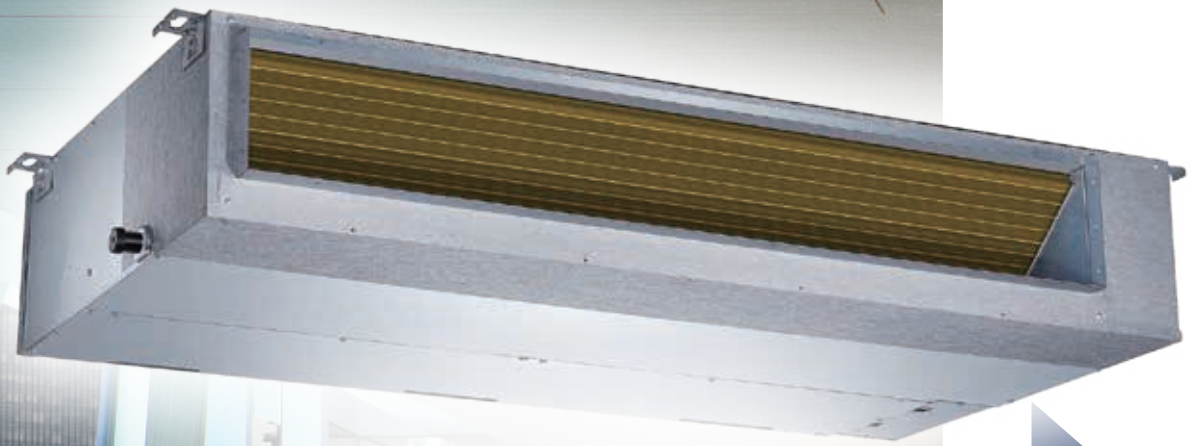
## Dust Cleaning

The DC motor can rotate in reverse to remove the sand and dust, ensuring the normal operation of outdoor unit.









## Duct Unit

### Wide Static Pressure Range

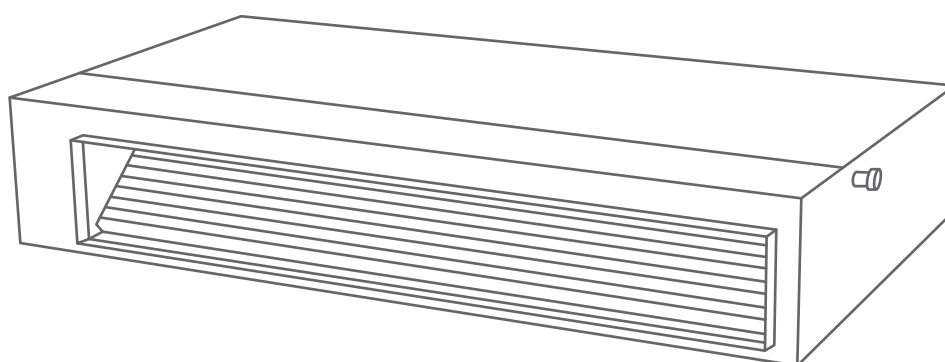
The ducted unit has a static pressure range of 0-160 Pa. This feature can fulfill most demands of application. Long ducting still enjoys the enough airflow volume.



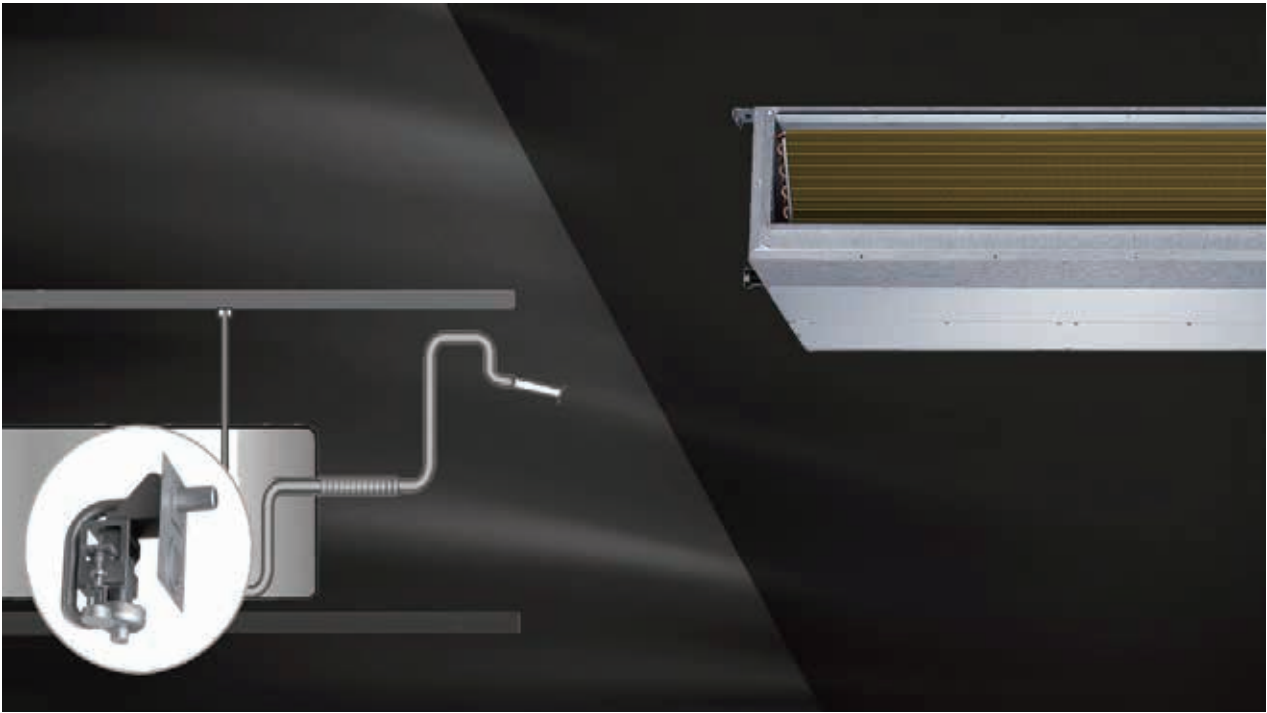
0-160 Pa

### Slim Design

With the weight decreases almost 20% and the size shrinks 12.5% in comparison with conventional one, the A6 duct save lots of installation efforts and time as well as creates bigger maintenance space.







### Built-in Drain Pump

(Optional)

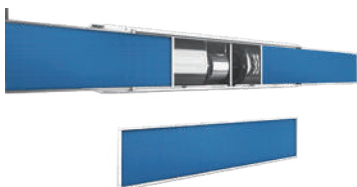
The drain pump can lift the condensing water up to 750mm, which is convenient to install drainage pipes under most conditions.

### Easy Maintenance



#### Bottom Maintenance

Maintenance work can be done by open the unit from the bottom. It's easy to reach the motor and other Parts of indoor units.



#### Removable Filter

The filter can be easily removed from left, right or bottom to do cleaning.

(\*Only for 0-160Pa Duct)



# Duct Unit

SYSTEM		Ducted 24K	Ducted 36K	Ducted 48K	Ducted 60K
Cooling capacity	kW	7.10 (3.28 ~ 8.16)	10.50 (2.75 ~ 11.14)	14.10 (3.52 ~ 15.53)	15.40 (4.10 ~ 17.30)
	Btu	24225 (11191 ~ 27841)	35826 (9383 ~ 38009)	48109 (12010 ~ 52988)	52544 (13989 ~ 59027)
Heating capacity	kW	7.45 (2.81 ~ 8.49)	12.10 (2.78 ~ 12.78)	15.50 (4.10 ~ 18.17)	18.30 (4.40 ~ 20.50)
	Btu	25419 (9587 ~ 28967)	41285 (9485 ~ 43605)	52886 (13989 ~ 61996)	52544 (13989 ~ 59027)
SEER/SCOP	W/W	6.2 / 4.0	6.3 / 4.0	6.1 / 4.0	6.1 / 4.0
Energy label	-	A++ / A+	A++ / A+	A++ / A+	A++ / A+
Yearly energy consumption	kWh	401 / 1890	583 / 2940	809 / 4095	884 / 4445
EER/COP	W/W	3.15 / 4.14	2.63 / 3.69	2.79 / 3.44	2.93 / 3.52
Standard current (cooling)	A	10,0	17,5	8,5	9,6
Standard input (cooling)	W	2250	4000	5050	5250
Standard current (heating)	A	8,0	14,5	8,0	9,5
Standard input (heating)	W	1800	3280	4500	5200
OUTDOOR UNIT		38QUS024D8SJ	38QUS036D8SJ	38QUS048D8TJ	38QUS060D8TJ
Temp range cooling	°C	-15 ~ 50	-15 ~ 50	-15 ~ 50	-15 ~ 50
Temp range heating	°C	-15 ~ 24	-15 ~ 24	-15 ~ 24	-15 ~ 24
Voltage/Hz/Ph	-	220 ~ 240V / 50Hz / 1Ph	220 ~ 240V / 50Hz / 1Ph	380 ~ 415V / 50Hz / 3Ph	380 ~ 415V / 50Hz / 3Ph
Rated current	A	19,0	22,5	13,0	14,0
Rated input	W	3700	5000	6900	7500
Refrigerant amount (R32)	kg	1,50	2,40	2,8	3,00
Liquid side/Gas side	inch	(3/8" / 5/8")	(3/8" / 5/8")	(3/8" / 5/8")	(3/8" / 5/8")
Max piping length	m	50	75	75	75
Max difference	m	25	30	30	30
Additional charge	g/m	24	24	24	24
Sound power level	dB(A)	67	72	74	73
Sound pressure level	dB(A)	60	63	63,5	64
Airflow	m³/h	3500	4000	7500	7500
Weight	kg	43.9	66.9	103.7	107.0
Dimensions (WxDxH)	mm	890 x 342 x 673	946 x 410 x 810	952 x 415 x 1333	952 x 415 x 1333
INDOOR UNIT		42QSS024D8SJ	42QSS036D8SJ	42QSS048D8SJ	42QSS060D8SJ
Sound power level	dB(A)	62	62	67	67
Sound pressure level (high/med/low)	dB(A)	49.0 / 46.0/41.0	50.0 / 48.0 / 46.0	51.5 / 49.0 / 47.0	52.5/49.0/47.0
Air flow (high/med/low)	m³/h	1230 / 1035 / 825	2100 / 1800 / 1500	2400 / 2040 / 1680	2600 / 2210 / 1820
External static pressure	Pa	0 ~ 160	0 ~ 160	0 ~ 160	0 ~ 160
Weight (Net)(Body)	kg	32.3	40.5	47.6	47.4
Dimensions (WxDxH)(Body)	mm	1100 x 774 x 249	1360 x 774 x 249	1200 x 874 x 300	1200 x 874 x 300
Packing (WxDxH)(Body)	mm	1305 x 805 x 315	1570 x 805 x 330	1405 x 915 x 365	1405 x 915 x 365

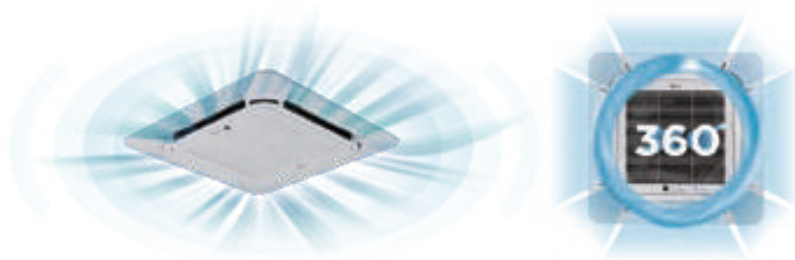
\* Sound data @ cooling mode

\* -7°C / -10°C / -15°C heating capacity @ free frequency



## 4-Way Cassette





### CoolSurround 360°

Unique seamless airflow louver design equipped with DC fan motor allows cool air to diffuse and sink in 360° direction, offering uniform cooling experience throughout the space.



### Louver Position Memory

The louver will return back to its previous position when you restart the AC, allowing you to enjoy your preferred coolness settings every time you turn on the unit.



**Remote control included**



### Flexible Installation

#### Built-in Drain Pump

The drain pump can lift the condensing water up to 750mm, which is convenient to install drainage pipes under most conditions. It is suitable for ceiling of grid type and it has high degree of freedom of installation and it can be installed beside lighting and ventilation opening.



360° Air Flow

# 4-WAY CASSETTE

## Fresh Air

Air outside can be led into the room via a connection pipe, which keeps the indoor air fresh and healthy.

## Compact and Stylish Design

With a fireproof metal plate, it will stop fire immediately once the Compact and linear design makes it perfect for the grid type ceiling. The smaller body requires less space for installation.

## Convenient Control Options

### Weekly Timer Controller

Multiple time on and off time in a day can be set by KJR-120C weekly timer wired controller.

### Twin System With Sync Control

The twin system connect with 2 IDUs of the same type and capacity to 1 ODU for more air distribution in a large room. The controller can be control both IDU simultaneously.



## 4-Way Casette

SYSTEM		Cassette 24K	Cassette 48K
Cooling capacity	kW	7.04 (3.30 ~ 7.91)	14.00 (3.52 ~ 15.83)
	Btu/h	24020 (11259 ~ 26989)	47768 (12010 ~ 54011)
Heating capacity	kW	7.50 (2.81 ~ 8.94)	16.00 (4.10 ~ 17.29)
	Btu/h	25590 (9587 ~ 30503)	54592 (13989 ~ 58993)
SEER/SCOP	W/W	6.3 / 4.0	6.1 / 4.0
Energy label	-	A++ / A+	A++ / A+
Yearly energy consumption	kWh	391 / 2100	803 / 3780
EER/COP	W/W	2.82 / 4.05	3.01 / 3.49
Standard current (cooling)	A	11,0	8,5
Standard input (cooling)	W	2500	4650
Standard current (heating)	A	8,5	8,0
Standard input (heating)	W	1850	4580
OUTDOOR UNIT		38QUS024D8SJ	38QUS048D8TJ
Temp range cooling	°C	-15 ~ 50	-15 ~ 50
Temp range heating	°C	-15 ~ 24	-15 ~ 24
Voltage/Hz/Ph	-	220 ~ 240V / 50Hz / 1Ph	380 ~ 415V / 50Hz / 3Ph
Rated current	A	19,0	13,0
Rated input	W	3700	6900
Refrigerant amount (R32)	kg	1,50	2,93
Liquid side/Gas side	inch	(3/8" / 5/8")	(3/8" / 5/8")
Max piping length	m	50	75
Max difference	m	25	30
Additional charge	g/m	24	24
Sound power level	dB(A)	67	74
Sound pressure level	dB(A)	60	63,5
Airflow	m³/h	3500	7500
Weight	kg	43.9	103.7
Dimensions (WxDxH)	mm	890 x 342 x 673	952 x 415 x 1333
INDOOR UNIT		42QTD024D8SJ	42QTD048D8SJ
Sound power level	dB(A)	59	66
Sound pressure level (high/med/low)	dB(A)	50.0 / 47.5 / 42.0	52.5 / 50.5 / 48.0
Air flow (high/med/low)	m³/h	1250 / 1120 / 995	1900 / 1750 / 1600
Weight (Net/Gross)(Body)	kg	21,6	29,3
Weight (Net/Gross)(Panel)	kg	6.0	6.0
Dimensions (WxDxH)(Body)	mm	830 x 830 x 205	830 x 830 x 287
Dimensions (WxDxH)(Panel)	mm	950 x 950 x 55	950 x 950 x 55

\* Sound data @ cooling mode

\* -7°C / -10°C / -15°C heating capacity @ free frequency





## Ceiling & Floor





### 3D Airflow

The unit has horizontal swing and auto vertical swing function, which supplies more even and comfortable air flow.



### Build-in Drain Pump (Optional)

The drain pump can lift the condensing water up to 750mm, which is convenient to install drainage pipes under most conditions.



### Easy Maintenance

More than 60% parts and assemblies (such as fan wheels, plastic cases, metal parts etc.) are universal for 3 different bodies, which makes the production and maintenance much easier.



### Fresh Air

Air outside can be led into the room via a connection pipe, which keeps the indoor air fresh and healthy.



**Remote control included**





### 2-Style Installation

Fashionable design and streamline appearance, suitable for different room styles.





## Ceiling & Floor

SYSTEM		Under-ceiling 24K	Under-ceiling 36K	Under-ceiling 48K
Cooling capacity	kW	7.20 (3.22 ~ 7.77)	10.50 (2.72 ~ 11.43)	14.00 (3.52 ~ 15.24)
	Btu	24566 (10986 ~ 26511)	35826 (9280 ~ 38999)	47768 (12010 ~ 51998)
Heating capacity	kW	7.40 (2.72 ~ 8.29)	12.30 (2.81 ~ 12.78)	15.60 (4.10 ~ 17.00)
	Btu	25248 (9280 ~ 28285)	41967 (9587 ~ 43605)	53227 (13989 ~ 58004)
SEER/SCOP	W/W	6.2 / 4.0	6.5 / 4.2	6.1 / 4.0
Energy label	-	A++ / A+	A++ / A+	A++ / A+
Yearly energy consumption	kWh	406 / 1925	565 / 2867	803 / 3920
EER/COP	W/W	2.99 / 3.90	2.66 / 3.62	2.69 / 3.06
Standard current (cooling)	A	10,5	17,5	9,0
Standard input (cooling)	W	2410	3950	5200
Standard current (heating)	A	8,5	15,0	9,0
Standard input (heating)	W	1900	3400	5100
OUTDOOR UNIT		38QUS024D8SJ	38QUS036D8SJ	38QUS048D8TJ
Temp range cooling	°C	-15 ~ 50	-15 ~ 50	-15 ~ 50
Temp range heating	°C	-15 ~ 24	-15 ~ 24	-15 ~ 24
Voltage/Hz/Ph	-	220 ~ 240V / 50Hz / 1Ph	220 ~ 240V / 50Hz / 1Ph	380 ~ 415V / 50Hz / 3Ph
Rated current	A	19,0	22,5	13,0
Rated input	W	3700	5000	6900
Refrigerant amount (R32)	kg	1,50	2,40	2,8
Liquid side/Gas side	inch	(3/8" / 5/8")	(3/8" / 5/8")	(3/8" / 5/8")
Max piping length	m	50	75	75
Max difference	m	25	30	30
Additional charge	g/m	24	24	24
Sound power level	dB(A)	67	72	74
Sound pressure level	dB(A)	60	63	63,5
Airflow	m³/h	3500	4000	7500
Weight (Net)	kg	43.9	66.9	103.7
Dimensions (WxDxH)	mm	890 x 342 x 673	946 x 410 x 810	952 x 415 x 1333
INDOOR UNIT		42QZL024D8SJ	42QZL036D8SJ	42QZL048D8SJ
Sound power level	dB(A)	55	65	68
Sound pressure level (high/med/low)	dB(A)	51.0 / 47.0 / 43.0	51.5 / 48.0 / 45.0	53.0 / 50.0 / 46.0
Air flow (high/med/low)	m³/h	1190 / 1025 / 850	1955 / 1730 / 1505	2100 / 1850 / 1600
Weight (Net)(Body)	kg	28.0	41.5	41.7
Dimensions (WxDxH)(Body)	mm	1068 x 675 x 235	1650 x 675 x 235	1650 x 675 x 235

\* Sound data @ cooling mode

\* -7°C / -10°C / -15°C heating capacity @ free frequency

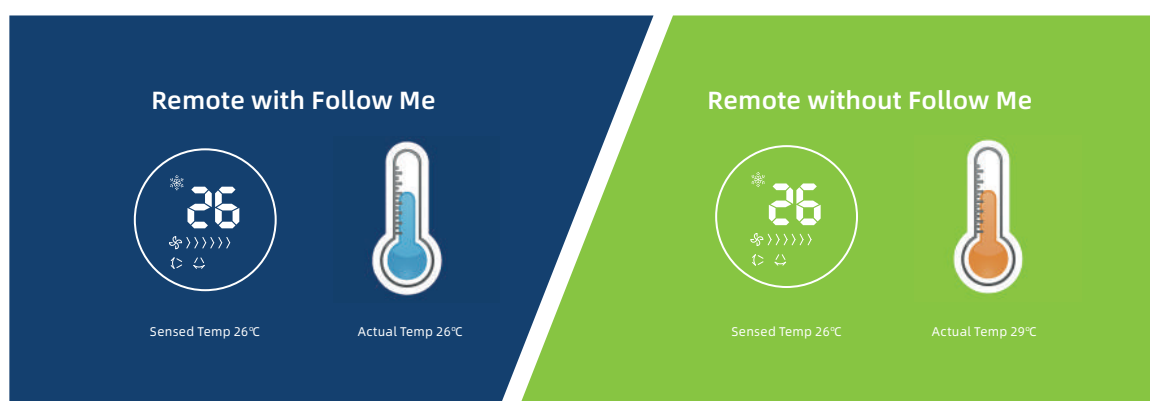




## Floor Standing

## Follow Me

The unit can timely adjust the temperature around the remote control by the feedback from it. The temperature sensor in remote control collects the data about its surrounding temperature and sends it to the indoor unit. The users can experience the best comfort with the remote control nearby.



## Auto Restart

In case of power failure, the unit can restore all of previous settings when the operation continues, including temperature, mode, speed and timing.

## Auto- Protection & Self-Diagnosis

In the case of abnormal operation, the auto protection system will shut down the unit automatically to avoid any risk and prevent further deterioration. The error code showed on display enables engineers to identify the problem quickly, according to maintenance book.



Remote control included



## Floor Standing

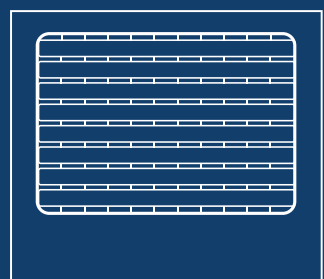
### Powerful & Long-distance Airflow

The unit can provide the powerful airflow of up to  $2300\text{m}^3/\text{h}$  and 15m long-distance airflow. With large-diameter blower wheel and bigger air outlet, the DC motor delivers the cool/hot air to cover the every corners of big room.



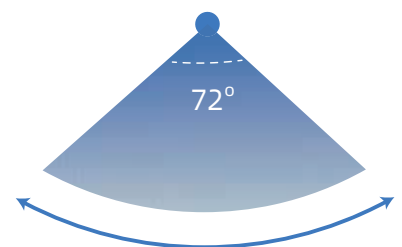
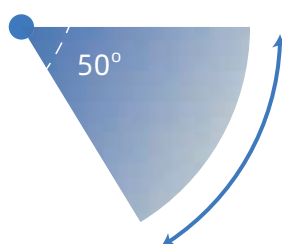
Large-diameter centrifugal blower wheel with a diameter of 40cm

The air outlet area increases by 28%



### Vertical & Horizontal Swing

The unit realizes  $50^\circ$  vertical swing angle and  $72^\circ$  horizontal swing angle. A wide swing range provides the flexibility of placing the machine and resting to enjoy the airflow.







## Floor Standing

SYSTEM		GD Floor standing 48K
Cooling capacity	kW	14.60 (4.95 ~ 15.45)
	Btu	49815 (16889 ~ 52715)
Heating capacity	kW	16.10 (4.40 ~ 18.50)
	Btu	54933 (15012 ~ 63122)
SEER/SCOP	W/W	6.1 / 4.0
Energy label	-	A++ / A+
Yearly energy consumption	kWh	838 / 3850
EER/COP	W/W	2.81 / 3.10
Standard current (cooling)	A	8
Standard input (cooling)	W	5195
Standard current (heating)	A	8,5
Standard input (heating)	W	5200
OUTDOOR UNIT		38QU5048R8T
Temp range cooling	°C	-15 ~ 50
Temp range heating	°C	-15 ~ 24
Voltage/Hz/Ph	-	380~415V / 50Hz / 3Ph
Rated current	A	11,2
Rated input	W	6200
Refrigerant amount (R32)	kg	2,80
Liquid side/Gas side	inch	(3/8" / 5/8")
Max piping length	m	65
Max difference	m	30
Additional charge	g/m	24
Sound power level	dB(A)	75
Sound pressure level	dB(A)	66
Airflow	m³/h	7500
Weight (Net)	kg	107.0
Dimensions (W×D×H)	mm	952 × 415 × 1333
Packing (W×D×H)	mm	1095 × 495 × 1480
INDOOR UNIT		42QFD048R8S
Sound power level	dB(A)	66
Sound pressure level (high/med/low)	dB(A)	55 / 53 / 51.5
Air flow (high/med/low)	m³/h	2413 / 2222 / 2027
Weight (Net)(Body)	kg	58.4
Dimensions (W×D×H)(Body)	mm	1935 × 629 × 456
Packing (W×D×H)(Body)	mm	2055 × 750 × 575

\* Sound data @ cooling mode

\* -7°C / -10°C / -15°C heating capacity @ free frequency



# Outdoor Units

Compatible with all indoor units

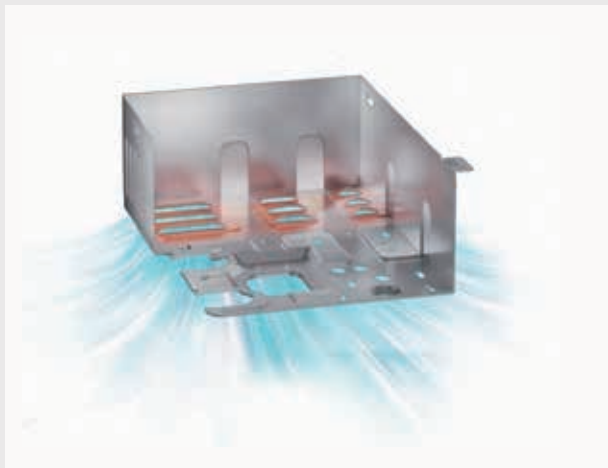
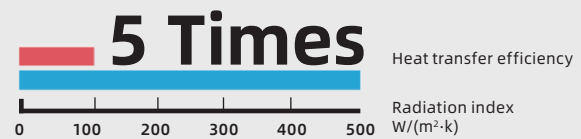






## ICE CIRCUIT

The newly designed refrigerant circuits use improved refrigerant radiation technology to cool down both the heat exchanger and E-box efficiently, which significantly upgrades the unit's performance under high ambient temperatures.



### Heat Dissipation: E-box Air Grid Enlargement

The number of grids on the outdoor E-box has been increased from 1 to 4 to help dissipate heat faster.



### Rotation: Intelligent Dusting Switch

Apart from the bionic fan blades, the Welling DC motor itself can rotate in reverse to get rid of the sand and dust from outside, ensuring that the AC is clean and functions well under high ambient temperatures.





Turn to the experts

ER\_AC\_0296



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



ALARKO CARRIER  
SANAYİ VE TİCARET A.Ş.

GOSB-Gebze Organize Sanayi Bölgesi  
Şahabettin Bilgisu Cad. 41480 Gebze-Kocaeli/TURKEY  
**Phone** : (90)(262) 648 60 00 PBX  
**Telefax** : (90)(262) 648 61 01  
**web** : [www.alarko-carrier.com.tr](http://www.alarko-carrier.com.tr)  
**e-mail** : [info@alarko-carrier.com.tr](mailto:info@alarko-carrier.com.tr)



B.14.11 15022021 MINERAL