# TINASHE

# **GREE**

# AFRICA RESIDENTIAL AIR CONDITIONER

# 2024

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## 2023

Gree entered into the list of Forbes Global 2000 again and ranked 331, up 25 places compared with the previous year.

## 2022

Gree has ranked the **487th** on the list of Fortune Global 500.

## 2019

Gree entered into Fortune Global 500. Gree's return on equity (ROE) ranked the first among the 129 Chinese enterprises on the list.

2015

Gree's sales revenue exceeded 15.08 billion USD.

## 2017

Gree's sales revenue exceeded 22.21 billion

USD. 2016

Gree's sales revenue exceeded 16.51 billion USD.

## 2018

Gree entered into the list of Forbes Global 2000 again and ranked No. 294, moving up 70 places compared with the previous year.

Gree's sales revenue exceeded 30.23 billion USD.

\*Gree is the number one brand of air conditioners in the world in 2022 Footnote: "Source Euromonitor International Limited; Consumer appliances 2023ed; retail volume sales in units, 2022 data."

# **ABOUT GREE**

Gree Electric Appliances, Inc. of Zhuhai was founded in 1991 and was listed on the Shenzhen Stock Exchange in November 1996. At the beginning, Gree was only a company that assembled residential air conditioners. Now it has grown into a diversified global technological and industrial group that has expanded its business to household consumer goods and industrial equipment these two fields under three brand names: GREE, KINGHOME and TOSOT. Gree is the number one brand of air conditioners in the world in 2022\*.

Gree products are sold widely to more than 190 countries and regions. Action makes the future and innovation makes achievement. Looking forward, Gree will press ahead with its business philosophy of passion, innovation and realization. We aim to build a centenary air conditioning enterprise and create a better life for humankind.



Claim: "Gree is the number one brand of air conditioners in the world in 2022"

Footnote: "Source Euromonitor International Limited; Consumer appliances 2023ed; retail volume sales in units, 2022 data."



Source Euromonitor International Limited; Consumer appliances 2023ed; retail volume sales in units, 2022 data.

## GREE ENTERED INTO THE LIST OF FORBES GLOBAL 2000 AGAIN AND RANKED NO. 331

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# KEY **FUNCTIONS**

- 03/ Safe and Reliable Functions
- 09/ Energy-saving and High-efficiency Functions
- 13/ Comfortable and User-friendly Functions
- 15/ Air Purification Functions

## Safe and Reliable Functions

Various reliable design ensure products quality and reliability

### Low Voltage Startup

Gree PCB capacity is enhanced greatly and it can withstand wide voltage fluctuations of 130V(Inverter Type). Therefore, the air conditioner can still operate stably under low voltage or on a generator.

Note: Heating mode is not supported.





130V(Inverter Type)

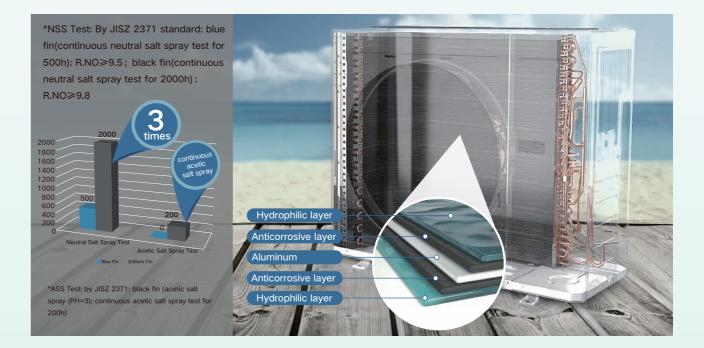


AC without low voltage startup

#### Black and Golden Fin

The unit adopts high-end golden fin or black fin with five-layer sealing coating for high-efficiency and long-lasting protection; it's with features of super hydrophilicity, weather resistance, acid rain resistance, UV protection, corrosion resistance, wind erosion resistance, high temperature resistance and so on.





### Innovative Intelligent Maintenance

Excellent air conditioners need excellent after-sales service.

#### Innovative maintenance method

Gree has created an innovative maintenance method: a combination of the Internet and the latest-developed maintenance tool - the intelligent multifunctional tester.\*

It can effectively deal with software problems of inverter air conditioners, such as loud noise, poor cooling/heating performance, bad defrosting effect and system errors, which will not only lower the cost of maintenance, but also make after-sales service easier, faster, more accurate and reliable.





Loud noise

Poor cooling/heating performance

• Some maintenance work can be done indoors

Simulate the fault

Bad defrosting effect

Copy the file to the multifunctional tester





System errors

1. Simulate the fault and develop a maintenance program file.

- 2. Gree provides the program file through the network.
- 3. The customer copies the file to the multifunctional tester through the USB.
- 4. The after-sales person provides on-site service and connects the multifunctional tester
- to the wiring board of the indoor unit.
- 5. Operate the multifunctional tester to repair, check and test the unit.

#### Compared with traditional maintenance method

#### Safety guarantee

Say goodbye to the danger of working at height in the outdoors; debugging the unit is as easy as updating a mobile phone.



Provides the program file

\*The multifunctional tester is suitable for Gree residential inverter air conditioners.



#### Lower maintenance cost

No need to buy maintenance parts, saving time and money.



#### Higher maintenance efficiency

No need to wait for the production and transport of maintenance parts; the unit can be repaired directly with the multifunctional tester.





#### Easy operation

No need to remove the casing or replace the main board of the outdoor unit; debugging can be finished easily by connecting the multifunctional tester to the indoor or outdoor unit.

## Self Diagnosis

Once abnormal operation or part failure happens, the unit will shut off automatically to protect the system. Meanwhile it will display protection or error code for fast service.

#### **F**ire-proof Electric Box

and reliable.



Nnomal display



Open/Short circuit of ambient temperature sensor: Dual-8 display shows F1



Open/Short circuit of outer tube temperature sensor: Dual-8 display shows F4



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Overload protection: It will display H3 (See overload protection function for more details)

Open/Short circuit of

inner tube temperature

sensor: Dual-8 display

shows F2

If multiple errors happen at the same time, the corresponding error/protection codes will be displayed in turn.

Note: support.gree.com



## Auto Restart

If the power supply is suddenly disconnected during the operation of air conditioner, the unit will save the operating state of the air conditioner before the power failure. After the power restarts, the air conditioner will automatically start and maintain the operating state before the power failure.





Power-off shutdown

#### The electric box adopts BMC fire-proof materials whose flame retardant grade is 5VA, safe



Restart in memorized status

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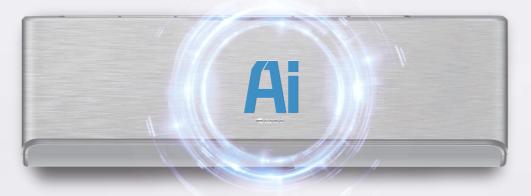
Resume operation when power recovers

## Energy-saving and High-efficiency Functions

Different energy-saving methods pursuit of higher efficiency

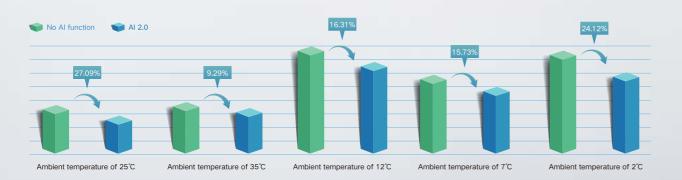
## G-AI 2.0 Technology

Gree self-developed AI smart air conditioner initially integrates AI technology with air conditioning technologies.



#### • Learning to be high-efficiency

Al algorithm is adopted. The Al algorithm combines reinforced learning and expert system theory, learns the complex and changeable user environment through online interaction, uses the algorithm to dynamically adjust the operation mode of air conditioner, and selects the optimal energy-saving control strategy.



\*The data is tested with EU 12K models

#### • Learning to be comfortable

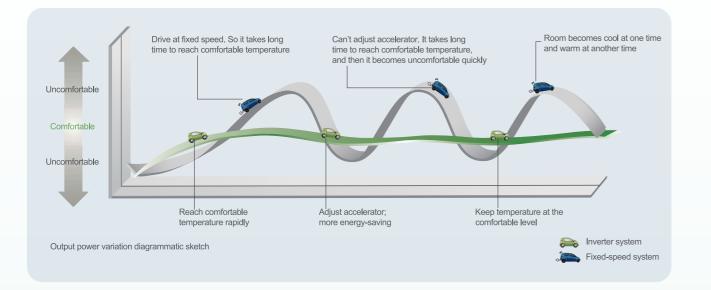
The AI algorithm can learn and practice online in combination with the current ambient temperature, humidity, room size and other factors, actively adjust the control strategy, slightly adjust the operation mode of the air conditioner, and keep the environment in a dynamically comfortable state.

The longer the Al algorithm is used, the more it can adapt to the environment, and the better it can understand the needs of users, so that comfort spreads to every corner of the room.





#### How Inverter Saving Energy?



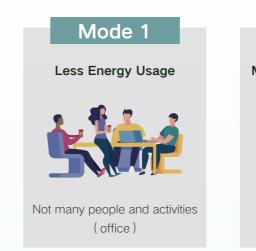


It is a perfect AC that provides not only comfortable cooling but also reliable operation and power saving function. Pular has been upgraded with a new function of energy control which is suitable for places with power limitation, power shortage, etc. While reducing power consumption, Pular can still operate reliably and stably under different power input.

#### 3 power modes to choose

This is an AC designed with 3 selections of power modes for reducing energy consumption.



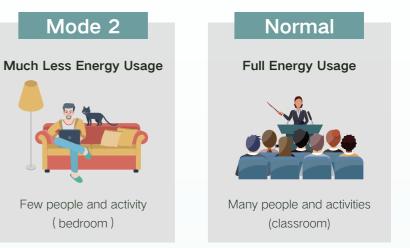


The release of cooling capacity can be reasonably controlled by selecting appropriate electric power according to the using environment. While enjoying the pleasure brought by air conditioning, it can reduce consumption, save energy, and reduce unnecessary waste of resources.

Note: Only some models have this functions.

#### Suitable for the following requirements



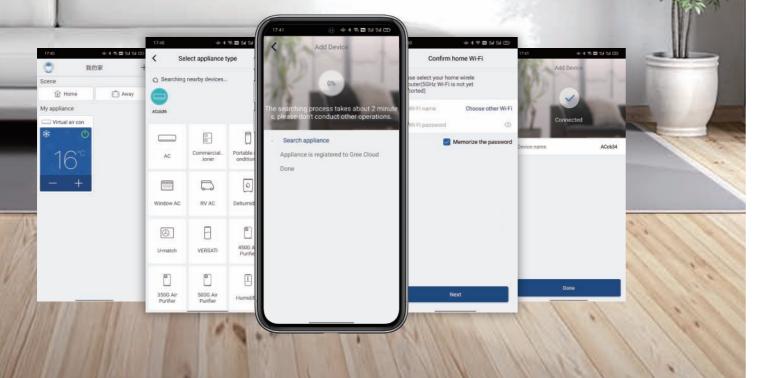




## **Comfortable and User-friendly Functions**

#### WiFi Bluetooth Efficient Networking

Gree air conditioner is equipped with WiFi Bluethooth efficient networking function, which can automatically connect to the network and find nearby devices. Compared with traditional WiFi links, it improves the success rate of networking and reduces the networking steps, effectively improving the operation convenience and reliability of the product.



## Fast Cool

Under fast cool mode, room temperature can be reduced quickly and you can feel cool and comfortable in only a few minutes. However, 20min later, the temperature and fan speed will resume previous setting state, energy-saving and comfortable.



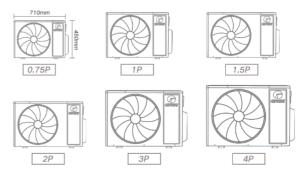
#### • Tips for fast cooling function

- Press "FAST COOL" button to turn on fast cooling mode.
- Press it once, the default temperature is  $25^{\circ}C(77^{\circ}F)$ , and the remote controller flashes for 5s.
- Press it twice, the default temperature is  $16^{\circ}C(61^{\circ}F)$ , and the remote controller flashes for 5s.
- In the flashing period, press"▲" or "▼" button to adjust the temperature. Press "FAN" button to adjust the fan speed. When flashing is over, the unit operates at the set temperature and fan speed.
- · 20 minutes later, it will resume to the set temperature and the fan speed before fast cool mode setting.

## High Loading Capacity

The loading capacity of the unit (9K) shipped by sea is up by 8.8% compared to the last generation, which effectively reduces the costs of transportation and storage.





## **Air Purification Functions**

Multiple Air Purification Functions for Your Fresh Breathing

#### Colasma Air Purification Technology

The cold plasma achieve the whole house purification by bacteria inhibition and deodorization.

#### Remove odor and inhibit static electricity

Because the number of negative ions is greater than that of positive ions, the excess negative ions floating in the air may additionally remove unpleasant odors inevitable in daily life, such as smell of cigarette and smell of toilet. Besides, it can reduce static electricity so that pollen and dust is not easy to attach to curtains and clothing.



smell of cigarette

smell of toilet

#### • Sterilize and purify the air

Release positive

and negative ions

As one of the effective ways to deal with indoor air pollution, Colasma can effectively remove bacteria and kill viruses, such as coronavirus, influenza virus, rotavirus, bacillus, coccus and molds.

Surround

viruses

Kill

viruses

Form water and

return to the air



Note: Data sourced from Test Report 2020001571b; test conducted in a 30m<sup>2</sup> laboratory, where the amount of air-borne bacteria before purification is 4.88 × 102 CFU/m<sup>2</sup>

Function setting instruction



ON/OFF

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#### Remote controller with " 希 " button

Turn on cold plasma function: Press "斧" button Turn off cold plasma function: Press "≩" button again or turn off the unit

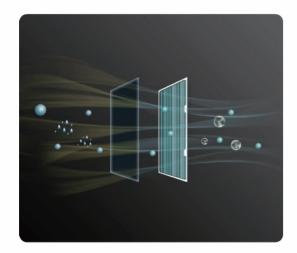




## **Multifunctional Filters**

#### Nano photocatalyst filter

Nano photocatalyst filter is with nano dioxide and special active catalyst substances on the surface; so it can remove up to 95% of ammonia.



When the photocatalyst TiO2 in the product contacts water or oxygen, it will react and finally produce hydroxyl radical (-OH) with high chemical activity. -OH has strong oxidation ability and can react with harmful gases in the air to remove harmful gas pollutants.

#### • HEPA filter

The filter fiber reduces the filtration resistance, increases the dust capacity, and can effectively filter and remove of dust particles and bacteria above **0.3 microns** in the air. Therefore, the filter can purify the air and keep the air fresh. Also, the filter can purify liquid and do the oil treatment.



Note: Data sourced from Test Report 20-30-1356-12004; test condition: 40~60% (RH), 23~27°C(T); select the filter according to the needs.



• Other filters



Silver ion filter The antivirus rate of Staphylococcus aureus and Escherichia coli is





corrosion



HEPA Filter

Catechin filter

The antivirus rate of Staphylococcus aureus and Escherichia coli is



Formaldehyde removal filter Remove formaldehyde and hydrogen sulfide

Chitin filter Effectively prevent



C Vitamin C filter Create a healthy and comfortable space



#### Self Clean

It is annoying that the evaporator is very easy to accumulate dust and bacteria. While Gree evaporator auto clean technology adopts five steps of "condensation, frosting, defrosting, drying and 50-55°C sterilization" to keep the evaporator clean for fresh air supply.

#### Cooling and heating models

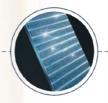


Note: Cooling-only units have four steps----condensation, frosting, defrosting and drying; cooling and heating units have five steps----condensation, frosting, defrosting, drying and 50-55°C sterilization.



#### Defrosting

Defrost to remove dust



#### Drying

Drain until the surface is dry



#### 50-55°C sterilization

Evaporator temperature remains at 50-55°C for 10min

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#### Comfortable and User-friendly



The air guide louver can not only automatically swing up and down, but also left and right. It enables 3D airflow for wider air supply to enhance the comfort.

**3D** Airflow



Indoor unit operates at ultra low fan speed under this mode for the lowest noise, offering you a quiet environment for study and working.

**Quiet Design** 



Timer: You can set the start and stop time by the remote controller, such as stop after 1.5h or start after 1.5h. (The setting can only take effect once)

24-hour Timer



Do you always feel hot or cold when the unit has operated for a period of time? Is it very troublesome to adjust the temperature frequently? Now I-Feel function can solve this problem for well. One button for you to enjoy the comfortable life.



Clock: You can set a certain time to start and stop by the remote controller, such as turn on the unit at 13:38 or turn it off at 16:38. (The setting can take effect before the next setting)

**Clock Timer** 



In cooling or heating mode, press "Turbo" button on the remote controller for big air flow, which enables indoor temperature to reach the set one in a short time.

Turbo



Under heating mode, the unit operates at 8°C to ensure constant room temperature for maintaining comfort and saving energy.

8°C Heating Mode



The unit slowly increases (cooling) or decreases (heating) the set temperature to satisfy the sleeping demand of users.

Comfortable Sleeping Mode



Under low temperature, the capacity of two-stage compress can be improved by 20%

Two-stage Compressor



The unit slowly increases (cooling) or decreases (heating) the set temperature to satisfy the sleeping demand of users.

#### Three Sleep Modes



The air conditioner has dehumidification function and it can dehumidify during operation, which is convenient and fast.

#### Dry Mode



If the power supply is suddenly disconnected during the operation of air conditioner, the unit will save the operating state. After power recovery, it will automatically start and maintain the operating state before the power failure.



Under Fast Cool mode, the temperature in the room will be decreased quickly; 20min later, the temperature and fan speed will resume their settings in the previous cooling state.



Vertical

Auto Swing



Fan speed can be adjusted by a remote controller. Turbo fan speed can instantly change the room temperature, enabling you to feel the coolness immediately, while quiet fan speed enables you to enjoy the comfortable temperature quietly.





The temperature can be adjusted from 8°C to 30°C in heating mode, the ultra-wide adjustable temperature range can bring more comfortable experience to our customer.



Airy can operate according to the humidity set by the user. It is specially designed with the continuous dehumidification function, which can meet the daily need for drying clothes.

Independent Smart Dehumidification



Shortens the defrosting time of outdoor unit, reduces indoor temperature fluctuation and enables continuous heating for 10 hours without a stop.

Heating for 10h without Shutdown



Once auto mode is set, the unit can automatically adjust the temperature basing on the detected temperature. No need to switch cooling or heating mode when there is big temperature difference.

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Adjustable Temperature under Auto Mode



The unit can automatically swing left and right to enhance the comfort.

Horizontal Auto Swing



Ultra-long-distance airflow delivery, bringing comfort to every corner.

Long Air Supply Distance



Multiple Fan Speeds

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The unit has 4 or 3 fan speeds--quiet, low,

medium, high, which can satisfy various

requirements.



Airflow to people is prevented - the cool air blows upward along the wall and then sinks, providing natural cooling for you.





#### Convenient



LED display can display clearly in front of a light source.

#### LED Display



Gree smart centralized controller can control on/off, mode, temperature and timer of 36 unit at the most in a centralized way.

Wired Control



Universal castors for easy movement



Castors



Key-card

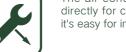
Control

Concealed

Handles

The air conditioner can be disassembled directly for cleaning and maintenance, and it's easy for installation.

Easy Installation and Maintenance



Gree air conditioner is equipped with

key-card control function. Swiping the

key-card can turn on the air conditioner;

when the card is removed, the unit keeps

working for 6mins and then stops operation.

Concealed handles for easy movement

## ◆ Intelligent Control



It can turn on or turn off the unit, and adjust the temperature, operation mode and swing mode by voice control.

Off-line Voice Control



Achieve long-distance control of unit on and off, temperature and fan speed, etc. by APP in the mobile phone and wifi.

Wifi Control



Using Bluetooth flash configuration, devices can automatically find nearby network connection, improve the success rate and reduce the steps of distribution network.

Efficient Bluetooth **Distribution Network** 



Smart voice control is available; Google Assistant or Amazon Alexa are compatible.

Smart Voice Control



The volume and the indication sound of the buzzer can be adjusted, no worry for disturbing daily life.

Two Modes of **Buzzer Adjustable** 



First heating and then blowing for cold air prevention, more comfortable

Anti-cold

#### High-efficiency and Energy-saving



3DC inverter includes DC inverter compressor, high chamber and high-efficient DC motor, with superior performance.

**3DC Inverter** 



There are three gears for the power reduction function. Air conditioners can operate stably and reliably under different power output statuses at the areas with requirements for power limitation and energy conservation.

Power Gear Control



The air conditioner is designed to high energy efficiency and to realize power saving.

High Efficiency





The air conditioner can automatically sense the change of light in the environment and then intelligently adjust the display brightness.

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Air conditioners with G-AI energy-saving technology can learn environmental changes and customer needs dynamically, always implement the optimal control strategy to achieve energy saving and comfort.

#### G-AI Energy-saving Technology



The unit can intelligently detect the frosting status and conduct defrosting rapidly to improve the heat dissipation efficiency.





After high-temperature curing, the eco-friendly water-based coating will form a dense and low-porosity organic film on the surface of the substrate, which can effectively isolate common corrosives in the air.

Anti-corrosion Evaporator



Stable cooling of compressor even at a high temperature of 68  $^\circ$  C

G-Boost Inverter Compressor

#### ◆ Healthy and Clean



Photocatalyst filter, HEPA filter, catechin filter, activated carbon filter, silver ion filter, etc.

#### Multi-functional Filters



The cross fan continuous to blow to dry the inner side of indoor unit when the unit is turned off for keeping it clean and healthy.

X-fan



With a built-in dust sensor and 4-color light display, the unit can show the air quality of your room.

Real-time Monitoring of Air Quality



UV

LED ultraviolet lamp can emit strong ultraviolet ligh to inhibit the growth of bacteria and viruses. It has the advantages of small size, long life and no ozone generation.



The cold plasma device generates positive and negative ions to kill the bacteria and then decompose them into water.

#### Colasma Air Purification Technology



Condensate water mixes with the dust, and then the dust will be removed through defrosting; after that, the temperature is increased to dry the evaporator for preventing the mildew and keeping the air clean.

IDU Self-cleaning



When the filters need to be cleaned, the dehumidifier or window air conditioner will automatically remind the user.

Filter Cleaning Reminder



Indoor and outdoor air exchange for fresh indoor air

Ventilation



Full Heat Exchange Two-way Ventilation. MiniERV (Mini Energy Recovery Ventilation) adopted innovative total heat two-way ventilation system. There is only heat exchange,ensuring air quality and satisfactory temperature.

#### ◆ Safe and Reliable



All ventilated components can be disassembled and washed, including filter, swing mechanism, air outlet, fan blade, water channel and evaporator. All above are components without electricity, which are safe and reliable.

5-level Washing Water-electricity Separation



The unit can operate stably under a wide voltage range, which is suitable for the regions with unstable power supply.

Wide Voltage Range



Once wrong operation or failure happens, the unit will shut off automatically to protect the system. Meanwhile, protections or error codes will be displayed for maintenance.

Self-diagnosis



When the refrigerant is insufficient or the valve is blocked, indoor unit will display error code "F0" and stop operation to protect the unit.

Refrigerant Shortage Protection



Cooling only units achieve self-cleaning through reverse running of the fan; heat pump units achieve self-cleaning through reverse running of the fan, condensation, frosting and defrosting. The cleaner the outdoor unit, the better the cooling effect and energy saving.  $\cap$ 





The anti-corrosion fins adopt special anti-corrosion materials; corrosion resistance and acid resistance of air conditioner will be reinforced under the humid environment.

Anti-corrosion Fin



The AC or dehumidifier can be normally started up even the voltage is 10% lower than the normal one, safe and stable.

Low Voltage Startup



Electric box adopts new BMV fireproof material, safe and reliable.

Fire-proof Electric Box



Chassis, panel, side plate and top cover are sprayed with electrostatic powder to against the neutral salt spray.

Anti-corrosion Protetion of Outdoor Unit





It can bear 1000h neutral salt spray test, much safer and more reliable.

3-layer Coating Protection for the Main Board



The rotation speed of inverter compressor increases step by step at the time of startup to prevent the power grid from excessive fluctuation for increasing the startup safety.

Soft Start



The Intelligent Auto-Restart function can start up each air conditioner with the starting time of second difference, so as to avoid the impact on the power grid

Intelligent Auto-restart



Epoxy zinc phosphate coating served as a protective film on the surface of the tubes.

Anti-corrosion Protection of Tubes



When Child Lock function is activated, misoperation from children will be avoided. Potential risks can also be avoided.

Child Lock



Compared with the traditional drainage by chassis, the high drop continuous drainage is more convenient for the installation of drainage pipes and the discharge of condensate water.

Continuous Drainage

Dehumidifier



Dehumidifier can always be in continuous dehumidification state, without fear of environmental humidity changes.

Continuous Dehumidification



Touch sound can be turned off by pressing the button to ensure comfortable sleep.

Beep



Low temperature dehumidification and stable operating under 2°C.

Low Temperature Dehumidication



External drain connector, not to worry about leakage after pulling out the hose.

#### External Drain Connector



The dehumidifier has the function of auto fan, enables you to enjoy the dry and cool life at the same time.

Auto Fan



If the evaporator is frosted, the dehumidifier can defrost automatically and continue to run.

#### Intelligent Defrosting



The dehumidifier can preset dehumidification 24h in advance.





When the filters need to be cleaned, the dehumidifier or window air conditioner will automatically remind the user.

Filter Cleaning Reminder



After the dehumidifier conducts fast drying and completes the drying, the indoor humidity will be kept in a certain degree to prevent clothes from mildewing.

Turbo Boost Clothes Drying System





Humidity Display



Touch

Control

Button-touch button instantly starts the sensory world, which brings excellent experience to consumers.

Display the humidity on time to get the envi-

ronment more quickly.



You can drain easily by removable water tank.

Removable Water Tank



Indicator

When the water tank is full, the dehumidifier will give an alarm and remind users to drain water.



The dehumidifier has the function of air flow, you can enjoy the dry and cool life at the same time.



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## **Products Overview**

Wall-mounted Type	Capacity(Btu/h) Information	9000	12000	18000	24000	Page
Airy	DC Inverter, R32	٠	٠	•	•	33
Clivia	DC Inverter, R32	٠	٠	٠	•	35
Pular	DC Inverter/On-Off R410A	٠	•	•	•	37
Cosmo	DC Inverter/On-Off R410A	٠	٠	٠	•	39
Charmo	DC Inverter/On-Off R410A	٠	٠	٠	٠	41
Aphro	DC Inverter, R410A	٠	٠	٠	٠	43

Floor-standing Type	Capacity(Btu/h)	18000	24000	28000	36000	42000	48000	55000	Page
Kimbe II	DC Inverter, R32		•						47
I-Shine	DC Inverter R410A		•						49
Flowind II	On-Off, R410A	•	•		•		•	•	50
T-Series	On-Off, R410A	•	•		•		•	•	51
Window Type	Capace Information	city(Btu/ł	900 (י	00	12000	1800	00	24000	Page
Aoky	On-Off,R410A		•		•	•		•	55
Portable Type	Capacity(Btu/h)		) 7	7000 90		000	12	000	Page
Aovia	R290			•		•		•	59
DEHUMIDIFIER	Capacity(L/D) Information	10	12	16	20 2	.4 30	40	180	Page
Zoomhunt	R32							•	63
Aomi	R290			•	•				65
RECRATION VEHICLE	Capace Information	Capacity(Btu/h)		85000		12000			Page
Shark	R410A			•			•		69
Gocool	R32			•		•			71



# WALL-MOUNTED TYPE

- 33/ Airy
- 37/ Pular
- 41/ Charmo



- 35/ Clivia
- 39/ Cosmo
- 43/ Aphro

## Surfing Louver, All round Cool

Fully-closed motional large air louver





15.5m

**110%** Air supply

volume up by

10%

## 2-mode Air Delivery

Direct air supply in near field and far field is prevented for more comfort.





#### WALL-MOUNTED TYPE



Protection of Outdoor Unit



#### Smart humidity control

It is the first time that Gree combines temperature, humidity and energy efficiency variables to form the optimal temperature and humidity curve of human body with energy saving, and select the most comfortable humidity range, so that comfort and energy saving can be available by the users at the same time.

### **C**lothes drying function

Clivia is specially designed with the continuous dehumidification function, which can meet the daily need for drying clothes. User doesn't need to place a dehumidifier at home and just an air conditioner can achieve both cooling and clothes drying.



## WALL-MOUNTED TYPE

GREE



Humidity is controllable

Clivia can also operate according to the humidity set by the user, considerate for every special demand of the user.



Auto light sensor

Clivia has a built-in light sensor that automatically senses the light changes in the surrounding environment of the unit. It automatically increases the light during the day to make it clearly seen and decreases it at night to make it not irritating to eyes.

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## Simple installation and maintenance offer you worry-free use

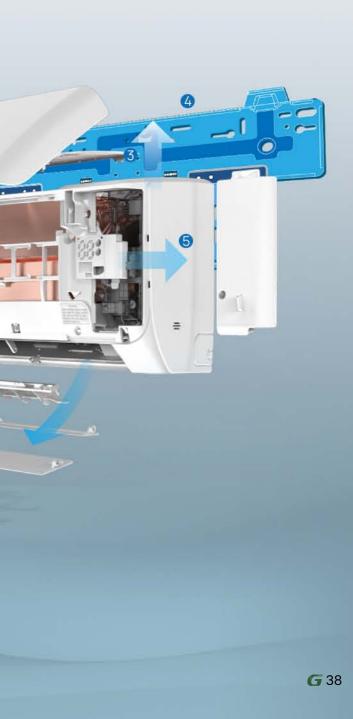
- **1** Quick mainboard disassembly design enables easy disassembly and maintenance by opening the panel only;
- 2 Air outlet is easy to remove for washing;
- sembled the unit;
- **4** English installation scale available\*; clasp is enlarged to increase the pipe connection space for the convenience of installation.





\*Note:This function is optional

3 Integrated overhead filter can be disassembled directly for cleaning, no need to disas-



























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m	)
. T.,	11
24	1

Turbo
Turbo

$\langle \rangle$
Wide
_

Low	





#### Aphro Features: Standard Optional LED A LED Display 7 Fan Speeds Quiet Design 24-hour Timer Clock Timer Child Lock Auto **U** Auto\* X-faṇt Intelligent Auto-restart Three Sleep Modes Auto I-Feel X-Fan IDU Self-cleaning V Low 2 ţ **E** Low Voltage Startup Fire-proof Electric Box Refrigerant Shortage Protection Anti-corrosion Protection of Outdoor Unit Soft Start Self-diagnosis

#### WALL-MOUNTED TYPE

















Multi-functional Filters





Wide Voltage Range



Anti-corrosion Fin



# **FLOOR-STANDING TYPE**

• 47/ Kimbe II

• 50/ Flowind II



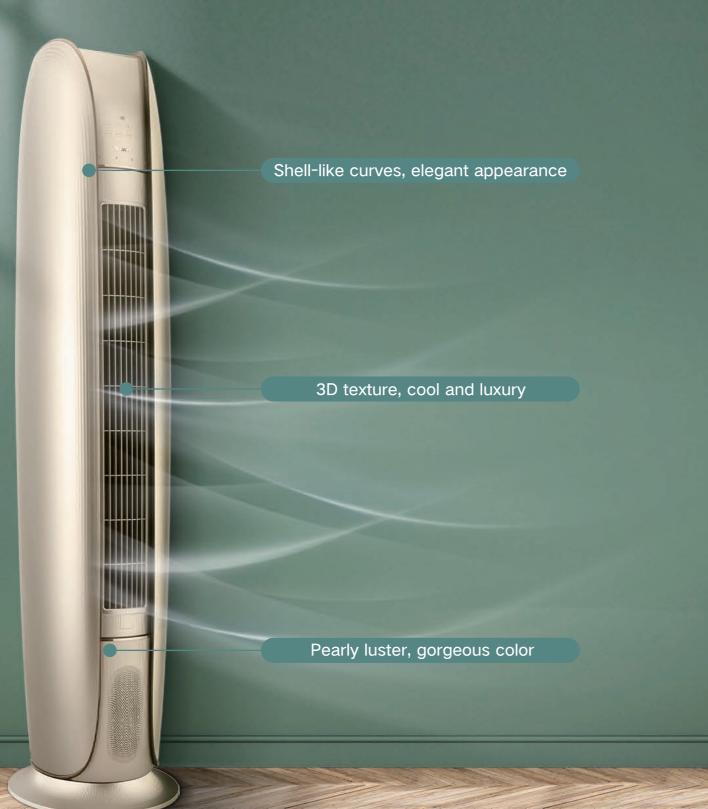


## • 49/ I-Shine

• 51/ T-Series

## Kimbe II

## Shell-like Curves Elegant Appearance



#### Features: Standard Optional





LED Display L

Z Fan Craad

**S** Auto

wifi (

Comfortable Sleeping Mode Modes

Three Sleep A Modes

#### FLOOR-STANDING TYPE



**Ø** 

Intelligent Auto-restart LCD Display 7 Fan Speeds Quiet Design 24-hour Timer

X-fant





IDU Self-cleaning



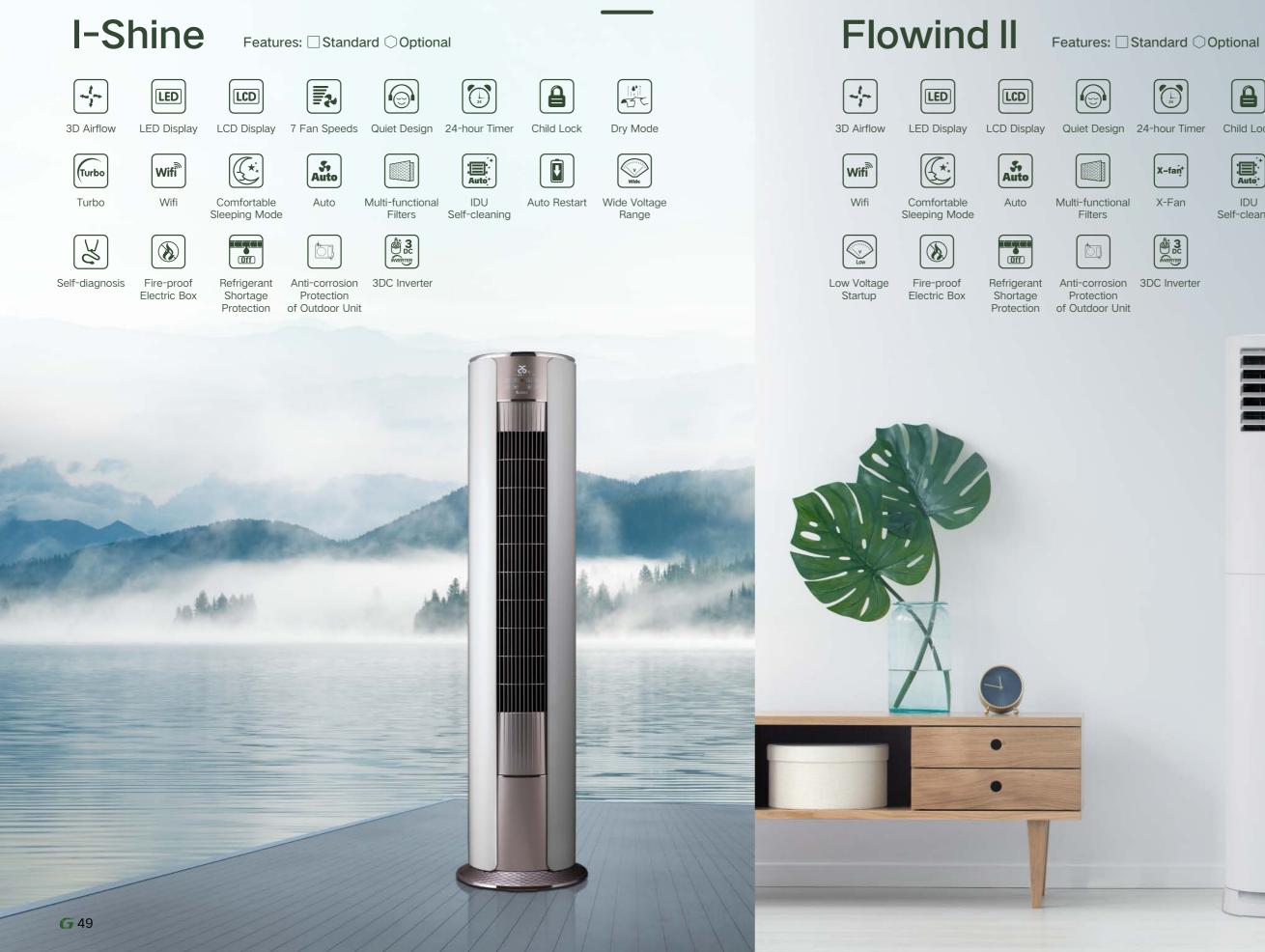
Turbo



Self-diagnosis



#### **FLOOR-STANDING TYPE**



#### **FLOOR-STANDING TYPE**





X-Fan



Auto





Dry Mode





Turbo



Auto Restart Wide Voltage Range





## **T-Series**

#### Various floor-standing type

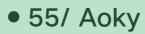




**G** 52







# Aoky



UN.

GREE

**G** 55



# PORTABLE TYPE

5 GREE

## PORTABLE TYPE



• 59/ Aovia

#### PORTABLE AIR CONDITIONER



Note: X-Fan is limited to some models. Multiple fan speeds function is optional for 7k and 9k.





# DEHUMIDIFIER

## • 63/ Zoomhunt

• 65/ Aomi

#### DEHUMIDIFIER



#### Adopted all DC inverter

It adopts DC biorotor compressor and DC motor to establish all DC inverter system to improve the performance of the complete unit, more quiet, efficient and energy-saving.

#### Powerful dehumidification

Aopt the centrifugal fan with big impeller; the air volume is up to 1260m3/h;

Thanks to the big air inlet design, the heat exchange efficiency is improved greatly and it can achieve dehumidification capacity of 180L/day for efficient dehumidification.

#### Low noise operation

Adopt the DC quiet air duct system combined with innovative centrifugal blade; Noise as low as 52dB under high fan speed; noise is down to 46dB under log fan speed.

#### Big LCD display screen

Human-machine interaction is adopted; the operation status of the unit is displayed and the ambient humidity is monitored at real time, convenient for operation.

#### Automatic humidity control

The humidity can be set within 35%~80%; when ambient humidity is higher/lower than the set humidity, the dehumidification will be turned on/off humidity.

#### Multiple dehumidication modes

It 's with three dehumidify modes for various requirements: turbo, eco and auto modes.





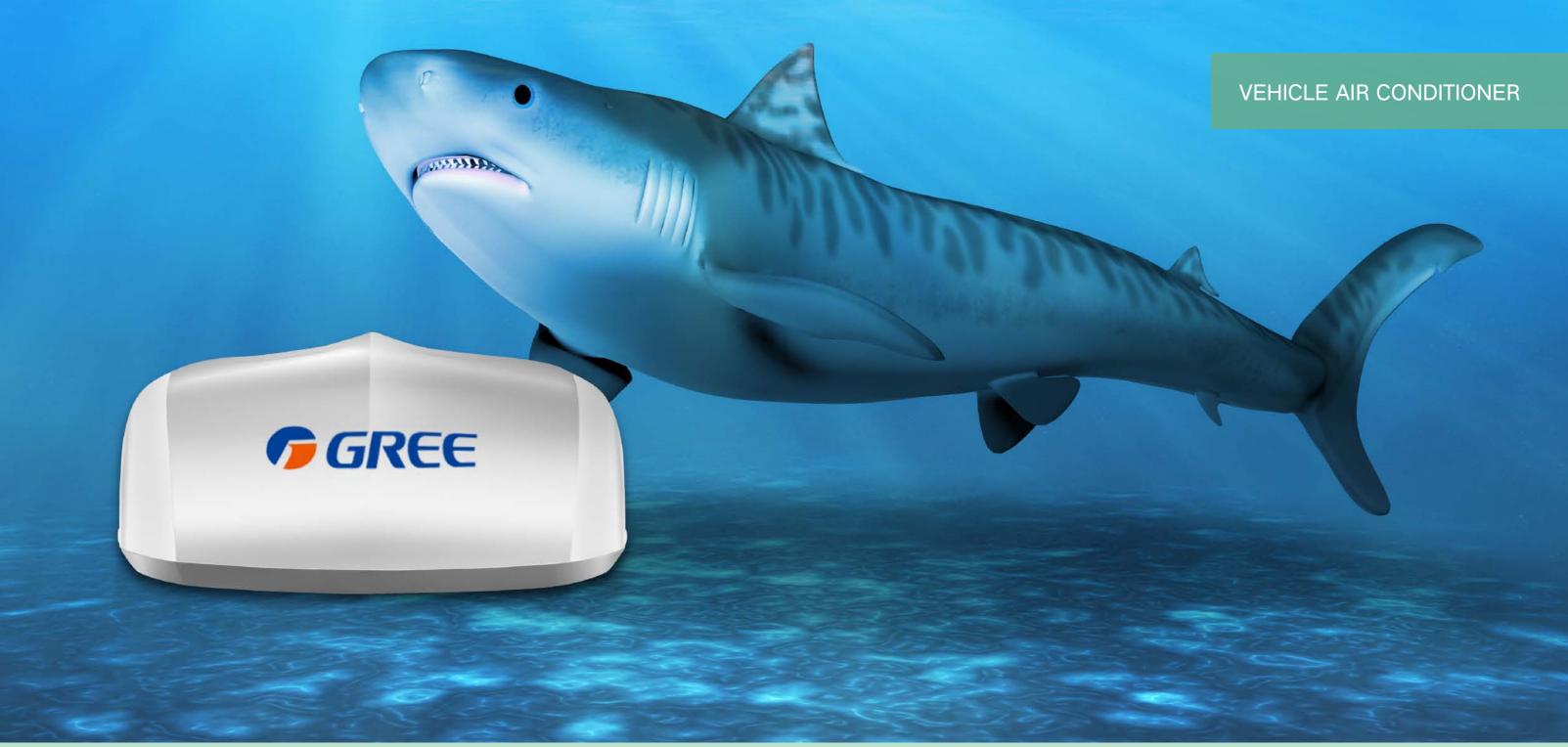


### DEHUMIDIFIER









# VEHICLE **AIR CONDITIONER**

• 69/ Shark

• 71/ Gocool

## Shark

Unique appearance with imitation shark outline.



### **VEHICLE AIR CONDITIONER**







کل



Self-diagnosis Filter Cleaning Reminder

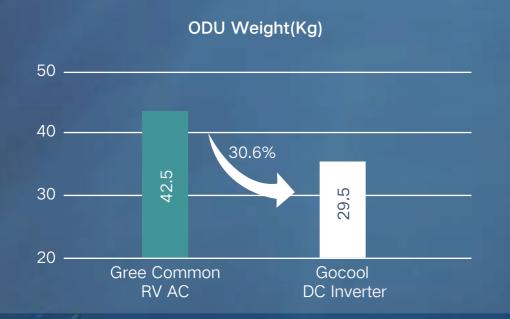


## Gocool

### Compact Size

We use high quality PP plastic for the casing of the outdoor unit (EPP foam for the base) to ensure a solid body. The weight of the outdoor unit is down by 30.6%, which lowers the gravity center of the vehicle and makes the driving agile and steady. Flexible material is adopted to reduce mechanical vibration and avoid sympathetic vibration, enabling a quiet space inside the vehicle.







### **VEHICLE AIR CONDITIONER**









Reminder



Auto Restart Self-diagnosis Filter Cleaning



Multi-functional Filters

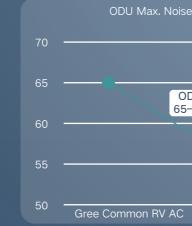
### Strong Performance

Gocool is equipped with a brand new type vertical heat exchanger and a high-performance rotary compressor to improve heat exchange efficiency. It achieves greater improvement both in cooling and heating capacity, providing ultimate comfort for your travel.



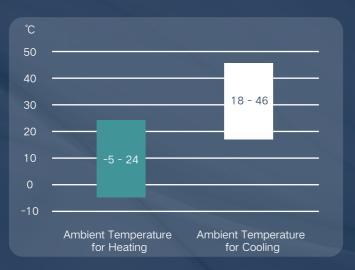
### **Efficient Noise Reduction**

The new air duct design is optimized through the Computational Fluid Dynamics(CFD) technology. Gocool features a super high airflow rate and ultimate quiet operation. The indoor unit noise is lowered by 3dB(A) while the outdoor unit noise is decreased by 11dB(A).



### No Fear for Extreme Weather

Even under extreme weather conditions such as scorching heat and bitter cold, Gocool can still work effectively, with no fear for deserts or snowfields, which is great for travel.



Level dB(	A)	
0U Noise -54dB(A)		
	•	
	Gocool	

# LIGHT COMMERCIAL

- 81/ Free Match
- 89/ Air-cooled Packaged Unit
- 91/ Big-Ducted Type Unit
- 94/ U-Match



## **Icon Interpretation**

#### SOME PARTS

## $\bigcirc$ High O 5

#### Anti-corrosion fin

The anti-corrosion performance of golden fins is 3 times better than ordinary fins.

#### Inner groove copper

Special thickened inner groove copper tube enhances heat exchanging performance.

#### Built-in drain pump

The drain pump can pump the condensation to a high level. It facilitates condensation draining from the indoor unit and makes the installation of indoor unit easier.

#### Washable filter

Filters are easy to dismantle and install. You can use dirt collector or water to clear away the dust.

#### **COMFORTABLE & HEALTHY**

## 

0

(Turbo

#### Horizontal auto swing

The air guide louver can move horizontally for efficient air and temperature distribution in the room.

#### Vertical auto swing

The air guide louver can move vertically for efficient air and temperature distribution in the room.

#### Anti-cold

The indoor unit will not blow in winter if the air is not warm enough.

#### Turbo

The unit cools and heats the room rapidly to make vou feel more comfortable (cool or warm).

#### **HIGH EFFICIENCY & ENERGY SAVING**

#### **High efficiency**

The air conditioner is designed to high energy efficiency and to realize power saving.

#### Intelligent defrosting

Defrosting is performed intelligently when necessary to improve the heating efficiency and save energy.



#### setting is only in limited range, so as to save energy.

All DC inverter technology

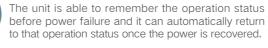
Energy saving function

All motors adopts the DC inverter technology to greatly improve the energy efficiency.

When this function is activated, the temperature

#### CONVENIENCE

#### Auto restart



#### Compact design



The unit is designed with smaller dimension, which is easy to install and transport for saving cost.

#### RELIABILITY

#### Self-cleaning

When the unit is turned off, indoor fan will still run at the low speed for a while to dry inner components and parts, thus preventing mildew and keeping users healthy.

#### Self-diagnosis

Error codes are shown on the display panel when there are any fault, easy for maintenance.



Auto<sup>+</sup>

Low voltage startup

The unit is able to be started up safely under low voltage.

#### VERSATILITY

#### High ESP



Wide

i Wide

The external static pressure range is higher, which ensures longer delivery distance for air to provide powerful cooling.

#### Wide voltage range

The unit can operate in a wide range of voltage for greatly reducing the impact of voltage fluctuation.

#### Wide operation range

The unit can operate in wide range, greatly reducing the ambient temperature limitation.











### comfortable.

**Quality motor** 

tv and saves energy.

bility of the unit.

Auxiliary electric heater

noise.

-M

~下

Quality motor enables stable operation and low

Auxiliary heater greatly improves heating capaci-

One indoor unit can be connected with two

wired controllers to realize controlling of the

The total length of connection pipe reaches

1000m, which greatly improves the project flexi-

same indoor unit from different control points.

Slave and master wired controller

Long connection pipe design

the ultra-low fan speed.

Quiet design The unit operates with the lowest noise under

Comfortable sleeping mode After setting the "sleeping mode", set temperature and indoor noise can be adjusted for more



#### Easier maintainability

The unit is designed to be easier for maintenance and component replacement.

#### Auto addressing technology

The new generation of indoor unit applies auto addressing technology, which greatly reduces project debugging time and error rate.



#### Low temperature heating

The unit is able to start and operate in normal when the ambient temperature is lower than -20°C and heating capacity remains still.

#### Modular operating

Several units can operate together as modules, so that capacity output control is more precise, and also higher reliability.

#### Comprehensive protection

The unit is designed with various of protection functions to ensure the reliability.



#### Multiple fan speeds

Multiple fan speeds are provided to satisfy different requirements for the air volume.

#### Modular structure

High efficiency compressor presents reliable performance.



## **Icon Interpretation**

#### CONTROLLER

#### 24-hour timer

The unit can be turned on or turned off by timer setting at anytime in a day (the timer interval is 5-minute).

#### Weekly timer

The unit can be set to start heating or cooling anytime on a daily or weekly basis.

#### °C/°F switch

Under off status, press MODE and " - " buttons simultaneity to switch °C/°F.



°F **°C** 

Week

Clock display Time is shown on the remote controller .

#### Child lock



#### It avoids children's misoperation on the remote controller.

#### Key-card control

The key-card control function is specially designed for hotel rooms. After removing the key-card, the air conditioner will automatically switch to standby status.







#### **Centralized control** Turn on, turn off and regulate the from a distance.

distance.

Shield function

ing function, etc.

Long-distance monitoring

Long-distance monitoring enables the unit to

be controlled and monitored from a long

Remote control the indoor unit and shield the

functions of wired controller, such as ON/OFF, temp or mode setting, energy-sav-

Adopts the technologies of auto addressing,

non-polar communication and auto debugging, which improves the project efficiency.

Human engineering operation





# Floor heating debugging

As for the first floor heating debugging, the floor should be preheated in segment to prevent deformation due to thermal expansion and contraction caused by rapid change of temperature.

## **Products Overview**



Light Commercial	Capacity(kw/h)	20	25	28	30	35	40	45	50	55	60	Page
Air-cooled Packaged Unit	DC Inverter			•								89
Big-Ducted Type Unit (High Capacity Series)	DC Inverter	•	•		•		•		•		•	91
Eig-Ducted Type Unit (Cooling Only)	DC Inverter/ On-Off		•		•		•		•		•	92







21000	24000	28000	30000	36000	42000	60000	Page
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	•		٠	•	•	•	81

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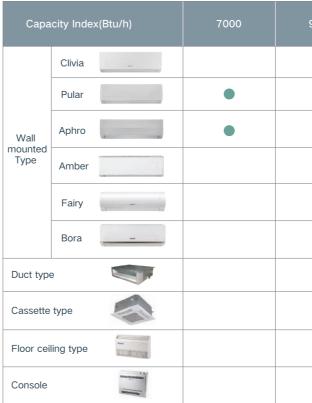


## Free Match



- - GREE HIШШ





#### Control system lineup

Product series Control system		Duct type	Cassette type	Floor ceiling type	Console type	
Wired	XK76		•	•	•	•
controller	XK19		٠	•	•	
Centralized	CE50-24/E		٠	٠	•	٠
controller	CE52-24/F(C)		•	•	•	•

ltem	Norr	mal operating co	ndition(temperatu	Operation range (temperature)	Operating condition (temperature)		
	Outdoor c	condition	Indoor c	ondition	Outdoor condition	Outdoor condition (LC)(LH)	
	DB(°C)	WB(°C)	DB(°C)	WB(°C)	DB(°C)	DB(°C)	
Cooling	35	24	27	19	18~43	-15~43	
Heating	7	6	20	15	-15~24	-22~24	

	Two ind	oor units		Two ind	oor units
	07+07	09+09		07+07	09+09
	07+09	09+12		07+09	09+12
14k	07+12	/	18k	07+12	12+12



			402
9000	12000	18000	24000
•	•	•	
•	•	•	•
•	•	•	•
•	•	•	•
•	•	•	•
•	•	•	•
•	•	•	•
•	•	•	•
•	•	•	•
•	•	•	

	Two indo	oor units	Three indoor units		
2	07+07	09+09	07+07+07	09+09+09	
	07+09	09+12	07+07+09	09+09+12	
	07+12	09+18	07+07+12	/	
21k	07+18	12+12	07+09+09	/	
-	/	12+18	07+09+12	/	
	/	1	07+12+12	1	

	Two indo	oor units	Three indoor units		
	07+07	09+09	07+07+07	09+09+09	
	07+09	09+12	07+07+09	09+09+12	
	07+12	09+18	07+07+12	09+09+18	
	07+18	12+12	07+07+18	09+12+12	
24k	/	12+18	07+09+09	12+12+12	
	/	18+18	07+09+12	/	
	/	1	07+09+18	/	
	/	1	07+12+12	/	

	Two indoor units	Three ind	loor units	Four inc	loor units
	07+07	07+07+07	09+09+09	07+07+07+07	07+09+09+09
	07+09	07+07+09	09+09+12	07+07+07+09	07+09+09+12
	07+12	07+07+12	09+09+18	07+07+07+12	07+09+12+12
	07+18	07+07+18	09+12+12	07+07+07+18	09+09+09+09
MAST_	09+09	07+09+09	09+12+18	07+07+09+09	09+09+09+12
28k	09+12	07+09+12	12+12+12	07+07+09+12	09+09+12+12
	09+18	07+09+18	12+12+18	07+07+09+18	1
	12+12	07+12+12	/	07+07+12+12	/
	12+18	07+12+18	/	/	/
	18+18	/	/	/	/

	Two indoor units		Three inc	door units		Four indoor units	;
	07+12	12+12	07+07+07	09+09+09	07+07+07+07	07+09+09+09	09+09+09+09
	07+18	12+18	07+07+09	09+09+12	07+07+07+09	07+09+09+12	09+09+09+12
	07+24	12+24	07+07+12	09+09+18	07+07+07+12	07+09+09+18	09+09+09+18
	09+09	18+18	07+07+18	09+09+24	07+07+07+18	07+09+09+24	09+09+09+24
AND 2	09+12	18+24	07+07+24	09+12+12	07+07+07+24	07+09+12+12	09+09+12+12
	09+18	24+24	07+09+09	09+12+18	07+07+09+09	07+09+12+18	09+09+12+18
ANGELON -	09+24	/	07+09+12	09+12+24	07+07+09+12	07+09+12+24	09+09+12+24
36k	/	/	07+09+18	09+18+18	07+07+09+18	07+09+18+18	09+09+18+18
	/	/	07+09+24	09+18+24	07+07+09+24	07+12+12+12	09+12+12+12
	/	/	07+12+12	12+12+12	07+07+12+12	07+12+12+18	09+12+12+18
	/	/	07+12+18	12+12+18	07+07+12+18	/	12+12+12+12
	/	/	07+12+24	12+12+24	07+07+12+24	/	12+12+12+18
	/	/	07+18+18	12+18+18	07+07+18+18	/	/
	/	/	07+18+24	18+18+24	/	/	/

	Two indoor units	Three in	door units	Four inc	loor units	Five ind	oor units
	07+18	07+07+07	09+09+09	07+07+07+07	09+09+09+09	07+07+07+07+07	07+09+09+09+09
	07+24	07+07+09	09+09+12	07+07+07+09	09+09+09+12	07+07+07+07+09	07+09+09+09+12
	09+12	07+07+12	09+09+18	07+07+07+12	09+09+09+18	07+07+07+07+12	07+09+09+09+18
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	18+24	07+12+12	09+24+24	07+07+12+12	09+12+12+12	07+07+07+12+12	07+09+12+12+18
	24+24	07+12+18	12+12+12	07+07+12+18	09+12+12+18	07+07+07+12+18	07+12+12+12+12
	1	07+12+24	12+12+18	07+07+12+24	09+12+12+24	07+07+07+12+24	07+12+12+12+18
	1	07+18+18	12+12+24	07+07+18+18	09+18+18+18	07+07+07+18+18	09+09+09+09+09
	1	07+18+24	12+18+18	07+07+18+24	12+12+12+12	07+07+07+18+24	09+09+09+09+12
	/	07+24+24	12+18+24	07+07+24+24	12+12+12+18	07+07+09+09+09	09+09+09+09+18
42k	/	/	12+24+24	07+09+09+09	12+12+12+24	07+07+09+09+12	09+09+09+09+24
	/	/	18+18+18	07+09+09+12	12+12+18+18	07+07+09+09+18	09+09+09+12+12
	1	/	18+18+24	07+09+09+18	/	07+07+09+09+24	09+09+09+12+18
	1	/	/	07+09+09+24	/	07+07+09+12+12	09+09+09+12+24
	/	/	/	07+09+12+12	/	07+07+09+12+18	09+09+09+18+18
	1	/	/	07+09+12+18	/	07+07+09+12+24	09+09+12+12+12
	1	/	/	07+09+12+24	/	07+07+09+18+18	09+09+12+12+18
	/	/	/	07+09+18+18	/	07+07+12+12+12	09+12+12+12+12
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	/	/	/	07+12+12+18	/	07+07+12+18+18	/
	/	/	/	07+12+12+24	/	/	/
	/	/	/	07+12+18+18	/	/	/
	/	/	/	07+12+18+24	/	/	/
	/	/	/	07+18+18+18	/	/	/

### **2410**A

Capacity Index(kW)	9000	12000	18000	21000	24000
Lomo	•	•	•		•
Duct type	•	٠	•	٠	•
Cassette type		•	•		•
Floor ceiling type	•	٠	•		•

ltem	Outdoor operating condition(temperature *F)
Cooling	23~118
Heating	5~75

#### 50Hz

	Two indoor units
	9+9
GWHD(18)NK3QO	9+12
	12+12

	Two indoor units	Three indoor units
	9+9	9+9+9
	9+12	9+9+12
GWHD(24)NK3QO	9+18	9+9+18
	12+12	9+12+12
	12+18	12+12+12
	18+18	/

	Two ind	oor units	Three indoor units	Four indoor units
	09+09	12+12	9+9+9	9+9+9+9
	09+12	12+18	9+9+12	9+9+9+12
	09+18	18+18	9+12+12	1
GWHD(28)NK3QO	/	/	9+9+18	/
	/	/	9+12+18	/
	/	/	12+12+12	/
	/	/	12+12+18	/
-	/	/	/	/

	Two ind	oor units	Three inc	door units	Four ind	oor units
	9+9	21+21	9+9+9	9+21+21	9+9+9+9	9+12+12+21
	9+12	21+24	9+9+12	9+21+24	9+9+9+12	12+12+12+12
	9+18	24+24	9+9+18	12+12+12	9+9+9+18	12+12+12+18
	9+21	/	9+9+21	12+12+18	9+9+9+21	/
	9+24	/	9+9+24	12+12+21	9+9+9+24	/
GWHD(36)NK3QO	12+12	/	9+12+12	12+12+24	9+9+12+12	/
	12+18	/	9+12+18	12+18+18	9+9+12+18	/
	12+21	/	9+12+21	12+18+21	9+9+12+21	/
	12+24	/	9+12+24	12+18+24	9+9+12+24	/
	18+18	/	9+18+18	12+21+21	9+9+18+18	/
	18+21	/	9+18+21	18+18+18	9+12+12+12	/
	18+24	/	9+18+24	/	9+12+12+18	/

	Two indoor units	Three ind	oor units	Four inde	oor units	Five indoor units
	9+9	9+9+9	12+12+12	9+9+9+9	9+12+12+18	9+9+9+9+9
	9+12	9+9+12	12+12+18	9+9+9+12	9+12+12+21	9+9+9+9+12
	9+18	9+9+18	12+12+21	9+9+9+18	9+12+12+24	9+9+9+9+18
	9+21	9+9+21	12+12+24	9+9+9+21	9+12+18+18	9+9+9+9+21
	9+24	9+9+24	12+18+18	9+9+9+24	9+12+18+21	9+9+9+9+24
	12+12	9+12+12	12+18+21	9+9+12+12	9+12+18+24	9+9+9+12+12
	12+18	9+12+18	12+18+24	9+9+12+18	9+18+18+18	9+9+9+12+18
GWHD(42)NK3QO	12+21	9+12+21	12+21+21	9+9+12+21	12+12+12+12	9+9+9+12+21
	12+24	9+12+24	12+21+24	9+9+12+24	12+12+12+18	9+9+9+12+24
	18+18	9+18+18	12+24+24	9+9+18+18	12+12+12+21	9+9+9+18+18
	18+21	9+18+21	18+18+18	9+9+18+21	12+12+12+24	9+9+12+12+12
	18+24	9+18+24	18+18+21	9+9+18+24	12+12+18+18	9+9+12+12+18
	21+21	9+21+21	18+18+24	9+9+21+21	12+12+18+21	9+9+12+12+21
	21+24	9+21+24	18+21+21	9+9+21+24	/	9+12+12+12+12
	24+24	9+24+24	18+21+24	9+12+12+12	/	9+12+12+12+18
	/	/	/	/	/	12+12+12+12+12

#### 60Hz

	Two indoor units
101	9+9
18k	9+12
	12+12

	Two indoor units	Three indoor units
	9+9	9+9+9
0.41-	9+12	9+9+12
24k	9+18	9+9+18
	12+12	9+12+12
	12+18	12+12+12
	18+18	/

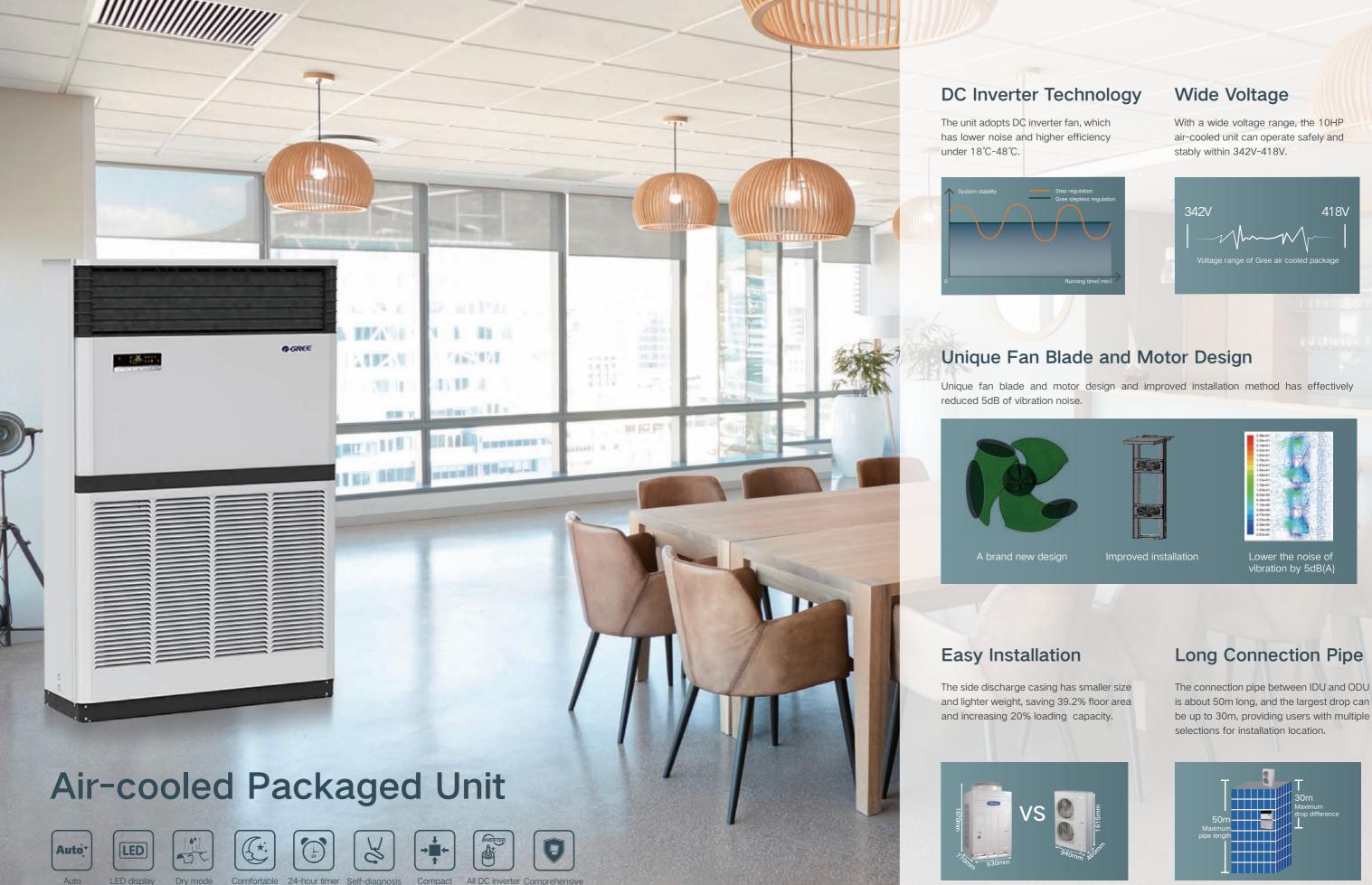
	Two indoor units	Three indoor units	Four indoor units	
	9+9	9+9+9	9+9+9+9	
	9+12	9+9+12	9+9+9+12	
30k	9+18	9+12+12	9+9+9+18	
ook	12+12	9+9+18	9+9+12+12	
	12+18	9+12+18	/	
	18+18	12+12+12	/	
	/	12+12+18	/	



	Two ind	oor units	Three inc	door units	Four indo	oor units
	9+9	21+21	9+9+9	9+21+21	9+9+9+9	9+12+12+21
	9+12	21+24	9+9+12	9+21+24	9+9+9+12	12+12+12+12
	9+18	24+24	9+9+18	12+12+12	9+9+9+18	12+12+12+18
	9+21	/	9+9+21	12+12+18	9+9+9+21	/
36k	9+24	/	9+9+24	12+12+21	9+9+9+24	/
JOK	12+12	/	9+12+12	12+12+24	9+9+12+12	/
	12+18	/	9+12+18	12+18+18	9+9+12+18	/
	12+21	/	9+12+21	12+18+21	9+9+12+21	/
	12+24	/	9+12+24	12+18+24	9+9+12+24	/
	18+18	/	9+18+18	12+21+21	9+9+18+18	1
	18+21	/	9+18+21	18+18+18	9+12+12+12	/
	18+24	/	9+18+24	/	9+12+12+18	/

	Two indoor units	Three ind	oor units	Four inc	loor units	Five indoor units
	9+9	9+9+9	12+12+12	9+9+9+9	9+12+12+18	9+9+9+9+9
	9+12	9+9+12	12+12+18	9+9+9+12	9+12+12+21	9+9+9+9+12
	9+18	9+9+18	12+12+21	9+9+9+18	9+12+12+24	9+9+9+9+18
	9+21	9+9+21	12+12+24	9+9+9+21	9+12+18+18	9+9+9+9+21
	9+24	9+9+24	12+18+18	9+9+9+24	9+12+18+21	9+9+9+9+24
	12+12	9+12+12	12+18+21	9+9+12+12	9+12+18+24	9+9+9+12+12
	12+18	9+12+18	12+18+24	9+9+12+18	9+18+18+18	9+9+9+12+18
42k	12+21	9+12+21	12+21+21	9+9+12+21	12+12+12+12	9+9+9+12+21
	12+24	9+12+24	12+21+24	9+9+12+24	12+12+12+18	9+9+9+12+24
	18+18	9+18+18	12+24+24	9+9+18+18	12+12+12+21	9+9+9+18+18
	18+21	9+18+21	18+18+18	9+9+18+21	12+12+12+24	9+9+12+12+12
	18+24	9+18+24	18+18+21	9+9+18+24	12+12+18+18	9+9+12+12+18
	21+21	9+21+21	18+18+24	9+9+21+21	12+12+18+21	9+9+12+12+21
	21+24	9+21+24	18+21+21	9+9+21+24	/	9+12+12+12+12
	24+24	9+24+24	18+21+24	9+12+12+12	/	9+12+12+12+18
	/	/	/	/	/	12+12+12+12+12

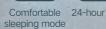
	Two indoor units	Three inc	door units	F	our indoor uni	ts	Fve ind	oor units
	9+9	9+9+9	12+12+21	9+9+9+9	9+12+12+12	12+12+12+12	9+9+9+9+9	9+9+12+12+24
	9+18	9+9+12	12+12+24	9+9+9+12	9+12+12+18	12+12+12+18	9+9+9+9+12	9+9+12+18+18
	9+21	9+9+18	12+18+18	9+9+9+18	9+12+12+21	12+12+12+21	9+9+9+9+18	9+9+12+18+21
	9+24	9+9+21	12+18+21	9+9+9+21	9+12+12+24	12+12+12+24	9+9+9+9+21	9+9+12+18+24
	12+12	9+9+24	12+18+24	9+9+9+24	9+12+18+18	12+12+18+18	9+9+9+9+24	9+9+12+21+21
	12+18	9+12+12	12+21+21	9+9+12+12	9+12+18+21	12+12+18+21	9+9+9+12+12	9+12+12+12+12
	12+21	9+12+18	12+21+24	9+9+12+18	9+12+18+24	12+12+18+24	9+9+9+12+18	9+12+12+12+18
48k	12+24	9+12+21	12+24+24	9+9+12+21	9+12+21+21	12+12+21+21	9+9+9+12+21	9+12+12+12+21
	18+18	9+12+24	18+18+18	9+9+12+24	9+12+21+24	12+12+24+24	9+9+9+12+24	9+12+12+12+24
	18+21	9+18+18	18+18+21	9+9+18+18	9+12+24+24	12+18+18+18	9+9+9+18+18	9+12+12+18+18
	18+24	9+18+21	18+18+24	9+9+18+21	9+18+18+18	12+18+18+21	9+9+9+18+21	9+12+12+18+21
	21+21	9+18+24	18+21+21	9+9+18+24	9+18+18+21	12+18+18+24	9+9+9+18+24	12+12+12+12+12
	21+24	9+21+21	18+21+24	9+9+21+21	9+18+18+24	12+18+21+21	9+9+9+21+21	12+12+12+12+18
	24+24	9+21+24	21+21+21	9+9+21+24	9+18+21+21	/	9+9+9+21+24	12+12+12+12+21
	/	9+24+24	21+21+24	9+9+24+24	9+18+21+24	/	9+9+12+12+12	12+12+12+12+24
	/	12+12+12	21+24+24	/	9+21+21+21	/	9+9+12+12+18	12+12+12+18+18
	/	12+12+18	24+24+24	/	/	/	9+9+12+12+21	/





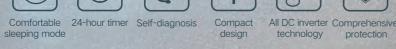








design



**G**89

is about 50m long, and the largest drop can be up to 30m, providing users with multiple







### **Heat Pump Series**



It is a kind of split system that can be connected with air duct to realize cooling/heating in subdivided area.









25/30

If the capacity of outdoor unit is more than 40kW, two outdoor units are needed for the operation of one indoor unit.



**.** 









Washable filter Inner groove copper







 $\sim$ 

Self-diagnosis

Wide

Wide operation

50/60



Long connection pipe design

- · All dc inverter for high efficiency and energy saving.
- · High static units for longer ducted runs.
- ESP is up to 250Pa\*.
- · Static pressure is adjustable.
- · Indoor fan can be adjusted according to the static pressure ofair duct installed by customers.

\*This function is only fit for 20~40kw product models.

		Operating range (temperature)			
Item	Outdoor condition		Indoor	condition	Outdoor condition
	DB (°C)	WB (°C)	DB (°C)	WB (°C)	DB (°C)
Cooling	35	24	27	19	-7°℃~48°C
Heating	7	6	20	15	-15℃~24℃

## **Cooling Only**

UMLD250/300/400 inverter unit; UML500/600 fixed-speed unit.



25/30/40





Quality motor

High ESP

Self-diagnosis

- Golden fin pre-coated condenser coils, improving durability in the corrosive environments.
- Precision EXV refrigerant metering, optimum running in the whole operating range.

		Operating range (temperature)				
Item Outdoo		condition	Indoor condition		Outdoor condition	
	DB (°C)	WB (°C)	DB (°C)	WB (°C)	DB (°C)	
Cooling	35	24	27	19	18°C~48°C	















• Factory installed crankcase heater, improving compressor reliability at low ambient temperature.



#### **Control System Lineup**

Control system		Product series	Heat pump series	Cooling only
Wired controller	XK46		•	•
Wireless remote controller	YAP1F		0	0
MODBUS gateway	ME30-24/E7(M)	Geree namon	0	0
Centralized controller (up to 36 indoor units )	CE52-24/F(C)		0	0

Note: means standard, Omeans optional.

### **U-Match**

#### R32 Inverter Series (Heat Pump)

U-MATCH is an air conditioning product in which the outdoor unit is generally designed to be matched with different types of indoor units (duct type, cassette type, floor ceiling type), saving the cost of warehouse management and after-sales maintenance.

The cooling capacity ranges from 3.5kW to 16kW, applicable to houses, hotels, restaurants, stores, office buildings, etc.



» 5H health protection: fresh air provision for the entire range of indoor units, optional healthy and sterilizing accessories; multiple air purification methods to ensure quality air in real time. » Originally designed bionic fan blades and low noise compressor lower indoor unit sound level to 28dB. » Adopt high precision temperature and humidity dual sensors (±0.5°C) to fully consider the impact of humidity on thermal comfort, reduce excessive dehumidification and substantially improve the level of comfort through intelligent correction of indoor temperature and humidity.

» WiFi module for remote APP control; smart sensor, with 360° temperature field detection, can automatically adjust airflow direction and the air conditioner's operation status by detecting the positions of occupants in the room. » When installing the unit, wiring and piping can be done without opening the casing, saving installation time. » Single fan compact design for outdoor units of the whole series, for the ease of transportation and installation » Provide different debugging tools, for example, the portable debugger, which can monitor real-time operating parameters, set unit parameters and store underlying data; the monitoring and debugging software can remotely monitor operating conditions and parameters. After-sales personnel can check the monitored data to locate errors. Troubleshooting is more accurate and efficient.

#### Indoor Unit

#### Duct type

» Fresh air inlet and air valve control function improve the indoor air quality. » Flexible air inlet/outlet and condensing water outlet direction based on different installation requirements.

» Optimized air duct design improves the performance and lowers the noise.

» Built-in drain pump with increased lift of 1000mm.

» High ESP design, max ESP is up to 200 Pa.

### with increased lift of 1000mm. » Special low noise fan design. » Equipped with 360 air discharge

\_

air supply.

INVERTER 32





#### Cassette type

» Drain pump filled as standard

- panel, providing more comfortable

Floor ceiling type

- » 3D air flue design.
- » Modern and elegant appearance.
- » Four levels of fan speed.
- » Wide swing angles.



		Operating range(temperature)				
ltem Outdo		or condition	Indoor condition		Outdoor condition	
	DB(°C)	WB(°C)	DB(°C)	WB(°C)	DB(°C)	
Cooling	35	24	27	19	-15-48°C	
Heating	7	6	20	15	-15-24°C	

#### Units Lineup

Car	pacity index	35	50	71	85	100	125	140	160
Outdoor unit	220-240V ~1Ph~50/60Hz								
	380-415V ~3Ph~50/60Hz	/	/	/	/	/			<b>V</b>
	Duct (without water pump)	4							
Indoor unit	Duct (with water pump)		4						
	Cassette								
	Floor ceiling							THE PARTY OF THE P	

### Control System Lineup

Controlling system	Model	Outlook
Remote Controller	YAP1F	
Hernole Controller	YAP1F7	
Wired controller	XE7A-24/H	
Wired controller ( WiFi )	XE7A-24/HC	- O + NACTOR JAN DITE
Duct unit LED panel ( matched with remote controller )	JS13	
Access control	LE60-24/H1	· · · · ·
Centralized controller -	CE52-24/F(C)	
	CE58-00/EF(CM)	35 27 20 20 1
Modbus gateway	ME50-00/EG(M)	Concept
Wired controller -	XE7C-24/H	* 26.0
vvirea controller	XE7C-24/HC	Image: Control         Image:

Note: ● means standard, O means optional. \*This product model is under developemnt. Please confirm the final specifications with sales representatives.

Duct	Cassette	Floor ceiling
0	0	0
0	•	•
•	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0



### **U-Match**

#### R32 Inverter Series (Cooling Only)

U-MATCH is an air conditioning product in which the outdoor unit is generally designed to be matched with different types of indoor units (duct type, cassette type, floor ceiling type), saving the cost of warehouse management and after-sales maintenance.

The cooling capacity ranges from 3.5kW to 16kW, applicable to houses, hotels, restaurants, stores, office buildings, etc.



» 5H health protection: fresh air provision for the entire range of indoor units, optional healthy and sterilizing accessories, multiple air purification methods to ensure quality air in real time.

\_\_\_\_\_

» The original bionic fan blades and noise-reducing compressor can reduce the noise of indoor unit.

 $\gg$  Adopt high precision temperature and humidity dual sensors (±0.5°C) to fully consider the impact of humidity on thermal comfort, reduce excessive dehumidification and substantially improve the level of comfort through intelligent correction of indoor temperature and humidity.

WiFi module for remote APP control; smart sensor, with 360  $^{\circ}$  temperature field detection, can automatically adjust airflow direction and the air conditioner' s operation status by detecting the positions of occupants in the room.

» When installing the unit, wiring and piping can be done without opening the casing, saving installation time.

Single fan compact design for outdoor units of the whole series, for the ease of transportation and installation
Provide different debugging tools, for example, the portable debugger, which can monitor real-time operating parameters, set unit parameters and store underlying data; the monitoring and debugging software can remotely monitor operating conditions and parameters. After-sales personnel can check the monitored data to locate errors. Troubleshooting is more accurate and efficient.

#### Indoor Unit

#### Duct type

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Fresh air inlet and air valve control function improve the indoor air quality.

» Flexible air inlet/outlet and condensing water outlet direction based on different installation requirements.

» Optimized air duct design improves the performance and lowers the noise.

» Built-in drain pump with increased lift of 1000mm.

» High ESP design, max ESP is up to 200 Pa.

#### Cassette type

\_\_\_\_

》Drain pump filled as standard with increased lift of 1000mm.
》Special low noise fan design.

» Equipped with 360 °air discharge panel, providing more comfortable air supply.

Floor ceiling type

3D air flue design.
 Modern and elegant appearance.

(CE)

NUERTER 32

- Four levels of fan speed.
- Wide swing angles.
- » wide swing ang

		Operating range(temperature)			
Item	Outdoor condition		Indoor o	Outdoor condition	
	DB(°C)	WB(°C)	DB(°C)	WB(°C)	DB(°C)
Cooling	35	24	27	19	21-48°C

#### Units Lineup



85	100	125	140	160
	-			

**G** 98

#### Control System Lineup

Controlling system	Model	Outlook	Duct	Cassette	Floor ceiling
Remote Controller	YAW1F9 (WiFi)		0	•	•
Wired controller	XE7A-24/H		٠	0	0
Wired controller ( WiFi )	XE7A-24/HC		0	0	0
Duct unit LED panel ( matched with remote controller )	JS13		0	0	0
Access control	LE60-24/H1	P	0	0	0
Centralized controller	CE52-24/F(C)		0	0	0
Modbus gateway	ME50-00/EG(M)	*****	0	0	0
Wired controller	XE73-24/HC*	26.	0	0	0

Note:

• means standard, O means optional.

\*This product model is under developemnt. Please confirm the final specifications with sales representatives.

### **U-Match**

#### R410A DC Inverter

It is a kind of split system that the outdoor unit can be connected to various indoor units (duct and cassette type) with cooling capacity from 18K to 60K, which is designed for tropical areas.







» Anti-corrosion golden fins.

» Control drive board adopts refrigerant radiating technology.

» 3-layer anti-corrosion coating of PCB.

» Dust-proof and insect-proof electric box.

#### Indoor Unit

Duct type

» High static pressure duct unit is only 900mm in length (for 18K/24K).

» Adjustable static pressure, up to 9 static pressure levels with a maximum of 200Pa.

» Alterable air return modes. There are two air return modes: rear air return and bottom air return. » Two drainage methods are offered: natural drainage and pump drainage with the lift up to 1000mm.

#### \_

#### Floor ceiling

» There are two installation options for users to choose. » Air louvers can be completely closed to avoid dust. » The 2-way air return design enlarges air return area and increases air volume by 7%. » Large-angle swing design.

Cassette type

» Equipped with 360° air outlet panel for more comfortable air supply.

» Auto lifting panel for convenient filter cleaning.

» Closed wide air louver + independent air supply for

4 zones (programmable wired controller is required).

» Electric box designed for easy disassembly and servicing.

» Fireproof electrical box is adopted.



**2410**A

		Nominal operating condition (temperature)					
Item	Outdoor condition           DB (°C)         WB (°C)		Indoor condition		Outdoor condition		
			DB (°C)		DB (°C)		
Cooling	35	24	27	19	18~52		
Heating	7	6	20	15	-10~24		

Сара	acity	18K	24K	36K	48K	60K
Outdoc	or unit				Gere C	
	Duct					
Indoor unit	Cassette					
	Floor ceiling	/	/			

	Outdoor unit			GUTD18W1/A-S(E)				
Model	Lasternovili			Duct	Duct (with water pump)	Cassette		
	lindoor unit			GUD18PH1/A-S(E)	GUD18PHS1/A-S(E)	GUD18T1/A-S(E)		
	Casling		kW	5.3	5.3	5.3		
0	Cooling		BTU/h	18100	18100	18100		
Capacity	Heating		kW	5.6	5.6	5.6		
	Healing		BTU/h	19100	19100	19100		
EER /COP			W/W	3.81/3.73	3.81/3.73	3.81/3.94		
Power supply			V/Ph/Hz		220~240V~50/60Hz			
Power input	Cooling		kW	1.39	1.39	1.39		
Power Input	Heating		kW	1.50	1.50	1.42		
	Cooling		A	6.40	6.40	6.40		
Current input	Heating		A	6.9	6.9	6.5		
Refrigerant charge	e volume		kg	1	1	1		
	Air flow volume(SH/H/M/L)		CFM	706/677/620/559	706/677/620/559	706/677/620/559		
			m³/h	1200/1150/1050/950	1200/1150/1050/950	1200/1150/1050/950		
	ESP	Rated	Pa	25	25	-		
Indoor unit		Range	Pa	0~125	0~125	-		
indoor unit	Sound pressure level(SS/H/M/L)		dB(A)	40/39/37/35	40/39/37/35	42/41/40/37		
	Dimension	Outline	mm	900×655×260	900×655×260	840 × 840 × 200		
	$(W \times D \times H)$	Package	mm	1115×772×320	1115×772×320	943 × 923 × 245		
	Net weight/Gross	weight	kg	28.0/32.0	29.0/33.0	21.0/27.0		
	Dimension	Outline	mm	-	-	950 × 950 × 52		
Panel	$(W \times D \times H)$	Package	mm	-	-	1033×1020×125		
	Net weight/Gross	weight	kg	-	-	7.5/11.0		
	Sound pressure le	vel	dB(A)	56	56	56		
Outdoor upit	Dimension	Outline	mm	889×340×660	889×340×660	889×340×660		
Outdoor unit	$(W \times D \times H)$	Package	mm	1032×456×730	1032 × 456 × 730	1032 × 456 × 730		
	Net weight/Gross	weight	kg	40/44	40/44	40/44		
	Outdoor diameter	Liquid	inch(mm)	ФЗ/8(9.52)	Φ3/8(9.52)	Φ3/8(9.52)		
Connecting pipe		Gas	inch(mm)	Φ5/8(16)	Φ5/8(16)	Φ5/8(16)		
	Max. distance	Height/Length	m	30	30	30		
Loading quantity	40'GP/40'HQ		unit	98/109	98/109	83/94		

	Outdoor unit			GUTD24W1/A-S(E)				
Model	Indoor unit			Duct	Duct (with water pump)	Cassette		
	indoor unit			GUD24PH1/A-S(E)	GUD24PHS1/A-S(E)	GUD24T1/A-S(E)		
	Caelier		kW	7.1	7.1	7.1		
0	Cooling		BTU/h	24200	24200	24200		
Capacity	Heating		kW	8.0	8.0	8.0		
	Heating		BTU/h	27300	27300	27300		
EER /COP			W/W	3.86/3.54	3.86/3.54	3.86/3.39		
Power supply			V/Ph/Hz		220~240V~50/60Hz			
Deuver innut	Cooling		kW	1.84	1.84	1.84		
Power input	Heating		kW	2.26	2.26	2.36		
Current input	Cooling		A	8.40	8.40	8.40		
Current input	Heating		A	10.30	10.30	10.80		
Refrigerant charge	e volume		kg	1.65	1.65	1.65		
	Air flow volume(SH/H/M/L)		CFM	824/736/677/589	824/736/677/589	765/706/618/530		
			m³/h	1400/1250/1150/1000	1400/1250/1150/1000	1300/1200/1050/900		
	ESP	Rated	Pa	25	25	-		
Indoor unit		Range	Pa	0~125	0~125	-		
indoor unit	Sound pressure level(SS/H/M/L)		dB(A)	42/40/37	42/40/37	46/42/39		
	Dimension	Outline	mm	900×655×260	900 × 655 × 260	840 × 840 × 200		
	$(W \times D \times H)$	Package	mm	1115 × 772 × 320	1115 × 772 × 320	943 × 923 × 245		
	Net weight/Gross	weight	kg	29.0/33.0	30.0/34.0	21.0/27.0		
	Dimension	Outline	mm	-	-	950 × 950 × 52		
Panel	$(W \times D \times H)$	Package	mm	-	-	1033×1020×125		
	Net weight/Gross	weight	kg	-	-	7.5/11.0		
	Sound pressure le	vel	dB(A)	57	57	57		
Outdoor upit	Dimension	Outline	mm	889×340×660	889×340×660	889 × 340 × 660		
Outdoor unit	$(W \times D \times H)$	Package	mm	1032×456×730	1032×456×730	1032 × 456 × 730		
	Net weight/Gross	weight	kg	46.0/50.0	46.0/50.0	46.0/50.0		
	Outdoor diameter	Liquid	inch(mm)	ФЗ/8(9.52)	ФЗ/8(9.52)	Φ3/8(9.52)		
Connecting pipe	outdoor diameter	Gas	inch(mm)	Φ5/8(16.0)	Φ5/8(16.0)	Φ5/8(16.0)		
	Max. distance	Height/Length	m	15/30	15/30	15/30		
Loading quantity	40'GP/40'HQ		unit	98/109	98/109	83/94		

	Outdoor unit			GUTD36W1/A-S(E)				
Model			Duct	Duct (with water pump)	Cassette	Floor ceiling		
			GUD36PH1/A-S(E)	GUD36PHS1/A-S(E)	GUD36T1/A-S(E)	GUD36ZD1/A-S(E)		
	Casting		kW	10.5	10.5	10.5	10.5	
Caraaih	Cooling		BTU/h	35800	35800	35800	35800	
Capacity	Heating		kW	11.5	11.5	11.3	11.2	
	Heating		BTU/h	39200	39200	38600	38200	
EER /COP			W/W	3.2/3.29	3.2/3.29	3.39/3.53	3.39/3.50	
Power supply			V/Ph/Hz		220~240V	~50/60Hz		
Deuron innut	Cooling		kW	3.2	3.2	3.1	3.1	
Power input	Heating		kW	3.5	3.5	3.2	3.2	
Comment in nort	Cooling		A	14.6	14.6	14.2	14.2	
Current input	Heating		A	16	16	14.6	14.6	
Refrigerant charge	e volume		kg	3	3	3	3	
	Air flow volume(SH/H/M/L)		CFM	1000/942/824/706	1000/942/824/706	1059/942/824/706	1059/942/824/706	
	Air now volume(SF	1/H/IVI/L)	m³/h	1800/1600/1400/1200	1800/1600/1400/1200	1800/1600/1400/1200	1800/1600/1400/1200	
	ESP	Rated	Pa	37	37	-	-	
lo el e e u unit		Range	Pa	0-125	0-125	-	-	
Indoor unit	Sound pressure level(SS/H/M/L)		dB(A)	46/45/43/41	46/45/43/41	49/47/43/40	50/47/45/43	
	Dimension	Outline	mm	900 × 655 × 260	900 × 655 × 260	840×840×240	1200 × 665 × 235	
	$(W \times D \times H)$	Package	mm	1115×772×320	1115×772×320	933×903×272	1303 × 770 × 300	
	Net weight/Gross	Net weight/Gross weight		29.0/33.0	30.0/34.0	23.0/29.0	34.0/39.0	
	Dimension	Outline	mm	-	-	950 × 950 × 52	-	
Panel	$(W \times D \times H)$	Package	mm	-	-	1033×1020×125	-	
	Net weight/Gross	weight	kg	-	-	7.5/11.0	-	
	Sound pressure lev	vel	dB(A)	58	58	58	58	
Outdoor upit	Dimension	Outline	mm	920×370×746	920×370×746	920×370×746	920×370×746	
Outdoor unit	$(W \times D \times H)$	Package	mm	1080 × 483 × 800	1080×483×800	1080×483×800	1080 × 483 × 800	
	Net weight/Gross	weight	kg	61.0/66.0	61.0/66.0	61.0/66.0	61.0/66.0	
	Outdaar diamatar	Liquid	inch(mm)	Ф3/8(9.52)	Φ3/8(9.52)	Φ3/8(9.52)	Φ3/8(9.52)	
Connecting pipe	Outdoor diameter	Gas	inch(mm)	Φ5/8(16.0)	Φ5/8(16.0)	Φ5/8(16.0)	Φ5/8(16.0)	
	Max. distance	Height/Length	m	20/30	20/30	20/30	20/30	
Loading quantity	40'GP/40'HQ		unit	82/96	82/96	72/81	79/90	

	Outdoor unit			GUTD60W1/A-S(E)				
Model				Duct	Duct (with water pump)	Cassette	Floor ceiling	
				GUD60PH1/A-S(E)	GUD60PHS1/A-S(E)	GUD60T1/A-S(E)	GUD60ZD1/A-S(E)	
	Qualitati		kW	16	16	16	15.8	
o "	Cooling		BTU/h	54500	54500	54500	53900	
Capacity	L La a Para		kW	17	17	17	17	
	Heating		BTU/h	58000	58000	58000	58000	
EER /COP			W/W	2.54/3.40	2.54/3.40	2.58/3.15	2.59/ 3.40	
Power supply			V/Ph/Hz		220~240	V~50/60Hz	/	
December 1	Cooling		kW	6.3	6.3	6.2	6.1	
Power input	Heating		kW	5	5	5.4	5	
0	Cooling		A	29	29	28.5	28	
Current input	Heating		A	23	23	24.5	23	
Refrigerant charge	e volume		kg	3.6	3.6	3.6	3.6	
	Air flow volume(SH/H/M/L)		CFM	1648/1471/1295/1059	1648/1471/1295/1059	1412/1295/1118/942	1530/1353/1177/94	
			m³/h	2800/2500/2200/1800	2800/2500/2200/1800	2400/2200/1900/1600	2600/2300/2000/160	
	ESP	Rated	Pa	50	50	-	-	
la el e e		Range	Pa	0~200	0~200	-	-	
Indoor unit	Sound pressure level(SS/H/M/L)		dB(A)	48/45/44/41	48/45/44/41	53/51/48/44	52/49/47/44	
	Dimension (W $\times$ D $\times$ H)	Outline	mm	1400 × 700 × 300	1400 × 700 × 300	840 × 840 × 290	1570×665×235	
		Package	mm	1601 × 813 × 365	1601 × 813 × 365	933×903×335	1669×770×300	
	Net weight/Gross	weight	kg	55.0/62.0	54.0/61.0	26.0/33.0	42.0/49.0	
	Dimension	Outline	mm	-	-	950 × 950 × 52	-	
Panel	$(W \times D \times H)$	Package	mm	-	-	1033×1020×125	-	
	Net weight/Gross	weight	kg	-	-	7.5/11.0	-	
	Sound pressure le	vel	dB(A)	61	61	61	61	
0	Dimension	Outline	mm	900×340×1260	900 × 340 × 1260	900×340×1260	900×340×1260	
Outdoor unit	$(W \times D \times H)$	Package	mm	1033×443×1405	1033×443×1405	1033×443×1405	1033 × 443 × 1405	
	Net weight/Gross	weight	kg	94.0/103.0	94.0/103.0	94.0/103.0	94.0/103.0	
	Outdeen diens store	Liquid	inch(mm)	Ф3/8(9.52)	Ф3/8(9.52)	Ф3/8(9.52)	ФЗ/8(9.52)	
Connecting pipe	Outdoor diameter	Gas	inch(mm)	Φ5/8(16.0)	Φ5/8(16.0)	Φ5/8(16.0)	Φ5/8(16.0)	
	Max. distance	Height/Length	m	30/50	30/50	30/50	30/50	
Loading quantity	40'GP/40'HQ		unit	44/50	44/50	50/55	57/57	

	Outdoor unit			GUTD48W1/A-S(E)				
Model	le de eu cust			Duct	Duct (with water pump)	Cassette	Floor ceiling	
			GUD48PH1/A-S(E)	GUD48PHS1/A-S(E)	GUD48T1/A-S(E)	GUD48ZD1/A-S(E)		
	Cooling		kW	14	14	14	14	
Capacity	Cooling		BTU/h	47800	47800	47800	47800	
Capacity	Heating		kW	16	16	16	15	
	Heating		BTU/h	54600	54600	54600	51000	
EER /COP			W/W	2.92/3.64	2.92/3.64	2.69/3.60	2.92/3.41	
Power supply			V/Ph/Hz		220~240	/~50/60Hz		
Power input	Cooling		kW	4.8	4.8	5.2	4.8	
Power input	Heating		kW	4.4	4.4	4.45	4.4	
Comment in north	Cooling		A	21.9	21.9	23.8	22	
Current input	Heating		A	20.1	20.1	20.3	20.1	
Refrigerant charge	e volume		kg	3.6	3.6	3.6	3.6	
	Air flow volume(SH/H/M/L)		CFM	1648/1471/1295/1059	1648/1471/1295/1059	1412/1295/1118/942	1530/1353/1177/942	
			m³/h	2800/2500/2200/1800	2800/2500/2200/1800	2400/2200/1900/1600	2600/2300/2000/1600	
	ESP	Rated	Pa	50	50	-	-	
Indoor unit		Range	Pa	0~200	0~200	-	-	
	Sound pressure le	vel(SS/H/M/L)	dB(A)	48/45/44/41	48/45/44/41	53/51/48/44	52/49/47/44	
	Dimension	Dimension Outline		1400 × 700 × 300	1400×700×300	840×840×290	1570×665×235	
	$(W \times D \times H)$	Package	mm	1601 × 813 × 365	1601 × 813 × 365	933×903×335	1669×770×300	
	Net weight/Gross	weight	kg	53.0/60.0	52.0/59.0	26.0/33.0	42.0/49.0	
	Dimension	Outline	mm	-	-	950 × 950 × 52	-	
Panel	$(W \times D \times H)$	Package	mm	-	-	1033×1020×125	-	
	Net weight/Gross	weight	kg	-	-	7.5/11.0	-	
	Sound pressure le	vel	dB(A)	60	60	60	60	
Outdoor unit	Dimension	Outline	mm	940×370×820	940×370×820	940×370×820	940×370×820	
	$(W \times D \times H)$	Package	mm	1093×497×885	1093×497×885	1093×497×885	1093×497×885	
	Net weight/Gross	weight	kg	73.0/80.0	73.0/80.0	73.0/80.0	73.0/80.0	
	Outdoor diameter	Liquid	inch(mm)	Φ3/8(9.52)	Φ3/8(9.52)	Φ3/8(9.52)	Φ3/8(9.52)	
Connecting pipe		Gas	inch(mm)	Φ5/8(16.0)	Φ5/8(16.0)	Φ5/8(16.0)	Φ5/8(16.0)	
	Max. distance	Height/Length	m	30/50	30/50	30/50	30/50	
Loading quantity	40'GP/40'HQ		unit	56/63	56/63	62/71	62/74	

## Control system lineup

Controlling system		Product series	Duct	Cassette	Floor ceiling
Wired controller	XE7A-24/HC	• Gene * 26.5	0	0	0
	XE7A-24/H		•	0	0
Centralized controller	CE52-24/F(C)	09:20 109:20 100:20	0	0	0
MODBUS gateway	ME50-00/EG(M)	fi cance dar	0	•	0
BACnet gateway	ME30-44/D2(B)	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	0	0	0

Note: • means standard, Omeans optional.

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