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◆ NOTE:

Gree is committed to continuously improving its products to ensure the highest quality and reliability standards, and to meet local regulations and market requirements.

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◆ GC-2211-08

Distributor information



# Light Commercial

## T1,50Hz,R410A/R32



# 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 industrial group that has expanded its business to air conditioners, home appliances, high-end equipment and communication equipment under three brand names: GREE, KINGHOME and TOSOT. Gree was the number one brand of air conditioners in the world in 2021\*.

Thanks to 500 million users' choices, Gree brands are sold widely to more than 180 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.

- 2015** • Gree's sales revenue exceeded **15.08 billion** USD.
- 2016** • Gree's sales revenue exceeded **16.51 billion** USD.
- 2017** • Gree's sales revenue exceeded **22.21 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.
- 2019** • Gree entered into **Fortune Global 500**. Gree's return on equity (ROE) ranked the first among the 129 Chinese enterprises on the list.
- 2022** • **Gree ranked the 487th on the list of Fortune Global 500.**

\*Gree is the number one brand of air conditioners in the world in 2021  
Footnote: \* Source Euromonitor International Limited; Consumer appliances 2022ed; retail volume sales in units, 2021 data."

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# R32 INVERTER SERIES

U-Match Series Air Conditioners fall between residential air conditioners and central air conditioners. Their capacity scope is wider than that of residential air conditioners: from 12KBtu/h to 60KBtu/h. Indoor units of floor ceiling type, duct type and cassette type are available. Their installation is simpler than that of conventional central air conditioners, with low installation cost and no need of welding. They are well suited to the areas from 16m<sup>2</sup> to 140m<sup>2</sup>, such as apartments, villas, hotels and offices.

## 1 All DC Inverter System

### DC Inverter Compressor

» Incorporated with 180° sine wave stepless speed regulation control, this compressor is more energy-saving. It can perform stepless regulation of capacity output in different working conditions with a frequency adjustment range of 0-120Hz.



### DC Electronic Expansion Valve (EXV)

» The system adopts EXV throttling control in a stepless way with EXV opening ranging from 0 to 480P. It can accurately control refrigerant flow to suit different working conditions and workload, with over 5% energy efficiency increase compared to traditional fixed throttling method.



Note: DC power supply only

### DC Water Pump

» DC design and 12V weak current control lead to 40% higher efficiency and safer operation compared to conventional AC water pumps.

Note: DC power supply and for cassette units only.

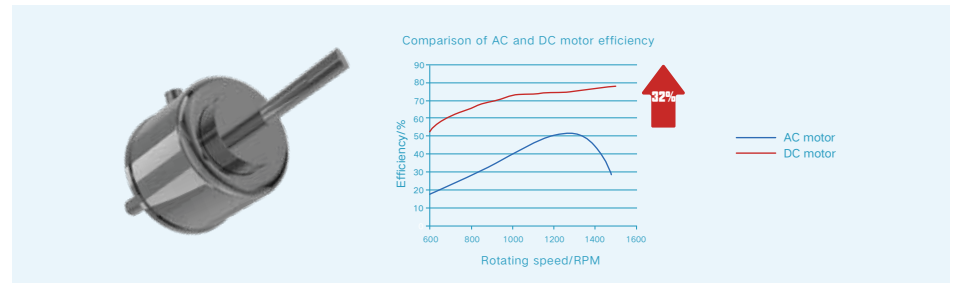


### DC Brushless Motor (outdoor)

» Thanks to the high-efficiency DC inverter design and high-power density structure, the outdoor motor has less magnetic flux leakage and less loss. Motor efficiency is 32% higher than that of conventional AC motors.



### DC Brushless Motor (indoor)

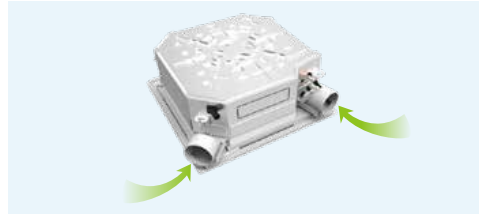


## 2 Health Protection

### Fresh Air Control

» Duct units and floor ceiling units of the entire series are equipped with fresh air inlets. They can introduce 8%~12% fresh outside air into the room to ensure fresh indoor air.

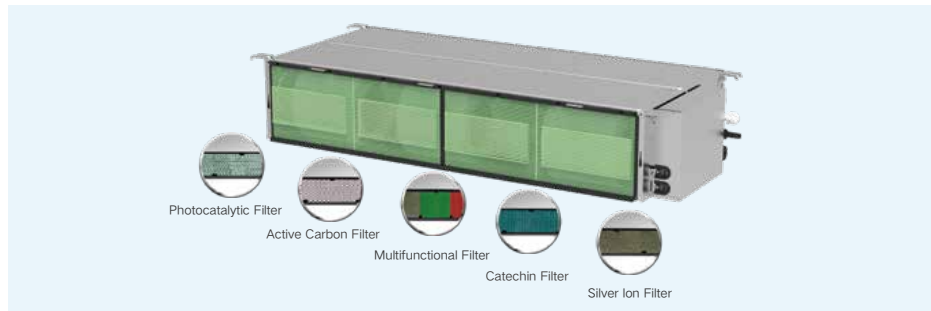
» For cassette units with large panels, we offer optional fresh air accessories which can effectively bring in 5%~10% fresh outside air.



### Various Options of Sterilization Filters

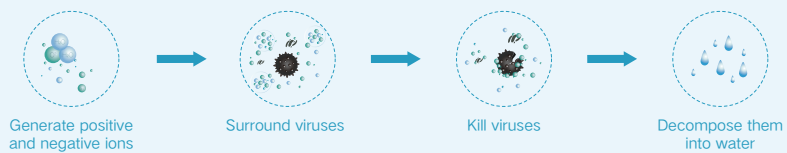
» Different choices of sterilization modules are offered to be installed on the filter (e.g. catechin, active carbon, etc..)

Note: Applicable to duct units of 35, 50, 140, and 160 only.



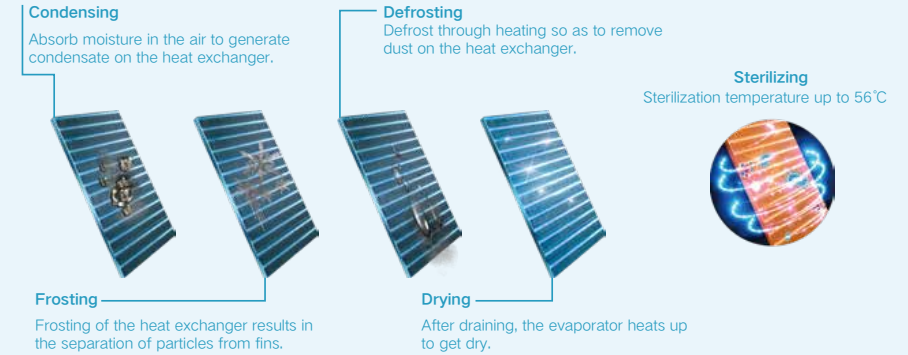
### Plasmacluster Ion Sterilization

Through high-voltage discharge of the plasmacluster ion module, the air is ionized and it generates a large number of ions, which then combine with bacteria and viruses to make them inactivated.



### 56°C Self-cleaning System

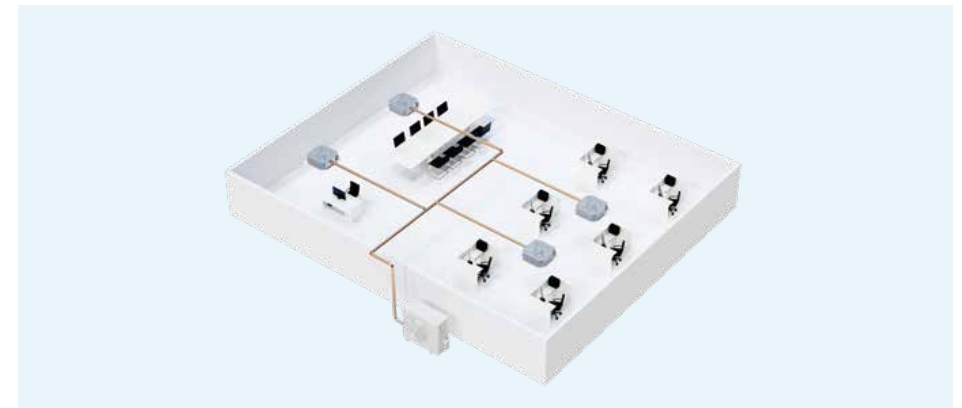
» Gree high-temperature self-cleaning system with 5 stages of deep cleaning can effectively clean away dust and dirt on the evaporator and then automatically enter the stage of high-temperature sterilization, to make the air cleaner and healthier.



## 3 Intelligent Control

### Multi-split Application (No Kit Needed)

» U-Match VI adopts two composite communication networks – LNS Bus and HomeBus – so that one outdoor unit can be matched with one or multiple duct/floor ceiling/cassette indoor units and achieve balanced air supply in the installation place, which has solved the problem of uneven temperature distribution in commercial places installed with large capacity units. While the comfort is improved, and engineering installation is also more convenient. There is no need to have an extra kit for multi-split application, which saves the space for outdoor unit installation.





## Why you still feel hot after the AC is set to a comfortable temperature of 27°C?

» Perceived temperature is not only affected by ambient temperature but also air humidity. Even the ambient temperature is the same, people feel differently depending on the humidity.



## Temperature and Humidity Correction Technology

» The wired controllers adopt high precision temperature and humidity dual sensors ( $\pm 0.5^{\circ}\text{C}$ ) as standard, to fully consider the impact of humidity on thermal comfort and improve the level of comfort through intelligent correction of indoor temperature and humidity.

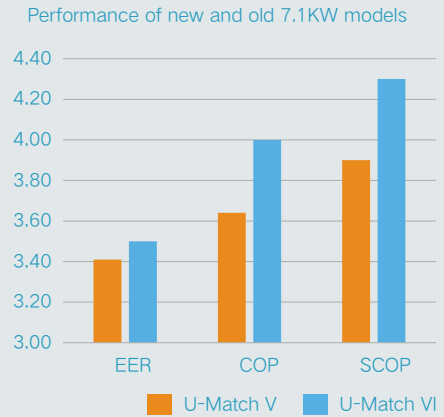


## 4 Energy Saving

### SCOP up by 10.3%

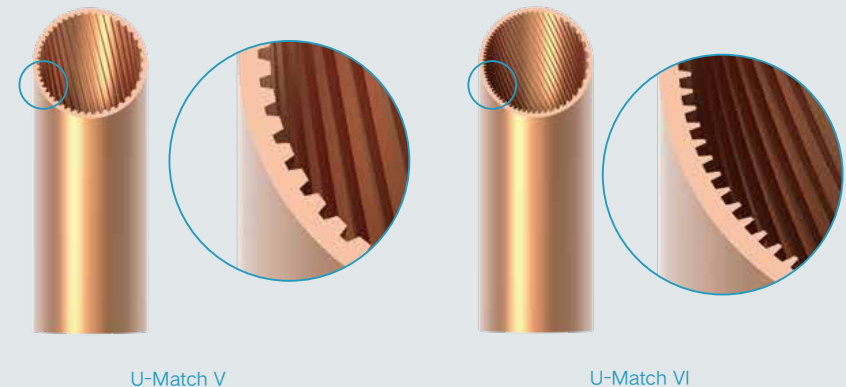
» U-Match VI adopts R32 refrigerant. Thanks to the high-efficiency structural design, all DC inverter control, high-efficiency compressor and motor, optimized wind field design and enhanced heat exchange technology, they can achieve 10% energy savings on average compared to the last generation.

# SCOP up by 10.3%



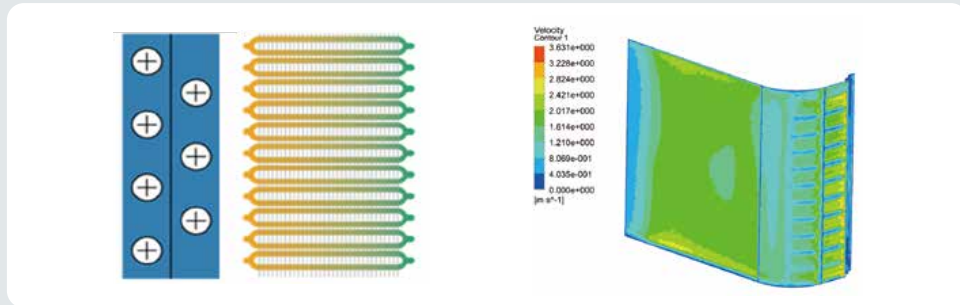
## Enhanced Heat Exchange Design

» The newly designed internally threaded copper pipe can effectively improve heat exchange performance. **Smaller addendum angle** helps to increase the internal heat transfer area; **Larger helix angle** helps to improve turbulence intensity and enhance convective heat transfer; **More teeth**, larger internal heat transfer area, and higher heat exchange efficiency.



## Enhanced Heat Exchange Design

» The low resistance distribution type sub-cooling flow path, new type fins and optimized wind field design also contribute to the increase of heat exchange efficiency.



## High Efficiency DC Motor

» With high magnetic density, this 10 pole-pair rotary DC motor is 32% more efficient than a conventional AC motor.

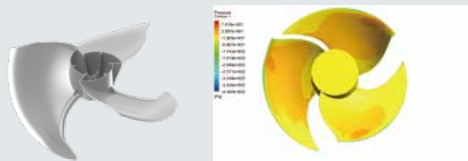


## Wind Field Optimization

» **Low wind resistance grille:**  
2% increase in air volume by adopting the "raindrop" grille and rotating divergent low wind resistance structure.

» **Efficient bionic fan blades:**  
Bionic fan blades with long chord length and a big rooting-in angle are used to improve the aerodynamic performance of the fan, leading to 10% increase in air volume.

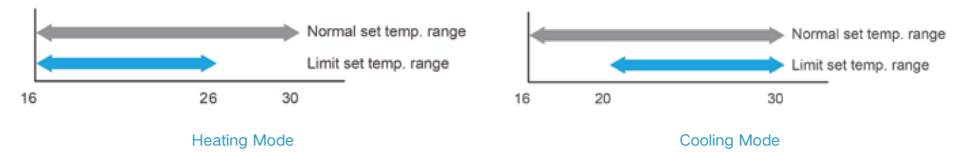
» **Low wind resistance motor support:**  
The U-shaped motor support results in 55% decrease in windward area and 1.5% increase in air volume.



## Energy-saving Operation and Control

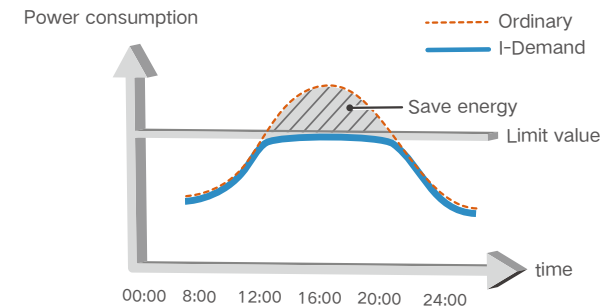
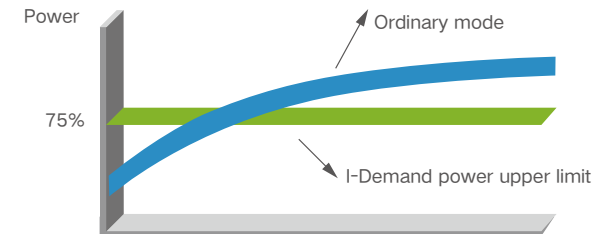
### Energy-saving Mode (Wired Controller)

» Energy-saving mode is available on our specialized wired controllers. Lower and upper temperature limits can be set for cooling and heating. Visitors can be restricted from setting the temperature too high or too low for saving energy in public places.



### I-demand

» This function enables the air conditioner to operate at less than 75% rated power. For some places, the government may have restrictions in power use during peak hours. This can save energy while relieving power consumption stress caused by full load operation.

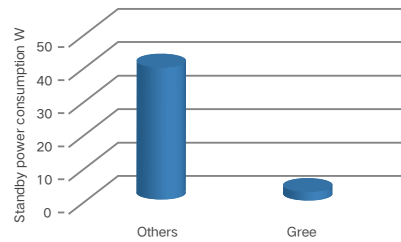


## Low Power Consumption Standby Mode

» U-Match VI adopts the advanced technology of wake-up circuit and intelligent winding heater instead of the conventional compressor crankcase heater.



Compressor winding heater featuring intelligent control and high efficiency



## Smart Sensor

» Cassette units can perform smart control when installed with the optional smart sensor panel.

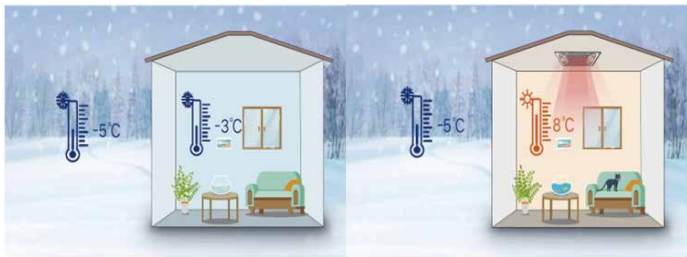
✓ When people are away, the AC can automatically adjust temperature to save energy.

✓ When people are away for a long time, the AC will automatically shut down to avoid wasting resources.



## 8°C Heating

» In winter, if you are away for a long time, the room will become very cold. After this function is enabled, the unit can maintain room temperature at 8°C, to care for your pets and plants.



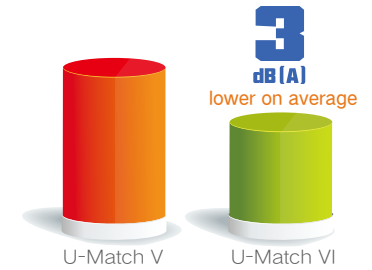
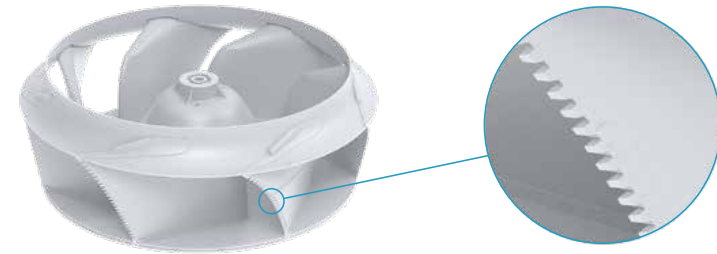
## 6 Quiet Design

### Bionic Fan Blade Design for Lower Noise

» Noise is down by 3dB(A) through the optimization of the fan blade profile.

Based on a full analysis of the low resistance and silent characteristics of birds flying at high speed, the fan blades are designed with the shape of eagle wings to improve the air flow on the surface of the blade rotating at high speed, and to suppress the trailing edge noise intensity of the blade for lower noise;

The tail of the blade imitates the serrated shape of eagle wings, with excellent aerodynamic performance and low noise after repeated optimization through software simulation.

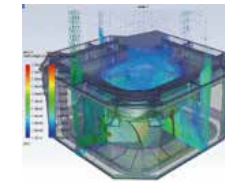
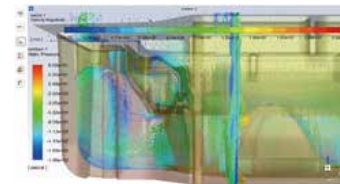


### Low Noise Wind Field

» Large circular air duct: less wind resistance, lower sound level.

» Turbulence prevention design: optimized diffuser inlet, larger opening for air return, less turbulence.

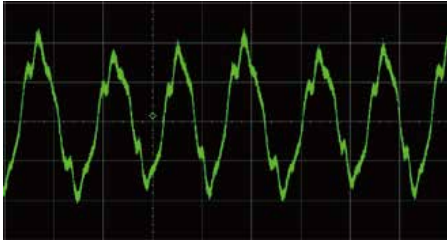
» Increased air inlet/outlet area: larger area for air intake and discharge with the same product size; lower fan speed for low sound level; air outlet area increased by 11.9% for cassette units with large panels.



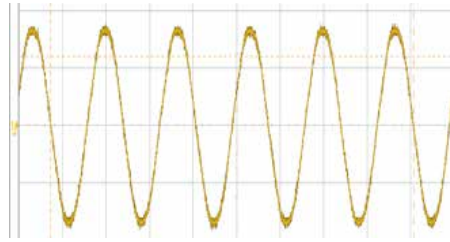
Note: Take the cassette unit for example.

## Low Noise Drive Control

» The optimized fan drive control algorithm reduces the operating current harmonics of the fan to achieve smooth sine wave output, ensuring less vibration and noise for the motor.



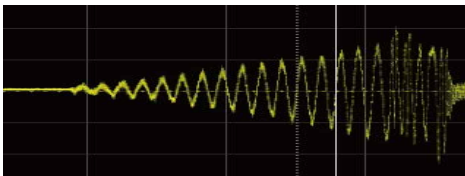
Others: current harmonics not smooth, resulting in low efficiency and loud noise



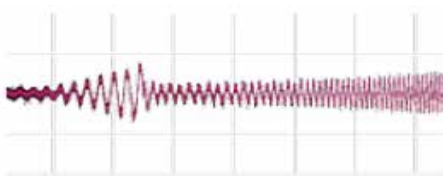
Gree: smooth sine wave output, resulting in high efficiency and low noise

## Low Voltage Start-up

» Thanks to auto compensation adaptive technology, the compressor can still start up normally when input voltage is down to 175V.



Others: fail to start up at low voltage.

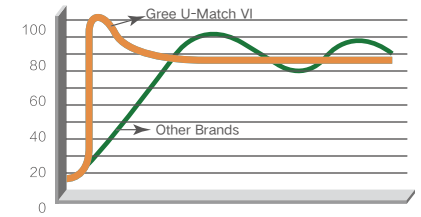


Gree: able to start up and operate stably at low voltage.

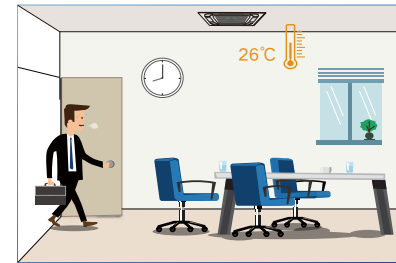
## 7 Enhanced Comfort

### Fast Cooling & Heating

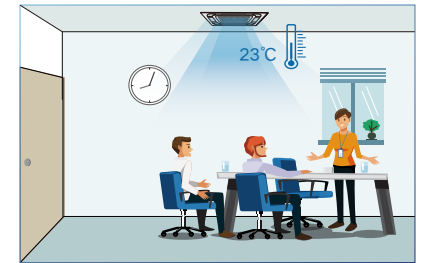
» By detecting the set temperature, indoor and outdoor ambient temperatures, it will automatically enable fast cooling or heating, which is 20% faster than standard cooling or heating.



Fast cooling, fast heating



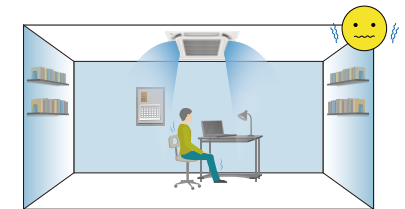
08:00



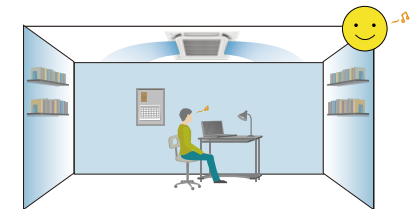
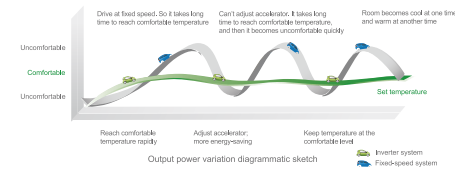
08:05

### Stable Temperature Control

» U-Match VI provides stable temperature control and more comfortable user experience by adopting DC inverter compressors with variable capacity output, DC motors with stepless speed regulation, electronic expansion valves with accurate flow control ranging from 0 to 480P, and ambient temperature sensing technology with a precision of  $\pm 0.5^{\circ}\text{C}$



Fixed-speed air conditioner



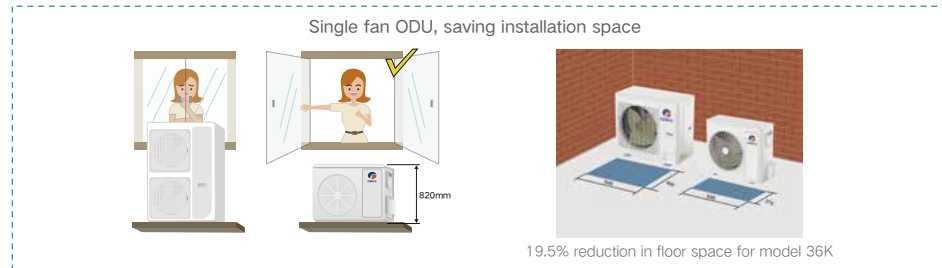
DC inverter air conditioner



## 8 Convenient Installation & Maintenance

### Compact & Lightweight

» Unified appearance, single fan design and compact structure for outdoor units of the whole series; Thanks to compact size, they are easy to transport and install.



### Reusable Connection Pipe

» The system adopts multiple filtration technologies to reduce particles in the pipeline to the maximum extent, thus cleaning the pipeline and ensuring the repeated usage of connection pipe in the system of the old air conditioners. The wall thickness of pipeline shall meet the following conditions.

Filter

Verify pipe thickness

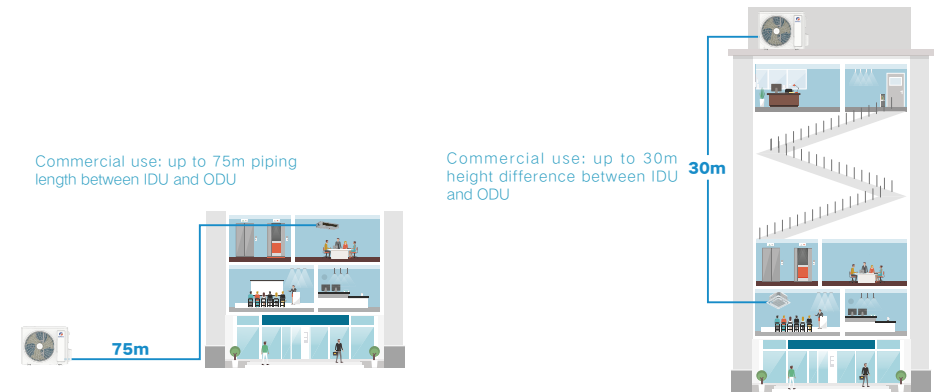
Outside diameter(mm)	Material	Thickness(mm)
6.4	o	0.8
9.5	o	0.8
12.7	o	0.8
15.9	o	1.0
19.1	1/2H	1.0

o:annealed -1/2H:half hard

Note: High-pressure purge is required for old pipelines.

### Unified Power Supply & Long Piping Length

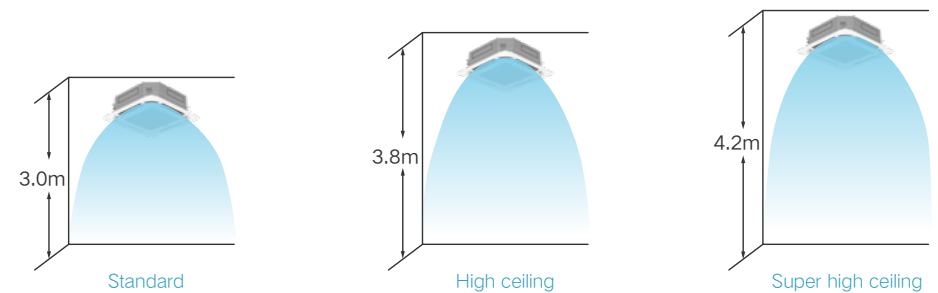
» It is convenient to connect wires with the long-distance power line communication technology and unified power supply from the outdoor unit to indoor units. Up to 75m piping length and 30m height difference.



\*Note: Unified power supply from ODU.

### Convenient for High Ceilings

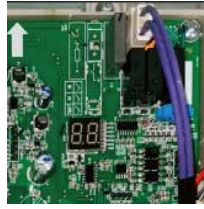
» Cassette units offer 11 different fan speeds for selection. During installation, you can choose a proper fan speed according to the height of the ceiling to guarantee the suitable air supply distance.



## Convenient for Wiring and Piping



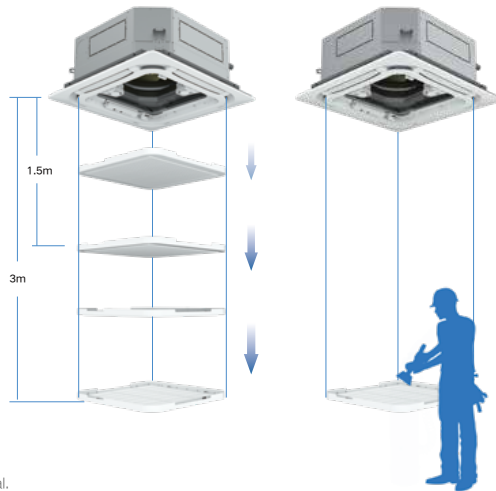
» **Auto fault diagnosis:** Equipped with micro-computer processing, the unit can automatically diagnose faults and display corresponding error codes (on the LED panel of the indoor unit, main board of the outdoor unit and the wired controller), for the convenience of maintenance.



**Easy wiring:** Wires can be connected by detaching the handle. There is no need to open the front panel.  
**Easy piping:** The entire range offers external valves, all with protective covers, for the ease of pipe connection.  
**Integrated front cover plate:** Simple appearance, less components, and easy for disassembly.

## Auto Lifting Panel

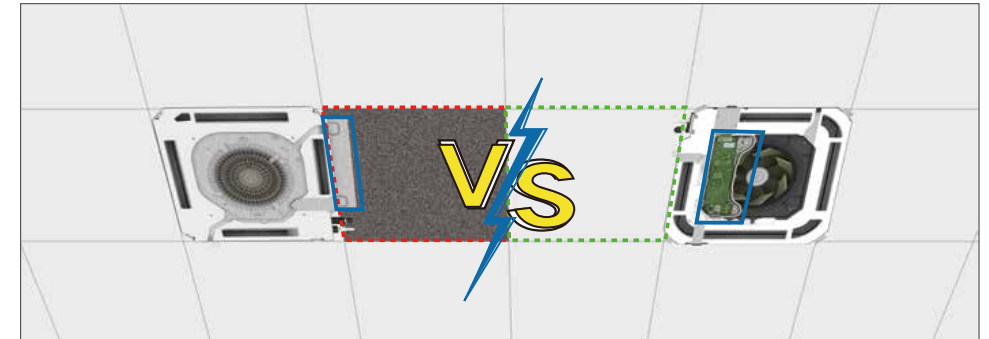
» Auto lifting panel is optional for cassette units with large panels. To clean the filter, you can lower it to a designated height just by pressing a button. Filter cleaning is simpler and safer.



\* Note: The lifting panel is optional.

## Electric Box Designed for Easy Disassembly and Servicing

» The built-in electric box is standard for the entire product range. To carry out maintenance, just open the grill – there is no need to remove the ceiling, saving time and labor.



### External electric box:

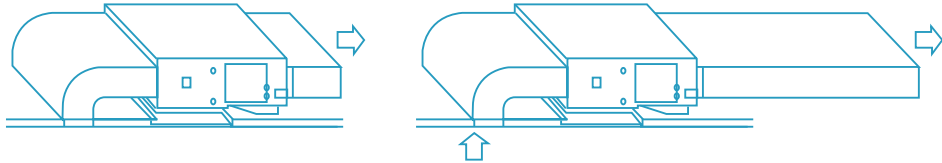
Installation and maintenance is not convenient and will affect the ceiling's appearance.  
 ● During installation, the ceiling has to be cut open so as to have a service access port.  
 ● To open the electric box for engineering wiring, it is necessary to disassemble the panel and service access port.

### Built-in electric box:

Installation and maintenance is convenient. There is no need to remove the ceiling.

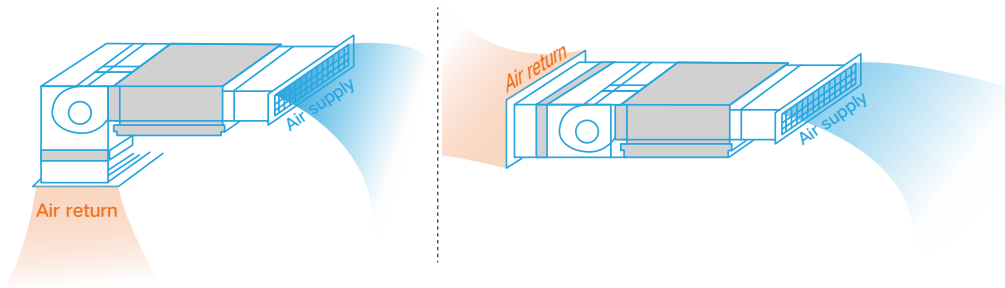
## Adjustable ESP

» Up to 9 static pressure stages with a maximum of 200Pa can be set for high static pressure duct type units. You can choose a proper static pressure according to the air duct length.



## Alterable Air Return Modes for Duct Unit

» There are two air return modes to be chosen for engineering installation: bottom air return and rear air return.



## Project Debugging

» Monitor and store underlying operational data.  
» Check and set operation modes.

» Set different modes (e.g. static pressure stage of the duct unit, power-off memory function).  
» Auto fault diagnosis and display, historical errors check



Portable debugger\*



Parameter debugging and auto fault diagnosis



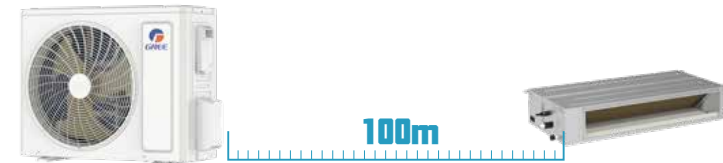
Monitoring and debugging software\*

» Remotely monitor operating status and parameters.  
» Store underlying operational data in real time.

\*Note: It is under development. Please refer to the actual product and consult our sales personnel before placing an order.

## Long Communication Distance

» Thanks to the new technology of long-distance power line communication, the distance between indoor and outdoor units can reach 100m, suitable for different kinds of residential and commercial applications.



Note: This is only for models of 7.1kW or above.

## Composite Communication Network

» Based on the features of connecting one outdoor unit to one indoor unit, we adopt two composite communication networks: LNS Bus and HomeBus.

### BUS1 : LNS Bus

Product upgrading: with the latest-generation long-distance power line communication technology, the outdoor unit can work with different types of indoor units at the same time, including duct units, cassette units, floor ceiling units and wall-mounted units. They can meet the needs in different applications as the communication distance has been greatly improved.



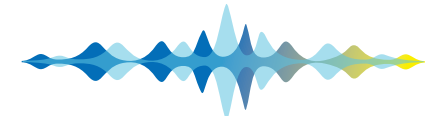
### BUS2: Terminal Control Bus

Control upgrading (wired/centralized control, etc.): HBS communication technology is used for indoor units and display terminals. The control terminals are applicable both to U-Match and GMV units, for the ease of centralized control for multiple units and the connection between one outdoor unit and multiple indoor units.



## Anti-interference Design

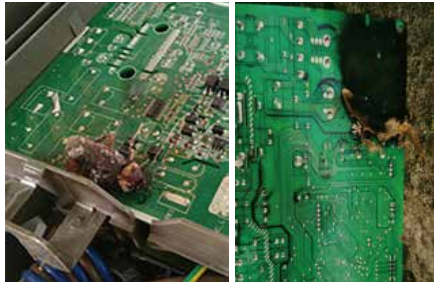
» Double-loop design can effectively prevent communication interference caused by stray capacitance and electric power harmonics in long-distance communication, ensuring reliable data transmission.



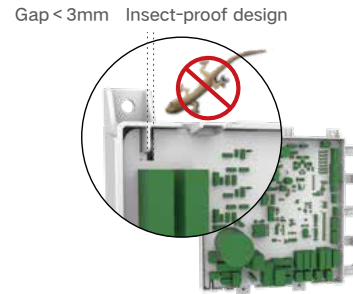
## 9 Reliability

### Electric Box Insect-proof

» The gap between the PCB and the electric box is less than 3mm, which can prevent insects from getting in and causing short circuit and damage to the circuit board.



Others



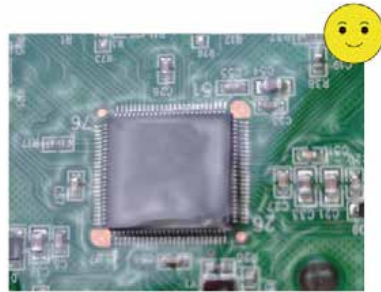
Gree

### PCB 3-layer Anticorrosion Coating

» PCB boards of outdoor units all have three layers of anticorrosion coating, which can prevent moisture, insects and dust.



Before coating



After coating with three anticorrosion layers

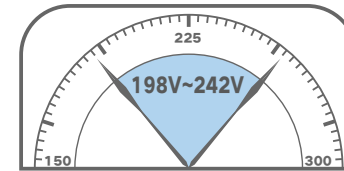
### Wired Controller Moisture-proof

» The wired controller adopts double moisture-proof sealing designs, which can effectively protect the PCB from dampness. Responsive and water-proof touch buttons, with long service life.

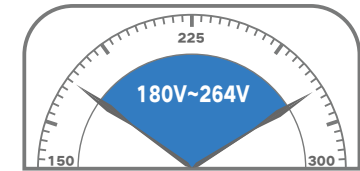


### Operation Reliability Design

» **Wide Voltage Range:** Through the optimization of drive and electronic control parameters, U-Match VI can operate in a wide voltage range and run normally even if the voltage is down to 180V. They can be used in islands or places with unstable power supply.



Others



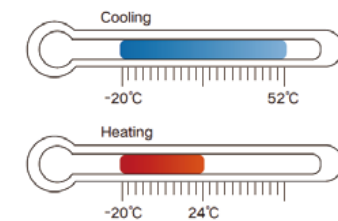
Gree

» **Cooling at Ultralow Ambient Temperature:** With an operation range down to  $-20^{\circ}\text{C}$  in cooling, U-Match VI are applicable to close control rooms or other special places where cooling is needed all year round. You can choose Gree dry contact gateway and make two sets of units run alternately to provide 24h uninterrupted cooling.



\*Please consult our salespersons for a specific operation plan before placing an order.

» **Wide Operation Range:** The cooling system equipped with all DC inverter technology adopts stepless speed regulation for its compressor and fan motor and accurate flow control for the electronic expansion valve, which ensure reliable operation in a wide operation range, making the units well-suited to a wider range of applications. Ambient temperature range for cooling:  $-20^{\circ}\text{C}\sim 52^{\circ}\text{C}$   
Ambient temperature range for heating:  $-20^{\circ}\text{C}\sim 24^{\circ}\text{C}$



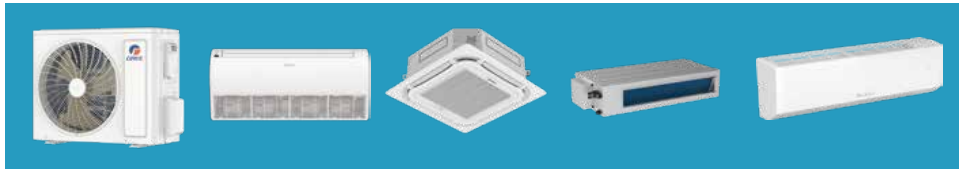


# R32 Inverter Series (Heat Pump) (EU)



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.



» SEER up to 7.20 and energy efficiency rated at A++ for the whole series thanks to all DC inverter system and high-efficiency casing design, leading to 10% energy savings on average compared to the last generation.

» 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 ( $\pm 0.5^{\circ}\text{C}$ ) 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, which 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

- » DC motor, energy-saving and high efficiency.
- » Fresh air unit can be connected.
- » Lift of water pump is 1000mm.
- » Energy efficiency can be up to A++ in cooling season and A+ in heating season.

### Floor ceiling type

- » DC motor, energy-saving and high efficiency.
- » Fresh air unit can be connected.
- » Lift of water pump is 1000mm.
- » Energy efficiency can be up to A++ in cooling season and A+ in heating season.

### Cassette type

- »  $360^{\circ}$  air discharge for balance room temperature.
- » DC motor and DC water pump, energy-saving and high efficiency.
- » Fresh air unit can be connected.
- » Lift of water pump is 1000mm.
- » Energy efficiency can be up to A++ in cooling season and A+ in heating season.

### Wall-mounted

- » DC motor, energy-saving and high-efficiency.
- » Energy efficiency can be up to A++ in cooling season and A+ in heating season.

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

## Units Lineup

Capacity index	35	50	71	85	100	125	140	160
Outdoor unit								
Indoor unit	Duct(without water pump)							
	Duct(with water pump)							
	Cassette							
	Floor ceiling							
Wall-mounted	/	/		/		/	/	/

# Specifications

Model	Outdoor unit		GUD35W1/NhA-S GUD35W1/NhA-S(LCLH)			
	Indoor unit		Duct		Floor ceiling	
			GUD35PH1/A-S GUD35PHS1/A-S	Cassette	GUD35T1/A-S	GUD35ZD1/A-S
Capacity	Cooling	kW	3.5	3.5	3.5	
		Btu/h	11900	11900	11900	
Heating	kW	4.0	4.0	4.0		
	Btu/h	13600	13600	13600		
EER /COP		-	3.40/4.00	3.80/4.00	3.80/4.30	
SEER/SCOP		-	6.50/4.00	7.10/4.20	7.2/4.1	
Energy efficiency grade (Cooling/Heating)		-	A++/A+	A++/A+	A++/A+	
Power supply		V/Ph/Hz	220-240-1-50/60	220-240-50/60-1	220-240-1-50/60	
Power input	Cooling	kW	1.03	0.92	0.92	
	Heating	kW	1.0	1.0	0.93	
Current input	Cooling	A	4.90	4.40	4.40	
	Heating	A	4.80	4.80	4.45	
Refrigerant charge volume		kg	0.57	0.57	0.57	
Loading quantity		40'GP/40'HQ	unit	182/205	159/182	139/160
Indoor unit	Air flow volume		CFM	353/324/294/235	353/324/294/235	383/353/294/235
			m³/h	600/550/500/400	600/550/500/400	650/600/500/400
	ESP	Rated	Pa	25	0	0
		Range	Pa	0-80	0	0
	Sound pressure level(SH/H/M/L)		dB(A)	35/33/32/30	36/35/33/29	35/34/31/28
	Dimension (W×D×H)		mm	700×450×200	570×665×260	870×665×235
	Package		mm	1008×568×275	698×653×295	973×770×300
	Net weight/Gross weight		kg	17.0/21.0	16.5/21.0	24.0/28.0
			kg	18.0/22.0		
	Dimension (W×D×H)		mm	/	620×620×47.5	/
Package		mm	/	693×693×115	/	
Outdoor unit	Net weight/Gross weight		kg	/	3.0/4.5	/
			kg	48	48	48
Sound pressure level		dB(A)	48	48	48	
Connecting pipe	Dimension (W×D×H)		mm	675×285×553	675×285×553	675×285×553
	Package		mm	794×376×605	794×376×605	794×376×605
	Net weight/Gross weight		kg	24.5/27.0	24.5/27.0	24.5/27.0
Outdoor diameter	Liquid	inch(mm)	1/4"	1/4"	1/4"	
	Gas	inch(mm)	3/8"	3/8"	3/8"	
	Height	m				
	Length	m	15/30	15/30	15/30	

Model	Outdoor unit		GUD71W1/NhA-S GUD71W1/NhA-S(LCLH)			
	Indoor unit		Duct		Floor ceiling	
			GUD71PH1/A-S GUD71PHS1/A-S	Cassette	GUD71T1/A-S	GUD71ZD1/A-S
Capacity	Cooling	kW	7.1	7.1	7.1	
		Btu/h	24200	24200	24200	
Heating	kW	8.0	7.8	7.7		
	Btu/h	27200	27200	26200		
EER /COP		-	3.70/4.00	3.50/3.90	3.50/3.95	
SEER/SCOP		-	6.60/4.10	6.70/4.30	7.2/4.3	
Energy efficiency grade (Cooling/Heating)		-	A++/A+	A++/A+	A++/A+	
Power supply		V/Ph/Hz	220-240-1-50/60	220-240-50/60-1	220-240-1-50/60	
Power input	Cooling	kW	1.92	2.03	2.03	
	Heating	kW	2.0	2.0	1.95	
Current input	Cooling	A	9.20	9.70	9.70	
	Heating	A	9.60	9.60	9.10	
Refrigerant charge volume		kg	1.50	1.50	1.50	
Loading quantity		40'GP/40'HQ	unit	98/109	84/94	92/102
Indoor unit	Air flow volume		CFM	647/588/529/470	647/588/529/470	735/647/588/529
			m³/h	1100/1000/900/800	1100/1000/900/800	1250/1100/1000/900
	ESP	Rated	Pa	25	0	0
		Range	Pa	0-160	0	0
	Sound pressure level(SH/H/M/L)		dB(A)	37/35/33/31	39/38/36/34	41/39/37/35
	Dimension (W×D×H)		mm	900×665×260	840×840×200	1200×665×235
	Package		mm	1115×772×320	943×923×245	1303×770×300
	Net weight/Gross weight		kg	28.5/32.5	21.0/27.0	31.0/36.0
			kg	29.5/33.5		
	Dimension (W×D×H)		mm	/	950×950×52	/
Package		mm	/	1033×1020×110	/	
Outdoor unit	Net weight/Gross weight		kg	/	6.0/9.5	/
			kg	55	55	55
Sound pressure level		dB(A)	55	55	55	
Connecting pipe	Dimension (W×D×H)		mm	889×340×660	889×340×660	889×340×660
	Package		mm	1032×456×730	1032×456×730	1032×456×730
	Net weight/Gross weight		kg	41.5/45.0	41.5/45.0	41.5/45.0
Outdoor diameter	Liquid	inch(mm)	3/8"	3/8"	3/8"	
	Gas	inch(mm)	5/8"	5/8"	5/8"	
	Height	m				
	Length	m	20/30	20/30	20/30	

Model	Outdoor unit		GUD50W1/NhA-S GUD50W1/NhA-S(LCLH)			
	Indoor unit		Duct		Floor ceiling	
			GUD50PH1/A-S GUD50PHS1/A-S	Cassette	GUD50T1/A-S	GUD50ZD1/A-S
Capacity	Cooling	kW	5.3	5.0	5.3	
		Btu/h	18000	17000	18000	
Heating	kW	5.6	5.6	5.8		
	Btu/h	19100	19100	19790		
EER /COP		-	3.50/3.95	3.40/3.50	3.45/3.95	3.40/3.90
SEER/SCOP		-	6.30/4.00	6.60/4.00	7.20/4.30	6.5/4.2
Energy efficiency grade (Cooling/Heating)		-	A++/A+	A++/A+	A++/A+	A++/A+
Power supply		V/Ph/Hz	220-240-1-50/60	220-240-50/60-1	220-240-50/60-1	220-240-1-50/60
Power input	Cooling	kW	1.51	1.47	1.54	
	Heating	kW	1.42	1.60	1.47	
Current input	Cooling	A	7.20	7.00	7.30	
	Heating	A	6.80	7.65	7.00	
Refrigerant charge volume		kg	0.85	0.85	0.85	
Loading quantity		40'GP/40'HQ	unit	145/164	148/165	102/116
Indoor unit	Air flow volume		CFM	530/471/412/353	424/383/353/294	530/471/412/353
			m³/h	900/800/700/600	720/650/600/500	900/800/700/600
	ESP	Rated	Pa	25	0	0
		Range	Pa	0-80	0	0
	Sound pressure level(SH/H/M/L)		dB(A)	36/35/33/31	43/41/39/35	36/35/33/31
	Dimension (W×D×H)		mm	1000×450×200	570×570×260	840×840×200
	Package		mm	1308×568×275	698×653×295	943×923×245
	Net weight/Gross weight		kg	23.0/28.0	16.5/21.0	21.0/27.0
			kg	24.0/29.0		25.0/29.0
	Dimension (W×D×H)		mm	/	620×620×47.5	950×950×52
Package		mm	/	693×693×115	1033×1020×110	
Outdoor unit	Net weight/Gross weight		kg	/	3.0/4.5	/
			kg	52	52	52
Sound pressure level		dB(A)	52	52	52	
Connecting pipe	Dimension (W×D×H)		mm	745×300×555	745×300×555	745×300×555
	Package		mm	872×398×609	872×398×609	872×398×609
	Net weight/Gross weight		kg	30.5/33.0	30.5/33.0	30.5/33.0
Outdoor diameter	Liquid	inch(mm)	1/4"	1/4"	1/4"	
	Gas	inch(mm)	1/2"	1/2"	1/2"	
	Height	m				
	Length	m	20/30	20/30	1	2/3

Model	Outdoor unit		GUD85W1/NhA-S GUD85W1/NhA-S(LCLH)			
	Indoor unit		Duct		Floor ceiling	
			GUD85PH1/A-S GUD85PHS1/A-S	Cassette	GUD85T1/A-S	GUD85ZD1/A-S
Capacity	Cooling	kW	8.5	8.5	8.5	
		Btu/h	29000	29000	29000	
Heating	kW	8.8	8.8	8.8		
	Btu/h	30000	30000	30000		
EER /COP		-	3.40/3.90	3.40/3.90	3.40/3.90	
SEER/SCOP		-	6.40/4.10	6.90/4.30	6.80/4.50	
Energy efficiency grade (Cooling/Heating)		-	A++/A+	A++/A+	A++/A+	
Power supply		V/Ph/Hz	220-240-1-50/60	220-240-50/60-1	220-240-1-50/60	
Power input	Cooling	kW	2.50	2.50	2.50	
	Heating	kW	2.25	2.25	2.25	
Current input	Cooling	A	11.40	11.40	11.40	
	Heating	A	10.30	10.30	10.30	
Refrigerant charge volume		kg	1.50	1.50	1.50	
Loading quantity		40'GP/40'HQ	unit	98/109	84/94	92/102
Indoor unit	Air flow volume		CFM	824/765/647/588	824/765/647/588	824/765/647/588
			m³/h	1400/1300/1100/1000	1400/1300/1100/1000	1400/1300/1200/1000
	ESP	Rated	Pa	37	0	0
		Range	Pa	0-160	0	0
	Sound pressure level(SH/H/M/L)		dB(A)	43/41/39/37	47/46/42/38	46/45/43/39
	Dimension (W×D×H)		mm	900×665×260	840×840×200	1200×665×235
	Package		mm	1115×772×320	943×923×245	1303×770×300
	Net weight/Gross weight		kg	28.5/32.5	21.0/27.0	32.0/37.0
			kg	29.5/33.5		
	Dimension (W×D×H)		mm	/	950×950×52	/
Package		mm	/	1033×1020×110	/	
Outdoor unit	Net weight/Gross weight		kg	/	6.0/9.5	/
			kg	57	57	57
Sound pressure level		dB(A)	57	57	57	
Connecting pipe	Dimension (W×D×H)		mm	889×340×660	889×340×660	889×340×660
	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)	3/8"	3/8"	3/8"	
	Gas	inch(mm)	5/8"	5/8"	5/8"	
	Height	m				
	Length	m	25/30	25/30	25/30	

Model	Outdoor unit		GUID100W1/N/A-S GUID100W1/N/A-X(LCLH)		GUID100W1/N/A-S GUID100W1/N/A-X(LCLH)		GUID100W1/N/A-S GUID100W1/N/A-X(LCLH)		GUID100W1/N/A-S GUID100W1/N/A-X(LCLH)		GUID100W1/N/A-S GUID100W1/N/A-X(LCLH)	
	Indoor unit		Duct		Cassette		Floor ceiling					
			GUID100PH1/A-S GUID100PH1/A-S		GUID100T1/A-S		GUID100ZD1/A-S					
Capacity	Cooling	kW	10.5	10.5	10.5	10.5	10.0	10.0				
		Btu/h	35800	35800	35800	35800	34100	34100				
	Heating	kW	11.5	11.5	11.5	11.5						
EER /COP	SEER/SCOP	Energy efficiency grade	Btu/h	39200	39200	39200	39200	39200	39200			
			-	3.50/4.10	3.50/4.10	3.40/3.90	3.40/3.90	3.40/3.90	3.40/3.90			
Power supply	Power input	Current input	-	6.40/4.20	6.40/4.20	6.40/4.40	6.40/4.40	6.3/4.2	6.3/4.2			
			V/Ph/Hz	220-240-1-50/60	380-415-3-50/60	220-240-1-50/60	380-415-3-50/60	220-240-1-50/60	380-415-3-50/60			
Refrigerant charge volume	Loading quantity	Air flow volume	Cooling	3.00	3.00	3.10	3.10	2.94	2.94			
			Heating	2.8	2.8	2.95	2.95	2.95	2.95			
ESP	Sound pressure level(SH/M/L)	Dimension (W×D×H)	A	14.35	14.35	14.80	14.80	14.00	14.00			
			Package	13.4	13.4	14.10	14.10	14.10	14.10			
Net weight/Gross weight	Panel	Dimension (W×D×H)	kg	2.10	2.10	2.10	2.10	2.10	2.10			
			unit	64/72	64/72	68/78	68/78	69/83	69/83			
CFM	m³/h	Rated	1000/941/824/710	1000/941/824/710	883/824/710/589	883/824/710/589	941/883/824/710	941/883/824/710				
			1700/1600/1400/1200	1700/1600/1400/1200	1500/1400/1200/1000	1500/1400/1200/1000	1600/1500/1400/1200	1600/1500/1400/1200				
Pa	Range	ESP	37	37	0	0	0	0				
			0-160	0-160	0	0	0	0				
dB(A)	Sound pressure level	Dimension (W×D×H)	39/38/37/36	39/38/37/36	43/41/39/38	43/41/39/38	48/46/45/43	48/46/45/43				
			1340×665×260	1340×665×260	840×840×240	840×840×240	1200×665×235	1200×665×235				
mm	Package	Dimension (W×D×H)	1568×770×323	1568×770×323	933×903×272	933×903×272	1303×770×300	1303×770×300				
			42.0/48.0	42.0/48.0	23.0/29.0	23.0/29.0	32.0/37.0	32.0/37.0				
kg	Net weight/Gross weight	Dimension (W×D×H)	43.0/49.0	43.0/49.0								
			mm	/	/	950×950×52	950×950×52	/	/			
mm	Package	Net weight/Gross weight	/	/	1033×1020×110	1033×1020×110	/	/				
			kg	/	/	6.0/9.5	6.0/9.5	/	/			
dB(A)	Sound pressure level	Dimension (W×D×H)	57	57	57	57	57	57				
			mm	940×370×820	940×370×820	940×370×820	940×370×820	940×370×820	940×370×820			
mm	Package	Net weight/Gross weight	1093×497×885	1093×497×885	1093×497×885	1093×497×885	1093×497×885	1093×497×885				
			kg	65.0/72.0	75.0/82.0	65.0/72.0	75.0/82.0	65.0/72.0	75.0/82.0			
inch(mm)	Liquid	Outdoor diameter	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"				
			Gas	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"			
m	Height	Max. distance	30/75	30/75	30/75	30/75	30/75	30/75				
			Length	30/75	30/75	30/75	30/75	30/75	30/75			

Model	Outdoor unit		GUID140W1/N/A-S GUID140W1/N/A-X(LCLH)		GUID140W1/N/A-S GUID140W1/N/A-X(LCLH)		GUID140W1/N/A-S GUID140W1/N/A-X(LCLH)		GUID140W1/N/A-S GUID140W1/N/A-X(LCLH)		GUID140W1/N/A-S GUID140W1/N/A-X(LCLH)	
	Indoor unit		Duct		Cassette		Floor ceiling					
			GUID140PH1/A-S		GUID140T1/A-S		GUID140ZD1/A-S					
Capacity	Cooling	kW	13.4	13.4	13.4	13.4	13.4	13.4				
		Btu/h	45700	45700	45700	45700	45700	45700				
	Heating	kW	15.5	15.5	15.5	15.5						
EER /COP	SEER/SCOP	Energy efficiency grade	Btu/h	52900	52900	52900	52900	52900	52900			
			-	2.98/3.44	2.98/3.44	2.91/3.30	2.91/3.30	2.91/3.30	2.91/3.30			
Power supply	Power input	Current input	-	6.10/4.00	6.10/4.00	6.30/4.00	6.30/4.00	6.30/4.00	6.30/4.00			
			V/Ph/Hz	220-240-1-50/60	380-415-3-50/60	220-240-1-50/60	380-415-3-50/60	220-240-1-50/60	380-415-3-50/60			
Refrigerant charge volume	Loading quantity	Air flow volume	Cooling	4.50	4.50	4.60	4.60	4.30	4.30			
			Heating	4.5	4.5	4.7	4.7	4.2	4.2			
ESP	Sound pressure level(SH/M/L)	Dimension (W×D×H)	A	20.60	20.60	21.00	21.00	19.70	19.70			
			Package	16.01×813×365	1601×813×365	933×903×335	933×903×335	1669×770×300	1669×770×300			
kg	Net weight/Gross weight	Dimension (W×D×H)	51.0/57.0	51.0/57.0	25.0/32.0	25.0/32.0	42.0/49.0	42.0/49.0				
			mm	/	/	950×950×52	950×950×52	/	/			
mm	Package	Net weight/Gross weight	/	/	1033×1020×110	1033×1020×110	/	/				
			kg	/	/	6.0/9.5	6.0/9.5	/	/			
dB(A)	Sound pressure level	Dimension (W×D×H)	59	59	59	59	59	59				
			mm	940×370×820	940×370×820	940×370×820	940×370×820	940×370×820	940×370×820			
mm	Package	Net weight/Gross weight	1093×497×885	1093×497×885	1093×497×885	1093×497×885	1093×497×885	1093×497×885				
			kg	73.0/80.0	81.0/88.0	73.0/80.0	81.0/88.0	73.0/80.0	81.0/88.0			
inch(mm)	Liquid	Outdoor diameter	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"				
			Gas	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"			
m	Height	Max. distance	30/75	30/75	30/75	30/75	30/75	30/75				
			Length	30/75	30/75	30/75	30/75	30/75	30/75			

Model	Outdoor unit		GUID125W1/N/A-S GUID125W1/N/A-X(LCLH)		GUID125W1/N/A-S GUID125W1/N/A-X(LCLH)		GUID125W1/N/A-S GUID125W1/N/A-X(LCLH)		GUID125W1/N/A-S GUID125W1/N/A-X(LCLH)		GUID125W1/N/A-S GUID125W1/N/A-X(LCLH)	
	Indoor unit		Duct		Cassette		Floor ceiling					
			GUID125PH1/A-S		GUID125T1/A-S		GUID125ZD1/A-S					
Capacity	Cooling	kW	12.1	12.1	12.1	12.1	12.1	12.1				
		Btu/h	41200	41200	41200	41200	41200	41200				
	Heating	kW	13.5	13.5	13.5	13.5						
EER /COP	SEER/SCOP	Energy efficiency grade	Btu/h	46000	46000	46000	46000	46000	46000			
			-	3.38/3.65	3.38/3.65	3.10/3.40	3.10/3.40	3.30/3.60	3.30/3.60			
Power supply	Power input	Current input	-	6.10/4.10	6.10/4.10	6.10/4.10	6.10/4.10	6.3/4.0	6.3/4.0			
			V/Ph/Hz	220-240-1-50/60	380-415-3-50/60	220-240-1-50/60	380-415-3-50/60	220-240-1-50/60	380-415-3-50/60			
Refrigerant charge volume	Loading quantity	Air flow volume	Cooling	3.58	3.58	3.90	3.90	3.67	3.67			
			Heating	3.7	3.7	3.97	3.97	3.75	3.75			
ESP	Sound pressure level(SH/M/L)	Dimension (W×D×H)	A	17.2	17.2	18.60	18.60	17.50	17.50			
			Package	16.01×813×365	1601×813×365	933×903×335	933×903×335	1669×770×300	1669×770×300			
kg	Net weight/Gross weight	Dimension (W×D×H)	42.0/48.0	42.0/48.0	23.0/29.0	23.0/29.0	39.5/46.5	39.5/46.5				
			mm	/	/	950×950×52	950×950×52	/	/			
mm	Package	Net weight/Gross weight	/	/	1033×1020×110	1033×1020×110	/	/				
			kg	/	/	6.0/9.5	6.0/9.5	/	/			
dB(A)	Sound pressure level	Dimension (W×D×H)	58	58	58	58	58	58				
			mm	940×370×820	940×370×820	940×370×820	940×370×820	940×370×820	940×370×820			
mm	Package	Net weight/Gross weight	1093×497×885	1093×497×885	1093×497×885	1093×497×885	1093×497×885	1093×497×885				
			kg	66.0/73.0	76.0/83.0	66.0/73.0	76.0/83.0	66.0/73.0	76.0/83.0			
inch(mm)	Liquid	Outdoor diameter	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"				
			Gas	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"			
m	Height	Max. distance	30/75	30/75	30/75	30/75	30/75	30/75				
			Length	30/75	30/75	30/75	30/75	30/75	30/75			

Model	Outdoor unit		GUID160W1/N/A-X GUID160W1/N/A-X(LCLH)		
	Indoor unit		Duct		Floor ceiling
			GUID160PH1/A-S GUID160PH1/A-S		GUID160T1/A-S
Capacity	Cooling	kW	16.0	14.5	16.0
		Btu/h	54500	49400	54500
	Heating	kW	17.0	17.0	
EER /COP	SEER/SCOP	Energy efficiency grade	Btu/h	58000	58000
			-	2.96/3.62	2.74/2.98
Power supply	Power input	Current input	-	6.10/4.00	6.10/4.00
			V/Ph/Hz	380-415-3-50/60	380-415-3-50/60
Refrigerant charge volume	Loading quantity	Air flow volume	Cooling	5.40	5.30
			Heating	4.7	4.8
ESP	Sound pressure level(SH/M/L)	Dimension (W×D×H)	A	9.20	9.00
			Package	8.00	8.20
kg	Net weight/Gross weight	Dimension (W×D×H)	3.50	3.50	3.50
			unit	49/57	58/62
CFM	m³/h	Rated	1529/1354/1176/1000	1354/1235/1118/941	1412/1294/1118/941
			2600/2300/2000/1700	2300/2100/1900/1600	2400/2200/1900/1600
Pa	Range	ESP	50	0	0
			0-200	0	0
dB(A)	Sound pressure level	Dimension (W×D×H)	46/44/42/40	52/50/48/44	53/51/48/44
			1400×700×300	840×840×290	1570×665×235
mm	Package	Dimension (W×D×H)	1601×813×365	933×903×335	1669×770×300
			kg	54.0/61.0	42.0/49.0
kg	Net weight/Gross weight	Dimension (W×D×H)	55.0/62.0	26.0/33.0	42.0/49.0

## Control System Lineup

Controlling system	Model	Outlook	Duct	Cassette	Floor ceiling	Wall mounted
Remote Controller	YAP1F7		○	●	●	●
	YAP1F		○	○	○	○
Wired controller	XE7A-24/H		●	○	○	○
Wired controller (WiFi)	XE7A-24/HC		○	○	○	○
Duct unit LED panel (matched with remote controller)	JS13		○	○	○	○
Access control	LE60-24/H1		○	○	○	○
Centralized controller	CE52-24/F(C)		○	○	○	○
Modbus gateway	ME50-00/EG(M)		○	○	○	○
Wired controller	XE73-24/HC*		○	○	○	○

Note:

● means standard, ○ means optional.

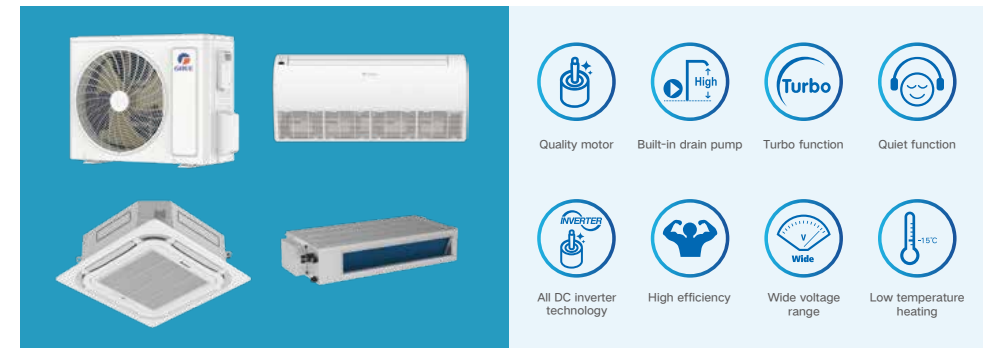
\*This product model is under development. Please confirm the final specifications with sales representatives.

## R32 Inverter Series (Heat Pump) (Non-EU)



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 ( $\pm 0.5^{\circ}\text{C}$ ) 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

» 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  $360^{\circ}$  air discharge panel, providing more comfortable air supply.

#### Floor ceiling type

» 3D air flue design.

» Modern and elegant appearance.








































» Four levels of fan speed.

» Wide swing angles.



Item	Nominal operating condition(temperature)				Operating range(temperature)
	Outdoor 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

Capacity index		35	50	71	85	100	125	140	160
Outdoor unit	220-240V ~1Ph-50/60Hz								
	380-415V ~3Ph-50/60Hz	/	/	/	/	/			
Indoor unit	Duct (without water pump)								
	Duct (with water pump)								
	Cassette								
	Floor ceiling								

## Specifications

Model	Outdoor unit		GUD35W1/NhB-S GUD35W1/NhB-S(LCLH)				
	Indoor unit		Duct(without water pump) GUD35P1/B-S	Duct(with water pump) GUD35PS1/B-S	Cassette GUD35T1/B-S	Floor ceiling GUD35ZD1/B-S	
Capacity	Cooling	kW	3.50	3.50	3.50	3.5	
		Btu/h	11900	11900	11900	11900	
Heating	kW	4.00	4.00	4.00	4.00		
	Btu/h	13600	13600	13600	13600		
EER /COP	W/W	3.40/4.00	3.40/4.00	3.80/4.00	3.80/4.30		
Power supply	V/Ph/Hz	220-240V ~50/60Hz	220-240V ~50/60Hz	220-240V ~50/60Hz	220-240V ~50/60Hz		
Power input	Cooling	kW	1.03	1.03	0.92	0.92	
	Heating	kW	1.00	1.00	1.00	0.93	
Current input	Cooling	A	4.90	4.90	4.40	4.40	
	Heating	A	4.80	4.80	4.80	4.45	
Refrigerant charge volume	kg	0.57	0.57	0.57	0.57		
Indoor unit	Air flow volume	CFM	353/324/294/235	353/324/294/235	353/324/294/235	383/353/294/235	
		m³/h	600/550/500/400	600/550/500/400	600/550/500/400	650/600/500/400	
	ESP	Rated	Pa	25	25	0	0
		Range	Pa	0-80	0-80	0	0
	Sound pressure level(SH/H/M/L)	dB(A)	35/33/32/30	35/33/32/30	36/35/33/29	35/34/31/28	
	Dimension (W × D × H)	Outline	mm	700 × 450 × 200	700 × 450 × 200	570 × 570 × 260	870 × 665 × 235
Package		mm	1008 × 568 × 275	1008 × 568 × 275	698 × 653 × 295	973 × 770 × 300	
Net weight/Gross weight	kg	17/21	18/22	16.5/21	24/28		
Panel	Dimension (W × D × H)	Outline	mm	-	620 × 620 × 47.5	-	
		Package	mm	-	693 × 693 × 115	-	
Net weight/Gross weight	kg	-	-	3.0/4.5	-		
Outdoor unit	Sound pressure level	dB(A)	48	48	48	48	
		Dimension (W × D × H)	Outline	mm	675 × 285 × 553	675 × 285 × 553	675 × 285 × 553
Package	mm	794 × 376 × 605	794 × 376 × 605	794 × 376 × 605	794 × 376 × 605		
Net weight/Gross weight	kg	24.5/27	24.5/27	24.5/27	24.5/27		
Connecting pipe	Outdoor diameter	Liquid	inch(mm)	1/4"	1/4"	1/4"	
		Gas	inch(mm)	3/8"	3/8"	3/8"	
	Max. distance	Height	m	15	15	15	
		Length	m	30	30	30	
Loading quantity	40'GP/40'HQ	unit	182/205	182/205	159/182	139/160	

Model	Outdoor unit		GUD50W1/NhB-S GUD50W1/NhB-S(LCLH)				
	Indoor unit		Duct(without water pump) GUD50P1/B-S	Duct(with water pump) GUD50PS1/B-S	Cassette GUD50T1/B-S	Floor ceiling GUD50ZD1/B-S	
Capacity	Cooling	kW	5.3	5.3	5.1	5.3	
		Btu/h	18000	18000	17400	18000	
Heating	kW	5.8	5.8	5.6	5.8		
	Btu/h	19700	19700	19100	19700		
EER /COP	W/W	3.27/4.00	3.27/4.00	3.22/3.88	3.35/3.86		
Power supply	V/Ph/Hz	220-240V ~50/60Hz	220-240V ~50/60Hz	220-240V ~50/60Hz	220-240V ~50/60Hz		
Power input	Cooling	kW	1.62	1.62	1.58	1.58	
	Heating	kW	1.45	1.45	1.52	1.50	
Current input	Cooling	A	7.40	7.40	7.20	7.20	
	Heating	A	6.60	6.60	6.90	6.80	
Refrigerant charge volume	kg	0.85	0.85	0.85	0.85		
Indoor unit	Air flow volume	CFM	647/589/530/412	647/589/530/412	424/383/353/294	647/589/530/412	
		m³/h	1100/1000/900/700	1100/1000/900/700	720/650/600/500	1100/1000/900/700	
	ESP	Rated	Pa	25	25	0	0
		Range	Pa	0-80	0-80	0	0
	Sound pressure level(SH/H/M/L)	dB(A)	40/38/37/35	40/38/37/35	43/41/39/36	47/45/43/38	
	Dimension (W × D × H)	Outline	mm	1000 × 450 × 200	1000 × 450 × 200	570 × 570 × 260	870 × 665 × 235
Package		mm	1308 × 568 × 275	1308 × 568 × 275	698 × 653 × 295	973 × 770 × 300	
Net weight/Gross weight	kg	23/28	24/29	17/21	25/29		
Panel	Dimension (W × D × H)	Outline	mm	-	620 × 620 × 47.5	-	
		Package	mm	-	693 × 693 × 115	-	
Net weight/Gross weight	kg	-	-	3.0/4.5	-		
Outdoor unit	Sound pressure level	dB(A)	49	49	49	49	
		Dimension (W × D × H)	Outline	mm	675 × 285 × 553	675 × 285 × 553	675 × 285 × 553
Package	mm	794 × 376 × 605	794 × 376 × 605	794 × 376 × 605	794 × 376 × 605		
Net weight/Gross weight	kg	27.5/30	27.5/30	27.5/30.0	27.5/30.0		
Connecting pipe	Outdoor diameter	Liquid	inch(mm)	1/4"	1/4"	1/4"	
		Gas	inch(mm)	1/2"	1/2"	1/2"	
	Max. distance	Height	m	15	15	15	
		Length	m	30	30	30	
Loading quantity	40'GP/40'HQ	unit	160/180	160/180	159/182	139/160	

Model	Outdoor unit		GUD71W1/NhB-S GUD71W1/NhB-S(LCLH)				
	Indoor unit		Duct(without water pump) GUD71PH1/B-S	Duct(with water pump) GUD71PHS1/B-S	Cassette GUD71T1/B-S	Floor ceiling GUD71ZD1/B-S	
Capacity	Cooling	kW	7.10	7.10	7.10	7.10	
		Btu/h	24200	24200	24200	24200	
	Heating	kW	8.00	8.00	8.00	8.00	
EER /COP	Power supply	W/W	3.22/3.60	3.22/3.60	3.22/3.40	3.22/3.40	
		V/Ph/Hz	220-240V ~50/60Hz	220-240V ~50/60Hz	220-240V ~50/60Hz	220-240V ~50/60Hz	
Power input	Cooling	kW	2.20	2.20	2.20	2.20	
		kW	2.22	2.22	2.35	2.35	
Current input	Cooling	A	10.10	10.10	10.10	10.10	
		A	10.20	10.20	10.75	10.75	
Refrigerant charge volume	Air flow volume	kg	1.10	1.10	1.10	1.10	
		CFM	765/706/647/530	765/706/647/530	765/706/647/530	706/647/589/471	
Indoor unit	ESP	Rated	Pa	25	0.00	0	
		Range	Pa	0-160	0-160	0	
	Sound pressure level(SH/H/M/L)	dB(A)	40/39/37/34	40/39/37/34	44/43/41/38	49/47/44/42	
		Dimension (W×D×H)	Outline	mm	900×655×260	900×655×260	840×840×200
	Net weight/Gross weight	Package	mm	1115×772×320	1115×772×320	943×923×245	973×770×300
		kg	28/32	29/33	21/27	25/29	
	Panel	Dimension (W×D×H)	Outline	mm	-	950×950×52	-
			Package	mm	-	1033×1020×110	-
	Outdoor unit	Net weight/Gross weight	kg	-	-	6/9.5	-
			Sound pressure level	dB(A)	58	58	58
Connecting pipe	Dimension (W×D×H)	Outline	mm	889×340×660	889×340×660	889×340×660	889×340×660
		Package	mm	1032×456×730	1032×456×730	1032×456×730	1032×456×730
Loading quantity	Net weight/Gross weight	kg	40/44	40/44	40/44	40/44	
		Outdoor diameter	Liquid	inch(mm)	3/8"	3/8"	3/8"
Connecting pipe	Max. distance	Gas	inch(mm)	5/8"	5/8"	5/8"	
		Height	m	20	20	20	
Loading quantity	Length	m	30	30	30		
		unit	98/109	98/109	87/99	100/114	

Model	Outdoor unit		GUD100W1/NhB-S GUD100W1/NhB-S(LCLH)				
	Indoor unit		Duct(without water pump) GUD100PH1/B-S	Duct(with water pump) GUD100PHS1/B-S	Cassette GUD100T1/B-S	Floor ceiling GUD100ZD1/B-S	
Capacity	Cooling	kW	10.00	10.00	10.00	10.00	
		Btu/h	34100	34100	34100	34100	
	Heating	kW	11.00	11.00	10.80	11.00	
EER /COP	Power supply	W/W	3.21/3.61	3.21/3.61	3.21/3.72	3.21/3.79	
		V/Ph/Hz	220-240V ~50/60Hz	220-240V ~50/60Hz	220-240V ~50/60Hz	220-240V ~50/60Hz	
Power input	Cooling	kW	3.12	3.12	3.12	3.12	
		kW	3.05	3.05	2.90	2.90	
Current input	Cooling	A	14.30	14.30	14.30	14.30	
		A	14.00	14.00	13.30	13.30	
Refrigerant charge volume	Air flow volume	kg	1.50	1.50	1.50	1.50	
		CFM	1000/942/824/706	1000/942/824/706	1059/942/824/706	1059/942/824/706	
Indoor unit	ESP	Rated	Pa	37	0	0	
		Range	Pa	0-160	0-160	0	
	Sound pressure level(SH/H/M/L)	dB(A)	45/44/43/41	45/44/43/41	49/47/43/40	49/47/44/42	
		Dimension (W×D×H)	Outline	mm	900×655×260	900×655×260	840×840×240
	Net weight/Gross weight	Package	mm	1115×772×320	1115×772×320	933×903×272	1303×770×300
		kg	29/33	30/34	23/29	32/37	
	Panel	Dimension (W×D×H)	Outline	mm	-	950×950×52	-
			Package	mm	-	1033×1020×110	-
	Outdoor unit	Net weight/Gross weight	kg	-	-	6.0/9.5	-
			Sound pressure level	dB(A)	58	58	58
Connecting pipe	Dimension (W×D×H)	Outline	mm	889×340×660	889×340×660	889×340×660	889×340×660
		Package	mm	1032×456×730	1032×456×730	1032×456×730	1032×456×730
Loading quantity	Net weight/Gross weight	kg	47/51	47/51	47/51	47/51.0	
		Outdoor diameter	Liquid	inch(mm)	3/8"	3/8"	3/8"
Connecting pipe	Max. distance	Gas	inch(mm)	5/8"	5/8"	5/8"	
		Height	m	20	20	20	
Loading quantity	Length	m	30	30	30		
		unit	98/109	98/109	84/94	92/102	

Model	Outdoor unit		GUD85W1/NhB-S GUD85W1/NhB-S(LCLH)				
	Indoor unit		Duct(without water pump) GUD85PH1/B-S	Duct(with water pump) GUD85PHS1/B-S	Cassette GUD85T1/B-S	Floor ceiling GUD85ZD1/B-S	
Capacity	Cooling	kW	8.50	8.50	8.50	8.50	
		Btu/h	29000	29000	29000	29000	
	Heating	kW	8.80	8.80	8.80	8.80	
EER /COP	Power supply	W/W	3.40/3.90	3.40/3.90	3.40/3.90	3.40/3.90	
		V/Ph/Hz	220-240V ~50/60Hz	220-240V ~50/60Hz	220-240V ~50/60Hz	220-240V ~50/60Hz	
Power input	Cooling	kW	2.50	2.50	2.50	2.50	
		kW	2.25	2.25	2.25	2.25	
Current input	Cooling	A	11.40	11.40	11.40	11.40	
		A	10.30	10.30	10.30	10.30	
Refrigerant charge volume	Air flow volume	kg	1.50	1.50	1.50	1.50	
		CFM	824/765/647/588	824/765/647/588	824/765/647/588	824/765/706/588	
Indoor unit	ESP	Rated	Pa	37	37	0	
		Range	Pa	0-160	0-160	0	
	Sound pressure level(SH/H/M/L)	dB(A)	43/41/39/37	43/41/39/37	47/46/42/38	46/45/43/39	
		Dimension (W×D×H)	Outline	mm	900×655×260	900×655×260	840×840×200
	Net weight/Gross weight	Package	mm	1115×772×320	1115×772×320	943×923×245	1303×770×300
		kg	28.5/32.5	29.5/33.5	21/27	32/37	
	Panel	Dimension (W×D×H)	Outline	mm	-	950×950×52	-
			Package	mm	-	1033×1020×110	-
	Outdoor unit	Net weight/Gross weight	kg	-	-	6.0/9.5	-
			Sound pressure level	dB(A)	57	57	57
Connecting pipe	Dimension (W×D×H)	Outline	mm	889×340×660	889×340×660	889×340×660	889×340×660
		Package	mm	1032×456×730	1032×456×730	1032×456×730	1032×456×730
Loading quantity	Net weight/Gross weight	kg	46/50	46/50	46/50	46/50	
		Outdoor diameter	Liquid	inch(mm)	3/8"	3/8"	3/8"
Connecting pipe	Max. distance	Gas	inch(mm)	5/8"	5/8"	5/8"	
		Height	m	25	25	25	
Loading quantity	Length	m	30	30	30		
		unit	98/109	98/109	87/99	92/102	

Model	Outdoor unit		GUD125W1/NhB-S GUD125W1/NhB-S(LCLH)		GUD125W1/NhB-S GUD125W1/NhB-S(LCLH)		GUD125W1/NhB-S GUD125W1/NhB-S(LCLH)		GUD125W1/NhB-S GUD125W1/NhB-S(LCLH)		GUD125W1/NhB-S GUD125W1/NhB-S(LCLH)	
	Indoor unit		Duct(without water pump) GUD125PH1/B-S		Duct(with water pump) GUD125PHS1/B-S		Cassette GUD125T1/B-S		Floor ceiling GUD125ZD1/B-S			
Capacity	Cooling	kW	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	
		Btu/h	42600	42600	42600	42600	42600	42600	42600	42600	42600	
	Heating	kW	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	
EER /COP	Power supply	W/W	3.21/3.78	3.21/3.78	3.21/3.78	3.21/3.78	2.84/3.50	2.84/3.50	3.29/4.00	3.29/4.00		
		V/Ph/Hz	380-415V 3N-50/60Hz	220-240V ~50/60Hz	380-415V 3N-50/60Hz	220-240V ~50/60Hz	380-415V 3N-50/60Hz	220-240V ~50/60Hz	380-415V 3N-50/60Hz	220-240V ~50/60Hz		
Power input	Cooling	kW	3.90	3.90	3.90	3.90	4.40	4.40	3.80	3.80		
		kW	3.70	3.70	3.70	3.70	4.00	4.00	3.50	3.50		
Current input	Cooling	A	18.50	18.50	18.50	18.50	21.00	21.00	18.00	18.00		
		A	17.70	17.70	17.70	17.70	19.00	19.00	16.70	16.70		
Refrigerant charge volume	Air flow volume	kg	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40		
		CFM	1294/1177/1059/883	1294/1177/1059/883	1294/1177/1059/883	1294/1177/1059/883	1235/1118/1000/883	1235/1118/1000/883	1353/1177/1000/824	1353/1177/1000/824		
Indoor unit	ESP	Rated	Pa	50	50	50	50	0	0	0		
		Range	Pa	0-160	0-160	0-160	0-160	0	0	0		
	Sound pressure level(SH/H/M/L)	dB(A)	46/45/44/42	46/45/44/42	46/45/44/42	46/45/44/42	53/51/48/46	53/51/48/46	51/49/45/41	51/49/45/41		
		Dimension (W×D×H)	Outline	mm	1340×655×260	1340×655×260	1340×655×260	1340×655×260	840×840×240	1570×665×235		
	Net weight/Gross weight	Package	mm	1568×770×323	1568×770×323	1568×770×323	1568×770×323	933×903×272	933×903×272	1669×770×300		
		kg	42/48	42/48	43/49	43/49	23/29	23/29	40/47	40/47		
	Panel	Dimension (W×D×H)	Outline	mm	-	-	-	-	950×950×52	-		
			Package	mm	-	-	-	-	1033×1020×110	-		
	Outdoor unit	Net weight/Gross weight	kg	-	-	-	-	6/9.5	-			
			Sound pressure level	dB(A)	59	59	59	59	59	59		
Connecting pipe	Dimension (W×D×H)	Outline	mm	940×370×820	940×370×820	940×370×820	940×370×820	940×370×820	940×370×820			
		Package	mm	1093×497×885	1093×497×885	1093×497×885	1093×497×885	1093×497×885	1093×497×885			
Loading quantity	Net weight/Gross weight	kg	70/77	70/77	70/77	70/77	70/77	70/77				
		Outdoor diameter	Liquid	inch(mm)	3/8"	3/8"	3/8"	3/8"	3/8"			
Connecting pipe	Max. distance	Gas	inch(mm)	5/8"	5/8"	5/8"	5/8"	5/8"				
		Height	m	30	30	30	30	30				
Loading quantity	Length	m	75	75	75	75	75					
		unit	64/72	64/72	64/72	64/72	68/78	68/78	62/74			

## Control System Lineup

Model	Outdoor unit		GLD140WT/NB-S X GLD140WT/NB-S/CLH		GLD140WT/NB-S GLD140WT/NB-S/CLH		GLD140WT/NB-S X GLD140WT/NB-S/CLH		GLD140WT/NB-S GLD140WT/NB-S/CLH		GLD140WT/NB-S X GLD140WT/NB-S/CLH		GLD140WT/NB-S GLD140WT/NB-S/CLH	
	Indoor unit		Duct/without water pump		Duct/with water pump		Cassette		Cassette		Floor ceiling		Floor ceiling	
Capacity	Cooling	kW	GLD140PH1/B-S		GLD140PH1/B-S		GLD140T1/B-S		GLD140T1/B-S		GLD140Z1/B-S		GLD140Z1/B-S	
			Heating	kW	Btu/h	GLD140PH1/B-S		GLD140PH1/B-S		GLD140T1/B-S		GLD140T1/B-S		GLD140Z1/B-S
EER / COP	WW	3.04/3.64				3.04/3.64		3.04/3.64		2.69/3.33		2.69/3.33		2.98/3.64
		Power supply	V/Ph/Hz	380-415V 3N-50/60Hz		220-240V -50/60Hz		380-415V 3N-50/60Hz		220-240V -50/60Hz		380-415V 3N-50/60Hz		220-240V -50/60Hz
Power input	Cooling			kW	4.60		4.60		5.20		5.20		4.70	
		Current input	Heating		A	7.30		22.00		8.00		24.00		7.50
Refrigerant charge volume	kg			A		21.00		21.00		7.70		23.00		7.00
		Indoor unit	Air flow volume		CFM	1294/1177/1059/883		1294/1177/1059/883		1294/1177/1059/883		1235/1118/1000/883		1353/1177/1000/824
ESP	Rated			Pa		50		50		50		50		0
		Range	Pa		0-160		0-160		0-160		0		0	
Sound pressure level(SHH/MML)	dB(A)			Outline	46/45/44/42		46/45/44/42		46/45/44/42		53/51/48/46		51/49/45/41	
		Dimension (W x D x H)	Package		mm	1340 x 655 x 260		1340 x 655 x 260		1340 x 655 x 260		840 x 840 x 240		840 x 840 x 240
Net weight/Gross weight	kg			Outline		42/48		42/48		42/48		23/29		23/29
		Panel	Dimension (W x D x H)		mm	-		-		-		950 x 950 x 52		950 x 950 x 52
Net weight/Gross weight	kg			Package		-		-		-		1033 x 1020 x 110		1033 x 1020 x 110
		Sound pressure level	dB(A)		Outline	59		59		59		59		59
Outdoor unit	Dimension (W x D x H)			mm		940 x 370 x 820		940 x 370 x 820		940 x 370 x 820		940 x 370 x 820		940 x 370 x 820
		Net weight/Gross weight	kg		Package	1093 x 497 x 885		1093 x 497 x 885		1093 x 497 x 885		1093 x 497 x 885		1093 x 497 x 885
Connecting pipe	Liquid			inch(mm)		3/8"		3/8"		3/8"		3/8"		3/8"
		Gas	inch(mm)		5/8"		5/8"		5/8"		5/8"		5/8"	
Max. distance	m			Height	30		30		30		30		30	
		Length	m		Length	75		75		75		75		75
Loading quantity	unit			40'GP/40'HQ		64/72		64/72		64/72		68/78		68/78

Model	Outdoor unit		GLD160WT/NB-S X GLD160WT/NB-S/CLH		GLD160WT/NB-S GLD160WT/NB-S/CLH		GLD160WT/NB-S X GLD160WT/NB-S/CLH		GLD160WT/NB-S GLD160WT/NB-S/CLH		GLD160WT/NB-S X GLD160WT/NB-S/CLH		GLD160WT/NB-S GLD160WT/NB-S/CLH	
	Indoor unit		Duct/without water pump		Duct/with water pump		Cassette		Cassette		Floor ceiling		Floor ceiling	
Capacity	Cooling	kW	GLD160PH1/B-S		GLD160PH1/B-S		GLD160T1/B-S		GLD160T1/B-S		GLD160Z1/B-S		GLD160Z1/B-S	
			Heating	kW	Btu/h	GLD160PH1/B-S		GLD160PH1/B-S		GLD160T1/B-S		GLD160T1/B-S		GLD160Z1/B-S
EER / COP	WW	2.9/3.6				2.9/3.6		2.9/3.6		2.85/3.4		2.85/3.4		2.96/3.75
		Power supply	V/Ph/Hz	380-415V 3N-50/60Hz		220-240V -50/60Hz		380-415V 3N-50/60Hz		220-240V -50/60Hz		380-415V 3N-50/60Hz		220-240V -50/60Hz
Power input	Cooling			kW	5.50		5.50		5.50		5.40		5.40	
		Current input	Heating		A	8.30		25.00		8.30		24.50		8.20
Refrigerant charge volume	kg			A		7.60		22.80		7.60		22.80		7.30
		Indoor unit	Air flow volume		CFM	1648/1471/1295/1059		1648/1471/1295/1059		1648/1471/1295/1059		1412/1295/1118/942		1530/1353/1177/942
ESP	Rated			Pa		50		50		50		50		0
		Range	Pa		0-200		0-200		0-200		0		0	
Sound pressure level(SHH/MML)	dB(A)			Outline	47/44/43/40		47/44/43/40		47/44/43/40		53/51/48/44		52/49/47/44	
		Dimension (W x D x H)	Package		mm	1400 x 700 x 300		1400 x 700 x 300		1400 x 700 x 300		840 x 840 x 290		840 x 840 x 290
Net weight/Gross weight	kg			Outline		52/59		52/59		52/59		25/32		42/49
		Panel	Dimension (W x D x H)		mm	-		-		-		950 x 950 x 52		950 x 950 x 52
Net weight/Gross weight	kg			Package		-		-		-		1033 x 1020 x 110		1033 x 1020 x 110
		Sound pressure level	dB(A)		Outline	70		70		60		60		60
Outdoor unit	Dimension (W x D x H)			mm		940 x 370 x 820		940 x 370 x 820		940 x 370 x 820		940 x 370 x 820		940 x 370 x 820
		Net weight/Gross weight	kg		Package	1093 x 497 x 885		1093 x 497 x 885		1093 x 497 x 885		1093 x 497 x 885		1093 x 497 x 885
Connecting pipe	Liquid			inch(mm)		3/8"		3/8"		3/8"		3/8"		3/8"
		Gas	inch(mm)		5/8"		5/8"		5/8"		5/8"		5/8"	
Max. distance	m			Height	30		30		30		30		30	
		Length	m		Length	75		75		75		75		75
Loading quantity	unit			40'GP/40'HQ		56/63		56/63		56/63		64/74		64/74

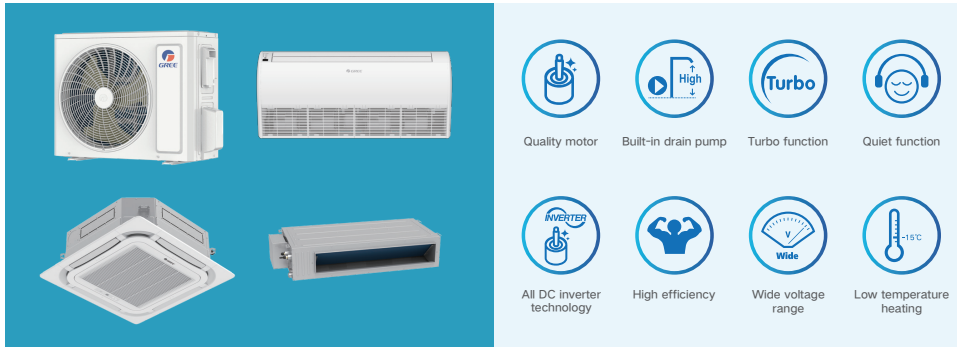
Controlling system	Model	Outlook	Duct	Cassette	Floor ceiling
Remote Controller	YAP1F		○	○	○
	YAP1F7		○	●	●
Wired controller	XE7A-24/H		●	○	○
Wired controller (WIFI)	XE7A-24/HC		○	○	○
Duct unit LED panel (matched with remote controller)	JS13		○	○	○
Access control	LE60-24/H1		○	○	○
Centralized controller	CE52-24/F(C)		○	○	○
Modbus gateway	ME50-00/EG(M)		○	○	○
Wired controller	XE73-24/HC*		○	○	○

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

## R32 Inverter Series (Cooling Only)(Southeast Asia)

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.

» Adopt high precision temperature and humidity dual sensors ( $\pm 0.5^{\circ}\text{C}$ ) 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

» 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  $360^{\circ}$  air discharge panel, providing more comfortable air supply.

#### Floor ceiling type

» 3D air flue design.

» Modern and elegant appearance.

» Four levels of fan speed.

» Wide swing angles.

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

### Units Lineup

Capacity index	50	71	85	100	125	140	160	
Outdoor unit								
Indoor unit	Duct (without water pump)							
	Duct (with water pump)							
	Cassette							
	Floor ceiling							



## Specifications

Model	Outdoor unit			GULD50W1/NhA-S			
	Indoor unit			Duct(without water pump)	Duct(with water pump)	Cassette	Floor ceiling
	GULD50P1/A-S			GULD50P1/A-S	GULD50P1/A-S	GULD50T1/A-S	GULD50ZD1/A-S
Capacity	Cooling	kW	5.30				
		Btu/h	18000				
EER /CSPF		W/W	3.40				
Power supply		V/Ph/Hz	220-240V ~50/60Hz				
Power input	Cooling	kW	1.56				
Current input	Cooling	A	7.40				
Refrigerant charge volume		kg	0.65				
Indoor unit	Air flow volume		CFM	647/589/530/412			
			m³/h	1100/1000/900/700			
	ESP	Rated	Pa	25			
		Range	Pa	0-80			
	Sound pressure level(SH/H/ML)		dB(A)	40/38/37/35			
	Dimension (W × D × H)		Outline	mm 1000 × 450 × 200			
			Package	mm 1308 × 568 × 275			
	Net weight/Gross weight		kg	22/27			
Panel	Dimension (W × D × H)		Outline	mm -			
			Package	mm -			
	Net weight/Gross weight		kg	-			
Sound pressure level		dB(A)	48				
Outdoor unit	Dimension (W × D × H)		Outline	mm 675 × 285 × 553			
			Package	mm 794 × 376 × 605			
	Net weight/Gross weight		kg	24.5/27			
Connecting pipe	Outdoor diameter		Liquid	inch(mm) 1/4"			
			Gas	inch(mm) 1/2"			
	Max. distance		Height	m 15			
			Length	m 30			
Loading quantity		40'GP/40'HQ	unit 160/180				

Model	Outdoor unit			GULD71W1/NhA-S			
	Indoor unit			Duct(without water pump)	Duct(with water pump)	Cassette	Floor ceiling
	GULD71PH1/A-S			GULD71PH1/A-S	GULD71PH1/A-S	GULD71T1/A-S	GULD71ZD1/A-S
Capacity	Cooling	kW	7.10				
		Btu/h	24200				
EER /COP		W/W	3.30				
Power supply		V/Ph/Hz	220-240V ~50/60Hz				
Power input	Cooling	kW	2.15				
Current input	Cooling	A	10.20				
Refrigerant charge volume		kg	0.40				
Indoor unit	Air flow volume		CFM	765/706/647/530			
			m³/h	1300/1200/1100/900			
	ESP	Rated	Pa	25			
		Range	Pa	0-160			
	Sound pressure level(SH/H/ML)		dB(A)	39/38/36/34			
	Dimension (W × D × H)		Outline	mm 900 × 655 × 260			
			Package	mm 1115 × 772 × 320			
	Net weight/Gross weight		kg	28/32			
Panel	Dimension (W × D × H)		Outline	mm -			
			Package	mm -			
	Net weight/Gross weight		kg	-			
Sound pressure level		dB(A)	56				
Outdoor unit	Dimension (W × D × H)		Outline	mm 899 × 340 × 660			
			Package	mm 1032 × 456 × 730			
	Net weight/Gross weight		kg	41.5/45			
Connecting pipe	Outdoor diameter		Liquid	inch(mm) 3/8"			
			Gas	inch(mm) 5/8"			
	Max. distance		Height	m 20			
			Length	m 30			
Loading quantity		40'GP/40'HQ	unit 98/109				

Model	Outdoor unit			GULD85W1/NhA-S			
	Indoor unit			Duct(without water pump)	Duct(with water pump)	Cassette	Floor ceiling
	GULD85PH1/A-S			GULD85PH1/A-S	GULD85PH1/A-S	GULD85T1/A-S	GULD85ZD1/A-S
Capacity	Cooling	kW	8.80				
		Btu/h	30000				
EER /COP		W/W	3.45				
Power supply		V/Ph/Hz	220-240V ~50/60Hz				
Power input	Cooling	kW	2.55				
Current input	Cooling	A	3.60				
Refrigerant charge volume		kg	1.40				
Indoor unit	Air flow volume(H/M/L)		CFM	1000/942/824/706			
			m³/h	1800/1600/1400/1200			
	ESP	Rated	Pa	37			
		Range	Pa	0-160			
	Sound pressure level(H/M/L)		dB(A)	48/46/44/43			
	Dimension (W × D × H)		Outline	mm 900 × 655 × 260			
			Package	mm 1115 × 772 × 320			
	Net weight/Gross weight		kg	29/33			
Panel	Dimension (W × D × H)		Outline	mm -			
			Package	mm -			
	Net weight/Gross weight		kg	-			
Sound pressure level		dB(A)	48				
Outdoor unit	Dimension (W × D × H)		Outline	mm 889 × 340 × 660			
			Package	mm 1032 × 456 × 730			
	Net weight/Gross weight		kg	44/47.5			
Connecting pipe	Outdoor diameter		Gas	inch(mm) 3/8"			
			Liquid	inch(mm) 5/8"			
	Max. distance		Height	m 20			
			Length	m 30			
Loading quantity		40'GP/40'HQ	unit 98/109				

Model	Outdoor unit			GULD100W1/NhA-S			
	Indoor unit			Duct(without water pump)	Duct(with water pump)	Cassette	Floor ceiling
	GULD100PH1/A-S			GULD100PH1/A-S	GULD100PH1/A-S	GULD100T1/A-S	GULD100ZD1/A-S
Capacity	Cooling	kW	10.50				
		Btu/h	35800				
EER /COP		W/W	3.20				
Power supply		V/Ph/Hz	220-240V ~50/60Hz				
Power input	Cooling	kW	3.28				
Current input	Cooling	A	14.30				
Refrigerant charge volume		kg	1.40				
Indoor unit	Air flow volume		CFM	1000/942/824/706			
			m³/h	1800/1600/1400/1200			
	ESP	Rated	Pa	37			
		Range	Pa	0-160			
	Sound pressure level(SH/H/ML)		dB(A)	48/46/44/43			
	Dimension (W × D × H)		Outline	mm 900 × 655 × 260			
			Package	mm 1115 × 772 × 320			
	Net weight/Gross weight		kg	29/33			
Panel	Dimension (W × D × H)		Outline	mm -			
			Package	mm -			
	Net weight/Gross weight		kg	-			
Sound pressure level		dB(A)	54				
Outdoor unit	Dimension (W × D × H)		Outline	mm 899 × 340 × 660			
			Package	mm 1032 × 456 × 730			
	Net weight/Gross weight		kg	44/47.5			
Connecting pipe	Outdoor diameter		Liquid	inch(mm) 3/8"			
			Gas	inch(mm) 5/8"			
	Max. distance		Height	m 20			
			Length	m 30			
Loading quantity		40'GP/40'HQ	unit 98/109				

Model	Outdoor unit		GULD125W1/NhA-S					
	Indoor unit		Duct(without water pump)	Duct(with water pump)	Cassette	Floor ceiling		
			GULD125PH1/A-S	GULD125T1/A-S	GULD125Z1/A-S	GULD125D1/A-S		
Capacity	Cooling	kW	12.50	12.50	12.50	12.50		
		Btu/h	42600	42600	42600	42600		
EER /COP		W/W	3.21	3.21	2.84/—	3.29		
Power supply		V/Ph/Hz	220-240V ~50/60Hz	220-240V ~50/60Hz	220-240V ~50/60Hz	220-240V ~50/60Hz		
Power input	Cooling	kW	3.90	3.90	4.40	3.80		
Current input	Cooling	A	18.50	18.50	21.00	18.00		
Refrigerant charge volume		kg	2.40	2.40	2.40	2.40		
Indoor unit	Air flow volume		CFM	1294/1177/1059/883	1294/1177/1059/883	1236/1118/1000/883	1354/1177/1000/824	
			m³/h	2200/2000/1800/1500	2200/2000/1800/1500	2100/1900/1700/1500	2300/2000/1700/1400	
	ESP	Rated	Pa	50	50	0	0	
		Range	Pa	0-160	0-160	0	0	
	Sound pressure level(SH/H/M/L)		dB(A)	44/43/41/39	44/43/41/39	52/50/47/45	49/46/42/39	
	Dimension (W × D × H)	Outline	mm	1340 × 655 × 260	1340 × 655 × 260	840 × 840 × 240	1570 × 665 × 235	
		Package	mm	1568 × 770 × 323	1568 × 770 × 323	933 × 903 × 272	1669 × 770 × 300	
	Net weight/Gross weight		kg	42/48	43/49	23/29	40/47	
	Panel	Dimension (W × D × H)	Outline	mm	-	-	950 × 950 × 52	-
			Package	mm	-	-	1033 × 1020 × 110	-
Net weight/Gross weight		kg	-	-	6.0/9.5	-		
Sound pressure level		dB(A)	58	58	58	58		
Outdoor unit	Dimension (W × D × H)	Outline	mm	940 × 370 × 820	940 × 370 × 820	940 × 370 × 820	940 × 370 × 820	
		Package	mm	1093 × 497 × 885	1093 × 497 × 885	1093 × 497 × 885	1093 × 497 × 885	
	Net weight/Gross weight		kg	69/76	69/76	69/76	69/76	
Connecting pipe	Outdoor diameter	Liquid	inch(mm)	3/8"	3/8"	3/8"	3/8"	
		Gas	inch(mm)	5/8"	5/8"	5/8"	5/8"	
	Max. distance	Height	m	30	30	30	30	
		Length	m	75	75	75	75	
Loading quantity		40'GP/40'HQ	unit	64/72	64/72	68/78	62/74	

Model	Outdoor unit		GULD160W1/NhA-S					
	Indoor unit		Duct(without water pump)	Duct(with water pump)	Cassette	Floor ceiling		
			GULD160PHS1/A-S	GULD160PHI/A-S	GULD160T1/A-S	GULD160ZD1/A-S		
Capacity	Cooling	kW	16.00	16.00	15.40	16.00		
		Btu/h	54500	54500	52500	54500		
EER /COP		W/W	2.91	2.91	2.85	2.96		
Power supply		V/Ph/Hz	220-240V ~50/60Hz	220-240V ~50/60Hz	220-240V ~50/60Hz	220-240V ~50/60Hz		
Power input	Cooling	kW	5.50	5.50	5.40	5.40		
Current input	Cooling	A	25.00	25.00	25.60	25.60		
Refrigerant charge volume		kg	2.90	2.90	2.90	2.90		
Indoor unit	Air flow volume		CFM	1648/1471/1295/1059	1648/1471/1295/1059	1412/1295/1118/942	1530/1354/1177/942	
			m³/h	2800/2500/2200/1800	2800/2500/2200/1800	2400/2200/1900/1600	2600/2300/2000/1600	
	ESP	Rated	Pa	50	50	0	0	
		Range	Pa	0-200	0-200	0	0	
	Sound pressure level(SH/H/M/L)		dB(A)	46/44/42/40	46/44/42/40	52/50/47/45	52/49/46/42	
	Dimension (W × D × 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	53/60	52/59	25/32	42/49	
	Panel	Dimension (W × D × H)	Outline	mm	-	-	950 × 950 × 52	-
			Package	mm	-	-	1033 × 1020 × 110	-
Net weight/Gross weight		kg	-	-	6.9/9.5	-		
Sound pressure level		dB(A)	60	60	60	60		
Outdoor unit	Dimension (W × D × H)	Outline	mm	940 × 370 × 820	940 × 370 × 820	940 × 370 × 820	940 × 370 × 820	
		Package	mm	1093 × 497 × 885	1093 × 497 × 885	1093 × 497 × 885	1093 × 497 × 885	
	Net weight/Gross weight		kg	72/79	72/79	72/79	72/79	
Connecting pipe	Outdoor diameter	Liquid	inch(mm)	3/8"	3/8"	3/8"	3/8"	
		Gas	inch(mm)	5/8"	5/8"	5/8"	5/8"	
	Max. distance	Height	m	30	30	30	30	
		Length	m	75	75	75	75	
Loading quantity		40'GP/40'HQ	unit	56/63	56/63	64/74	62/74	

## Control System Lineup

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

Note:

● means standard, ○ means optional.

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

# U-MATCH

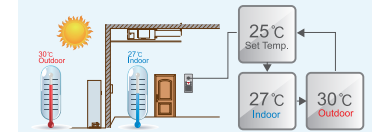
U-Match Series Air Conditioners fall between residential air conditioners and central air conditioners. Their capacity scope is wider than that of residential air conditioners: from 12KBtu/h to 60KBtu/h. Indoor units of floor ceiling type, duct type and cassette type are available. Their installation is simpler than that of conventional central air conditioners, with low installation cost and no need of welding. They are well suited to the areas from 16m<sup>2</sup> to 140m<sup>2</sup>, such as apartments, villas, hotels and offices.



## 1 More Convenient & Comfortable

### Multiple Temperature Displays

» Indoor set temperature, indoor ambient temperature and outdoor ambient temperature can be displayed. Meanwhile, the display of the three kinds of temperature can be switched freely through the remote controller or wired controller.



### Setting Function of Indoor Dual Temperature Sensors

» In order to better control indoor ambient temperature and improve user's comfort, dual indoor temperature sensors have been designed. Indoor unit and wired controller are equipped with the temperature sensors. The unit will automatically start the suitable temperature sensors according to the mode.



### Cold Air Prevention Function

» When the unit just starts heating or the outdoor unit just finishes defrosting, the temperature of indoor evaporator is quite low. If the indoor fan operates in this case, cold air will blow out. Our products are optimized in design to prevent cold air so as to improve user's comfort.

### Power-off Memory Function

» The user can set power-off memory function. If this function is activated, the unit will automatically operate in previous setting mode when power recovers after power failure.

### Low-temperature Cooling Function

» Although outdoor temperature is quite low in winter, some places with heat source (e.g. barbecue restaurant) still need cooling. Our unit is capable of cooling at outdoor ambient temperature of -15°C.

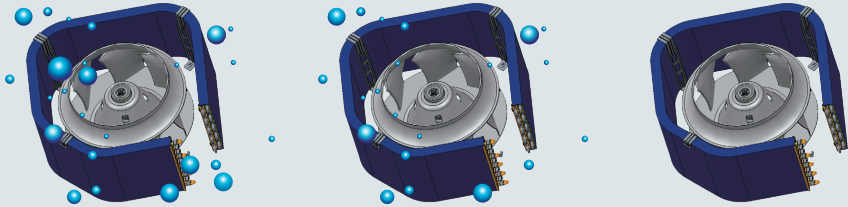
### Water Full Protection (Optional)

» If the water cannot drain out properly for the failure of water pump or other causes, this function will be activated automatically and the unit will stop for protection when the water in the indoor unit reaches a certain level.

## 2 Air Handling Function

### Mould Proof(X-FAN)

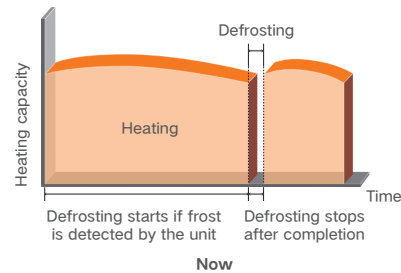
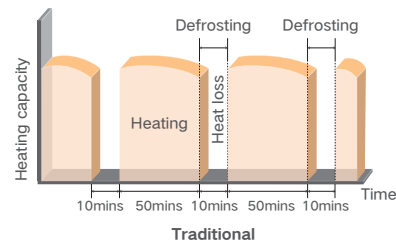
» Do you know that water in IDU will give birth to bacteria which will affect human health? U-Match will wipe out water, caring for your health!



## 3 Safer & More Reliable

### Intelligent Defrosting

» Did you ever feel annoyed when the air conditioner stopped heating because of defrosting? This problem has already been resolved by U-Match. Unit only starts defrosting when it's necessary, which is more energy-saving and comfortable.



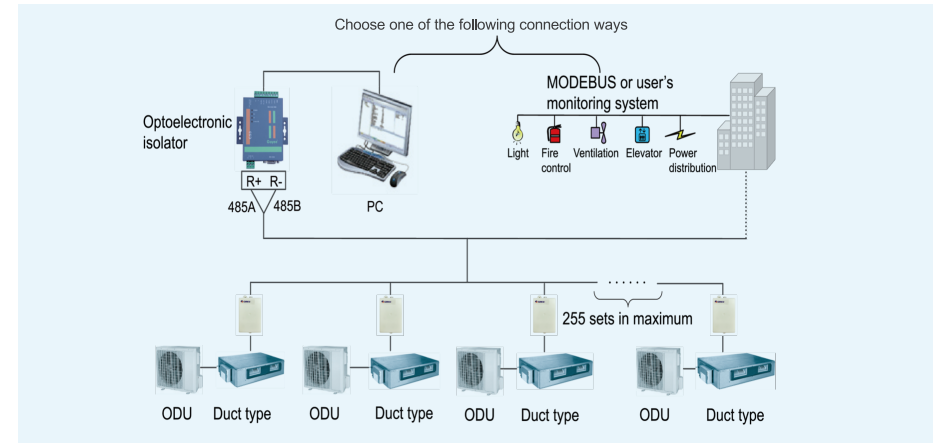
### Antifreezing Protection

» If frost of outdoor condenser is detected by the unit, the compressor will stop for protection.

## 4 Centralized Control Function

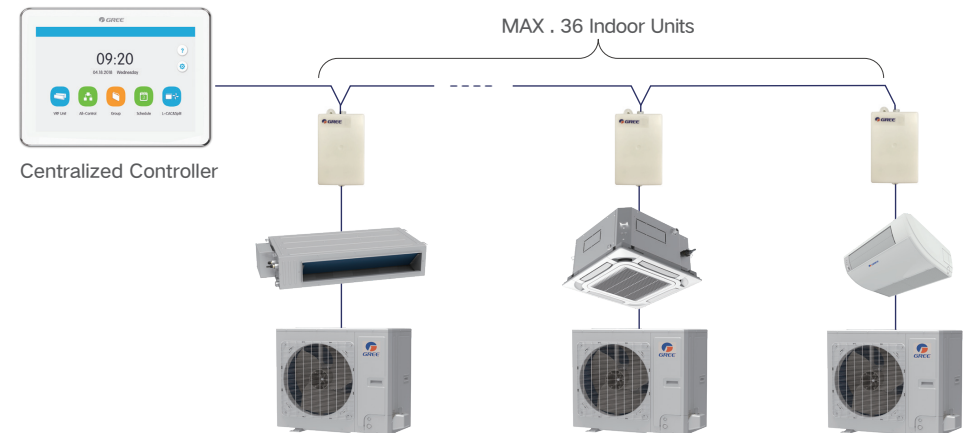
### Building Management System Interface (MODBUS Protocol) and Long-distance Monitoring

» If the unit is to be connected with the building management system, please consult Gree for the development of MODBUS protocol. In this case, the unit operation information will be sent to the building management system in order to control and monitor the units.



### Centralized Control Function

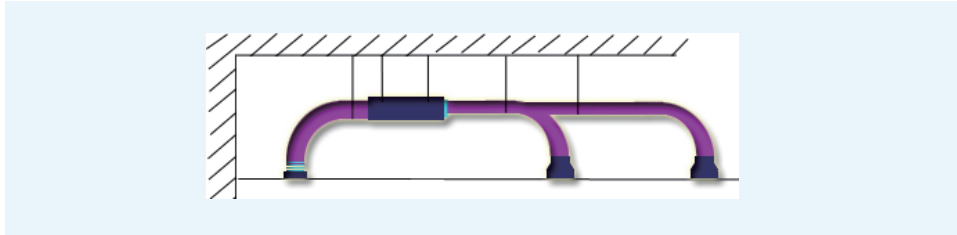
The indoor unit is equipped with the interface that can be connected with Centralized Controller, in order to realize central control of 36 units in maximum without connecting wired controller. It can control the on/off, mode, fan speed, temperature setting and timer of a single unit or a group of units.



## 5 Introduction of Indoor Units

### Duct Type Indoor Unit

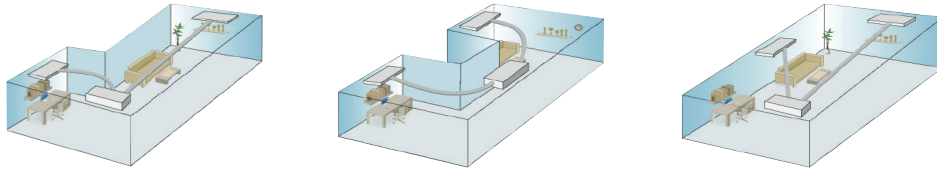
» The static pressure can be adjusted within 0~150pa, applicable for various installation requirements.



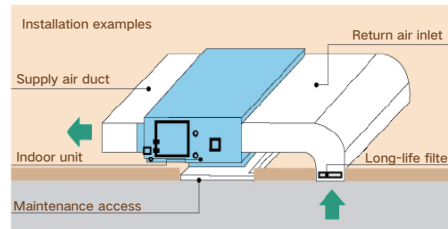
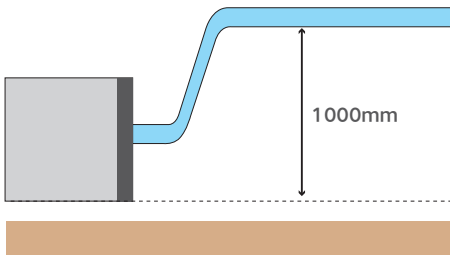
» Adjustable fan speed  
Fan speed of indoor unit can be adjusted by wired controller and there are 4 kinds of speed (turbo, high, medium, low) to meet different requirements.

» Highly flexible installation  
Highly flexible installation is possible to satisfy various needs.

» Flexible and easy to install in L shape, U shape and large rooms.

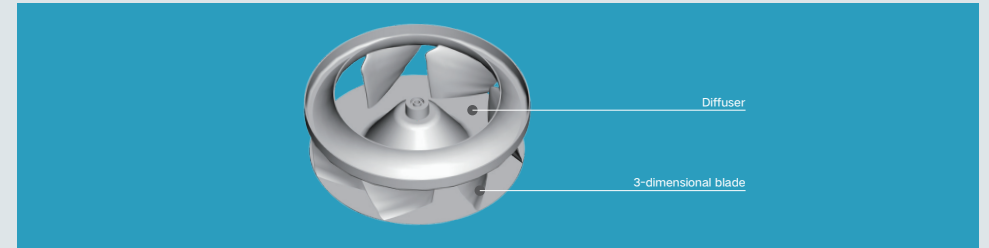


» Drain pump lift (Optional)



### Cassette Type

» Low noise with 3-dimensional blade

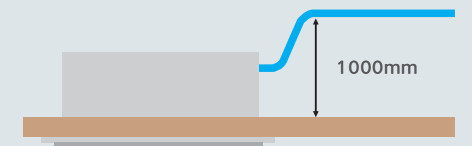
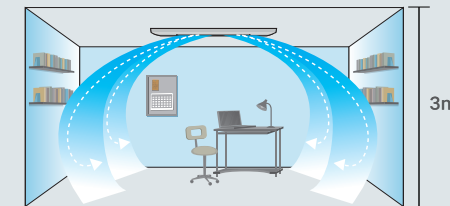
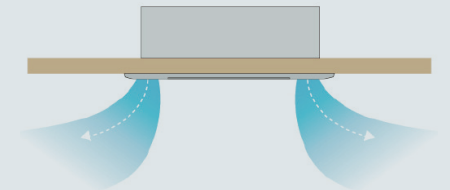
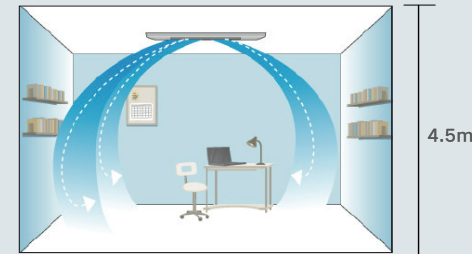


» High ceiling applications  
24K~60K units are applicable to the height below 4.5m

» Units below 24K are applicable to the height below 3m.

» Comfortable airflow  
Air supply in different directions with 30~60 degrees of swing angle for even temperature distribution.

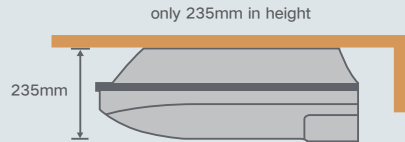
» Water drainage pump  
Drain pump fitted as standard with increased lift of 1000mm.





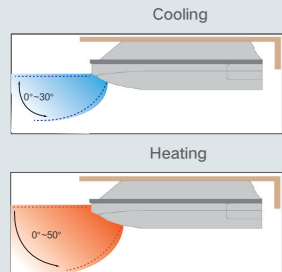
### Floor Ceiling Type Indoor Unit

» Compact design



» Wide discharge range

With cross-direction swing angle, the air supply range is wider.



» Easy maintenance

Convenient disassembly and maintenance thanks to the unique design.

» Microcomputer control

The complete control functions are controlled by microcomputer which not only shows all running modes and temperatures but also has functions like malfunction diagnosis and data search.

» Flexible installation

There are 2 installation methods: installation on the ceiling or floor.



Ceiling Type



Floor Standing Type

## U-Match Fixed Frequency Series (Heat Pump)



It is a kind of split system that the outdoor unit can be connected to various indoor units (duct, cassette or floor ceiling type) with cooling capacity from 3.5kW to 16kW.



» Design of double ambient temperature sensors makes precise temperature monitoring.

» With low ambient temperature cooling function, cooling is normal at -15°C.

» The outdoor unit is universal and can be matched with duct, cassette and floor ceiling type indoor units.

» The unit is designed with smaller dimension, which is easy to install and transport.

### 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.

#### 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.

» Four levels of fan speed.

» Wide swing angles.

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

Units Lineup

Capacity index		12'	50	71/85	100
Outdoor unit					
Indoor unit	Duct				
	Cassette				
	Floor ceiling				

Note:\*This model is "GUHN12NK3HO"

Capacity index		125	140	160
Outdoor unit				
Indoor unit	Duct			
	Cassette			
	Floor ceiling			

Specifications



Model	Outdoor unit		GUHN12NK3HO				
	Indoor unit		Duct(without water pump)	Duct(with water pump)	Cassette	Floor ceiling	
Capacity	Cooling	W	3600	3600	3550	3600	
		Btu/h	12300	12300	12100	12300	
	Heating	W	3700	3700	3700	3700	
		Btu/h	12600	12600	12600	12600	
EER/COP	W/W	2.67/2.85	2.67/2.85	2.69/3.08	2.67/2.85		
Power supply	V/Ph/Hz		220-240V -50Hz				
Power input	Cooling	kW	1.35	1.35	1.32	1.35	
	Heating	kW	1.30	1.30	1.20	1.30	
Current input	Cooling	A	6.40	6.40	6.30	6.40	
	Heating	A	6.20	6.20	5.80	6.20	
Refrigerant charge volume		kg	0.85	0.85	0.85	0.85	
	Air flow volume	CFM	330	330	330	412	
Indoor unit			m <sup>3</sup> /h	560	560	700	
	ESP	Rated	Pa	25	25	-	
		Range	Pa	0-30	0-30	-	
	Sound pressure level (SS/H/M/L)		dB(A)	37/34/30/26	37/34/30/26	42/40/38/35	39/34/30/23
		Outline	mm	700 × 485 × 200	700 × 485 × 200	665 × 595 × 240	870 × 235 × 665
	Dimension (W × D × H)	Package	mm	1008 × 568 × 275	1008 × 568 × 275	778 × 738 × 300	1033 × 770 × 300
Net weight/Gross weight		kg	18.5/22.0	19.0/22.5	19.5/24.0	25.0/30.0	
Panel	Dimension	Outline	mm	-	670 × 670 × 50	-	
	(W × D × H)	Package	mm	-	763 × 763 × 105	-	
	Net weight/Gross weight	kg	-	-	3.5/5.0	-	
Outdoor unit	Sound pressure level		dB(A)	52	52	52	
		Dimension	Outline	mm	848 × 320 × 540	848 × 320 × 540	848 × 320 × 540
	(W × D × H)	Package	mm	873 × 363 × 605	873 × 363 × 605	873 × 363 × 605	
	Net weight/Gross weight	kg	33.5/36.0	33.5/36.0	33.5/36.0	33.5/36.0	
Connection pipe	Outer diameter	Liquid	inch(mm)	Φ1/4(6.35)	Φ1/4(6.35)	Φ1/4(6.35)	
		Gas	inch(mm)	Φ1/2(12.70)	Φ1/2(12.7)	Φ1/2(12.70)	
	Max. distance	Height	m	15	15	15	
Length		m	20	20	20		
Loading quantity	40'GP/40'HQ	unit	164/183	164/183	128/140	128/144	

Model	Outdoor unit		GU50W/A1-K				
	Indoor unit		Duct(without water pump)	Duct(with water pump)	Cassette	Floor ceiling	
Capacity	Cooling	kW	4.75	4.75	4.8	5.0	
		Btu/h	16200	16200	16400	17100	
	Heating	kW	4.9	4.9	5.0	5.2	
		Btu/h	16700	16700	17100	17700	
EER/COP	W/W	2.97/3.50	2.97/3.50	3.10/3.70	3.03/3.59		
Power supply	V/Ph/Hz		220-240V -50Hz				
Power input	Cooling	kW	1.60	1.60	1.55	1.65	
	Heating	kW	1.40	1.40	1.35	1.45	
Current input	Cooling	A	7.65	7.65	7.42	7.90	
	Heating	A	6.70	6.70	6.46	6.94	
Refrigerant charge volume		kg	1.20	1.20	1.20	1.20	
	Air flow volume(SH/H/M/L)	CFM	383/341/282/235	383/341/282/235	412/353/294/235	412/353/294/235	
Indoor unit			m <sup>3</sup> /h	650/580/480/400	650/580/480/400	700/600/500/400	
	ESP	Rated	Pa	25	25	0	
		Range	Pa	0-60	0-60	0	
	Sound pressure level (SH/H/M/L)		dB(A)	35/32/30/27	35/32/30/27	44/43/38/35	41/40/37/33
		Outline	mm	1000 × 450 × 200	1000 × 450 × 200	570 × 570 × 265	870 × 665 × 235
	Dimension (W × D × H)	Package	mm	1308 × 568 × 275	1308 × 568 × 275	698 × 653 × 295	1033 × 770 × 300
Net weight/Gross weight		kg	24/29	25/30	17/21	25/30	
Panel	Dimension	Outline	mm	-	620 × 620 × 47.5	-	
	(W × D × H)	Package	mm	-	701 × 701 × 125	-	
	Net weight/Gross weight	kg	-	-	3.0/4.5	-	
Outdoor unit	Sound pressure level		dB(A)	51	51	51	
		Dimension	Outline	mm	761 × 256 × 548	761 × 256 × 548	761 × 256 × 548
	(W × D × H)	Package	mm	881 × 363 × 595	881 × 363 × 595	881 × 363 × 595	
	Net weight/Gross weight	kg	39/41.5	39/41.5	39/41.5		
Connection pipe	Outer diameter	Liquid	inch(mm)	Φ1/4(6.35)	Φ1/4(6.35)	Φ1/4(6.35)	
		Gas	inch(mm)	Φ1/2(12.7)	Φ1/2(12.7)	Φ1/2(12.7)	
	Max. distance	Height	m	15	15	15	
Length		m	30	30	30		
Loading quantity	40'GP/40'HQ	unit	149/171	149/171	134/156	126/144	

Specifications



Model	Outdoor unit		GU71W/A1-K				
	Indoor unit		Duct(without water pump)	Duct(with water pump)	Cassette	Floor ceiling	
			GU71P/A1-K	GU71S/A1-K	GU71T/A1-K	GU71ZD/A1-K	
Capacity	Cooling	kW	7.0	7.0	7.1	7.3	
		Btu/h	23900	23900	24200	24900	
Capacity	Heating	kW	7.4	7.4	7.4	7.7	
		Btu/h	25200	25200	25200	26300	
EER/COP		W/W	3.26/3.79	3.26/3.79	3.3/3.61	3.24/3.42	
Power supply		V/Ph/Hz	220-240V ~50Hz				
Power input	Cooling	kW	2.15	2.15	2.15	2.25	
	Heating	kW	1.95	1.95	2.05	2.25	
Current input	Cooling	A	10.28	10.28	10.28	10.76	
	Heating	A	9.32	9.32	9.80	10.52	
Refrigerant charge volume		kg	1.90	1.90	1.90	1.90	
Indoor unit	Air flow volume(SH/H/M/L)	CFM	677/618/559/530	677/618/559/530	736/677/589/530	824/765/706/589	
		m <sup>3</sup> /h	1150/1050/950/900	1150/1050/950/900	1250/1150/1000/900	1400/1300/1200/1000	
	ESP	Rated	Pa	25	25	0	0
		Range	Pa	0-60	0-60	0	0
	Sound pressure level (SH/H/M/L)	dB(A)	37/33/30/28	37/33/30/28	46/45/42/39	47/46/44/41	
	Dimension (W × D × H)	Outline	mm	1300 × 450 × 220	1300 × 450 × 220	840 × 840 × 240	1200 × 665 × 235
Package		mm	1628 × 578 × 300	1628 × 578 × 300	933 × 903 × 272	1363 × 770 × 300	
Net weight/Gross weight		kg	31/37	32/38	30/37	33/39	
Panel	Dimension (W × D × H)	Outline	mm	-	950 × 950 × 52	-	
		Package	mm	-	1033 × 1038 × 112	-	
	Net weight/Gross weight	kg	-	-	6.0/9.5	-	
Outdoor unit	Sound pressure level	dB(A)	53	53	53	53	
		mm	892 × 340 × 698	892 × 340 × 698	892 × 340 × 698	892 × 340 × 698	
	Dimension (W × D × H)	Package	mm	1029 × 458 × 750	1029 × 458 × 750	1029 × 458 × 750	1029 × 458 × 750
Net weight/Gross weight		kg	59/63	59/63	59/63	59/63	
Connection pipe	Outer diameter	Liquid	inch(mm)	Φ3/8(9.52)	Φ3/8(9.52)	Φ3/8(9.52)	Φ3/8(9.52)
		Gas	inch(mm)	Φ5/8(15.9)	Φ5/8(15.9)	Φ5/8(15.9)	Φ5/8(15.9)
	Max. distance	Height	m	15	15	15	15
		Length	m	30	30	30	30
Loading quantity		unit	82/96	82/96	80/86	90/92	

Specifications



Model	Outdoor unit		GU100W/A1-K				
	Indoor unit		Duct(without water pump)	Duct(with water pump)	Cassette	Floor ceiling	
			GU100PH/A1-K	GU100PHS/A1-K	GU100T/A1-K	GU100ZD/A1-K	
Capacity	Cooling	kW	10.1	10.1	10.1	10.1	
		Btu/h	34500	34500	34200	34500	
Capacity	Heating	kW	12	12	12	12	
		Btu/h	40900	40900	40900	40900	
EER/COP		W/W	2.77/3.43	2.77/3.43	2.90/3.53	2.77/3.24	
Power supply		V/Ph/Hz	220-240V ~50Hz				
Power input	Cooling	kW	3.65	3.65	3.45	3.65	
	Heating	kW	3.50	3.50	3.40	3.70	
Current input	Cooling	A	17.60	17.60	16.70	17.60	
	Heating	A	16.90	17.60	16.4	17.90	
Refrigerant charge volume		kg	2.10	2.10	2.10	2.10	
Indoor unit	Air flow volume(SH/H/M/L)	CFM	971/883/794/706	971/883/794/706	942/883/824/765	1000/883/824/765	
		m <sup>3</sup> /h	1650/1500/1350/1200	1650/1500/1350/1200	1600/1500/1400/1300	1700/1500/1400/1300	
	ESP	Rated	Pa	37	37	0	0
		Range	Pa	0-100	0-100	0	0
	Sound pressure level (SH/H/M/L)	dB(A)	44/42/38/35	44/42/38/35	52/50/48/45	52/50/48/48	
	Dimension (W × D × H)	Outline	mm	1000 × 813 × 700	1000 × 813 × 700	840 × 840 × 240	1200 × 700 × 665
Package		mm	1205 × 360 × 300	1205 × 360 × 300	933 × 903 × 272	1363 × 300 × 235	
Net weight/Gross weight		kg	40/46	41/47	30/37	36/42	
Panel	Dimension (W × D × H)	Outline	mm	-	950 × 950 × 52	-	
		Package	mm	-	1033 × 1038 × 112	-	
	Net weight/Gross weight	kg	-	-	6/9.5	-	
Outdoor unit	Sound pressure level	dB(A)	57	57	57	57	
		mm	920 × 370 × 790	920 × 370 × 790	920 × 370 × 790	920 × 370 × 790	
	Dimension (W × D × H)	Package	mm	1083 × 488 × 875	1083 × 488 × 875	1083 × 488 × 875	1083 × 488 × 875
Net weight/Gross weight		kg	70/75	70/75	70/75	70/75	
Connecting pipe	Outer diameter	Gas	inch(mm)	Φ3/8(9.52)	Φ3/8(9.52)	Φ3/8(9.52)	Φ3/8(9.52)
		Liquid	inch(mm)	Φ5/8(15.9)	Φ5/8(15.9)	Φ5/8(15.9)	Φ5/8(15.9)
	Max. distance	Height	m	20	20	20	20
		Length	m	30	30	30	30
Loading quantity		unit	68/79	68/79	64/71	72/86	

Model	Outdoor unit		GU85W/A1-K				
	Indoor unit		Duct(without water pump)	Duct(with water pump)	Cassette	Floor ceiling	
			GU85P/A1-K	GU85S/A1-K	GU85T/A1-K	GU85ZD/A1-K	
Capacity	Cooling	kW	8.3	8.3	8.3	8.6	
		Btu/h	28300	28300	28300	29300	
Capacity	Heating	kW	9.3	9.3	9.2	9.3	
		Btu/h	31700	31700	31400	31700	
EER/COP		W/W	3.07/3.58	3.07/3.58	3.13/3.68	3.19/3.32	
Power supply		V/Ph/Hz	220-240V ~50Hz				
Power input	Cooling	kW	2.70	2.70	2.65	2.70	
	Heating	kW	2.60	2.60	2.50	2.80	
Current input	Cooling	A	13.04	13.04	12.80	13.04	
	Heating	A	12.56	12.56	12.08	13.53	
Refrigerant charge volume		kg	1.80	1.80	1.80	1.80	
Indoor unit	Air flow volume(SH/H/M/L)	CFM	736/677/618/589	736/677/618/589	736/677/589/530	883/824/765/647	
		m <sup>3</sup> /h	1250/1150/1050/1000	1250/1150/1050/1000	1250/1150/1000/900	1500/1400/1300/1100	
	ESP	Rated	Pa	37	37	0	0
		Range	Pa	0-80	0-80	0	0
	Sound pressure level (SH/H/M/L)	dB(A)	40/36/33/32	40/36/33/32	46/45/42/39	49/48/47/44	
	Dimension (W × D × H)	Outline	mm	1300 × 450 × 220	1300 × 450 × 220	840 × 840 × 240	1200 × 665 × 235
Package		mm	1628 × 578 × 300	1628 × 578 × 300	933 × 903 × 272	1363 × 770 × 300	
Net weight/Gross weight		kg	31/37	32/38	30/37	33/39	
Panel	Dimension (W × D × H)	Outline	mm	-	950 × 950 × 52	-	
		Package	mm	-	1033 × 1038 × 112	-	
	Net weight/Gross weight	kg	-	-	6.0/9.5	-	
Outdoor unit	Sound pressure level	dB(A)	55	55	55	55	
		mm	892 × 340 × 698	892 × 340 × 698	892 × 340 × 698	892 × 340 × 698	
	Dimension (W × D × H)	Package	mm	1029 × 458 × 750	1029 × 458 × 750	1029 × 458 × 750	1029 × 458 × 750
Net weight/Gross weight		kg	61/65	61/65	61/65	61/65	
Connection pipe	Outer diameter	Liquid	inch(mm)	Φ3/8(9.52)	Φ3/8(9.52)	Φ3/8(9.52)	Φ3/8(9.52)
		Gas	inch(mm)	Φ5/8(15.9)	Φ5/8(15.9)	Φ5/8(15.9)	Φ5/8(15.9)
	Max. distance	Height	m	15	15	15	15
		Length	m	30	30	30	30
Loading quantity		set	82/96	82/96	80/86	90/92	

Model	Outdoor unit		GU100W/A1-M				
	Indoor unit		Duct(without water pump)	Duct(with water pump)	Cassette	Floor ceiling	
			GU100PH/A1-K	GU100PHS/A1-K	GU100T/A1-K	GU100ZD/A1-K	
Capacity	Cooling	kW	10.1	10.1	10.1	10.1	
		Btu/h	34500	34500	34200	34500	
Capacity	Heating	kW	12.0	12.0	12.0	12.0	
		Btu/h	40900	40900	40900	40900	
EER/COP		W/W	3.16/3.75	3.16/3.75	3.08/3.69	3.16/3.52	
Power supply		V/Ph/Hz	380-415V 3N~ 50Hz				
Power input	Cooling	kW	3.20	3.20	3.25	3.20	
	Heating	kW	3.20	3.20	3.25	3.40	
Current input	Cooling	A	5.60	5.60	5.70	5.60	
	Heating	A	5.60	5.60	5.60	5.90	
Refrigerant charge volume		kg	2.10	2.10	2.10	2.10	
Indoor unit	Air flow volume(SH/H/M/L)	CFM	971/883/794/706	971/883/794/706	942/883/824/765	1000/883/824/765	
		m <sup>3</sup> /h	1650/1500/1350/1200	1650/1500/1350/1200	1600/1500/1400/1300	1700/1500/1400/1300	
	ESP	Rated	Pa	37	37	0	0
		Range	Pa	0-100	0-100	0	0
	Sound pressure level (SH/H/M/L)	dB(A)	44/42/38/35	44/42/38/35	52/50/48/45	52/50/48/48	
	Dimension (W × D × H)	Outline	mm	1000 × 700 × 300	1000 × 700 × 300	840 × 840 × 240	1200 × 665 × 235
Package		mm	1205 × 813 × 360	1205 × 813 × 360	933 × 903 × 272	1363 × 770 × 300	
Net weight/Gross weight		kg	40/46	41/47	30/37	36/42	
Panel	Dimension (W × D × H)	Outline	mm	-	950 × 950 × 52	-	
		Package	mm	-	1033 × 1038 × 112	-	
	Net weight/Gross weight	kg	-	-	6.0/9.5	-	
Outdoor unit	Sound pressure level	dB(A)	56	56	56	56	
		mm	920 × 370 × 790	920 × 370 × 790	920 × 370 × 790	920 × 370 × 790	
	Dimension (W × D × H)	Package	mm	1083 × 488 × 875	1083 × 488 × 875	1083 × 488 × 875	1083 × 488 × 875
Net weight/Gross weight		kg	70/75	70/75	70/75	70/75	
Connection pipe	Outer diameter	Liquid	inch(mm)	Φ3/8(9.52)	Φ3/8(9.52)	Φ3/8(9.52)	Φ3/8(9.52)
		Gas	inch(mm)	Φ5/8(15.9)	Φ5/8(15.9)	Φ5/8(15.9)	Φ5/8(15.9)
	Max. distance	Height	m	20	20	20	20
		Length	m	30	30	30	30
Loading quantity		unit	68/79	68/79	64/71	72/86	

Specifications



Model	Outdoor unit		GU125W/A1-M				
	Indoor unit		Duct(without water pump) GU125PH/A1-K	Duct(with water pump) GU125PHS/A1-K	Cassette GU125T/A1-K	Floor ceiling GU125ZD/A1-K	
Capacity	Cooling	kW	12.0	12.0	12.0	12.0	
		Btu/h	40900	40900	40900	40900	
	Heating	kW	14.6	14.6	14.8	19.1	
		Btu/h	49800	49800	50500	65200	
EER/COP	W/W		2.76/3.17	2.76/3.17	2.86/3.52	2.86/3.26	
Power supply	V/Ph/Hz		380-415V 3N- 50Hz				
Power input	Cooling	kW	4.35	4.35	4.20	4.20	
		kW	4.60	4.60	4.20	4.45	
Current input	Cooling	A	7.50	7.50	7.30	7.30	
		A	8.00	8.00	7.30	7.70	
Refrigerant charge volume	kg		2.85	2.85	2.85	2.85	
Indoor unit	Air flow volume(SH/H/M/L)	CFM	1000/912/853/794	1000/912/853/794	942/883/824/765	1000/883/824/765	
		m <sup>3</sup> /h	1700/1550/1450/1350	1700/1550/1450/1350	1600/1500/1400/1300	1700/1500/1400/1300	
	ESP	Rated	Pa	50	50	0	0
		Range	Pa	0-100	0-100	0	0
	Sound pressure level (SH/H/M/L)	dB(A)	44/41/38/35	44/41/38/35	52/50/49/47	52/50/49/48	
	Dimension (W × D × H)	Outline	mm	1000 × 700 × 300	1000 × 700 × 300	840 × 840 × 240	1200 × 665 × 235
		Package	mm	1205 × 813 × 360	1205 × 813 × 360	933 × 903 × 272	1363 × 770 × 300
	Net weight/Gross weight	kg		41/47	42/48	33/40	37/43
	Panel	Dimension (W × D × H)	Outline	mm	-	950 × 950 × 52	-
			Package	mm	-	1033 × 1038 × 112	-
Net weight/Gross weight		kg		-	6.0/9.5	-	
Outdoor unit	Sound pressure level	dB(A)	58	58	58	58	
	Dimension (W × D × H)	Outline	mm	940 × 460 × 820	940 × 460 × 820	940 × 460 × 820	940 × 460 × 820
		Package	mm	1083 × 573 × 973	1083 × 573 × 973	1083 × 573 × 973	1083 × 573 × 973
	Net weight/Gross weight	kg		95/106	95/106	95/106	95/106
Connection pipe	Outer diameter	Liquid	inch(mm)	Φ3/8(9.52)	Φ3/8(9.52)	Φ3/8(9.52)	Φ3/8(9.52)
		Gas	inch(mm)	Φ5/8(15.9)	Φ5/8(15.9)	Φ5/8(15.9)	Φ5/8(15.9)
	Max. distance	Height	m	30	30	30	30
		Length	m	50	50	50	50
Loading quantity	40'GP/40'HQ		unit	51/58	51/58	54/64	57/68

Specifications



Model	Outdoor unit		GU160W/A1-M				
	Indoor unit		Duct(without water pump) GU160PH/A1-K	Duct(with water pump) GU160PHS/A1-K	Cassette GU160T/A1-K	Floor ceiling GU160ZD/A1-K	
Capacity	Cooling	kW	16.0	16.0	15.0	15.8	
		Btu/h	54600	54600	51200	53900	
	Heating	kW	19.0	19.0	17.4	19.1	
		Btu/h	64800	64800	59400	65200	
EER/COP	W/W		2.91/3.52	2.91/3.52	2.83/3.11	2.88/3.54	
Power supply	V/Ph/Hz		380-415V 3N- 50Hz				
Power input	Cooling	kW	5.50	5.50	5.30	5.48	
		kW	5.40	5.40	5.60	5.40	
Current input	Cooling	A	9.6	9.6	9.2	9.6	
		A	9.4	9.4	9.8	9.4	
Refrigerant charge volume	kg		4.2	4.2	4.2	4.2	
Indoor unit	Air flow volume(SH/H/M/L)	CFM	1530/1471/1354	1530/1471/1354	1177/1118/1059/942	1471/1354/1295/1236	
		m <sup>3</sup> /h	2600/2500/2300/2000	2600/2500/2300/2000	2000/1900/1800/1600	2500/2300/2200/2100	
	ESP	Rated	Pa	50	50	0	0
		Range	Pa	0-150	0-150	0	0
	Sound pressure level (SH/H/M/L)	dB(A)	47/45/40/37	47/45/40/37	55/51/47/45	54/53/52/51	
	Dimension (W × D × 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	1729 × 770 × 300
	Net weight/Gross weight	kg		55/62	55/62	34/41	45/52
	Panel	Dimension (W × D × H)	Outline	mm	-	950 × 950 × 52	-
			Package	mm	-	1033 × 1038 × 112	-
Net weight/Gross weight		kg		-	6.0/9.5	-	
Outdoor unit	Sound pressure level	dB(A)	60	60	60	60	
	Dimension (W × D × H)	Outline	mm	940 × 460 × 820	940 × 460 × 820	940 × 460 × 820	940 × 460 × 820
		Package	mm	1083 × 573 × 973	1083 × 573 × 973	1083 × 573 × 973	1083 × 573 × 973
	Net weight/Gross weight	kg		103/114	103/114	103/114	103/114
Connection pipe	Outer diameter	Liquid	inch(mm)	Φ3/8(9.52)	Φ3/8(9.52)	Φ3/8(9.52)	Φ3/8(9.52)
		Gas	inch(mm)	Φ5/8(15.9)	Φ5/8(15.9)	Φ5/8(15.9)	Φ5/8(15.9)
	Max. distance	Height	m	30	30	30	30
		Length	m	50	50	50	50
Loading quantity	40'GP/40'HQ		unit	51/58	51/58	52/62	58/62

Model	Outdoor unit		GU140W/A1-M				
	Indoor unit		Duct(without water pump) GU140PH/A1-K	Duct(with water pump) GU140PHS/A1-K	Cassette GU140T/A1-K	Floor ceiling GU140ZD/A1-K	
Capacity	Cooling	kW	14.6	14.6	14.01	14.1	
		Btu/h	49800	49800	47800	48100	
	Heating	kW	16.3	16.3	15.1	16.5	
		Btu/h	55600	55600	51500	56300	
EER/COP	W/W		3.24/3.79	3.24/3.79	3.11/3.51	3.13/3.75	
Power supply	V/Ph/Hz		380-415V 3N- 50Hz				
Power input	Cooling	kW	4.5	4.5	4.5	4.5	
		kW	4.3	4.3	4.3	4.4	
Current input	Cooling	A	7.8	7.8	7.8	7.8	
		A	7.5	7.5	7.5	7.7	
Refrigerant charge volume	kg		3.3	3.3	3.3	3.3	
Indoor unit	Air flow volume(SH/H/M/L)	CFM	1295/1177/1059/883	1295/1177/1059/883	1177/1118/1059/942	1295/1236/1177/1118	
		m <sup>3</sup> /h	2200/2000/1800/1500	2200/2000/1800/1500	2000/1900/1800/1600	2200/2100/2000/1900	
	ESP	Rated	Pa	50	50	0	0
		Range	Pa	0-150	0-150	0	0
	Sound pressure level (SH/H/M/L)	dB(A)	45/44/41/37	45/44/41/37	54/51/47/45	54/53/52/51	
	Dimension (W × D × 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	1729 × 770 × 300
	Net weight/Gross weight	kg		52/59	53/60	34/41	43/50
	Panel	Dimension (W × D × H)	Outline	mm	-	950 × 950 × 52	-
			Package	mm	-	1033 × 1038 × 112	-
Net weight/Gross weight		kg		-	6.0/9.5	-	
Outdoor unit	Sound pressure level	dB(A)	58	58	58	58	
	Dimension (W × D × H)	Outline	mm	940 × 460 × 820	940 × 460 × 820	940 × 460 × 820	940 × 460 × 820
		Package	mm	1083 × 573 × 973	1083 × 573 × 973	1083 × 573 × 973	1083 × 573 × 973
	Net weight/Gross weight	kg		97/108	97/108	97/108	97/108
Connection pipe	Outer diameter	Liquid	inch(mm)	Φ3/8(9.52)	Φ3/8(9.52)	Φ3/8(9.52)	Φ3/8(9.52)
		Gas	inch(mm)	Φ5/8(15.9)	Φ5/8(15.9)	Φ5/8(15.9)	Φ5/8(15.9)
	Max. distance	Height	m	30	30	30	30
		Length	m	50	50	50	50
Loading quantity	40'GP/40'HQ		unit	51/58	51/58	52/62	58/62

Control System Lineup

Control system	Product series	Duct type	Cassette type	Floor ceiling type
Wired controller	XK117 	●	○	○
	XE71-42/G 	○	○	○
Remote controller	YAW1F9(WiFi) <sup>1</sup> 	○	○	○
	YB1FA(MOTO) 	○	○	○
	YAP1F6(WiFi) 	○	○	○
WiFi module (G-Cloud) <sup>2</sup>	ME31-00/C4 ME31-00/C6 	○	○	○
MODBUS gateway	ME50-00/EG(M) 	○	○	○
Centralized controller (up to 36 indoor units)	CE52-24(F/C) 	○	○	○
Dry contact gateway <sup>3</sup> (extended function board)	ME30-42/E1 	○	○	○
Door controller	MK03 	○	○	○
BACnet gateway	ME30-44/D2(B) 	○	○	○

Note:  
● means standard, ○ means optional.

\*1: Controller(cooling only)

\*2: Please contact the sales representative for WiFi module selection.

\*3: Function: ON/OFF input control, emergency stop input, error output, cold plasma control, fresh air control.

U-Match  
Fixed Frequency Series(Cooling Only)



It is a kind of split system that the outdoor unit can be connected to various indoor units (duct, cassette or floor ceiling type) with cooling capacity from 2.6kW to 16kW.



- » Design of double ambient temperature sensors makes precision temperature monitoring.
- » With low ambient temperature cooling function, cooling is normal at 5°C.
- » The outdoor unit is universal and can be matched with duct, cassette and floor ceiling type indoor units.
- » The unit is designed with smaller dimension, and the body weight of the whole series are less than 96kg, which is easy for installation and transportation.

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.

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

Item	Nominal operating condition (temperature)				Operating range (temperature)
	Outdoor condition		Indoor condition		Outdoor condition
	DB(°C)	WB(°C)	DB(°C)	WB(°C)	DB(°C)
Cooling	35	24	27	19	5~48



## Units Lineup

Capacity index		26	35	50
Outdoor unit				
Indoor unit	Duct			
	High ESP duct	—	—	
	Cassette	—	—	
	Floor ceiling	—	—	

Capacity index		125	140	160
Outdoor unit				
Indoor unit	Duct			
	High ESP duct			
	Cassette			
	Floor ceiling			

Capacity index		71	85	100
Outdoor unit				
Indoor unit	Duct			
	High ESP duct			
	Cassette			
	Floor ceiling			

## Specifications

Model	Outdoor unit		GUL26W/A-K		GUL35W/A-K		
	Indoor unit		Duct	Duct	Duct	Duct	
			GU26P/A-K	GU26PS/A-K	GU35P/A-K	GU35PS/A-K	
Capacity	Cooling	kW	2.73	2.73	3.55	3.55	
		Btu/h	9300	9300	12100	12100	
EER		W/W	3.17	3.17	3.09	3.09	
Power supply		V/Ph/Hz	220-240V ~50Hz				
Power input	Cooling	kW	0.86	0.86	1.15	1.15	
Current input	Cooling	A	3.85	3.85	5.00	5.00	
Refrigerant charge volume		kg	0.52	0.52	0.52	0.52	
Indoor unit	Air flow volume	CFM	294	294	353	353	
		m <sup>3</sup> /h	500	500	600	600	
	ESP	Rated	Pa	25	25	25	25
		Range	Pa	0-60	0-60	0-60	0-60
	Sound pressure level		dB(A)	37	37	38	38
Dimension (W × D × H)	Outline	mm	700 × 450 × 200	700 × 450 × 200	700 × 450 × 200	700 × 450 × 200	
	Package	mm	1008 × 568 × 275	1008 × 568 × 275	1008 × 568 × 275	1008 × 568 × 275	
Net weight/Gross weight		kg	18.0/23.0	19.0/24.0	18.0/23.0	19.0/24.0	
Panel	Dimension (W × D × H)	Outline	mm	-	-	-	
	Package	mm	-	-	-	-	
Net weight/Gross weight		kg	-	-	-	-	
Outdoor unit	Dimension (W × D × H)	Outline	mm	712 × 256 × 548	712 × 256 × 548	712 × 256 × 548	712 × 256 × 548
		Package	mm	823 × 358 × 595	823 × 358 × 595	823 × 358 × 595	823 × 358 × 595
	Net weight/Gross weight		kg	27.0/29.0	27.0/29.0	28.0/30.0	28.0/30.0
Connection pipe	Outdoor diameter	Liquid	inch(mm)	Φ 1/4(6)	Φ 1/4(6)	Φ 1/4(6)	Φ 1/4(6)
		Gas	inch(mm)	Φ 3/8(9.52)	Φ 3/8(9.52)	Φ 1/2(12)	Φ 1/2(12)
	Max. distance	Length	m	10	10	10	10
Loading quantity	40'GP/40'HQ	unit		181/204	181/204	181/204	181/204

Model	Outdoor unit		GUL50W/A-K						
	Indoor unit		Duct	Duct with water pump	High ESP duct	Cassette	Cassette	Floor ceiling	
			GU50P/A-K	GU50PS/A-K	GU50PHS/A-K	GU50T/A-K	GU50ZD/A-K		
Capacity	Cooling	kW	5	5	5	4.9	5.36	5	
		Btu/h	17100	17100	17100	16700	18300	17100	
EER		W	3.12	3.12	3.12	3.06	3.35	3.03	
Power supply		V/Ph/Hz	220-240V -50Hz						
Power input	Cooling	kW	1.60	1.60	1.60	1.60	1.60	1.65	
Current input	Cooling	A	7.5	7.5	7.5	7.5	7.5	7.7	
Refrigerant charge volume		kg	0.9	0.9	0.9	0.9	0.9	0.9	
Indoor unit	Air flow volume	CFM	383	383	530	412	765	412	
		m <sup>3</sup> /h	650	650	900	700	1300	700	
	ESP	Rated	Pa	25	25	25	0	0	0
		Range	Pa	0-60	0-60	0-100	0	0	0
	Sound pressure level (SH/H/M/L)	dB(A)	33/30/27/25	33/30/27/25	41/37/33/31	44/43/38/35	45/42/39/35	41/40/37/33	
	Dimension (W×D×H)	Outline	mm	1000×450×200	1000×450×200	700×700×300	570×570×265	840×840×200	870×665×235
Package		mm	1308×568×275	1308×568×275	897×808×360	698×653×295	943×923×245	1033×770×300	
Net weight/Gross weight	kg	24.0/29.0	25.0/30.0	32.0/37.0	17.0/21.0	23.0/30.0	25.0/30.0		
Panel	Dimension (W×D×H)	Outline	mm	-	-	-	620×620×47.5	-	-
		Package	mm	-	-	-	701×701×125	-	-
	Net weight/Gross weight	kg	-	-	-	3/4.5	-	-	
Outdoor unit	Dimension (W×D×H)	Outline	mm	761×256×548	761×256×548	761×256×548	761×256×548	950×950×52	761×256×548
		Package	mm	881×363×595	881×363×595	881×363×595	881×363×595	1033×1020×110	881×363×595
	Net weight/Gross weight	kg	37.0/39.5	37.0/39.5	37.0/39.5	37.0/39.5	6.0/9.5	37.0/39.5	
Connection pipe	Outdoor diameter	Liquid	inch(mm)	Φ1/4(6.35)					
		Gas	inch(mm)	Φ1/2(12.7)					
	Max. distance	Height	m	15	15	15	15	15	15
		Length	m	30	30	30	30	30	30
Loading quantity	40'GP/40'HQ	unit	154/176	154/176	119/140	150/174	106/125	126/146	

Model	Outdoor unit		GUL71W/A-K					
	Indoor unit		Duct	Duct with water pump	High ESP duct	Cassette	Floor ceiling	
			GU71P/A-K	GU71PS/A-K	GU71PHS/A-K	GU71T/A-K	GU71ZD/A-K	
Capacity	Cooling	kW	7.10	7.10	7.20	7.10	7.10	
		Btu/h	24200	24200	24600	24200	24200	
EER		W	3.02	3.02	3.00	3.02	2.96	
Power supply		V/Ph/Hz	220-240V -50Hz					
Power input	Cooling	kW	2.35	2.35	2.40	2.35	2.40	
Current input	Cooling	A	10.7	10.7	10.9	10.7	10.9	
Refrigerant charge volume		kg	1.5	1.5	1.5	1.5	1.5	
Indoor unit	Air flow volume	CFM	736	736	736	736	824	
		m <sup>3</sup> /h	1250	1250	1250	1250	1400	
	ESP	Rated	Pa	25	25	25	0	0
		Range	Pa	0-80	0-80	0-100	0	0
	Sound pressure level (SH/H/M/L)	dB(A)	40/37/33/31	40/37/33/31	48/46/44/41	46/45/42/39	47/46/44/41	
	Dimension (W×D×H)	Outline	mm	1300×450×220	1300×450×220	700×700×300	840×840×240	1200×665×235
Package		mm	1628×578×300	1628×578×300	897×808×360	933×903×272	1363×770×300	
Net weight/Gross weight	kg	31.0/37.0	32.0/38.0	33.0/38.0	30.0/37.0	33.0/39.0		
Panel	Dimension (W×D×H)	Outline	mm	-	-	-	950×950×52	-
		Package	mm	-	-	-	1033×1020×110	-
	Net weight/Gross weight	kg	-	-	-	6/9.5	-	
Outdoor unit	Dimension (W×D×H)	Outline	mm	892×340×698	892×340×698	892×340×698	892×340×698	892×340×698
		Package	mm	1029×458×750	1029×458×750	1029×458×750	1029×458×750	1029×458×750
	Net weight/Gross weight	kg	53.0/57.0	53.0/57.0	53.0/57.0	53.0/57.0	53.0/57.0	
Connection pipe	Outdoor diameter	Liquid	inch(mm)	Φ3/8(9.52)				
		Gas	inch(mm)	Φ5/8(15.9)				
	Max. distance	Height	m	15	15	15	15	15
		Length	m	30	30	30	30	30
Loading quantity	40'GP/40'HQ	unit	93/105	93/105	93/106	81/93	90/98	

## Specifications

Model	Outdoor unit		GUL85W/A-K*					
	Indoor unit		Duct	Duct	High ESP duct	Cassette	Duct	
			GU85PH/A-K*	GU85PS/A-K*	GU85PHS/A-K*	GU85T/A-K*	GU85ZD/A-K*	
Capacity	Cooling	kW	8.8	8.8	8.8	8.8	8.7	
		Btu/h	30000	30000	30000	29000	29600	
EER		W/W	3.14	3.14	3.20	3.26	3.22	
Power supply		V/Ph/Hz	220-240V -50Hz					
Power input	Cooling	kW	2.80	2.80	2.75	2.70	2.70	
Current input	Cooling	A	12.8	12.8	12.0	11.6	11.7	
Refrigerant charge volume		kg	1.8	1.8	1.8	1.8	1.8	
Indoor unit	Air flow volume	CFM	765	765	941	794	883	
		m <sup>3</sup> /h	1300	1300	1600	1350	1500	
	ESP	Rated	Pa	37	37	37	-	-
		Range	Pa	0-100	0-100	0-150	-	-
	Sound Pressure Level (SH/H/M/L)	dB(A)	46/40/38/35	46/40/38/35	43/41/38/36	48/46/43/39	46/45/43	
	Dimension (W×D×H)	Outline	mm	900×655×260	900×655×260	1000×700×300	840×840×200	1200*662*235
Package		mm	1115×772×320	1115×772×320	1205×813×360	943×923×245	1363*770*300	
Net weight/Gross weight	kg	29.0/34.0	30.0/35.0	42.0/48.0	24.0/31.0	33.0/39.0		
Panel	Dimension (W×D×H)	Outline	mm	-	-	-	950×950×52	
		Package	mm	-	-	-	1033×1020×110	
	Net weight/Gross weight	kg	-	-	-	-	-	
Outdoor unit	Dimension (W×D×H)	Outline	mm	892×340×698	892×340×698	892×340×698	892×340×698	
		Package	mm	1029×458×750	1029×458×750	1029×458×750	1029×458×750	
	Net weight/Gross weight	kg	59.0/63.0	59.0/63.0	59.0/63.0	59.0/63.0	59.0/63.0	
Connection pipe	Outdoor diameter	Liquid	inch(mm)	Φ3/8(9.52)	Φ3/8(9.52)	Φ3/8(9.52)	Φ3/8(9.52)	
		Gas	inch(mm)	Φ5/8(16)	Φ5/8(16)	Φ5/8(16)	Φ5/8(16)	
	Max. distance	Height	m	15	15	15	15	
		Length	m	30	30	30	30	
Loading quantity	40'GP/40'HQ	unit	96/109	96/109	81/93	86/94	90*98	

Model	Outdoor unit		GUL100W/A-M					
	Indoor unit		Duct	Duct with water pump	High ESP duct	Cassette	Floor ceiling	
			GU100PH/A-K	GU100PS/A-K	GU100PHS/A-K	GU100T/A-K	GU100ZD/A-K	
Capacity	Cooling	kW	10.30	10.30	10.50	10.30	10.30	
		Btu/h	35100	35100	35800	35100	35100	
EER		W	2.94	2.94	3.00	2.94	2.94	
Power supply		V/Ph/Hz	380-415V 3N-50Hz					
Power input	Cooling	kW	3.5	3.5	3.5	3.5	3.5	
Current input	Cooling	A	7.0	7.0	6.9	7.0	7.0	
Refrigerant charge volume		kg	2.2	2.2	2.2	2.2	2.2	
Indoor unit	Air flow volume	CFM	971	971	1059	942	1000	
		m <sup>3</sup> /h	1650	1650	1800	1600	1700	
	ESP	Rated	Pa	37	37	37	0	0
		Range	Pa	0-100	0-100	0-150	0	0
	Sound pressure level (SH/H/M/L)	dB(A)	44/42/38/35	44/42/38/35	44/41/38/36	52/50/48/45	51/50/49/48	
	Dimension (W×D×H)	Outline	mm	1000×700×300	1000×700×300	1000×700×300	840×840×240	1200×665×235
Package		mm	1205×813×360	1205×813×360	1205×813×360	933×903×272	1363×770×300	
Net weight/Gross weight	kg	40.0/46.0	41.0/47.0	42.0/48.0	30.0/37.0	36.0/42.0		
Panel	Dimension (W×D×H)	Outline	mm	-	-	-	950×950×52	
		Package	mm	-	-	-	1033×1038×112	
	Net weight/Gross weight	kg	-	-	-	6/9.5		
Outdoor unit	Dimension (W×D×H)	Outline	mm	920×370×790	920×370×790	920×370×790	920×370×790	
		Package	mm	1083×488×875	1083×488×875	1083×488×875	1083×488×875	
	Net weight/Gross weight	kg	68.0/73.0	68.0/73.0	68.0/73.0	68.0/73.0	68.0/73.0	
Connection pipe	Outdoor diameter	Liquid	inch(mm)	Φ3/8(9.52)				
		Gas	inch(mm)	Φ5/8(15.9)				
	Max. distance	Height	m	20	20	20	20	20
		Length	m	30	30	30	30	30
Loading quantity	40'GP/40'HQ	unit	69/84	69/84	69/84	68/79	74/87	

Model	Outdoor unit		GUL125W/A-M					
	Indoor unit		Duct	Duct with water pump	High ESP duct	Cassette	Floor ceiling	
			GU125PH/A-K	GU125PHS/A-K	GUD125PHS/A-K	GU125T/A-K	GU125ZD/A-K	
Capacity	Cooling	kW	12.0	12.0	12.5	12.0	12.0	
		Btu/h	40900	40900	42700	40900	40900	
EER		W	2.82	2.82	2.94	2.89	2.93	
Power supply		V/Ph/Hz	380-415V 3N~ 50Hz					
Power input	Cooling	kW	4.25	4.25	4.25	4.15	4.10	
Current input	Cooling	A	9.0	9.0	9.0	8.8	8.7	
Refrigerant charge volume		kg	2.55	2.55	2.55	2.55	2.55	
Indoor unit	Air flow volume		CFM	1000	1000	1177	942	1000
			m³/h	1700	1700	2000	1600	1700
	ESP	Rated	Pa	37	37	37	0	0
		Range	Pa	0-100	0-100	0-150	0	0
	Sound pressure level (SH/H/M/L)		dB(A)	44/41/38/35	44/41/38/35	46/44/41/40	52/50/49/47	51/50/49/48
	Dimension (W×D×H)	Outline	mm	1000×700×300	1000×700×300	1000×700×300	840×840×240	1200×665×235
Package		mm	1205×813×360	1205×813×360	1205×813×360	933×903×272	1363×770×300	
Net weight/Gross weight		kg	41.0/47.0	42.0/48.0	43.0/49.0	33.0/40.0	37.0/43.0	
Panel	Dimension (W×D×H)	Outline	mm	-	-	-	950×950×52	-
		Package	mm	-	-	-	1033×1020×110	-
	Net weight/Gross weight		kg	-	-	-	6/9.5	-
Outdoor unit	Dimension (W×D×H)	Outline	mm	940×460×820	940×460×820	940×460×820	940×460×820	940×460×820
		Package	mm	1083×573×973	1083×573×973	1083×573×973	1083×573×973	1083×573×973
	Net weight/Gross weight		kg	93.0/103.0	93.0/103.0	93.0/103.0	93.0/103.0	93.0/103.0
Connection pipe	Outdoor diameter	Liquid	inch(mm)	Φ3/8(9.52)				
		Gas	inch(mm)	Φ5/8(15.9)				
	Max. distance	Height	m	30	30	30	30	30
		Length	m	50	50	50	50	50
Loading quantity	40'GP/40'HQ	unit	60/62	60/62	60/62	68/79	61/72	

Model	Outdoor unit		GUL160W/A-M					
	Indoor unit		Duct	Duct with water pump	High ESP duct	Cassette	Floor ceiling	
			GU160PH/A-K	GU160PHS/A-K	GUD160PHS/A-K	GU160T/A-K	GU160ZD/A-K	
Capacity	Cooling	kW	16	16	16	15	16	
		Btu/h	54600	54600	54600	51200	54600	
EER		W	2.99	2.99	3.02	2.88	3.02	
Power supply		V/Ph/Hz	380-415V 3N~ 50Hz					
Power input	Cooling	kW	5.35	5.35	5.30	5.20	5.30	
Current input	Cooling	A	10.6	10.6	10.5	10.3	10.5	
Refrigerant charge volume		kg	3.1	3.1	3.1	3.1	3.1	
Indoor unit	Air flow volume		CFM	1530	1530	1707	1177	1471
			m³/h	2600	2600	2900	2000	2500
	ESP	Rated	Pa	50	50	50	0	0
		Range	Pa	0-150	0-150	0-200	0	0
	Sound pressure level (SH/H/M/L)		dB(A)	47/45/40/37	47/45/40/37	48/45/44/42	55/51/47/45	54/53/52/51
	Dimension (W×D×H)	Outline	mm	1400×700×300	1400×700×300	1400×700×300	840×840×290	1570×665×235
Package		mm	1601×813×365	1601×813×365	1678×808×365	933×903×335	1729×770×300	
Net weight/Gross weight		kg	54.0/61.0	55.0/62.0	60.0/67.0	34.0/41.0	45.0/52.0	
Panel	Dimension (W×D×H)	Outline	mm	-	-	-	950×950×52	-
		Package	mm	-	-	-	1033×1020×110	-
	Net weight/Gross weight		kg	-	-	-	6/9.5	-
Outdoor unit	Dimension (W×D×H)	Outline	mm	940×460×820	940×460×820	940×460×820	940×460×820	940×460×820
		Package	mm	1083×573×973	1083×573×973	1083×573×973	1083×573×973	1083×573×973
	Net weight/Gross weight		kg	95.0/105.0	95.0/105.0	95.0/105.0	95.0/105.0	95.0/105.0
Connection pipe	Outdoor diameter	Liquid	inch(mm)	Φ3/8(9.52)				
		Gas	inch(mm)	Φ5/8(15.9)				
	Max. distance	Height	m	30	30	30	30	30
		Length	m	50	50	50	50	50
Loading quantity	40'GP/40'HQ	unit	52/56	52/56	52/56	56/63	58/66	

Model	Outdoor unit		GUL140W/A-M					
	Indoor unit		Duct	Duct with water pump	High ESP duct	Cassette	Floor ceiling	
			GU140PH/A-K	GU140PHS/A-K	GUD140PHS/A-K	GU140T/A-K	GU140ZD/A-K	
Capacity	Cooling	kW	14.10	14.10	14.10	14.10	14.10	
		Btu/h	48100	48100	48100	48100	48100	
EER		W	2.69	2.69	2.71	2.52	2.71	
Power supply		V/Ph/Hz	380-415V 3N~ 50Hz					
Power input	Cooling	kW	5.25	5.25	5.20	5.60	5.20	
Current input	Cooling	A	10.5	10.5	10.4	11.2	10.4	
Refrigerant charge volume		kg	2.95	2.95	2.95	2.95	2.95	
Indoor unit	Air flow volume		CFM	1295	1295	1412	1177	1295
			m³/h	2200	2200	2400	2000	2200
	ESP	Rated	Pa	50	50	50	0	0
		Range	Pa	0-150	0-150	0-200	0	0
	Sound pressure level (SH/H/M/L)		dB(A)	45/44/41/37	45/44/41/37	48/44/42/41	54/51/47/45	54/53/52/51
	Dimension (W×D×H)	Outline	mm	1400×700×300	1400×700×300	1400×700×300	840×840×290	1570×665×235
Package		mm	1601×813×365	1601×813×365	1678×808×365	933×903×335	1729×770×300	
Net weight/Gross weight		kg	52.0/59.0	53.0/60.0	58.0/65.0	34.0/41.0	43.0/50.0	
Panel	Dimension (W×D×H)	Outline	mm	-	-	-	950×950×52	-
		Package	mm	-	-	-	1033×1020×110	-
	Net weight/Gross weight		kg	-	-	-	6/9.5	-
Outdoor unit	Dimension (W×D×H)	Outline	mm	940×460×820	940×460×820	940×460×820	940×460×820	940×460×820
		Package	mm	1083×573×973	1083×573×973	1083×573×973	1083×573×973	1083×573×973
	Net weight/Gross weight		kg	93.0/103.0	93.0/103.0	93.0/103.0	93.0/103.0	93.0/103.0
Connection pipe	Outdoor diameter	Liquid	inch(mm)	Φ3/8(9.52)				
		Gas	inch(mm)	Φ5/8(15.9)				
	Max. distance	Height	m	30	30	30	30	30
		Length	m	50	50	50	50	50
Loading quantity	40'GP/40'HQ	unit	52/56	52/56	52/56	56/63	58/66	

Control System Lineup

Control system	Product series	Duct type	Cassette type	Floor ceiling type
Wired controller	XK117 	●	○	○
	XE71-42/G 	○	○	○
Remote controller	YAW1F9 (WIFI) <sup>1</sup> 	○	●	●
	YB1FA (MOTO) 	○	○	○
	YAP1F6(WIFI) 	○	○	○
WiFi module (G-Cloud) <sup>2</sup>	ME31-00/C4 ME31-00/C6 	○	○	○
MODBUS gateway	ME50-00/EG(M) 	○	○	○
Centralized controller (up to 36 indoor units)	CE52-24/F(C) 	○	○	○
Dry contact gateway <sup>3</sup> (extended function board)	ME30-42/E1 	○	○	○
Door controller	MK03 	○	○	○
BACnet gateway	ME30-44/D2(B) 	○	○	○

Note:  
 ● means standard, ○ means optional.  
 \*1: Controller (cooling only)  
 \*2: Please contact the sales representative for WIFI module selection.  
 \*3: Function: ON/OFF input control, emergency stop input, error output, cold plasma control, fresh air control.

U-Match  
 Economical Inverter Series (Eastern Europe)



Cooling capacity is 3.5kW~16.0kW. The outdoor unit can be freely connected to duct type units, cassette type units and floor ceiling units.



- » Compact design; single fan design for the whole series; the maximum height is only 820mm.
- » With fast cooling and heating functions.
- » Connection pipe is 75m at the most.
- » All DC inverter design.
- » With low ambient temperature cooling function, cooling is normal at -15°C.

Indoor Unit CE

Duct type

- » Wired controller can adjust the static pressure according to the engineering requirements.
- » Fresh air interface reserved.
- » Built-in water pump optional.
- » Ultra-thin structure design; the thinnest thickness is 200mm.
- » Supply air outlet and return air outlet are interchangeable, convenient for installation.

Cassette type

- » 360° air discharge panel.
- » DC motor and DC water pump, high-efficiency and energy-saving.
- » Water pump lift is up to 1000mm.
- » Only 570mm for 12K and 18K cassette unit.
- » Adopt fireproof electric box.

Floor ceiling type

- » DC motor, high-efficiency and energy-saving.
- » Fresh air interface reversed.
- » Three pipe outlet methods.
- » Dual air guide louvers and 3D air supply.
- » Metal electric box and fireproof design.

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

## Units Lineup

Capacity index		35	50	71*
Indoor unit	Outdoor unit			
	Duct			
	Cassette			
	Floor ceiling			

Note:\*This model is "GUD71W/A-S"

Capacity index		125	140	160
Indoor unit	Outdoor unit			
	Duct			
	Cassette			
	Floor ceiling			

Capacity index		71*	100
Indoor unit	Outdoor unit		
	Duct		
	Cassette		
	Floor ceiling		

Note:\*This model is "GUD71W/A1-S"

## Specifications

Model	Outdoor unit		GUD35W/A-S/GUD35W/A-S(LCLH)				
	Indoor unit		Duct(without water pump)	Duct(with water pump)	Cassette	Floor ceiling	
			GUD35P/A-S	GUD35PS/A-S	GUD35T/A-S	GUD35ZD/A-S	
Capacity	Cooling	kW	3.5	3.5	3.5	3.5	
		Btu/h	11900	11900	11900	11900	
		Heating	kW	4.0	4.0	4.0	4.0
			Btu/h	13600	13600	13600	13600
EER/COP		W/W	3.21/3.48	3.21/3.48	3.40/3.64	3.40/3.33	
Power supply		Ph/V/Hz	220-240V ~50/60Hz				
Power input	Cooling	kW	1.09	1.09	1.03	1.03	
	Heating	kW	1.15	1.15	1.1	1.2	
Current input	Cooling	A	4.75	4.75	4.45	4.45	
	Heating	A	5	5	4.8	5.2	
Refrigerant charge volume		kg	1				
Indoor unit	Air flow volume(SH/H/M/L)	CFM	383/353/300/265	383/353/300/265	382/341/282/235	383/359/312/271	
		m³/h	650/600/510/450	650/600/510/450	650/550/480/400	650/610/530/460	
	ESP	Rated	Pa	25	25	0	0
		Range	Pa	0-50	0-50	0	0
	Sound pressure level (SH/H/M/L)	dB(A)		40/37/35/34	40/37/35/34	41/37/35/31	39/36/32/28
		Outline	mm	700 × 450 × 200	700 × 450 × 200	570 × 570 × 265	870 × 665 × 235
Dimension (W × D × H)	Package	mm	1008 × 568 × 275	1008 × 568 × 275	698 × 653 × 295	1033 × 770 × 300	
	Net weight/Gross weight	kg	19/23	20/24	17/22	25/30	
Panel	Dimension (W × D × H)	Outline	mm	-	-	620 × 620 × 47.5	-
		Package	mm	-	-	701 × 701 × 125	-
	Net weight/Gross weight	kg	-	-	3.0/4.5	-	
Outdoor unit	Sound pressure level	dB(A)		51	51	51	
		Outline	mm	818 × 302 × 596	818 × 302 × 596	818 × 302 × 596	818 × 302 × 596
	Dimension (W × D × H)	Package	mm	948 × 420 × 645	948 × 420 × 645	948 × 420 × 645	948 × 420 × 645
		Net weight/Gross weight	kg	38/41	38/41	38/41	38/41
Connection pipe	Outer diameter	Liquid	inch(mm)	Φ1/4(6.35)	Φ1/4(6.35)	Φ1/4(6.35)	Φ1/4(6.35)
		Gas	inch(mm)	Φ3/8(9.52)	Φ3/8(9.52)	Φ3/8(9.52)	Φ3/8(9.52)
	Max. distance	Height	m	15	15	15	15
	Length	m	30	30	30	30	
Loading quantity	40°GP/40°HQ	unit	141/158	141/158	120/139	110/132	



Model	Outdoor unit		GUD50W/A-S/GUD50W/A-S(LCLH)				
	Indoor unit		Duct(without water pump)	Duct(with water pump)	Cassette	Floor ceiling	
			GUD50T/A-S	GUD50PS/A-S	GUD50T/A-S	GUD50ZD/A-S	
Capacity	Cooling	kW	5.3	5.3	5	5.3	
		Btu/h	18000	18000	17000	17700	
	Heating	kW	5.8	5.8	5.6	5.8	
		Btu/h	19700	19700	19100	19700	
EER/COP		W/W	3.21/3.62	3.21/3.62	3.21/3.50	3.21/3.41	
Power supply		Ph/V/Hz	220-240V ~50/60Hz				
Power input	Cooling	kW	1.65	1.65	1.56	1.62	
	Heating	kW	1.6	1.6	1.6	1.7	
Current input	Cooling	A	7.4	7.4	6.78	7	
	Heating	A	7	7	7	7.4	
Refrigerant charge volume		kg	1.25				
Indoor unit	Air flow volume(SH/H/M/L)		CFM	559/518/500/441	559/518/500/441	412/341/282/235	500/471/412/353
			m³/h	950/880/850/750	450/880/850/750	700/580/480/400	850/800/700/600
	ESP	Rated	Pa	25	25	0	0
		Range	Pa	0-50	0-50	0	0
	Sound pressure level (SH/H/M/L)		dB(A)	40/39/37/35	40/39/37/35	44/39/35/31	44/42/39/36
	Dimension (W×D×H)		mm	1000×450×200	1000×450×200	570×570×265	870×665×235
	Package		mm	1308×568×275	1308×568×275	698×653×295	1033×770×300
	Net weight/Gross weight		kg	25/30	26/31	17/22	26/31
Panel	Dimension (W×D×H)		mm	-	620×620×47.5	-	
	Package		mm	-	701×701×125	-	
	Net weight/Gross weight		kg	-	3.0/4.5	-	
Outdoor unit	Sound pressure level		dB(A)	55	55	55	
	Dimension (W×D×H)		mm	818×302×596	818×302×596	818×302×596	818×302×596
	Package		mm	948×420×645	948×420×645	948×420×645	948×420×645
Net weight/Gross weight		kg	41/44	41/44	41/44	41/44	
Connection pipe	Outer diameter	Liquid	inch(mm)	Φ1/4(6.35)	Φ1/4(6.35)	Φ1/4(6.35)	Φ1/4(6.35)
		Gas	inch(mm)	Φ1/2(12.7)	Φ1/2(12.7)	Φ1/2(12.7)	Φ1/2(12.7)
	Max. distance	Height	m	20	20	20	25
		Length	m	35	35	35	35
Loading quantity	40'GP/40'HQ	unit	124/142	124/142	120/139	110/132	

Model	Outdoor unit		GUD71W/A1-S				
	Indoor unit		Duct	Duct	Cassette	Floor ceiling	
			GUD71P/A1-S	GUD71PS/A1-S	GUD71T/A1-S	GUD71ZD/A1-S	
Capacity	Cooling	kW	7.15	7.00	7.00	7.15	
		Btu/h	24300	24300	23800	24300	
	Heating	kW	8	8	8	8	
		Btu/h	27200	27200	27200	27200	
EER/COP		W/W	2.92/3.20	2.92/3.20	3.21/3.64	2.98/3.14	
Power supply		V/Ph/Hz	220-240V ~50/60Hz				
Power input	Cooling	kW	2.45	2.45	2.18	2.40	
	Heating	kW	2.50	2.50	2.20	2.55	
Current input	Cooling	A	10.65	10.65	9.47	10.43	
	Heating	A	10.87	10.87	9.56	11.09	
Refrigerant charge volume		kg	2	2	2	2	
Indoor unit	Air flow volume(SH/H/M/L)		CFM	617/588/529/470	617	735	617
			m³/h	1050	1050	1250	1050
	ESP	Rated	Pa	25	25	0	0
		Range	Pa	0-50	0-50	0	0
	Sound pressure level (SH/H/M/L)		dB(A)	43/42/40/38	43/42/40/38	47/45/41/39	49/48/45/43
	Dimension (W×D×H)		mm	1000×450×200	1000×450×200	840×840×200	870×665×235
	Package		mm	1308×568×275	1308×568×275	943×923×245	1033×770×300
	Net weight/Gross weight		kg	25/30	26/31	23/30	26/31
Panel	Dimension (W×D×H)		mm	-	950×950×52	-	
	Package		mm	-	1033×1038×112	-	
	Net weight/Gross weight		kg	-	6.0/9.5	-	
Outdoor unit	Sound pressure level		dB(A)	55	55	55	
	Dimension (W×D×H)		mm	892×340×698	892×340×698	892×340×698	892×340×698
	Package		mm	1029×458×750	1029×458×750	1029×458×750	1029×458×750
Net weight/Gross weight		kg	53/57	53/57	53/57	53/57	
Connection pipe	Outer diameter	Liquid	inch(mm)	Φ3/8(9.52)	Φ3/8(9.52)	Φ3/8(9.52)	Φ3/8(9.52)
		Gas	inch(mm)	Φ5/8(15.9)	Φ5/8(15.9)	Φ5/8(15.9)	Φ5/8(15.9)
	Max. distance	Height	m	25	25	25	25
		Length	m	50	50	50	50
Loading quantity	40'GP/40'HQ	unit	108/120	108/120	83/88	92/108	

Model	Outdoor unit		GUD71W/A-S/GUD71W/A-S(LCLH)				
	Indoor unit		Duct(without water pump)	Duct(with water pump)	Cassette	Floor ceiling	
			GUD71P/A-S	GUD71PS/A-S	GUD71T/A-S	GUD71ZD/A-S	
Capacity	Cooling	kW	7.1	7.1	7	7.1	
		Btu/h	24200	24200	23800	24200	
	Heating	kW	8	8	8	8	
		Btu/h	27200	27200	27200	27200	
EER/COP		W/W	3.21/3.4	3.21/3.4	3.21/3.64	3.23/3.08	
Power supply		Ph/V/Hz	220-240V ~50/60Hz				
Power input	Cooling	kW	2.21	2.21	2.18	2.20	
	Heating	kW	2.35	2.35	2.2	2.6	
Current input	Cooling	A	9.6	9.6	9.47	9.56	
	Heating	A	10.21	10.21	9.56	11.3	
Refrigerant charge volume		kg	2				
Indoor unit	Air flow volume(SH/H/M/L)		CFM	706/682/641/553	706/682/641/553	735/674/559/500	765/718/641/553
			m³/h	1200/1160/1070/940	1200/1160/1070/940	1250/1150/950/850	1300/1220/1090/940
	ESP	Rated	Pa	25	25	0	0
		Range	Pa	0-75	0-75	0	0
	Sound pressure level (SH/H/M/L)		dB(A)	40/38/37/36	40/38/37/36	47/45/41/39	45/44/41/38
	Dimension (W×D×H)		mm	1300×450×220	1300×450×220	840×840×200	1200×665×235
	Package		mm	1628×578×300	1628×578×300	943×923×245	1363×770×300
	Net weight/Gross weight		kg	30/37	31/38	23/30	31/37
Panel	Dimension (W×D×H)		mm	-	950×950×52	-	
	Package		mm	-	1033×1038×112	-	
	Net weight/Gross weight		kg	-	6/9.5	-	
Outdoor unit	Sound pressure level		dB(A)	56	56	56	
	Dimension (W×D×H)		mm	892×340×698	892×340×698	892×340×698	892×340×698
	Package		mm	1029×458×750	1029×458×750	1029×458×750	1029×458×750
Net weight/Gross weight		kg	53/57	53/57	53/57	53/57	
Connection pipe	Outer diameter	Liquid	inch(mm)	Φ3/8(9.52)	Φ3/8(9.52)	Φ3/8(9.52)	Φ3/8(9.52)
		Gas	inch(mm)	Φ5/8(15.9)	Φ5/8(15.9)	Φ5/8(15.9)	Φ5/8(15.9)
	Max. distance	Height	m	25	25	25	25
		Length	m	50	50	50	50
Loading quantity	40'GP/40'HQ	unit	84/102	84/102	83/88	90/92	

Model	Outdoor unit		GUD100W/A-S/GUD100W/A-S(LCLH)				
	Indoor unit		Duct(without water pump)	Duct(with water pump)	Cassette	Floor ceiling	
			GUD100PH/A-S	GUD100PS/A-S	GUD100T/A-S	GUD100ZD/A-S	
Capacity	Cooling	kW	10.1	10.1	10.1	10.0	
		Btu/h	34500	34500	34500	34000	
	Heating	kW	11.0	11.0	11.0	11.0	
		Btu/h	37500	37500	37500	37500	
EER/COP		W/W	2.97/3.44	2.97/3.44	2.97/3.67	2.94/3.44	
Power supply		V/Ph/Hz	220-240V ~50/60Hz				
Power input	Cooling	kW	3.4	3.4	3.4	3.4	
	Heating	kW	3.2	3.2	3.0	3.2	
Current input	Cooling	A	16.3	16.3	16.3	16.3	
	Heating	A	15.3	15.3	14.4	15.3	
Refrigerant charge volume		kg	2.45	2.45	2.45	2.45	
Indoor unit	Air flow volume(SH/H/M/L)		CFM	1059/942/824/706	1059/942/824/706	883/853/795/706	942/883/824/706
			m³/h	1800/1600/1400/1200	1800/1600/1400/1200	1500/1450/1350/1200	1600/1500/1400/1200
	ESP	Rated	Pa	37	37	0	0
		Range	Pa	0-150	0-150	0	0
	Sound pressure level (SH/H/M/L)		dB(A)	43/41/39/37	43/41/39/37	50/48/46/42	49/47/45/43
	Dimension (W×D×H)		mm	1000×700×300	1000×700×300	840×840×240	1200×665×235
	Package		mm	1205×813×360	1205×813×360	963×963×325	1363×770×300
	Net weight/Gross weight		kg	40/46	41/47	31/38	32/38
Panel	Dimension (W×D×H)		mm	-	950×950×52	-	
	Package		mm	-	1033×1038×112	-	
	Net weight/Gross weight		kg	-	6.0/9.5	-	
Outdoor unit	Sound pressure level		dB(A)	55	55	55	
	Dimension (W×D×H)		mm	920×370×790	920×370×790	920×370×790	920×370×790
	Package		mm	1083×488×855	1083×488×855	1083×488×855	1083×488×855
Net weight/Gross weight		kg	61/66	61/66	61/66	61/66	
Connection pipe	Outer diameter	Liquid	inch(mm)	Φ3/8(9.52)	Φ3/8(9.52)	Φ3/8(9.52)	Φ3/8(9.52)
		Gas	inch(mm)	Φ5/8(15.9)	Φ5/8(15.9)	Φ5/8(15.9)	Φ5/8(15.9)
	Max. distance	Height	m	25	25	25	25
		Length	m	50	50	50	50
Loading quantity	40'GP/40'HQ	unit	68/80	68/80	58/69	72/85	

Model	Outdoor unit		GUD125W/A-S/GUD125W/A-S(LCLH)				
	Indoor unit		Duct(without water pump)	Duct(with water pump)	Cassette	Floor ceiling	
Capacity	Cooling	kW	12.02	12.02	12.02	12.02	
		Btu/h	41000	41000	41000	41000	
	Heating	kW	14.0	14.0	14.0	14.0	
		Btu/h	47800	47800	47800	47800	
EER/COP			W/W 2.67/3.26	2.67/3.26	2.67/3.33	2.93/3.5	
Power supply		V/Ph/Hz	220-240V ~50/60Hz				
Power input	Cooling	kW	4.5	4.5	4.5	4.1	
	Heating	kW	4.3	4.3	4.2	4.0	
Current input	Cooling	A	20.0	20.0	20.0	18.0	
	Heating	A	18.8	18.8	18.4	17.6	
Refrigerant charge volume		kg	3.4	3.4	3.4	3.4	
Indoor unit	Air flow volume(SH/H/M/L)		CFM	1177/1100/824/706	1177/1000/824/706	883/853/795/706	942/883/824/706
			m³/h	2000/1700/1400/1200	2000/1700/1400/1200	1500/1450/1350/1200	1600/1500/1400/1200
	ESP	Rated	Pa	50	50	0	0
		Range	Pa	0-150	0-150	0	0
	Sound pressure level (SH/H/M/L)		dB(A)	44/42/39/37	44/42/39/37	50/48/46/42	49/47/45/43
	Dimension (W×D×H)	Outline	mm	1000×700×300	1000×700×300	840×840×240	1200×665×235
Package		mm	1205×813×360	1205×813×360	963×963×325	1363×770×300	
Net weight/Gross weight		kg	40/46	41/47	31/38	33/39	
Panel	Dimension (W×D×H)	Outline	950×950×52			-	
		Package	1033×1038×112			-	
	Net weight/Gross weight		kg	-	-	6.0/9.5	-
Outdoor unit	Sound pressure level		dB(A)	58	58	58	58
	Dimension (W×D×H)	Outline	940×460×820			940×460×820	
		Package	1083×573×973			1083×573×973	
	Net weight/Gross weight		kg	84/96	84/96	84/96	84/96
Connection pipe	Outer diameter	Liquid	inch(mm)	Φ3/8(9.52)	Φ3/8(9.52)	Φ3/8(9.52)	Φ3/8(9.52)
		Gas	inch(mm)	Φ5/8(15.9)	Φ5/8(15.9)	Φ5/8(15.9)	Φ5/8(15.9)
	Max. distance	Height	m	30	30	30	30
		Length	m	65	65	65	65
Loading quantity		40'GP/40'HQ	unit	57/57	57/57	53/62	57/68

Model	Outdoor unit		GUD160W/A-S/GUD160W/A-S(LCLH)				
	Indoor unit		Duct(without water pump)	Duct(with water pump)	Cassette	Floor ceiling	
Capacity	Cooling	kW	15.6	15.6	15.0	15.4	
		Btu/h	53200	53200	51200	52500	
	Heating	kW	17.0	17.0	17.0	17.0	
		Btu/h	58000	58000	58000	58000	
EER/COP			W/W 2.89/3.54	2.89/3.54	2.78/3.62	2.85/3.54	
Power supply		V/Ph/Hz	220-240V ~50/60Hz				
Power input	Cooling	kW	5.4	5.4	5.4	5.4	
	Heating	kW	4.8	4.8	4.7	4.8	
Current input	Cooling	A	25.8	25.8	25.8	25.8	
	Heating	A	23.0	23.0	22.4	23.0	
Refrigerant charge volume		kg	3.8	3.8	3.8	3.8	
Indoor unit	Air flow volume(SH/H/M/L)		CFM	1647/1354/1177/1000	1647/1354/1177/1000	1177/1118/942/824	1354/1295/1118/942
			m³/h	2800/2300/2000/1700	2800/2300/2000/1700	2000/1900/1600/1400	2300/2200/1900/1600
	ESP	Rated	Pa	50	50	0	0
		Range	Pa	0-200	0-200	0	0
	Sound pressure level (SH/H/M/L)		dB(A)	50/45/44/42	50/45/44/42	54/52/50/48	54/53/49/45
	Dimension (W×D×H)	Outline	mm	1400×700×300	1400×700×300	840×840×290	1570×665×235
Package		mm	1678×808×365	1678×808×365	963×963×379	1729×770×300	
Net weight/Gross weight		kg	56/63	57/64	36/44	42/49	
Panel	Dimension (W×D×H)	Outline	950×950×52			-	
		Package	1033×1038×112			-	
	Net weight/Gross weight		kg	-	-	6.0/9.5	-
Outdoor unit	Sound pressure level		dB(A)	60	60	60	60
	Dimension (W×D×H)	Outline	940×460×820			940×460×820	
		Package	1083×573×973			1083×573×973	
	Net weight/Gross weight		kg	96/108	96/108	96/108	96/108
Connection pipe	Outer diameter	Liquid	inch(mm)	Φ3/8(9.52)	Φ3/8(9.52)	Φ3/8(9.52)	Φ3/8(9.52)
		Gas	inch(mm)	Φ5/8(15.9)	Φ5/8(15.9)	Φ5/8(15.9)	Φ5/8(15.9)
	Max. distance	Height	m	30	30	30	30
		Length	m	75	75	75	75
Loading quantity		40'GP/40'HQ	unit	47/53	47/53	48/53	54/62

Model	Outdoor unit		GUD140W/A-S/GUD140W/A-S(LCLH)				
	Indoor unit		Duct(without water pump)	Duct(with water pump)	Cassette	Floor ceiling	
Capacity	Cooling	kW	14.0	14.0	14.0	14.0	
		Btu/h	47800	47800	47800	47800	
	Heating	kW	15.0	15.0	15.0	15.0	
		Btu/h	51200	51200	51200	51200	
EER/COP			W/W 2.80/3.41	2.80/3.41	2.59/3.41	2.59/3.41	
Power supply		V/Ph/Hz	220-240V ~50/60Hz				
Power input	Cooling	kW	5.0	5.0	5.4	5.4	
	Heating	kW	4.4	4.4	4.4	4.4	
Current input	Cooling	A	26.0	26.0	26.0	26.0	
	Heating	A	21.0	21.0	21.0	21.0	
Refrigerant charge volume		kg	3.7	3.7	3.7	3.7	
Indoor unit	Air flow volume(SH/H/M/L)		CFM	1177/1059/942/824	1177/1059/942/824	1059/1000/883/765	1295/1177/1059/883
			m³/h	2000/1800/1600/1400	2000/1800/1600/1400	1800/1700/1500/1300	2200/2000/1800/1500
	ESP	Rated	Pa	50	50	0	0
		Range	Pa	0-150	0-150	0	0
	Sound pressure level (SH/H/M/L)		dB(A)	42/40/39/37	42/40/39/37	51/49/46/42	52/50/48/44
	Dimension (W×D×H)	Outline	mm	1400×700×300	1400×700×300	840×840×290	1570×665×235
Package		mm	1601×813×365	1601×813×365	963×963×379	1729×770×300	
Net weight/Gross weight		kg	49/55	50/56	33/41	40/47	
Panel	Dimension (W×D×H)	Outline	950×950×52			-	
		Package	1033×1038×112			-	
	Net weight/Gross weight		kg	-	-	6.0/9.5	-
Outdoor unit	Sound pressure level		dB(A)	59	59	59	58
	Dimension (W×D×H)	Outline	940×460×820			940×460×820	
		Package	1083×573×973			1083×573×973	
	Net weight/Gross weight		kg	92/104	92/104	92/104	90/102
Connection pipe	Outer diameter	Liquid	inch(mm)	Φ3/8(9.52)	Φ3/8(9.52)	Φ3/8(9.52)	Φ3/8(9.52)
		Gas	inch(mm)	Φ5/8(15.9)	Φ5/8(15.9)	Φ5/8(15.9)	Φ5/8(15.9)
	Max. distance	Height	m	30	30	30	30
		Length	m	75	75	75	75
Loading quantity		40'GP/40'HQ	unit	47/53	47/53	48/53	54/62

Model	Outdoor unit		GUD125W/A-X				
	Indoor unit		Duct(without water pump)	Duct(with water pump)	Cassette	Floor ceiling	
Capacity	Cooling	kW	12.02	12.02	12.02	12.02	
		Btu/h	41000	41000	41000	41000	
	Heating	kW	14.0	14.0	14.0	14.0	
		Btu/h	47800	47800	47800	47800	
EER/COP			W/W 2.67/3.26	2.67/3.26	2.67/3.33	2.93/3.41	
Power supply		V/Ph/Hz	380-415V 3N~ 50/60Hz				
Power input	Cooling	kW	4.5	4.5	4.5	4.1	
	Heating	kW	4.3	4.3	4.2	4.1	
Current input	Cooling	A	7.6	7.6	7.6	7.1	
	Heating	A	7.4	7.4	7.2	7.1	
Refrigerant charge volume		kg	3.4	3.4	3.4	3.4	
Indoor unit	Power supply		V/Ph/Hz	220-240V ~50/60Hz			
	Air flow volume(SH/H/M/L)		CFM	1177/1000/824/706	1177/1000/824/706	883/853/795/706	942/883/824/706
			m³/h	2000/1700/1400/1200	2000/1700/1400/1200	1500/1450/1350/1200	1600/1500/1400/1200
	ESP	Rated	Pa	50	50	0	0
		Range	Pa	0-150	0-150	0	0
	Sound pressure level (SH/H/M/L)		dB(A)	44/42/39/37	44/42/39/37	50/48/46/42	49/47/45/43
Dimension (W×D×H)	Outline	mm	1000×700×300	1000×700×300	840×840×240	1200×665×235	
	Package	mm	1205×813×360	1205×813×360	963×963×325	1363×770×300	
Net weight/Gross weight		kg	40/46	41/47	31/38	33/39	
Panel	Dimension (W×D×H)	Outline	950×950×52			-	
		Package	1033×1038×112			-	
	Net weight/Gross weight		kg	-	-	6.0/9.5	-
Outdoor unit	Sound pressure level		dB(A)	58	58	58	58
	Dimension (W×D×H)	Outline	940×460×820			940×460×820	
		Package	1083×573×973			1083×573×973	
	Net weight/Gross weight		kg	90/102	90/102	90/102	90/102
Connection pipe	Outer diameter	Liquid	inch(mm)	Φ3/8(9.52)	Φ3/8(9.52)	Φ3/8(9.52)	Φ3/8(9.52)
		Gas	inch(mm)	Φ5/8(15.9)	Φ5/8(15.9)	Φ5/8(15.9)	Φ5/8(15.9)
	Max. distance	Height	m	30	30	30	30
		Length	m	65	65	65	65
Loading quantity		40'GP/40'HQ	unit	57/57	57/57	53/62	57/68

### Control System Lineup

Model	Outdoor unit		GUD140W/A-X				
	Indoor unit		Duct(without water pump)	Duct(with water pump)	Cassette	Floor ceiling	
Capacity	Cooling	kW	14.0	14.0	14.0	14.0	
		Btu/h	47800	47800	47800	47800	
	Heating	kW	15.0	15.0	15.0	15.0	
		Btu/h	51200	51200	51200	51200	
EER/COP	W/W		2.80/3.41	2.80/3.41	2.80/3.41	2.69/3.41	
Power supply	V/Ph/Hz		380-415V 3N~ 50/60Hz				
Power input	Cooling	kW	5.0	5.0	5.0	5.2	
	Heating	kW	4.4	4.4	4.4	4.4	
Current input	Cooling	A	8.6	8.6	8.6	8.6	
	Heating	A	7.6	7.6	7.6	7.6	
Refrigerant charge volume	kg		3.7	3.7	3.7	3.7	
Indoor unit	Power supply		V/Ph/Hz				
	Air flow volume(SH/H/M/L)		CFM	1177/1059/942/824	1177/1059/942/824	1059/1000/883/765	1295/1177/1059/883
			m³/h	2000/1800/1600/1400	2000/1800/1600/1400	1800/1700/1500/1300	2200/2000/1800/1500
	ESP	Rated	Pa	50	50	0	0
		Range	Pa	0-150	0-150	0	0
	Sound pressure level (SH/H/M/L)		dB(A)	42/40/39/37	42/40/39/37	51/49/46/42	52/50/48/44
	Dimension (W×D×H)	Outline	mm	1400×700×300	1400×700×300	840×840×290	1570×665×235
Package		mm	1601×813×365	1601×813×365	963×963×379	1729×770×300	
Net weight/Gross weight		kg	49/55	50/56	33/41	40/47	
Panel	Dimension (W×D×H)	Outline	mm	-	950×950×52	-	
	Package	mm	-	-	1033×1038×112	-	
		Net weight/Gross weight	kg	-	-	6.0/9.5	-
Outdoor unit	Sound pressure level		dB(A)	59	59	59	
	Dimension (W×D×H)	Outline	mm	940×460×820	940×460×820	940×460×820	
		Package	mm	1083×573×973	1083×573×973	1083×573×973	
	Net weight/Gross weight		kg	96/108	96/108	96/108	
Connection pipe	Outer diameter	Liquid	inch(mm)	Φ3/8(9.52)	Φ3/8(9.52)	Φ3/8(9.52)	Φ3/8(9.52)
		Gas	inch(mm)	Φ5/8(15.9)	Φ5/8(15.9)	Φ5/8(15.9)	Φ5/8(15.9)
	Max. distance	Height	m	30	30	30	30
		Length	m	75	75	75	75
Loading quantity	40'GP/40'HQ		unit	47/53	47/53	48/53	54/62

Model	Outdoor unit		GUD160W/A-X				
	Indoor unit		Duct(without water pump)	Duct(with water pump)	Cassette	Floor ceiling	
Capacity	Cooling	kW	15.6	15.6	15.0	15.4	
		Btu/h	53200	53200	51200	52500	
	Heating	kW	17.0	17.0	17.0	17.0	
		Btu/h	58000	58000	58000	58000	
EER/COP	W/W		2.89/3.54	2.89/3.54	2.88/3.62	2.96/3.54	
Power supply	V/Ph/Hz		380-415V 3N~ 50/60Hz				
Power input	Cooling	kW	5.4	5.4	5.2	5.2	
	Heating	kW	4.8	4.8	4.7	4.8	
Current input	Cooling	A	9.4	9.4	9.0	9.0	
	Heating	A	8.4	8.4	8.2	8.4	
Refrigerant charge volume	kg		3.8	3.8	3.8	3.8	
Indoor unit	Power supply		V/Ph/Hz				
	Air flow volume(SH/H/M/L)		CFM	1647/1354/1177/1000	1647/1354/1177/1000	1177/1118/942/824	1354/1295/1118/942
			m³/h	2800/2300/2000/1700	2800/2300/2000/1700	2000/1900/1600/1400	2300/2200/1900/1600
	ESP	Rated	Pa	50	50	0	0
		Range	Pa	0-200	0-200	0	0
	Sound pressure level (SH/H/M/L)		dB(A)	50/45/44/42	50/45/44/42	54/52/50/48	54/53/49/45
	Dimension (W×D×H)	Outline	mm	1400×700×300	1400×700×300	840×840×290	1570×665×235
Package		mm	1678×808×365	1678×808×365	963×963×379	1729×770×300	
Net weight/Gross weight		kg	56/63	57/64	36/44	42/49	
Panel	Dimension (W×D×H)	Outline	mm	-	950×950×52	-	
	Package	mm	-	-	1033×1038×112	-	
		Net weight/Gross weight	kg	-	-	6.0/9.5	-
Outdoor unit	Sound pressure level		dB(A)	60	60	60	
	Dimension (W×D×H)	Outline	mm	940×460×820	940×460×820	940×460×820	
		Package	mm	1083×573×973	1083×573×973	1083×573×973	
	Net weight/Gross weight		kg	100/112	100/112	100/112	
Connection pipe	Outer diameter	Liquid	inch(mm)	Φ3/8(9.52)	Φ3/8(9.52)	Φ3/8(9.52)	Φ3/8(9.52)
		Gas	inch(mm)	Φ5/8(15.9)	Φ5/8(15.9)	Φ5/8(15.9)	Φ5/8(15.9)
	Max. distance	Height	m	30	30	30	30
		Length	m	75	75	75	75
Loading quantity	40'GP/40'HQ		unit	47/53	47/53	48/53	54/62

Control system	Product series	Duct type	Cassette type	Floor ceiling type
Wired controller	XK117 	●	○	○
	XE71-42/G 	○	○	○
Remote controller	YAW1F9 (WiFi)*1 	○	○	○
	YAP1F6 (WiFi) 	○	●	●
WiFi module (G-Cloud)*2	ME31-00/C4  ME31-00/C6	○	○	○
MODBUS gateway	ME50-00/EG(M) 	○	○	○
Centralized controller (up to 36 indoor units)	CE52-24/F(C) 	○	○	○
Dry contact gateway*3 (extended function board)	ME30-42/E1 	○	○	○
Door controller	MK03 	○	○	○
BACnet gateway	ME30-44/D2(B) 	○	○	○

Note:  
 ● means standard, ○ means optional.  
 \*1: Controller (cooling only)  
 \*2: Please contact the sales representative for WiFi module selection.  
 \*3: Function: ON/OFF input control, emergency stop input, error output, cold plasma control, fresh air control.

# U-Match Inverter Series Cooling Only(Thailand)



It is a kind of split system that the outdoor unit can be connected to various indoor units (duct, cassette or floor ceiling type) with cooling capacity from 18K to 42K, applicable for operation in Thailand.



- » Design of double ambient temperature sensors makes precise temperature monitoring.
- » With low ambient temperature cooling function, cooling is normal at 5°C.
- » The outdoor unit is universal and can be matched with floor ceiling, cassette or duct type indoor units.

## 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 reduces the noise.

### Cassette type

- » Drain pump filled as standard with increased lift of 1000mm.
- » Special low noise fan design.
- » Different swing angles design for cooling mode and for better comfort.
- » All kinds of air freshener can be installed in the filter, such as catechin.

### Floor ceiling type

- » 3D air flue design.
- » Easy replacement of motor and fan blade thanks to clamp block propeller design.
- » Different swing angles design for cooling mode and for better comfort.

Item	Nominal operating condition (temperature)				Operating range (temperature)
	Outdoor condition		Indoor condition		Outdoor condition
	DB(°C)	WB(°C)	DB(°C)	WB(°C)	DB(°C)
Cooling	35	24	27	19	5~48

## Units Lineup

Capacity index	18K	24K	30K	36K	42K	
Outdoor unit						
Indoor unit	Duct					
	Cassette					
	Floor ceiling					

## Specifications

Model	Outdoor unit		GULD18W/NhA-T(P)				GUL18W/NhC-K<P>	
	Indoor unit		Duct	Duct	Cassette	Floor ceiling	Floor ceiling	
			GULD18P/A-T(P)	GULD18PS/A-T(P)	GULD18T/A-T(P)	GULD18ZD/A-T(P)	GULD18ZD/C-K<P>	
Capacity	Cooling	kW	5.30	5.30	5.30	4.80	5.28	
		Btu/h	18100	18100	18100	16400	18000	
EER		W/W	3.53	3.53	3.63	3.66	3.55/-	
Power supply		V/Ph/Hz	220-240V ~50Hz&208-230V ~60Hz				220-240V~1Ph~50Hz	
Power input	Cooling	kW	1.50	1.50	1.46	1.31	1.49	
Current input	Cooling	A	6.3	6.3	6.7	6.7	6.50	
Refrigerant charge volume		kg	1	1	1	1	0.95	
Indoor unit	Air flow volume(SH/H/M/L)	CFM	559/518/483/412	559/518/483/412	647/618/565/507	500/471/412/353	647/618/500/382	
		m³/h	950/880/820/700	950/880/820/700	1100/1050/960/860	850/800/700/600	1100/1050/850/650	
	ESP	Rated	Pa	25	25	0	0	0.00
		Range	Pa	0-50	0-50	0	0	0.00
	Sound pressure level(SH/H/M/L)	dB(A)	43/42/39/36	43/42/39/36	43/42/40/39	44/42/39/36	49/48/46/40	
	Dimension (W×D×H)	Outline	mm	1000×450×200	1000×450×200	840×840×240	870×665×235	870×665×235
		Package	mm	1308×568×275	1308×568×275	963×963×325	1033×770×300	973×770×300
Net weight/Gross weight		kg	25.0/30.0	26.0/31.0	29.0/36.0	26/31	25.0/30.0	
Panel	Dimension (W×D×H)	Outline	mm	-	-	950×950×52	-	818×302×596
		Package	mm	-	-	1033×1038×112	-	948×420×645
	Net weight/Gross weight	kg	-	-	6.0/9.5	-	41/44	
Outdoor unit	Dimension (W×D×H)	Outline	mm	818×302×596	818×302×596	818×302×596	818×302×596	-
		Package	mm	948×420×645	948×420×645	948×420×645	948×420×645	-
	Net weight/Gross weight	kg	39.0/42.0	39.0/42.0	39.0/42.0	39.0/42.0	-	
Connection pipe	Outdoor diameter	Liquid	inch(mm)	Φ1/4(6.35)				
		Gas	inch(mm)	Φ1/2(12.7)				
	Max. distance	Height	m	20	20	20	20	15
Length		m	35	35	35	35	30	
Loading quantity	40'GP/40'HQ	unit	112/138	112/138	81/92	110/132	120/140	

Model	Outdoor unit		GULD24W/NhA-T(P)					
	Indoor unit		Duct	Duct	Cassette	Floor ceiling	Floor ceiling	
			GULD24P/A-T(P)	GULD24PS/A-T(P)	GULD24T/A-T(P)	GULD24ZD/A-T(P)	GULD24ZD/C-K<P>	
Capacity	Cooling	kW	7.30	7.30	7.30	7.30	7.10	
		Btu/h	24900	24900	24900	24900	24200	
EER		W/W	3.32	3.32	3.78	3.44	3.60	
Power supply		V/Ph/Hz	220-240V ~50Hz&208-230V ~60Hz				220-240V ~50Hz	
Power input	Cooling	kW	2.20	2.20	1.93	2.12	1.97	
Current input	Cooling	A	8.7	8.7	8.8	8.6	8.6	
Refrigerant charge volume		kg	1.6	1.6	1.6	1.6	1.2	
Indoor unit	Air flow volume(SH/H/M/L)	CFM	706/682/646/553	706/682/646/553	647/618/565/507	765/718/646/553	942/883/824/706	
		m³/h	1200/1160/1100/940	1200/1160/1100/940	1100/1050/960/860	1300/1220/1100/940	1600/1500/1400/1200	
	ESP	Rated	Pa	25	25	0	0	0.00
		Range	Pa	0-75	0-75	0	0	0.00
	Sound pressure level(SH/H/M/L)		dB(A)	40/39/37/36	40/39/37/36	43/42/40/39	45/44/41/38	49/48/46/44
	Dimension (W×D×H)	Outline	mm	1300×450×220	1300×450×220	840×840×240	1200×665×235	1200×665×235
		Package	mm	1628×578×300	1628×578×300	963×963×325	1363×770×300	1303×770×300
Net weight/Gross weight		kg	30.0/37.0	31.0/38.0	29.0/36.0	31.0/37.0	32.0/38.0	
Panel	Dimension (W×D×H)	Outline	mm	-	-	950×950×52	-	1200×665×235
		Package	mm	-	-	1033×1038×112	-	1303×770×300
	Net weight/Gross weight		kg	-	-	6.0/9.5	-	32/38
Outdoor unit	Dimension (W×D×H)	Outline	mm	892×340×698	892×340×698	892×340×698	892×340×698	-
		Package	mm	1029×458×750	1029×458×750	1029×458×750	1029×458×750	-
	Net weight/Gross weight		kg	51.0/55.0	51.0/55.0	51.0/55.0	51.0/55.0	-
Connection pipe	Outdoor diameter	Liquid	inch(mm)	Φ3/8(9.52)				
		Gas	inch(mm)	Φ5/8(15.9)				
	Max. distance	Height	m	25	25	25	25	15
		Length	m	50	50	50	50	30
Loading quantity	40'GP/40'HQ	unit	84/96	84/96	67/78	81/88	92/102	

Model	Outdoor unit		GULD36W/NhA-T(P)					
	Indoor unit		Duct	Duct	Cassette	Floor ceiling	Floor ceiling	
			GULD36PH/A-T(P)	GULD36PS/A-T(P)	GULD36T/A-T(P)	GULD36ZD/A-T(P)	GULD36ZD/A-T(P)	
Capacity	Cooling	kW	10.60	10.60	10.60	10.60	10.60	
		Btu/h	36200	36200	36200	36200	36200	
EER		W/W	3.09	3.09	3.12	3.41	3.41	
Power supply		V/Ph/Hz	220-240V ~50Hz&208-230V ~60Hz				220-240V ~50Hz	
Power input	Cooling	kW	3.43	3.43	3.40	3.11	3.11	
Current input	Cooling	A	12.1	12.1	12.7	12.7	12.7	
Refrigerant charge volume		kg	2	2	2	2	2	
Indoor unit	Air flow volume(SH/H/M/L)	CFM	1295/1177/1023/883	1295/1177/1023/883	1118/995/871/815	1236/1177/1059/881	1236/1177/1059/881	
		m³/h	2200/2000/1740/1500	2200/2000/1740/1500	1900/1690/1480/1380	2100/2000/1800/1500	2100/2000/1800/1500	
	ESP	Rated	Pa	37	37	0	0	0
		Range	Pa	0-150	0-150	0	0	0
	Sound pressure level(SH/H/M/L)		dB(A)	43/41/40/38	43/41/40/38	52/51/48/45	52/50/48/44	52/50/48/44
	Dimension (W×D×H)	Outline	mm	1400×700×300	1400×700×300	840×840×290	1570×665×235	1570×665×235
		Package	mm	1601×813×365	1601×813×365	963×963×379	1729×770×300	1729×770×300
Net weight/Gross weight		kg	49.0/55.0	50.0/56.0	36.0/44.0	42.0/49.0	42.0/49.0	
Panel	Dimension (W×D×H)	Outline	mm	-	-	950×950×52	-	
		Package	mm	-	-	1033×1038×112	-	
	Net weight/Gross weight		kg	-	-	6.0/9.5	-	
Outdoor unit	Dimension (W×D×H)	Outline	mm	920×370×790	920×370×790	920×370×790	920×370×790	
		Package	mm	1083×488×855	1083×488×855	1083×488×855	1083×488×855	
	Net weight/Gross weight		kg	58.0/63.0	58.0/63.0	58.0/63.0	58.0/63.0	
Connection pipe	Outdoor diameter	Liquid	inch(mm)	Φ3/8(9.52)				
		Gas	inch(mm)	Φ5/8(15.9)				
	Max. distance	Height	m	25	25	25	25	
		Length	m	50	50	50	50	
Loading quantity	40'GP/40'HQ	unit	56/63	56/63	56/62	67/77		

Model	Outdoor unit		GULD30W/NhA-T(P)					
	Indoor unit		Duct	Duct	Cassette	Floor ceiling	Floor ceiling	
			GULD30PH/A-T(P)	GULD30PS/A-T(P)	GULD30T/A-T(P)	GULD30ZD/A-T(P)	GULD30ZD/A-T(P)	
Capacity	Cooling	kW	8.80	8.80	8.80	8.80	8.80	
		Btu/h	30000	30000	30000	30000	40900	
EER		W/W	3.18	3.18	3.09	3.18	3.18	
Power supply		V/Ph/Hz	220-240V ~50Hz&208-230V ~60Hz				220-240V ~50Hz	
Power input	Cooling	kW	2.77	2.77	2.85	2.77	2.77	
Current input	Cooling	A	12.72	12.72	12.72	11.81	11.81	
Refrigerant charge volume		kg	1.6	1.6	1.6	1.6	1.6	
Indoor unit	Air flow volume(SH/H/M/L)	CFM	1059/894/812/752	1059/894/812/752	883/865/812/728	942/883/794/742	942/883/794/742	
		m³/h	1800/1520/1380/1280	1800/1520/1380/1280	1500/1470/1380/1240	1600/1500/1350/1260	1600/1500/1350/1260	
	ESP	Rated	Pa	37	37	0	0	0
		Range	Pa	0-150	0-150	0	0	0
	Sound pressure level(SH/H/M/L)		dB(A)	46/44/42/40	46/44/42/40	50/48/46/42	49/47/45/43	49/47/45/43
	Dimension (W×D×H)	Outline	mm	1000×700×300	1000×700×300	840×840×240	1200×665×235	1200×665×235
		Package	mm	1205×813×360	1205×813×360	963×963×325	1363×770×300	1363×770×300
Net weight/Gross weight		kg	40.0/46.0	41.0/47.0	31.0/38.0	32.0/38.0	32.0/38.0	
Panel	Dimension (W×D×H)	Outline	mm	-	-	950×950×52	-	
		Package	mm	-	-	1033×1038×112	-	
	Net weight/Gross weight		kg	-	-	6.0/9.5	-	
Outdoor unit	Dimension (W×D×H)	Outline	mm	892×340×698	892×340×698	892×340×698	892×340×698	
		Package	mm	1029×458×750	1029×458×750	1029×458×750	1029×458×750	
	Net weight/Gross weight		kg	51.0/55.0	51.0/55.0	51.0/55.0	51.0/55.0	
Connection pipe	Outdoor diameter	Liquid	inch(mm)	Φ3/8(9.52)				
		Gas	inch(mm)	Φ5/8(15.9)				
	Max. distance	Height	m	25	25	25	25	
		Length	m	50	50	50	50	
Loading quantity	40'GP/40'HQ	unit	82/94	82/94	67/78	81/88		

Model	Outdoor unit		GULD42W/NhA-T(P)					
	Indoor unit		Duct	Duct	Cassette	Floor ceiling	Floor ceiling	
			GULD42PH/A-T(P)	GULD42PS/A-T(P)	GULD42T/A-T(P)	GULD42ZD/A-T(P)	GULD42ZD/A-T(P)	
Capacity	Cooling	kW	11.98	11.98	11.98	11.98	11.98	
		Btu/h	40900	40900	40900	40900	40900	
EER		W/W	3.57	3.57	3.33	3.19	3.19	
Power supply		V/Ph/Hz	220-240V ~50Hz&208-230V ~60Hz				220-240V ~50Hz	
Power input	Cooling	kW	3.36	3.36	3.60	3.75	3.75	
Current input	Cooling	A	17.9	17.9	17.5	15.7	15.7	
Refrigerant charge volume		kg	2.7	2.7	2.7	2.7	2.7	
Indoor unit	Air flow volume(SH/H/M/L)	CFM	1295/1177/1023/883	1295/1177/1023/883	1118/995/871/815	1236/1177/1059/881	1236/1177/1059/881	
		m³/h	2200/2000/1740/1500	2200/2000/1740/1500	1900/1690/1480/1380	2100/2000/1800/1500	2100/2000/1800/1500	
	ESP	Rated	Pa	37	37	0	0	0
		Range	Pa	0-150	0-150	0	0	0
	Sound pressure level(SH/H/M/L)		dB(A)	43/41/40/38	43/41/40/38	52/51/48/45	52/50/48/44	52/50/48/44
	Dimension (W×D×H)	Outline	mm	1400×700×300	1400×700×300	840×840×290	1570×665×235	1570×665×235
		Package	mm	1601×813×365	1601×813×365	963×963×379	1729×770×300	1729×770×300
Net weight/Gross weight		kg	49.0/55.0	50.0/56.0	36.0/44.0	42.0/49.0	42.0/49.0	
Panel	Dimension (W×D×H)	Outline	mm	-	-	950×950×52	-	
		Package	mm	-	-	1033×1038×112	-	
	Net weight/Gross weight		kg	-	-	6.0/9.5	-	
Outdoor unit	Dimension (W×D×H)	Outline	mm	940×460×820	940×460×820	940×460×820	940×460×820	
		Package	mm	1083×573×973	1083×573×973	1083×573×973	1083×573×973	
	Net weight/Gross weight		kg	80.0/92.0	80.0/92.0	80.0/92.0	80.0/92.0	
Connection pipe	Outdoor diameter	Liquid	inch(mm)	Φ3/8(9.52)				
		Gas	inch(mm)	Φ5/8(15.9)				
	Max. distance	Height	m	30	30	30	30	
		Length	m	65	65	65	65	
Loading quantity	40'GP/40'HQ	unit	45/53	45/53	48/53	58/62		



### Control System Lineup

Control system	Product series	Duct type	Cassette type	Floor ceiling type
Wireless remote controller	YAC1FB1 	○	●	●
	YAW1F9 	○	○	○
	YAA1FB 	○	○	○
	YAN1F6 	○	○	○
	YT1F(MOTO) 	○	○	○
Wired controller	XK117 	●	○	○
	XE71-42/G 	○	○	○
WiFi module (G-Cloud) <sup>*1</sup>	ME31-00/C4 ME31-00/C6 	○	○	○
MODBUS gateway	ME50-00/EG(M) 	○	○	○
Centralized controller (up to 36 indoor units)	CE52-24/F(C) 	○	○	○
Dry contact gateway <sup>*2</sup> (extended function board)	ME30-42/E1 	○	○	○
Door controller	MK03 	○	○	○
BACnet gateway	ME30-44/D2(B) 	○	○	○

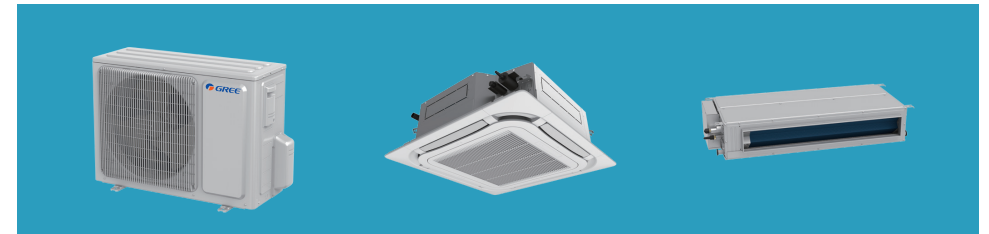
Note : ● means standard, ○ means optional.


\*1 : Please contact the sales representative for WiFi module selection.

\*2 : Function: ON/OFF input control, emergency stop input, error output, cold plasma control, fresh air control.


### U-Match Inverter Series Cooling Only (Singapore)

It is a kind of split system that the outdoor unit can be connected to various indoor units (duct, cassette type) with cooling capacity from 18K to 42K.







Turbo function




High efficiency




Memory function



Compact design



All DC inverter technology



Easier maintainability

- » All DC inverter compressor and DC motor are adopted, the energy efficiency of unit is higher.
- » With quick cooling function.
- » Compact design: the tallest outdoor unit with a single fan is only 820mm.

#### Indoor Unit

##### Duct type

- » Wired controller can adjust the static pressure according to the engineering requirements.
- » Fresh air interface reserved.
- » Built-in water pump optional.
- » Ultra-thin structure design; the thinnest thickness is 200mm.

##### Cassette type

- » 360 ° air discharge panel.
- » DC motor and DC water pump, high-efficiency and energy-saving.
- » Water pump lift is up to 1000mm.
- » Adopt fireproof electric box.

Item	Nominal operating condition(temperature)				Operating range(temperature)
	Outdoor condition		Indoor condition		Outdoor condition
	DB(°C)	WB(°C)	DB(°C)	WB(°C)	DB(°C)
Cooling	35	24	27	19	5-48

## Units Lineup

Capacity index		18K <sup>*1</sup>	18K <sup>*2</sup>	24K	30K	42K
Outdoor unit						
Indoor unit	Duct	—				
	Cassette					

Note:\*1: This model is "GULD18W/NhB-K(P)"  
 \*2: This model is "GULD18W/NhB1-K(P)"

## Specifications

Model	Outdoor unit		GULD18W/NhB-K(P)			
	Indoor unit		Cassette GULD18T/B-K(P)			
Capacity	Cooling	kW	5.00			
		Btu/h	17100			
EER		W	4.35			
Power supply		V/Ph/Hz	220-240V ~50Hz			
Power input	Cooling	kW	1.15			
Current input	Cooling	A	5.40			
Refrigerant charge volume		kg	1.60			
Indoor unit	Air flow volume(SH/H/M/L)		CFM	647/618/559/500		
			m <sup>3</sup> /h	1100/1050/950/850		
	ESP	Rated	Pa	-		
		Range	Pa	-		
	Sound pressure level (SH/H/M/L)		dB(A)	43/42/40/39		
	Dimension (W × D × H)	Outline	mm	840 × 840 × 240		
Package		mm	933 × 903 × 272			
Net weight/Gross weight		kg	29/34			
Panel	Dimension (W × D × H)	Outline	950 × 950 × 52			
		Package	1038 × 1033 × 112			
Net weight/Gross weight		kg	6.00/9.50			
Outdoor unit	Sound pressure level	dB(A)	54			
Dimension (W × D × H)	Outline	mm	892 × 340 × 698			
	Package	mm	1029 × 458 × 750			
Net weight/Gross weight		kg	51/55			
Connection pipe	Outer diameter	Liquid	inch(mm)	Φ3/8(9.52)		
		Gas	inch(mm)	Φ5/8(16.00)		
Max. distance	Height	m	25			
		Length	m	50		
Loading quantity	40'GP/40'HQ	unit	76/86			












Model	Outdoor unit		GULD18W/NhB1-K(P)		
	Indoor unit		Duct(without water pump) GULD18P/B1-K(P)	Duct(with water pump) GULD18PS/B1-K(P)	Cassette GULD18T/B1-K(P)
Capacity	Cooling	kW	5.30		5.30
		Btu/h	18100		18100
EER		W	3.53		3.78
Power supply		V/Ph/Hz	220-240V ~50Hz		
Power input	Cooling	kW	1.50		1.40
Current input	Cooling	A	6.60		6.20
Refrigerant charge volume		kg	1.00		1.00
Indoor unit	Air flow volume(SH/H/M/L)		CFM	559/529/471/412	
			m <sup>3</sup> /h	950/900/800/700	
	ESP	Rated	Pa	25	
		Range	Pa	0-50	
	Sound pressure level (SH/H/M/L)		dB(A)	43/42/39/36	
	Dimension (W × D × H)	Outline	mm	1000 × 450 × 200	
Package		mm	1308 × 568 × 275		
Net weight/Gross weight		kg	25/30		
Panel	Dimension (W × D × H)	Outline	-		
		Package	-		
Net weight/Gross weight		kg	-		
Outdoor unit	Sound pressure level	dB(A)	52		
Dimension (W × D × H)	Outline	mm	818 × 302 × 596		
	Package	mm	948 × 420 × 645		
Net weight/Gross weight		kg	39/42		
Connection pipe	Outer diameter	Liquid	inch(mm)	Φ1/4(6.00)	
		Gas	inch(mm)	Φ1/2(12.00)	
Max. distance	Height	m	20		
		Length	m	35	
Loading quantity	40'GP/40'HQ	unit	112/138		

Model	Outdoor unit		GULD24W/NhB-K(P)		
	Indoor unit		Duct(without water pump) GULD24P/B-K(P)	Duct(with water pump) GULD24PS/B-K(P)	Cassette GULD24T/B-K(P)
Capacity	Cooling	kW	7.30		7.30
		Btu/h	24900		24900
EER		W	3.32		3.78
Power supply		V/Ph/Hz	220-240V ~50Hz		
Power input	Cooling	kW	2.20		1.93
Current input	Cooling	A	10.00		8.80
Refrigerant charge volume		kg	1.60		1.60
Indoor unit	Air flow volume		CFM	706/676/647/559	
			m <sup>3</sup> /h	1200/1150/1100/950	
	ESP	Rated	Pa	25	
		Range	Pa	0-75	
	Sound pressure level (SH/H/M/L)		dB(A)	40/39/37/36	
	Dimension (W × D × H)	Outline	mm	1300 × 450 × 220	
Package		mm	1628 × 578 × 300		
Net weight/Gross weight		kg	30/37		
Panel	Dimension (W × D × H)	Outline	-		
		Package	-		
Net weight/Gross weight		kg	-		
Outdoor unit	Sound pressure level	dB(A)	54		
Dimension (W × D × H)	Outline	mm	892 × 340 × 698		
	Package	mm	1029 × 458 × 750		
Net weight/Gross weight		kg	51/55		
Connection pipe	Outer diameter	Liquid	inch(mm)	Φ3/8(9.52)	
		Gas	inch(mm)	Φ5/8(16.00)	
Max. distance	Height	m	25		
		Length	m	50	
Loading quantity	40'GP/40'HQ	unit	84/102		

Model	Outdoor unit		GULD30W/NhB-K(P)			
	Indoor unit		Duct(without water pump)	Duct(with water pump)	Cassette	
		GULD30PH/B-K(P)		GULD30PHS/B-K(P)	GULD30T/B-K(P)	
Capacity	Cooling	kW	8.80	8.80	8.81	
		Btu/h	30100	30100	30100	
EER		W	3.86	3.86	3.86	
Power supply		V/Ph/Hz	220-240V ~50Hz			
Power input	Cooling	kW	2.28	2.28	2.28	
Current input	Cooling	A	10.70	10.70	10.70	
Refrigerant charge volume		kg	2.00	2.00	2.00	
Indoor unit	Air flow volume		CFM	1294/1176/1029/882	1294/1176/1029/882	1118/1000/882/765
			m <sup>3</sup> /h	2200/2000/1750/1500	2200/2000/1750/1500	1900/1700/1500/1300
	ESP	Rated	Pa	37	37	-
		Range	Pa	0-150	0-150	-
	Sound pressure level (SH/H/M/L)		dB(A)	43/41/40/38	43/41/40/38	52/51/48/45
	Dimension (W×D×H)	Outline	mm	1400×700×300	1400×700×300	840×840×290
Package		mm	1601×813×365	1601×813×365	933×903×335	
Net weight/Gross weight		kg	49/55	50/56	36/42	
Panel	Dimension (W×D×H)	Outline	mm	-	950×950×52	
		Package	mm	-	1033×1038×112	
	Net weight/Gross weight		kg	-	-	6.00/9.50
Outdoor unit	Sound pressure level		dB(A)	53	53	
	Dimension (W×D×H)	Outline	mm	920×370×790		
		Package	mm	1083×488×855		
Net weight/Gross weight		kg	58/63			
Connection pipe	Outer diameter	Liquid	inch(mm)	Φ3/8(9.52)	Φ3/8(9.52)	Φ3/8(9.52)
		Gas	inch(mm)	Φ5/8(16.00)	Φ5/8(16.00)	Φ5/8(16.00)
	Max. distance	Height	m	25	25	25
		Length	m	50	50	50
Loading quantity	40'GP/40'HQ	unit	56/63	56/63	61/64	

Model	Outdoor unit		GULD42W/NhB-K(P)			
	Indoor unit		Duct(without water pump)	Duct(with water pump)	Cassette	
		GULD42PH/B-K(P)		GULD42PHS/B-K(P)	GULD42T/B-K(P)	
Capacity	Cooling	kW	12.50	12.50	12.50	
		Btu/h	42800	42800	42800	
EER		W	3.16	3.16	3.34	
Power supply		V/Ph/Hz	220-240V ~50Hz			
Power input	Cooling	kW	3.96	3.96	3.74	
Current input	Cooling	A	17.40	17.40	16.40	
Refrigerant charge volume		kg	2.70	2.70	2.70	
Indoor unit	Sound pressure level (SH/H/M/L)		CFM	1294/1176/1029/882	1294/1176/1029/882	1118/1000/882/765
			m <sup>3</sup> /h	2200/2000/1750/1500	2200/2000/1750/1500	1900/1700/1500/1300
	ESP	Rated	Pa	37	37	-
		Range	Pa	0-150	0-150	-
	Sound pressure level (SH/H/M/L)		dB(A)	44/41/40/38	44/41/40/38	52/51/48/45
	Dimension (W×D×H)	Outline	mm	1400×700×300	1400×700×300	840×840×290
Package		mm	1601×813×365	1601×813×365	933×903×335	
Net weight/Gross weight		kg	49/55	50/56	36/42	
Panel	Dimension (W×D×H)	Outline	mm	-	950×950×52	
		Package	mm	-	1033×1038×112	
	Net weight/Gross weight		kg	-	-	6.00/9.50
Outdoor unit	Sound pressure level		dB(A)	55	55	
	Dimension (W×D×H)	Outline	mm	940×460×820		
		Package	mm	1083×573×973		
Net weight/Gross weight		kg	80/92			
Connection pipe	Outer diameter	Liquid	inch(mm)	Φ3/8(9.52)	Φ3/8(9.52)	Φ3/8(9.52)
		Gas	inch(mm)	Φ5/8(16.00)	Φ5/8(16.00)	Φ5/8(16.00)
	Max. distance	Height	m	30	30	30
		Length	m	65	65	65
Loading quantity	40'GP/40'HQ	unit	47/53	47/53	55/56	

## Control System Lineup

Control system	Product series	Duct type	
Wireless remote controller	YAC1FB1		<input type="radio"/>
	YAW1F9		<input type="radio"/>
	YAA1FB		<input type="radio"/>
	YAN1F6		<input type="radio"/>
	YT1F(MOTO)		<input type="radio"/>
Wired controller	XK117		<input type="radio"/>
	XE71-42/G		<input type="radio"/>
WiFi module (G-Cloud) <sup>1)</sup>	ME31-00/C4 ME31-00/C6		<input type="radio"/>
MODBUS gateway	ME50-00/EG(M)		<input type="radio"/>
Centralized controller (up to 36 indoor units)	CE52-24/F(C)		<input type="radio"/>
Dry contact gateway <sup>2)</sup> (extended function board)	ME30-42/E1		<input type="radio"/>
Door controller	MK03		<input type="radio"/>
BACnet gateway	ME30-44/D2(B)		<input type="radio"/>

Note : ● means standard, ○ means optional.

\*1: Please contact the sales representative for WiFi module selection.

\*2: Function: ON/OFF input control, emergency stop input, error output, cold plasma control, fresh air control.

# U-Match Inverter Series (Australia)



It is a kind of split system that the outdoor unit can be connected to various indoor units (duct, cassette and floor standing type) with cooling capacity from 5kW to 16kW.



- » All DC inverter compressor and DC motor are adopted for higher energy efficiency.
- » With fast cooling and heating functions.
- » Maximum connecting pipe up to 75m.
- » Multiple functions for selections: zone control, WiFi, gate control, centralized control, etc.

## Indoor Unit

### Duct type

- » Drain pump fitted as standard with an increased lift of 1100mm.
- » Fresh air inlet and air valve control function improve the indoor air quality.
- » Flexible air inlet/outlet and condensing water outlet direction according to different installation requirements.
- » Optimized air duct design improves the performance and lowers the noise levels.

### Cassette type

- » Drain pump fitted as standard with increased lift of 1100mm.
- » Different swing angle design for cooling and heating mode for better comfort.
- » 360° air-charge panel; optional independent swing function.
- » Adopt fireproof electric box.

### Floor ceiling type

- » DC motor, high-efficiency and energy-saving.
- » With double air louvers, meeting 3D air supply effect.
- » Three pipe outlet methods for easy installation.
- » Pipe joints and electric box are designed at the unit side for convenient installation and maintenance.

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

## Units Lineup

Capacity index		50	71	100	125	140	160
Indoor unit	Outdoor unit						
	Duct						
	Cassette						-
	Floor ceiling						-

## Specifications

Model		Outdoor unit	Indoor unit	GUD50W/NhB-S				
				Duct(without water pump)	Duct(with water pump)	Cassette	Floor ceiling	
				GUD50P/B-S	GUD50PS/B-S	GUD50T/B-S	GUD50ZD/B-S	
Capacity	Cooling	kW		5.3	5.3	5.3	5.3	
	Heating	kW		5.8	5.8	5.8	5.8	
EER/COP		W/W		4.02/4.11	4.02/4.11	4.08/4.50	3.90/3.84	
Power supply		V/Ph/Hz		220~240V~50/60Hz				
Power input	Cooling	kW		1.32	1.32	1.30	1.36	
	Heating	kW		1.41	1.41	1.29	1.51	
Current input	Cooling	A		6.17	6.17	6.08	6.36	
	Heating	A		6.59	6.59	6.03	7.06	
Indoor unit	Airflow volume(SH/H/M/L)	m³/h		1100/1000/900/800	1100/1000/900/800	1300/1100/900/800	1100/900/700/600	
	Sound pressure level(SH/H/M/L)	dB(A)		41/40/38/37	41/40/38/37	43/41/38/35	49/46/40/37	
	Dimension (W×D×H)	Outline	mm		1000×450×200	1000×450×200	840×840×240	870×665×235
		Package	mm		1308×568×275	1308×568×275	933×903×272	1033×720×300
	Net weight/Gross weight	kg		25/30	26/31	29/34	26/31	
Outdoor unit	Sound pressure level	dB(A)		57	57	57	57	
	Dimension (W×D×H)	Outline	mm		892×340×698	892×340×698	892×340×698	892×340×698
		Package	mm		1029×458×750	1029×458×750	1029×458×750	1029×458×750
	Net weight/Gross weight	kg		47/51	47/51	47/51	47/51	
	Connection pipe	Outer diameter	Liquid	mm		Φ6	Φ6	Φ6
Gas			mm		Φ12	Φ12	Φ12	
Max. distance		Height	m		20	20	20	20
	Length	m		35	35	35	35	
Loading quantity(IDU)	40GP	unit		109	109	82	100	
	40HP	unit		122	122	92	113	

Model		Outdoor unit		GUD71W/NhB-S			
		Indoor unit	Duct(without water pump) GUD71PH/B-S	Duct(with water pump) GUD71PHS/B-S	Cassette GUD71T/B-S	Floor ceiling GUD71ZD/B-S	
Capacity	Cooling	kW	7.1	7.1	7.1	7.1	
	Heating	kW	8.0	8.0	8.0	8.0	
EER/COP		W/W	3.60/3.90	3.60/3.90	3.46/3.81	3.55/3.56	
Power supply		V/Ph/Hz	220~240V-50/60Hz				
Power input	Cooling	kW	1.97	1.97	2.05	2.00	
	Heating	kW	2.05	2.05	2.10	2.25	
Current input	Cooling	A	9.21	9.21	9.58	9.35	
	Heating	A	9.58	9.58	9.82	10.52	
Indoor unit	Airflow volume(SH/H/M/L)		m³/h	1400/1200/1000/900	1400/1200/1000/900	1400/1200/1000/900	1400/1200/1000/900
	Sound pressure level(SH/H/M/L)		dB(A)	44/41/39/37	44/41/39/37	47/46/42/38	46/45/43/39
	Dimension (W×D×H)	Outline	mm	900×655×260	900×655×260	840×840×240	1200×665×235
		Package	mm	1163×803×325	1160×800×310	933×903×272	1363×770×300
	Net weight/Gross weight		kg	30/38	31/39	29/34	31/37
Sound pressure level		dB(A)	52	52	52	52	
Outdoor unit	Dimension (W×D×H)	Outline	mm	892×340×698	892×340×698	892×340×698	892×340×698
		Package	mm	1029×458×750	1029×458×750	1029×458×750	1029×458×750
	Net weight/Gross weight		kg	53/57	53/57	53/57	53/57
Connection pipe	Outer diameter	Liquid	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52
		Gas	mm	Φ16	Φ16	Φ16	Φ16
	Max. distance	Height	m	25	25	25	25
		Length	m	50	50	50	50
Loading quantity(IDU)	40GP	unit	91	91	82	90	
	40HP	unit	103	103	92	97	

Model		Outdoor unit		GUD125W/NhB-S			
		Indoor unit	Duct(without water pump) GUD125PH/B-S	Duct(with water pump) GUD125PHS/B-S	Cassette GUD125T/B-S	Floor ceiling GUD125ZD/B-S	
Capacity	Cooling	kW	12.5	12.5	12.5	12.0	
	Heating	kW	14.0	14.0	13.5	14.0	
EER/COP		W/W	3.33/3.50	3.33/3.50	3.25/3.21	3.20/3.33	
Power supply		V/Ph/Hz	220~240V-50/60Hz				
Power input	Cooling	kW	3.75	3.75	3.85	3.75	
	Heating	kW	4.00	4.00	4.20	4.20	
Current input	Cooling	A	17.53	17.53	18.00	17.53	
	Heating	A	18.70	18.70	19.64	19.64	
Indoor unit	Airflow volume(SH/H/M/L)		m³/h	2600/2200/1900/1600	2600/2200/1900/1600	2000/1800/1600/1400	2100/1900/1700/1400
	Sound pressure level(SH/H/M/L)		dB(A)	47/43/42/41	47/43/42/41	54/53/50/47	52/50/49/45
	Dimension (W×D×H)	Outline	mm	1400×700×300	1400×700×300	840×840×290	1570×665×235
		Package	mm	1678×808×365	1678×808×365	933×903×335	1729×770×300
	Net weight/Gross weight		kg	56/63	57/64	36/42	41/48
Sound pressure level		dB(A)	58	58	58	58	
Outdoor unit	Dimension (W×D×H)	Outline	mm	940×460×820	940×460×820	940×460×820	940×460×820
		Package	mm	1083×573×973	1083×573×973	1083×573×973	1083×573×973
	Net weight/Gross weight		kg	92/104	92/104	92/104	92/104
Connection pipe	Outer diameter	Liquid	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52
		Gas	mm	Φ16	Φ16	Φ16	Φ16
	Max. distance	Height	m	30	30	30	30
		Length	m	75	75	75	75
Loading quantity(IDU)	40GP	unit	52	52	55	58	
	40HP	unit	55	55	61	66	

Model		Outdoor unit		GUD100W/NhB-S			
		Indoor unit	Duct(without water pump) GUD100PH/B1-S	Duct(with water pump) GUD100PHS/B1-S	Cassette GUD100T/B-S	Floor ceiling GUD100ZD/B-S	
Capacity	Cooling	kW	10.0	10.0	10.1	10.1	
	Heating	kW	12.0	12.0	12.0	12.0	
EER/COP		W/W	3.28/3.43	3.28/3.43	3.32/3.53	3.37/3.43	
Power supply		V/Ph/Hz	220~240V-50/60Hz				
Power input	Cooling	kW	3.05	3.05	3.04	3.00	
	Heating	kW	3.50	3.50	3.40	3.50	
Current input	Cooling	A	14.259	14.26	14.21	14.03	
	Heating	A	16.36	16.36	15.90	16.36	
Indoor unit	Airflow volume(SH/H/M/L)		m³/h	2000/1700/1400/1200	2000/1700/1400/1200	2000/1700/1400/1200	1700/1500/1400/1200
	Sound pressure level(SH/H/M/L)		dB(A)	46/44/42/40	46/44/42/40	53/52/50/43	52/50/47/44
	Dimension (W×D×H)	Outline	mm	1000×700×300	1000×700×300	840×840×290	1200×665×235
		Package	mm	1205×813×360	1205×813×360	933×903×335	1363×770×300
	Net weight/Gross weight		kg	40/46	41/47	33/39	33/39
Sound pressure level		dB(A)	59	59	59	59	
Outdoor unit	Dimension (W×D×H)	Outline	mm	940×460×820	940×460×820	940×460×820	940×460×820
		Package	mm	1083x573x973	1083x573x973	1083x573x973	1083x573x973
	Net weight/Gross weight		kg	83/95	83/95	83/95	83/95
Connection pipe	Outer diameter	Liquid	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52
		Gas	mm	Φ16	Φ16	Φ16	Φ16
	Max. distance	Height	m	30	30	30	30
		Length	m	65	65	65	65
Loading quantity(IDU)	40GP	unit	60	60	55	61	
	40HP	unit	62	62	61	72	

Model		Outdoor unit		GUD140W/NhB-S			
		Indoor unit	Duct(without water pump) GUD140PH/B-S	Duct(with water pump) GUD140PHS/B-S	Cassette GUD140T/B-S	Floor ceiling GUD140ZD/B-S	
Capacity	Cooling	kW	13.8	13.8	13.6	13.2	
	Heating	kW	16.0	16.0	16.0	16.0	
EER/COP		W/W	3.21/3.68	3.21/3.68	3.20/3.30	3.20/3.72	
Power supply		V/Ph/Hz	220~240V-50/60Hz				
Power input	Cooling	kW	4.30	4.30	4.25	4.12	
	Heating	kW	4.35	4.35	4.85	4.30	
Current input	Cooling	A	20.10	20.10	19.87	19.26	
	Heating	A	20.34	20.34	22.67	20.10	
Indoor unit	Airflow volume(SH/H/M/L)		m³/h	3000/2600/2200/1900	3000/2600/2200/1900	2200/2000/1700/1500	2300/2100/1900/1600
	Sound pressure level(SH/H/M/L)		dB(A)	49/47/44/41	49/47/44/41	55/54/51/48	52/51/49/46
	Dimension (W×D×H)	Outline	mm	1400×700×300	1400×700×300	840×840×290	1570×665×235
		Package	mm	1678×808×365	1678×808×365	933×903×335	1729×770×300
	Net weight/Gross weight		kg	56/63	57/64	36/42	41/48
Sound pressure level		dB(A)	57	57	57	57	
Outdoor unit	Dimension (W×D×H)	Outline	mm	900×340×1345	900×340×1345	900×340×1345	900×340×1345
		Package	mm	933×453×1500	933×453×1500	933×453×1500	933×453×1500
	Net weight/Gross weight		kg	106/116	106/116	106/116	106/116
Connection pipe	Outer diameter	Liquid	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52
		Gas	mm	Φ16	Φ16	Φ16	Φ16
	Max. distance	Height	m	30	30	30	30
		Length	m	75	75	75	75
Loading quantity(IDU)	40GP	unit	44	44	49	50	
	40HP	unit	50	50	53	57	

Model		Outdoor unit	GUD160W/NhB-S		GUD160W/NhB-X	
			Indoor unit	Duct(without water pump)	Duct(with water pump)	Duct(without water pump)
			GUD160PH/B-S	GUD160PHS/B-S	GUD160PH/B-S	GUD160PHS/B-S
Capacity	Cooling	kW	16.0	16.0	16.0	16.0
	Heating	kW	18.0	18.0	18.0	18.0
EER/COP		W/W	3.27/3.50	3.27/3.50	3.27/3.50	3.27/3.50
Power supply		V/Ph/Hz	220-240V ~50/60Hz		380-415V 3N-50/60Hz	
Power input	Cooling	kW	4.90	4.90	4.90	4.90
	Heating	kW	5.15	5.15	5.15	5.15
Current input	Cooling	A	22.91	22.91	7.61	7.61
	Heating	A	24.08	24.08	7.99	7.99
Indoor unit	Airflow volume(SH/H/M/L)		m³/h	3200/2700/2300/2000	3200/2700/2300/2000	3200/2700/2300/2000
	Sound pressure level(SH/H/M/L)		dB(A)	48/45/42/40	48/45/42/40	48/45/42/40
	Dimension (W × D × H)	Outline	mm	1150 × 720 × 350	1150 × 720 × 350	1150 × 720 × 350
		Package	mm	1423 × 837 × 455	1423 × 837 × 455	1423 × 837 × 455
Net weight/Gross weight		kg	57/69	58/70	57/69	58/70
Outdoor unit	Sound pressure level		dB(A)	60	60	60
	Dimension (W × D × H)	Outline	mm	940 × 320 × 1430	940 × 320 × 1430	940 × 320 × 1430
		Package	mm	1038 × 438 × 1580	1038 × 438 × 1580	1038 × 438 × 1580
	Net weight/Gross weight		kg	117/128	117/128	114/125
Connection pipe	Outer diameter	Liquid	mm	Φ9.52	Φ9.52	Φ9.52
		Gas	mm	Φ16	Φ16	Φ16
	Max. distance	Height	m	30	30	30
		Length	m	75	75	75
Loading quantity(IDU)		40GP	unit	41	41	41
		40HP	unit	49	49	49

### Control System Lineup

Control system		Product series	Duct type	Cassette type	Floor ceiling type
Wired controller	XK117		●	○	○
	XE71-42/G		○	○	○
Remote controller	YAP1F6(WIFI)		○	●	●
WiFi module (G-Cloud) <sup>2</sup>	ME31-00/C4 ME31-00/C6		○	○	○
MODBUS gateway	ME50-00/EG(M)		○	○	○
Centralized controller (up to 36 indoor units)	CE52-24/F(C)		○	○	○
Dry contact gateway <sup>3</sup> (extended function board)	ME30-42/E1		○	○	○
Door controller	MK03		○	○	○
Regional controller	Zone controller (LE60-13/GH)		○	○	○
BACnet gateway	ME30-44/D2(B)		○	○	○

Note :

● means standard, ○ means optional.

\*1: Controller(cooling only)

\*2: Please contact the sales representative for WiFi module selection.

\*3: Function: ON/OFF input control,emergency stop input, error output, cold plasma control, fresh air control.



# 1 Energy-efficient • Comfortable

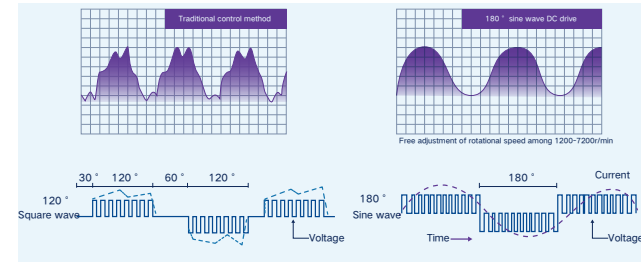
It adopts DC motor and the compressor's drive program is optimized. The lowest operation frequency is lowered and the compressor's output is decreased, more energy-saving and efficient.

## Application of DC inverter compressor



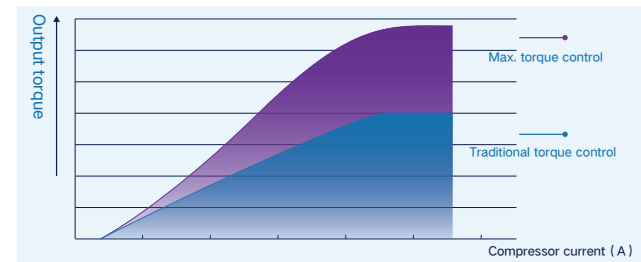
## Inverter 180° sine wave technology

» Thanks to inverter 180° sine wave technology, output of compressor is much smoother and fluctuation of temperature is smaller, more energy-saving and comfortable.



## Torque control technology

» Thanks to the minimum current and maximum torque control technology, the minimum current can output the maximum torque, reducing the consumption of motor winding and intelligent power module for higher efficiency.



# Big Duct Type Unit

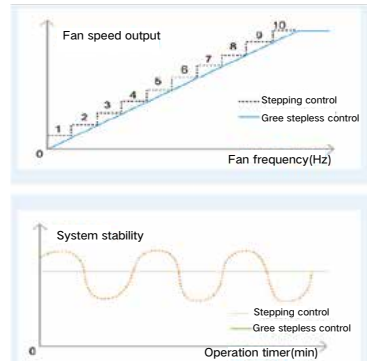
Unit capacity: 20-60kW, suitable for a variety of installation occasions.  
 Operation range: -7~48°C for cooling and -15~24°C for heating.  
 Powerful cooling and heating capacity, convenient for installation and easy for after-sales service.  
 Applicable for large space areas, such as hotels, restaurants, meeting rooms, supermarkets and factories.

## Inverter fan control technology

» DC inverter motor is adopted with reserved outlet air static pressure, energy-saving function and quiet function etc., being able to achieve stepless speed control within 5Hz~75Hz. Stepless inverter fan control is more precise compared with multiple speed adjustment.

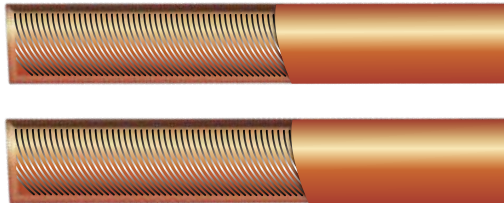
» Fan speed is adjusted precisely according to the demand of heat exchange amount, which effectively ensures system pressure maintained in most optimized status and greatly improves motor efficiency.

\*Not applicable for 50-60kW fixed-speed units.

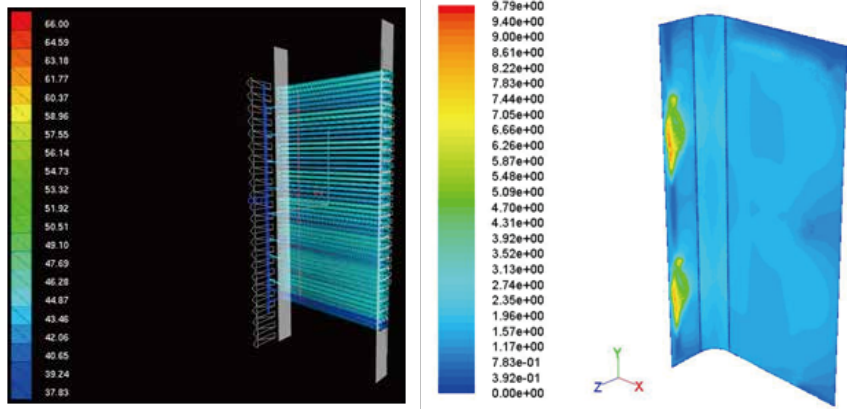


## Condenser simulation design

» Condenser adopts fine-draw fins and inner-threaded heat exchange pipe. Through simulation of wind field and stream, condenser heat exchange effect is greatly improved.

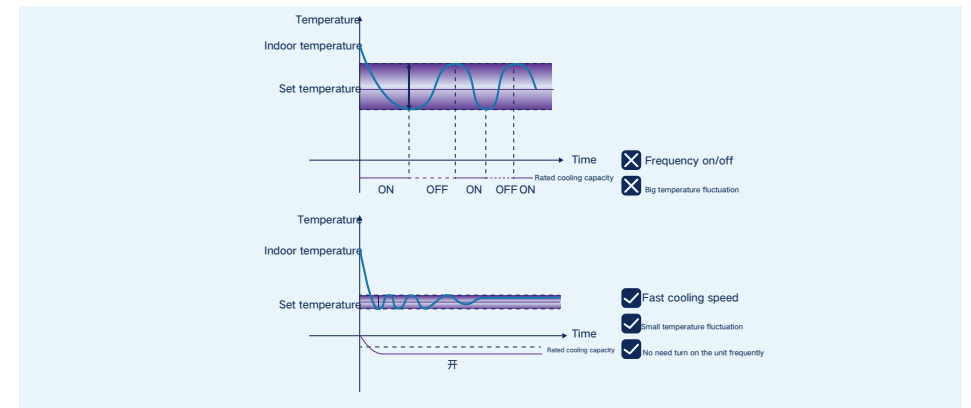


## Inner-threaded pipe



## PID control technology

» Adopt smart PID capacity adjustment technology for quickly and accurately reaching set temperature. The comfort in the room is greatly improved thanks to small temperature fluctuation.



## 2 Constant Air Volume • High Static Pressure

### High static pressure design

» The air outlet static pressure of unit is up to 250Pa, with further air supply distance, suitable for various places.  
 » Users can freely adjust the static pressure among 0~250Pa according to the actual requirements, with high engineering adaptability.

### Constant air volume control

» Thanks to automatic constant air volume function, the unit can freely and intelligently adjust the fan for maintaining constant air volume output, convenient and reliable.  
 » Constant air volume is controlled by the current of motor.

### Smart filth blockage cleaning reminder

» The whole series indoor units have been equipped with filters for filtrating the sundries and hair in the air. The filth blockage of unit can be predicted by monitoring motor current and the change of rotation speed. The wired controller smartly reminds the user for cleaning.

## 3 Eco-friendly • Reliable

### CAN-Bus communication technology

» Non-polar communication with strong resistance against electromagnetic interference. Specialized shield wire is not needed for communication between units. Common communication wires can be used.

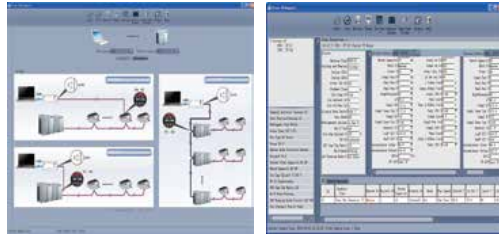


## High reliability design of compressor

- » Compressor adopts the technology to achieve sufficient oil supply, little abrasion and stable operation.
- » High-efficiency oil separation: Effectively prevent rotary oil return and reduce oil wound up to top of the motor.
- » High-efficiency oil supply: Oil pipe design ensures sufficient oil supply.
- » Non-contact oil film seal: Axial and radial direction of compressor adopts non-contact seal. With oil film seal of lubricant, there is little abrasion.
- » Lubricant cleaning: Impurities generated during running-in period will be absorbed to ensure lubricant cleanness.

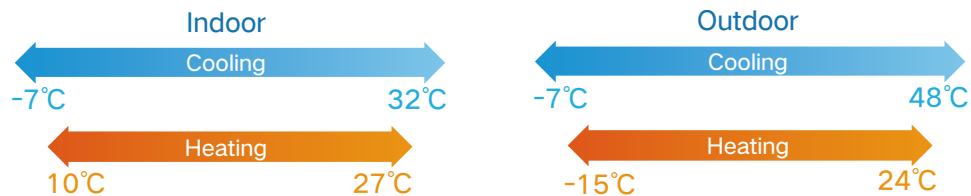
## Perfect protection measures and accurate fault diagnosis

- » Perfect protection measures, accurate fault diagnosis and corresponding protections can ensure reliable and safe operation.
- » There are a series of protection, such as active frequency-decreasing protection of compressor, freezing prevention protection, high pressure protection, low pressure protection, high discharge temperature protection, overload protection, sensor fault protection and temperature fault protection.
- » Easy malfunction diagnosis: Debugging software can be connected to realize real-time monitor on running status and acquire malfunction data.



## Wide Range of Running Temperature

- » DC motor is adopted. With precise control on high pressure, temperature range for cooling is wider.



## Wide range of operation voltage

- » Voltage between 342V~456V is applicable, which can better cope with the voltage fluctuation.



## Side Discharge DC Inverter

## 4 Maintenance • Convenience

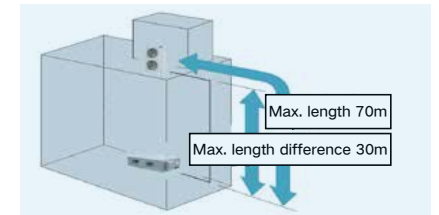
### Side discharge casing, convenient for installation

- » The size of side discharge casing is smaller and the weight is lighter, which saves space greatly. The floor space will decrease by 30% and loading quantity will increase by 20%;
- » Flexible transportation, move in/out the passenger elevator directly; it can be installed in the wall, convenient for the installation.



### Long connection pipe with big height difference

- » Connection pipe between indoor and outdoor units can be as long as 70m; the max allowable height difference between indoor unit and outdoor unit is 30m.



# Big Duct Type Unit High Capacity Series



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



» 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 of air duct installed by customers.

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

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

## Specifications









Model	Heat pump		FGR20Pd/DNa-X	FGR25Pd/DNa-X	FGR30Pd/DNa-X	FGR40Pd/D(2)Na-X	
Capacity	Cooling	kW	20	25	30	40	
		Btu/h	68200	85300	102400	136500	
	Heating	kW	22.0	27.5	33.0	43.0	
		Btu/h	75100	93800	112600	146700	
EER/COP		W/W	2.56/3.14	2.65/3.10	2.65/3.20	2.59/3.10	
Power supply		V/Ph/Hz	380-415V 3N~ 50/60Hz				
Power input	Cooling	kW	7.80	9.44	11.30	15.45	
	Heating	kW	7.00	8.87	10.30	13.85	
Current input	Cooling	A	16.50	18.90	22.70	27.80	
	Heating	A	15.60	17.20	20.70	26.40	
Refrigerant charge volume		kg	6.40	8.00	9.50	6.40x2	
Indoor unit	Airflow volume	CFM	2177	2472	3060	4120	
		m <sup>3</sup> /h	3700	4200	5200	7000	
	ESP	Rated	Pa	120			
		Range	Pa	0-250			
	Sound pressure level(H/M/L)		dB(A)	52/51/50	53/52/51	55/54/53	56/55/54
		Outline	mm	1315 × 760 × 385	1520 × 840 × 450	1520 × 840 × 450	1680 × 900 × 650
	Dimension (W × D × H)	Package	mm	1578 × 883 × 472	1788 × 988 × 580	1788 × 988 × 580	1923 × 1153 × 850
			kg	82/104	99/134	105/145	165/210
	Sound pressure level		dB(A)	62	63	65	62*
		Outline	mm	940 × 320 × 1430	940 × 460 × 1615	940 × 460 × 1615	(940 × 320 × 1430) × 2
Dimension (W × D × H)	Package	mm	1038 × 438 × 1580	1038 × 578 × 1765	1038 × 578 × 1765	(1038 × 438 × 1580) × 2	
		kg	120/130	146/162	175/190	(120/130) × 2	
Net weight/Gross weight		kg	120/130	146/162	175/190	(120/130) × 2	
	Outer diameter	Liquid	Inch(mm)	Φ3/8(9.52)	Φ3/8(9.52)	Φ1/2(12.7)	Φ3/8(9.52) × 2
Connection pipe		Gas	Inch(mm)	Φ7/8(22.2)	Φ7/8(22.2)	Φ1(25.4)	Φ3/4(19.05) × 2
	Max. distance	Height	m	30			
Length		m	70				
Loading quantity	20'GP	unit	15	12	12	6	
	40'GP/40'HQ	unit	35/42	28/28	28/28	12/14	

\*Single unit's noise value

## Eastern Europe/Africa

Model (Indoor unit/Outdoor unit)			FGR50Pd/D(2)Na-M	FGR60Pd/D(2)Na-M	UMD250PH/A-S(P) UMD250W/A-X(P)	UMD300PH/A-S(P) UMD300W/A-X(P)	
Capacity	Cooling	kW	50	60	25	30	
	Heating	kW	53.0	64.0	27.5	33	
Power supply		V/Ph/Hz	380-415V 3N-50Hz	380-415V 3N-50Hz	380-415V/3Ph/50/60Hz	380-415V/3Ph/50/60Hz	
Power input	Cooling	kW	21.7	27.0	9.0	11.0	
	Heating	kW	18.9	20.8	8.2	9.5	
Current input	Cooling	A	38.8	48.3	16.1	19.7	
	Heating	A	33.8	37.2	14.7	17.0	
Refrigerant charge volume		kg	16	19	7	8	
Indoor unit	Airflow volume	CFM	5296	6356	2472	3060	
		m <sup>3</sup> /h	9000	10800	4200	5200	
	ESP	Rated	Pa	160	160	120	120
		Range	Pa	-	-	0-250	0-250
	Sound pressure level		dB(A)	60	62	53	55
		Outline	mm	1900 × 1100 × 700	1900 × 1100 × 850	1520 × 840 × 450	1520 × 840 × 450
	Dimension (W × D × H)	Package	mm	2123 × 1493 × 900	2123 × 1493 × 1055	1788 × 988 × 580	1788 × 988 × 580
			kg	255/330	270/350	105/138	110/145
	Sound pressure level		dB(A)	63*	65*	63	65
		Outline	mm	(940 × 460 × 1615) × 2	(940 × 460 × 1615) × 2	940 × 320 × 1430	940 × 460 × 1615
Dimension (W × D × H)	Package	mm	(1038 × 578 × 1765) × 2	(1038 × 578 × 1765) × 2	1038 × 438 × 1580	1038 × 578 × 1765	
		kg	(155/168) × 2	(188/203) × 2	127/138	155/170	
Net weight/Gross weight		kg	(155/168) × 2	(188/203) × 2	127/138	155/170	
	Outer diameter	Liquid	Inch(mm)	Φ3/8(9.52) × 2	Φ1/2(12.7) × 2	Φ3/8(9.52)	Φ1/2(12.7)
Connection pipe		Gas	Inch(mm)	Φ7/8(22.2) × 2	Φ1(25.4) × 2	Φ7/8(22.2)	Φ1(25.4)
	Max. distance	Height	m	30	30	30	30
Length		m	70	70	50	50	
Loading quantity	20'GP	unit	4	4	15	12	
	40'GP/40'HQ	unit	10/10	10/10	35/41	28/28	

## Control System Lineup

Control system		Product series	Duct split unit
Wired controller	XK46		●
	XE7A-24/H		○
	XE70-33/H		○
	JS13		○
	LE60-24/H1		○
Remote controller	YAP1F		○
MODBUS gateway	ME30-24/E7(M)		○
Centralized controller (up to 36 indoor units)	CE52-24/F(C)		○

Note:  
● means standard, ○ means optional. Smart zone controller should be selected with the wired controller at the same time.

## Big Duct Type Unit Cooling Only

R410A

UMD250/300/400 inverter unit; UM500/600 fixed-speed unit.



- » Factory installed crankcase heater, improving compressor reliability at low ambient temperature.
- » Golden fin pre-coated condenser coils, improving durability in the corrosive environments.
- » Precision EXV refrigerant metering, optimum running in the whole operating range.

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

## Specifications









Model (Indoor unit/Outdoor unit)		UMD250PH/A-S(P)		UMD300PH/A-S(P)		UMD400PH/A-M(P)		UM500PH/A-M(P)		UM600PH/A-M(P)	
		UMLD250W/A-X(P)		UMLD300W/A-X(P)		UMLD400W/A-M(P)		UML500H/A-M(P)		UML600H/A-M(P)	
Capacity	Cooling	kW	25.00	30.00	38.10	47.70	56.50				
		Btu/h	85300	102400	130000	162700	192800				
Power supply		V/Ph/Hz	380-415V 3N ~ 50/60Hz				380V 3N ~ 50Hz				
Power input	Cooling(Outdoor unit)	kW	9.00	11.00	18.00	22.25	28.00				
	Cooling(Indoor unit)	kW	0.85	1.0	1.35	2.6	2.85				
Refrigerant charge volume		kg	7.00	8.00	11.10	13.00	18.00				
Indoor unit	Air flow volume		CFM	2472	3060	4120	5297	6356			
			m³/h	4200	5200	7000	9000	10800			
	ESP	Rated	Pa	120	120	120	230	200			
		Range	Pa	0-250	0-250	0-250	-	-			
	Sound pressure level		dB(A)	53	55	56	62	63			
	Dimension (W × D × H)	Outline	mm	1520 × 840 × 450	1520 × 840 × 450	1550 × 850 × 550	1900 × 850 × 706	1900 × 850 × 706			
		Package	mm	1788 × 988 × 580	1788 × 988 × 580	1813 × 1074 × 855	2163 × 1078 × 895	2163 × 1078 × 895			
Net weight/Gross weight		kg	105/138	110/145	155/205	230/293	230/293				
Outdoor unit	Sound pressure level		dB(A)	63	65	66	67	68			
			Dimension (W × D × H)	Outline	mm	940 × 320 × 1430	940 × 460 × 1615	940 × 460 × 1615	1340 × 765 × 1740	1340 × 765 × 1740	
	Package	mm	1038 × 438 × 1580	1038 × 578 × 1765	1038 × 578 × 1765	1420 × 840 × 1910	1420 × 840 × 1910				
	Net weight/Gross weight		kg	127/138	155/170	180/193	350/365	380 / 395			
Connection pipe	Outer diameter	Liquid	inch(mm)	Φ3/8(9.52)	Φ1/2(12.70)	Φ1/2(12.70)	Φ5/8(15.90)	Φ5/8(15.90)			
		Gas	inch(mm)	Φ3/4(19.05)	Φ1(25.40)	Φ1(25.40)	Φ1-3/8(34.90)	Φ1-3/8(34.90)			
	Max. distance	Height	m	30	30	30	30	30			
		Length	m	50	50	50	50	50			
Loading quantity		40'GP/40'HQ	unit	35/41	28/28	14/18	8/8	8/8			

## Philippines

Model		FG40Pd/D(2)Na-F		FG60Pd/D(2)Na-F	
Capacity	Cooling	kW		40.00	
Power supply		V/Ph/Hz		220-240V 3 ~ 60Hz	
Power input	Cooling	kW		14.20	
Current input	Cooling	A		43.8	
Refrigerant charge volume		kg		6.60x2	
Indoor unit	Airflow volume		CFM	4120	6356
			m³/h	7000	10800
	ESP	Rated	Pa	120	160
		Range	Pa	0-210	-
	Sound pressure level		dB(A)	56/55/54	61/-/-
	Dimension (W × D × H)	Outline	mm	1680 × 900 × 650	1900 × 1100 × 850
		Package	mm	1963 × 1123 × 840	2123 × 1493 × 1055
Net Weight/Gross weight		kg	172/233	278/365	
Outdoor unit	Sound pressure level		dB(A)	62*	65*
	Dimension (W × D × H)	Outline	mm	( *940 × 460 × 1615 ) x2	( 940 × 460 × 1615 ) x2
		Package	mm	( 1038 × 578 × 1765 ) x2	( 1038 × 578 × 1765 ) x2
	Net Weight/Gross weight		kg	( 153/167 ) x2	( 186/200 ) x2
Connection pipe	Outer diameter	Liquid	inch(mm)	Φ3/8 ( 9.52 ) x2	Φ1/2 ( 12.7 ) x2
		Gas	inch(mm)	Φ3/4 ( 19.05 ) x2	Φ1 ( 25.4 ) x2
	Max. distance	Height	mm	30	30
		Length	mm	70	70
Loading quantity	20'GP	unit	5	4	
	40'GP/40'HQ	unit	11/13	8/8	

\*Single unit's noise value.

## Control System Lineup

Control system	Product series	Duct split unit
Wired controller	XK46 	●
	XE7A-24/H 	○
	XE70-33/H 	○
	JS13 	○
	LE60-24/H1 	○
Remote controller	YAP1F 	○
MODBUS gateway	ME30-24/E7(M) 	○
Centralized controller (up to 36 indoor units)	CE52-24/F(C) 	○

Note:

● means standard, ○ means optional. Smart zone controller should be chosen with wired controller at the same time.



# Big Duct Type Unit (India)



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



- » DC inverter for high efficiency and energy saving.
- » High static units for longer ducted runs.
- » ESP is up to 250Pa.\*
- » Static pressure is adjustable.
- » Factory installed crankcase heater, improving compressor reliability at low ambient temperature.
- » Golden fin pre-coated condenser coils, improving durability in the corrosive environments.
- » Precision EXV refrigerant metering, optimum running in the whole operating range.
- » Indoor fan can be adjusted according to the static pressure of air duct installed by customers.

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

Item	Nominal operating condition(temperature)				Operating range(temperature)
	Outdoor condition		Indoor condition		Outdoor condition
	DB(°C)	WB(°C)	DB(°C)	WB(°C)	DB(°C)
Cooling	35	24	27	19	18 ~ 48
Heating	20	15	7	6	-15 ~ 24

## Cooling Only

Model ( Indoor unit/Outdoor unit )			UMD200PH/A-S(In)	UMD250PH/A-S(In)	UMD300PH/A-S(In)	UMD400PH/A-M(In)	
			UMLD200W/A-X(In)	UMLD250W/A-X(In)	UMLD300W/A-X(In)	UMLD400W/A-M(In)	
Capacity	Cooling	kW	20	23.4	28	35.2	
Power supply		V/Ph/Hz	380-415V 3N-50/60Hz	380-415V 3N-50/60Hz	380-415V 3N-50/60Hz	380-415V 3N-50/60Hz	
Power input	Cooling	kW	7.8	9.85	12	18	
Current input	Cooling	A	16.39	20.38	24.71	32.18	
Refrigerant charge volume		kg	6.40	7.00	8.00	11.10	
Indoor unit	Airflow volume	CFM	2177	2472	3060	4120	
		m³/h	3700	4200	5200	7000	
	ESP	Rated	Pa	120	120	120	120
		Range	Pa	0-250	0-250	0-250	0-250
	Sound pressure level	dB(A)	52	53	55	56	
	Dimension (W×D×H)	Outline	mm	1315×760×385	1520×840×450	1520×840×450	1550×850×550
		Package	mm	1578×883×472	1788×988×580	1788×988×580	1813×1074×855
Net weight/Gross weight		kg	82/104	105/138	110/145	155/205	
Outdoor unit	Sound pressure level	dB(A)	62	63	65	66	
	Dimension (W×D×H)	Outline	mm	940×320×1430	940×320×1430	940×460×1615	940×460×1615
		Package	mm	1038×438×1580	1038×438×1580	1038×578×1765	1038×578×1765
Net weight/Gross weight		kg	126/137	127/138	155/170	180/193	
Connection pipe	Outer diameter	Liquid	Inch(mm)	φ3/8(9.52)	φ3/8(9.52)	φ1/2(12.7)	φ1/2(12.7)
		Gas	Inch(mm)	φ3/4(19.05)	φ7/8(22.2)	φ1(25.4)	φ1(25.4)
	Max. distance	Height	m	30	30	30	30
		Length	m	50	50	50	50
Loading quantity	20'GP	unit	15	15	12	6	
	40'GP/40'HQ	unit	35/41	35/41	28/28	14/18	









## Specifications

Model (Indoor unit/Outdoor unit)			UM500PH/A-M(In)	UM600PH/A-M(In)		
			UML500H/A-M(In)	UML600H/A-M(In)		
Capacity	Cooling	kW	44.6	52.8		
	Heating	kW	/	/		
Power supply	V/Ph/Hz		380V 3N-50Hz	380V 3N-50Hz		
Power input	Cooling	kW	22.25	28		
	Heating	kW	/	/		
Current input	Cooling	A	39.77	50.05		
	Heating	A	/	/		
Refrigerant charge volume			kg	13		
Indoor unit	Airflow volume			CFM	5297	
				m <sup>3</sup> /h	9000	
	ESP	Rated	Pa	230	200	
		Range	Pa	230	200	
	Sound pressure level			dB(A)	62	
	Dimension (W × D × H)	Outline	mm	1900 × 850 × 706	1900 × 850 × 706	
		Package	mm	2163 × 1078 × 895	2163 × 1078 × 895	
Net weight/Gross weight			kg	230/293		
Outdoor unit	Sound pressure level			dB(A)	67	
	Dimension (W × D × H)	Outline	mm	1340 × 765 × 1740	1340 × 765 × 1740	
		Package	mm	1420 × 840 × 1910	1420 × 840 × 1910	
	Net Weight/Gross weight			kg	350/365	
Connection pipe	Outer diameter	Gas	Liquid	Inch(mm)	Φ5/8(15.9)	Φ5/8(15.9)
				Inch(mm)	Φ1-3/8(34.9)	Φ1-3/8(34.9)
	Max. distance	Height	m	30	30	
		Length	m	50	50	
Loading quantity	20'GP	unit	4	4		
	40'GP/40'HQ	unit	8/8	8/8		

## Heat Pump

Model(Indoor unit/Outdoor unit)			UMD200PH/A-S(In)	UMD250PH/A-S(In)	UMD300PH/A-S(In)
			UMD200W/A-X(In)	UMD250W/A-X(In)	UMD300W/A-X(In)
Capacity	Cooling	kW	20	23.4	28
	Heating	kW	22	26	31
Power supply	V/Ph/Hz		380-415V 3N-50/60Hz	380-415V 3N-50/60Hz	380-415V 3N-50/60Hz
Power input	Cooling	kW	7.8	9.85	12
	Heating	kW	7	9.05	10.5
Current input	Cooling	A	13.9	20.38	24.71
	Heating	A	12.5	18.95	22.03
Refrigerant charge volume			kg	6.4	7.00
Indoor unit	Airflow volume			CFM	2177
				m <sup>3</sup> /h	3700
	ESP	Rated	Pa	120	120
		Range	Pa	0-250	0-250
	Sound pressure level			dB(A)	52
	Dimension (W × D × H)	Outline	mm	1315 × 760 × 385	1520 × 840 × 450
		Package	mm	1578 × 883 × 472	1788 × 988 × 580
Net weight/Gross weight			kg	82/104	
Outdoor unit	Sound pressure level			dB(A)	62
	Dimension (W × D × H)	Outline	mm	940 × 320 × 1430	940 × 320 × 1430
		Package	mm	1038 × 438 × 1580	1038 × 438 × 1580
	Net weight/Gross weight			kg	126/137
Connection pipe	Outer diameter	Liquid	Inch(mm)	Φ3/8(9.52)	Φ3/8(9.52)
				Inch(mm)	Φ3/4(19.05)
	Max. distance	Height	mm	30	30
		Length	mm	50	50
Loading quantity	20'GP	unit	15	15	
	40'GP/40'HQ	unit	35/41	35/41	

## Control System Lineup

Control system	Product series	Duct split unit
Wired controller	XK46 	●
	XE7A-24/H 	○
	XE70-33/H 	○
	JS13 	○
	LE60-24/H1 	○
Remote controller	YAP1F 	○
MODBUS gateway	ME30-24/E7(M) 	○
Centralized controller (up to 36 indoor units)	CE52-24/F(C) 	○

Note:

● means standard, ○ means optional. Smart zone controller should be chosen with wired controller at the same time.

# Big Duct Type Unit (Australia)



It is a kind of split system that can be connected with air duct to realize cooling/heating in subdivided area. High static pressure indoor unit is designed, convenient for installation and maintenance, saving labor and time.



Intelligent defrosting

Compact design

Comprehensive protection

Easier maintainability

Self-diagnosis

Wide operation range









- » Removable and reconfigurable indoor unit for easy maintenance.
- » All DC inverter design, fast cooling and heating, high-efficiency and energy-saving.
- » Anti-corrosive black coating fins, adaptable to severe environment.
- » Multiple control methods, connectable to BMS or zone control.

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

## Cooling Only

Model			FGR20Pd/D1Na-X ( Au )	
Capacity	Cooling	kW	20.4	
	Heating	kW	22.5	
Power supply		V/Ph/Hz	380-415V 3N~50/60Hz	
Power input	Cooling	kW	6.38	
	Heating	kW	6.28	
Current input	Cooling	A	11.4	
	Heating	A	11.2	
Refrigerant charge volume		kg	9.5	
Indoor unit	Airflow volume		CFM	2825
			m³/h	4800
	ESP	Rated	Pa	72
		Range	Pa	0-250
	Sound pressure level		dB(A)	53
	Dimension (W × D × H)	Outline	mm	1520 × 840 × 450
		Package	mm	1713x968x589
	Net Weight/Gross weight		kg	110/135
Outdoor unit	Sound pressure level		dB(A)	65
	Dimension (W × D × H)	Outline	mm	940 × 460 × 1615
		Package	mm	1038 × 578 × 1765
	Net Weight/Gross weight		kg	190/205
Connection pipe	Outer diameter	Liquid	Inch(mm)	φ3/8(9.52)
		Gas	Inch(mm)	φ7/8(22.2)
	Max. distance	Height	m	30
		Length	m	70
Loading quantity	20'GP		unit	9
	40'GP/40'HQ		unit	22/28

## Control System Lineup

Control system		Product series	Duct split unit
Wired controller	XK46		●
	XE7A-24/H		○
	XE70-33/H		○
	JS13		○
	LE60-24/H1		○
Remote controller	YAP1F		○
MODBUS gateway	ME30-24/E7(M)		○
Centralized controller (up to 36 indoor units)	CE52-24/F(C)		○
Regional controller	Zone controller LE60-13/GH		○

Note:  
● means standard, ○ means optional. Smart zone controller should be selected with the wired controller at the same time.



## Air-cooled Packaged Unit

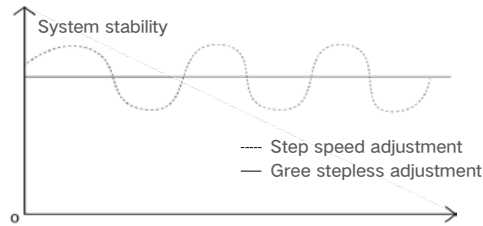
10HP big cooling capacity and 4000m<sup>3</sup>/h circulation air volume for turbo cooling and heating, applicable for office buildings, meeting rooms, hospitals, shopping malls, restaurants, hotels and supermarkets.

# 1 Exquisite technique makes comfort ubiquitous

## DC inverter technology, comfortable and energy-saving

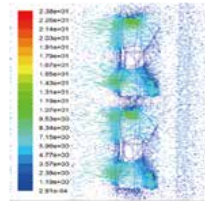
» Adopt DC inverter scroll compressor, with higher compression efficiency and wider operation frequency range.

» By adopting DC inverter fan, the efficiency is higher, the noise is lower and the control precision for stepless speed regulation is higher. Cooling is available under the ambient temperature range of -5°C ~ 52°C.



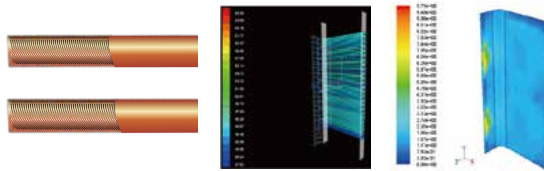
## Unique fan design for the optimal heat exchange

» Adopt a brand new fan design and unique installation method for motor, which enhances fan efficiency and heat exchange effect, effect. At the same time, fan vibration will be decreased and the comfort will be improved.



## Condenser simulation design for the optimal heat exchange

» Condenser adopts fine-draw fins and inner-threaded heat exchange pipe. Through simulation of wind field and stream, condenser heat exchange effect is greatly improved.



## Wide-angle air supply, comfortable everywhere

» Adopt wide air flow design and adopt high-efficiency centrifugal blades for wide-angle and long-distance air supply, creating natural and comfortable indoor environment.

## Refreshing appearance, fashionable and versatile

» Depth of slim indoor unit is as low as 0.4M for small occupation space, with black and white colors, fashionable and concise.



## Smart design for comfort

» Power-off memory function: Once power failure occurs during operation, the controller can memorize the operation status before power failure. When power recovered, the unit operates under the set modes before power failure.

» 24h timer ON and timer OFF; set 24h timer ON and timer OFF by the wired controller.

» Smart monitoring: Optional gateway and MODBUS protocol for realizing remote control.

» PID algorithm adjustment: Automatically adjust the frequency according to the difference between room temperature and set temperature. When there's big difference between room temperature and set temperature, turbo heating/cooling will be activated; when room temperature is almost the same as set temperature, output capacity will be decreased to maintain the stability.



# 2 Excellent quality, more reliable operation

## High quality and excellent performance

» The unit adopts high-quality parts for reliable operation



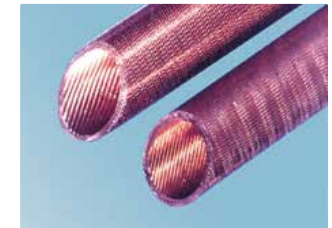
High-efficiency DC inverter compressor with intelligent PID capacity adjustment for quick and accurate control, with small temperature fluctuation.



Adopt DC inverter motor for stable operation, higher efficiency and lower noise



Adopt unique hydrophilic aluminum foil for smoother heat transfer and higher heat efficiency.

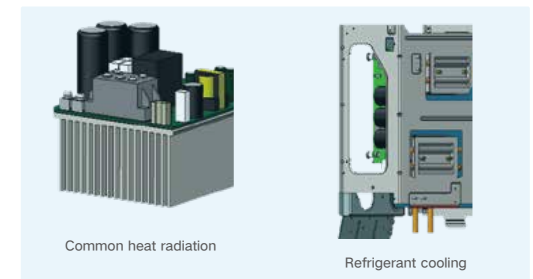


Adopt high-quality seamless inner groove copper pipe for greatly increasing heat exchange efficiency.

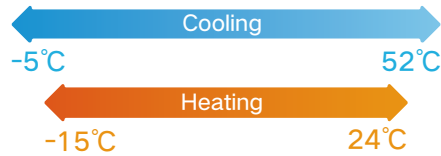
## Heat dissipation with refrigerant, reliable operation

» Generally, air-cooled fin is adopted for the compressor drive board for heat dissipation, but the size of fin is quite big, thus radiation heat loss is limited. Especially when the ambient temperature is high, heat dissipation requirement cannot be fulfilled. The electric component is easy to be damaged.

» By adopting refrigerant cooling drive board mode, the size will decrease 30%, thus ensuring reliable operation of compressor when ambient temperature is 52°C.



## Wide operation range (-15°C to 52°C)



## Voltage range for operation is wider, safe and reliable

» The designed air-cooled unit of 96,000 Btu/h can keep stable operation under wider voltage range (342V-456V), thus ensuring the safety of the unit and the staff.

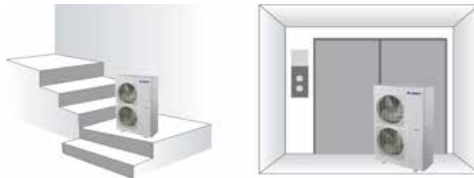


## Humanized design, convenient for installation

### Side discharge casing, convenient for installation

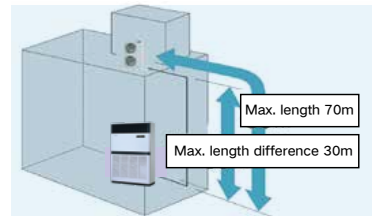
» The size of side discharge casing is smaller and the weight is lighter, which saves space greatly. The floor space will decrease by 30% and loading quantity will increase by 20%;

» Flexible transportation: it can be moved in or moved out of the passage elevator. It can be installed in the wall, convenient for installation.



### Long pipes design, several installation choices

» The length of the pipe which connects IDU and ODU is 50m, and the max design fall is 30m, providing several installation choices for the user.



» Thanks to flexible mounting base and 5-way outlet pipe design, installation difficulty and labor cost are greatly decreased.

» Size of inverter outdoor unit is smaller, reducing 40% of floor space compared with the fixed-speed unit;

» Adopt new generation communication protocol; wiring between indoor unit and outdoor unit is simplified; you can select the power cord according to the requirement for communication.



## Air-cooled packaged Unit



It is widely applicable to public places such as shopping malls, restaurants, ball rooms, meeting rooms, supermarkets, etc., creating a comfortable and pleasant environment for you.



» DC inverter technology, comfortable and energy-saving.

» Side discharge casing, convenient for installation.

» Adopt drive board heat dissipation with refrigerant for reliable operation.

» Long pipes design; with several installation choices.

» Wide operation range.

» Wider voltage range for operation, safe and reliable.

» Unique fan design for the optimal heat exchange.

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



## Specifications

Model			LF28WPD/Na-M(In)	RF28WPD/Na-M(In)	
Nominal capacity	Cooling	Btu/h	96000	96000	
		kW	28.1	28.1	
	Heating	Btu/h	-	30	
		kW	-	102000	
EER/COP	W/W	2.44/-	2.44/3		
	Btu/h-W	8.34/-	8.34/10.2		
Electrical data	Power supply		V/Ph/Hz	380-415V/3Ph/50Hz	380-415V/3Ph/50Hz
	Power input	Cooling	kW	11.5	11.5
	Rated power input		kW	15.4	15.4
	Input current	Cooling	A	20.49	20.49
	Rated current		A	-	-
	Max. overcurrent protection		A	-	-
	Min/Max voltage	Min/Max voltage(V)	V	342/456	342/456
	Power cord spec	Electrical conduit size(Inch)	mm <sup>2</sup>	2.5	2.5
Refrigerant	Type		R410A	R410A	
	Charge		8	8	
Airflow volume		CFM	2354	2354	
		m <sup>3</sup> /h	4000	4000	
Outdoor quantity		unit	1	1	
Indoor unit	Sound pressure level		dB(A)	63	63
	Sound power level		dB(A)	73	73
	Dimension(W × D × H)	Outline	mm	1200 × 400 × 1850	1200 × 400 × 1850
		Package	mm	1363 × 513 × 2013	1363 × 513 × 2013
Outdoor unit	Net weight/Gross weight		kg	129/141	129/141
	Sound pressure level		dB(A)	63	63
	Sound power level		dB(A)	73	73
	Dimension(W × D × H)	Outline	mm	940 × 460 × 1615	940 × 460 × 1615
	Package	mm	1038 × 578 × 1765	1038 × 578 × 1765	
Loading quantity	20'GP		set	9	7
	40'GP/40'HQ		set	19/19	18/18
Connction pipe	Length		m	7.5	7.5
	Outer diameter		Inch(mm)	Φ3/8(9.52)	Φ3/8(9.52)
			Inch(mm)	Φ7/8(22.2)	Φ7/8(22.2)
	Max. distance				
		Heating	m	30	30
		Cooling	m	50	50

## Middle East

Model			RF28WPD/Na-M	
Capacity	T1 cooling capacity	kW	28.1	28.1
		KBTU/h	96	96
	T3 cooling capacity	kW	18.2	62
		KBTU/h	62	62
	Nominal heating capacity	kW	30	102
		KBTU/h	102	102
Power type		380-415V 3N-50Hz		
Max. input power	kW	15.4	24.6	24.6
Max. input current	A			
Refrigerant type			R410A	
Refrigerant charge	kg		8	
IDU	Airflow volume	m <sup>3</sup> /h	4000	
	Static pressure	Pa	0	
	Noise	dB(A)	63	
	Size(W × D × H)	mm	1200 × 400 × 1850	
Net weight		kg	129	
		kg	129	
ODU	Noise	dB(A)	63	
	Size(W × D × H)	mm	940 × 460 × 1615	
Net weight		kg	160	
		kg	160	
Connection pipe	Liquid pipe	mm	Φ9.52	
	Gas pipe	mm	Φ22.2	
	Max. height fall	m	30	
The longest connection pipe		m	50	
		m	50	
Operating range (temperature)	Outdoor condition	Cooling	DB(°C)	
		Heating	DB(°C)	
			-7~-52	
			-15~-24	

## Southeast Asia

Model			LF28WPD/Na-M	
Capacity	T1 cooling capacity	kW	28	
		KBTU/h	96	
	T3 cooling capacity	kW	-	
		KBTU/h	-	
	Nominal heating capacity	kW	-	
		KBTU/h	-	
Power type		380-415V 3N-50Hz		
Max. input power	kW	15.4		
Max. input current	A	24.6		
Refrigerant type		R410A		
Refrigerant charge	kg	8		
IDU	Airflow volume	m <sup>3</sup> /h	4000	
	Static pressure	Pa	0	
	Noise	dB(A)	63	
	Size(W × D × H)	mm	1200 × 400 × 1850	
Net weight		kg	129	
		kg	129	
ODU	Noise	dB(A)	63	
	Size(W × D × H)	mm	940 × 460 × 1615	
Net weight		kg	156	
		kg	156	
Connection pipe	Liquid pipe	mm	Φ9.52	
	Gas pipe	mm	Φ22.2	
	Max. height fall	m	30	
The longest connection pipe		m	70	
		m	70	
Operating range (temperature)	Outdoor condition	Cooling	DB(°C)	
		Heating	DB(°C)	
			-7~-48	
			-	

## Middle East

Model			RF28WPD/Na-M		
Nominal Capacity	Cooling	Btu/h	96000		
		kW	28.1		
	Heating	Btu/h	102000		
		kW	30.0		
EER/COP	W/W	2.44/3.00			
	Btu/h-W	8.34/10.20			
Electrical Data	Power supply		V/Ph/Hz	380-415V 3N-50Hz	
	Power input	Cooling	kW	11.5	
	Rated power input		kW	15.4	
	Input current	Cooling	A	19.3	
	Rated current		A	24.6	
	Max. overcurrent protection		A	25	
	Min/Max voltage	Min/Max voltage(V)	V	342/456	
	Power cord spec	Electrical conduit size(Inch)	mm <sup>2</sup> xpcs	ODU: 2.5 IDU:1.5 x ODU:5 IDU:3	
Refrigerant	Type		R410A		
	Charge		8.00		
Airflow volume		CFM	2354.00		
		m <sup>3</sup> /h	4000		
Outdoor quantity		unit	1		
Indoor unit	Sound pressure level		dB (A)	63/60/57	
	Sound power level		dB (A)	73/70/67	
	System operation control			Display panel	
	Dimension(W × D × H)	outline	mm	1200 × 400 × 1850	
		Package	mm	1363 × 513 × 2013	
	Net Weight/Gross weight		kg	129/141	
Outdoor unit	Sound pressure level		dB (A)	63	
	Sound power level		dB (A)	73	
	Dimension(W × D × H)	outline	mm	940 × 460 × 1615	
		Package	mm	1038 × 578 × 1765	
Net Weight/Gross weight		kg	160/174		
Loading quantity	20'GP		set	22	
	40'GP/40'HQ		set	46/46	
Connction pipe	Length		m	7.50	
	Gas additional charge		g/m	54.00	
	Outer diameter		mm	Φ9.52	
			mm	Φ22.2	
	Max. distance		m	30.00	
		m	50.00		

## Taiwan

Model			RF28WPd/Na-H(T)	
Nominal Capacity	Cooling	Btu/h	96000	
		kW	28	
	Heating	Btu/h	102000	
		kW	30	
EER/COP	W/W	2.27/2.76		
		Btu/h-W	7.77/9.40	
Electrical Data	Power supply		V/Ph/Hz	380V 3N-60Hz
	Power input	Cooling	kW	12.35
	Rated power input		kW	17.09
	Input current	Cooling	A	24.5
	Rated current		A	24.6
	Max .overcurrent protection		A	/
	Min/Max voltage	Min/Max voltage(V)	V	342/420
Power cord spec	Electrical conduit size(Inch)	mm <sup>2</sup>	ODU:4.0x5 IDO:1.5x3	
Refrigerant	Type	-	R410A	
	Charge	kg	9.5	
Airflow volume			CFM	2354
			m <sup>3</sup> /h	4000
Outdoor quantity			unit	1
Indoor unit	Sound pressure level		dB(A)	63/60/57
	Sound power level		dB(A)	73/70/67
	Dimension(W × D × H)	Outline	mm	1200 × 400 × 1850
		Package	mm	1363 × 513 × 2013
Net Weight/Gross weight		kg	133/145	
Outdoor unit	Sound pressure level		dB(A)	65
	Sound power level		dB(A)	75
	Dimension(W × D × H)	Outline	mm	940 × 460 × 1615
		Package	mm	1038 × 578 × 1765
Net Weight/Gross weight		kg	188/203	
Loading quantity	20' GP		set	9
	40' GP/40' HQ		set	19/19
Connexion pipe	Length		m	7.5
	Outer diameter	Inch(mm)		Φ3/8(9.52)
		Inch(mm)		Φ7/8(22.2)
	Max. distance	m		30
m		70		

## Philippines

Model			LF28WPd/Na-F		LF28WPd/Na-H	
Nominal Capacity	Cooling	Btu/h	95500		95500	
		kW	28.00		28.00	
	EER/COP	W/W	2.43		2.43	
		Btu/(h · w)	8.29		8.29	
Electrical Data	Power supply		V/Ph/Hz	220V 3N-60Hz	380-415V 3N-60Hz	
	Power input	Cooling	kW	11.50	11.50	
	Rated power input		kW	15.40	15.40	
	Input current	Cooling	A	35.5	19.7	
	Rated current		A	44.6	24.6	
	Max .overcurrent protection		A	50.0	25.0	
	Min/Max voltage	Min/Max voltage(V)	V	198/242	342/456	
Power cord spec	Electrical conduit size(Inch)	mm <sup>2</sup>	6.0 × 4	2.5 × 5		
Refrigerant	Charge	kg	8.00	8.00		
Airflow volume			CFM	2354	2354	
			m <sup>3</sup> /h	4000	4000	
Outdoor quantity			unit	1	1	
Indoor unit	Sound pressure level		dB(A)	63/60/57	63/60/57	
	Sound power level		dB(A)	73/70/67	73/70/67	
	Dimension(W × D × H)	Outline	mm	1200 × 400 × 1850	1200 × 400 × 1850	
		Package	mm	1363 × 513 × 2013	1363 × 513 × 2013	
Net Weight/Gross weight		kg	133/145	133/145		
Outdoor unit	Sound pressure level		dB(A)	63	63	
	Sound power level		dB(A)	73	73	
	Dimension(W × D × H)	Outline	mm	940 × 460 × 1615	940 × 460 × 1615	
		Package	mm	1033 × 573 × 1765	1033 × 573 × 1765	
Net Weight/Gross weight		kg	152/166	156/170		
Loading quantity	20' GP		set	7	7	
	40' GP/40' HQ		set	18/18	18/18	
Connexion pipe	Length		m	7.5	7.5	
	Outer diameter	Inch(mm)		3/8" (9.52)	3/8" (9.52)	
		Inch(mm)		7/8" (22.2)	7/8" (22.2)	
	Max. distance	m		30	30	
m		70	70			

## Control System Lineup

Control system		Product series	Duct split unit
Wireless remote controller	YAP1F		○
MODBUS gateway	ME30-24/E7(M)		○
Centralized controller (up to 36 indoor units)	CE52-24/F(C)		○

Note:  
● means standard, ○ means optional.

# Rooftop Packaged Unit

It adopts DC inverter design with capacity ranging from 5.5 tons to 30 tons. Side supply and side return air discharge way are applied. It can be installed in rooftop and outdoor flat floor, which is applicable for shopping malls, hotels, halls, apartments, villas and other buildings.



## 1 High Energy Efficiency and Performance

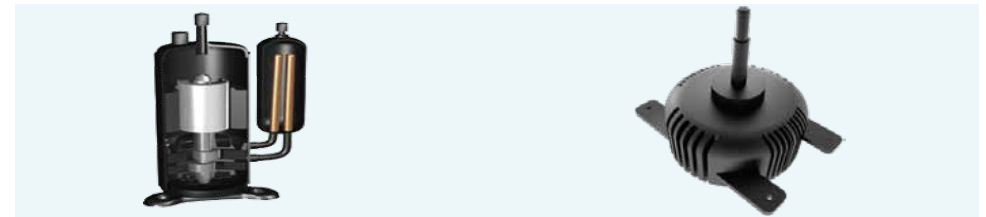
The compressor and outdoor fan can adjust the operating frequency according to different room loads, and automatically adjust the capacity output to ensure the comfort of the room environment. At the same time, the power consumption of the unit changes along with the capacity output and the power consumption of unit is low in low-load operation. Compared with the fixed-speed unit, its annual power consumption is lower, which is high-efficiency and power-saving.

### Energy-efficient compressor

» The whole series adopt DC inverter compressor, and the compressor will adjust the frequency intelligently. Temperature control is accurate; energy efficiency and reliability are high.

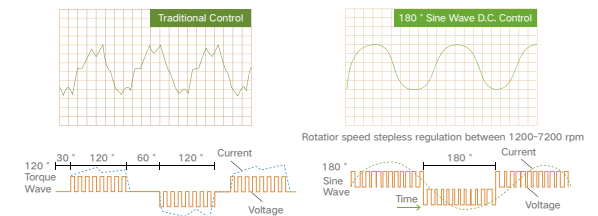
### DC inverter motor

» The outdoor side applies DC inverter motor with high back electromotive force. The efficiency is greatly improved compared with the AC motor.



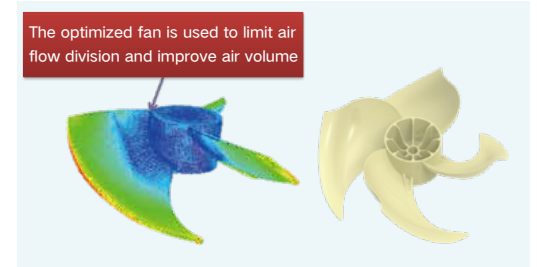
### 180 ° sine wave DC speed change technology

» The output wave of 180 ° current is the smooth sine wave. It contains little harmonic wave, and has small torque fluctuation and large adjustment range. The motor can operate stably that can meet the requirements of different occasions, saving the electricity power and ensuring the utmost comfort of users.



### High-efficient fan blade

» New high-efficiency fan blade design adopts CFD simulation technology to optimize the matching of blade type and blade angle. In addition to the special trail edge design, the working area of blade is effectively increased and the air volume is greatly increased.



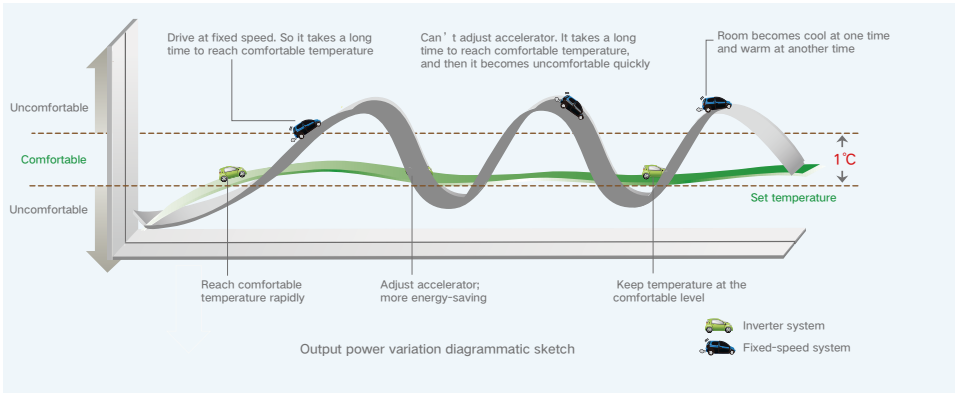
## High-efficiency heat exchanger

» The heat exchanger adopts window opening and inner groove copper pipe structure, which is of high heat exchange efficiency.



## Precise temperature control technology

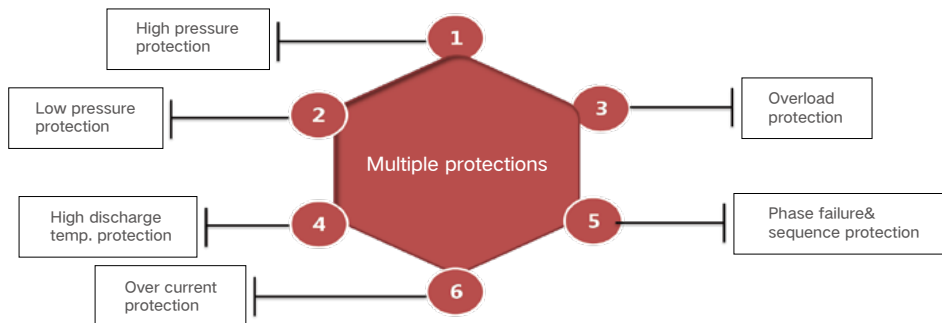
» GREE intelligent inverter control delivers the required capacity according to the load variation from 10% to 120% and maintains the room temperature fluctuation 1°C of set temperature.



## High Reliability

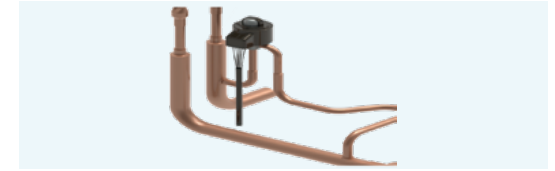
### High-efficiency heat exchanger

» Gree Rooftop units are designed with high voltage protection, low voltage protection, overcurrent protection, discharge protection, phase sequence protection and other protections. It can effectively protect key components such as compressors and motors.



## Automatic adjustment of throttling

» Electronic expansion valve adjusts the opening degree automatically. It makes sure that the system parameters are within a reasonable range when the unit operates under all working conditions, to improve the operation reliability and service life of the unit.



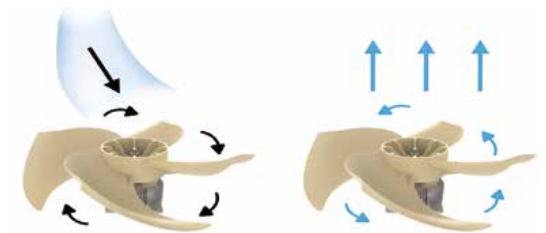
## Excellent grid adaptability

» Gree Rooftop units adopt strong anti-grid fluctuations design, with stable performance in ultra wide voltage range from 342V to 456V, which is perfectly adapted to the power grid fluctuation during peak hours or other conditions.



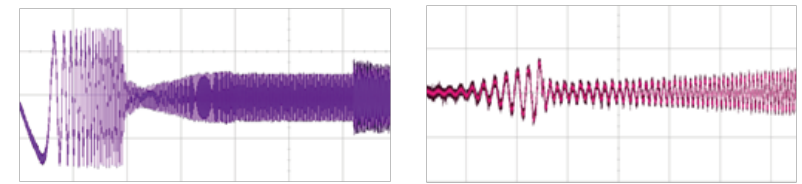
## Anti-wind design of outdoor fan

» Anti-wind startup design is used to solve the problem that the unit cannot start smoothly in the reverse operation under the high wind environment. The anti-wind startup design allows the unit to adapt to the harsh windy environment and start reliably. The outdoor fan runs smoothly, which is safer and more reliable.



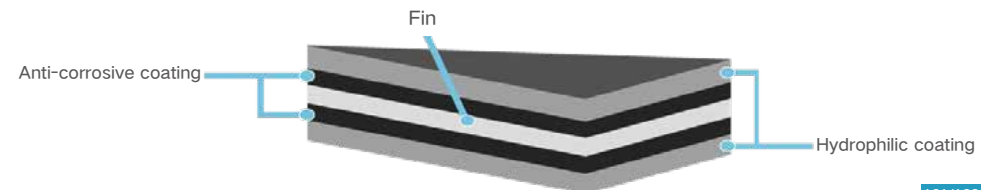
## Compressor closed loop startup technology

» Adopts the self-innovated closed loop startup control mode to make the output torque rapidly follow the load torque, which needs small startup electricity current, more reliable for startup.



## Anti-corrosive heat exchanger

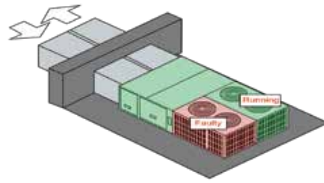
» The outdoor heat exchanger fins are treated with anti-corrosive golden coating to pass the 1000h neutral spray test, which has good corrosion resistance.



## 3 More Convenient & Comfortable

### Emergency operation design

» The 30-ton unit is designed with two systems, whose operation control is flexible and convenient. When one system is faulty, it can enter the emergency operation control, while the other system will start up to operate. The operation time of emergency operation mode should be controlled within 48h, and you should contact the after-sale service as soon as possible.



### Control of dual wired controllers

» In order to provide convenient operation to users, we develop the dual wired controllers control function. In this case, the user can install the wired controller in different places for convenient operation.



### Cold air prevention function

» When the unit just starts heating or the outdoor unit just finishes defrosting, the temperature of indoor evaporator is quite low. If the indoor fan operates in this case, cold air will blow out. Our products are optimized in design to prevent cold air so as to improve users' comfort.

### Power-off memory function

» The user can set power-off memory function. If this function is activated, the unit will automatically operate in previous setting mode when power recovers after power failure.

## DC Inverter Rooftop Packaged Unit(Heat Pump)

It adopts DC inverter design with capacity range from 5.5 tons to 30 tons. Side supply and side return air discharge way is applied. It can be installed in rooftop and outdoor flat floor, which is applicable for shopping malls, hotels, halls, apartments, villas and other buildings.



Quality motor



Washable filter



Intelligent defrosting



Compact design



Comprehensive protection



Wide voltage range



High efficiency



Memory function



Easier maintainability



Energy saving function



Golden fin condenser

» The whole series adopt DC inverter compressor, and the compressor will adjust the frequency intelligently. Temperature control is accurate; energy efficiency and reliability are high.

» The outdoor side applies DC inverter motor with high back electromotive force. The efficiency is greatly improved compared with the AC motor.

» Adopts the self-innovated closed loop startup control mode to make the output torque rapidly follow the load torque, which needs small startup electricity current, more reliable for startup.

» New high-efficiency fan blade design adopts CFD simulation technology to optimize the matching of blade type and blade angle. In addition to the special trail edge design, the working area of blade is effectively increased and the air volume is greatly increased.

» The working area of blade is effectively increased and the air volume is greatly increased.

» Gree Rooftop units are designed with high voltage protection, low voltage protection, overcurrent protection, discharge protection, phase sequence protection and other protections.

» Gree Rooftop units adopt strong anti-grid fluctuations design, with stable performance in ultra wide voltage range from 342V to 456V.

» Anti-wind startup design is used to solve the problem that the unit cannot start smoothly in the reverse operation under the high wind environment.

» The outdoor heat exchanger fins are treated with anti-corrosive golden coating to pass the 1000h neutral spray test, which has good corrosion resistance.

» The sheet metal of base is made of thick galvanized steel sheet. It is designed with forklift holes and hanging holes, so that you can choose forklifting or hanging during installation, which is flexible and convenient.

» Centralized control is available without connecting the wired controller, and 36 sets of unit can be controlled at the same time at most.

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

Model			GK-H15TH/NaA-M(L)	GK-H20TH/NaA-M(L)	GK-H25TH/NaA-M(L)
Capacity	Cooling/Heating	kW	50.1/56.0	63.5/75.0	89/101
	Cooling/Heating	RT	14.5/16.0	18.0/21.0	24.0/26.0
Power supply		V/Ph/Hz	380-415V 3N-50Hz		
Power input	Cooling	kW	23.0	28.5	38.0
	Heating	kW	16.5	25.0	30.5
Current input	Cooling	A	38.8	48.1	64.2
	Heating	A	28.0	42.2	51.5
Refrigerant charge volume		kg	12	16	25
Air flow volume		CFM	5592	8829	9712
		m <sup>3</sup> /h	9500	15000	16500
Sound pressure level		dB(A)	74	75	76
ESP	Rated	Pa	130	150	200
	Range	Pa	50-200	75-200	100-250
Drainage connection size (Outer diameter × wall thickness)		inch	3/4"(NPT)	3/4"(NPT)	3/4"(NPT)
Dimension (W × D × H)	Outline	mm	2260 × 1140 × 1245	2240 × 1880 × 1250	2880 × 2240 × 1270
	Package	mm	2283 × 1163 × 1290	2258 × 1898 × 1300	2893 × 2253 × 1290
Net weight/Gross weight		kg	590/618	820/870	1157/1201
Loading quantity		40'GP	unit	10	6
		40'HQ	unit	20	12

Model			GK-H5.5TH/NaA-X(L)	GK-H6.2TH/NaA-X(L)	GK-H7.5TH/NaA-X(L)	GK-H10TH/NaA-X(L)
Capacity	Cooling/Heating	kW	22/26	23/28	29/32	35/39
	Cooling/Heating	RT	5.5/7.5	6.2/8	7.5/9.0	10.0/12.0
Power supply		V/Ph/Hz	380-415V 3N-50/60Hz			
Power input	Cooling	kW	8.5	8.5	9.0	13.5
	Heating	kW	7.5	7.5	8.0	11.5
Current input	Cooling	A	14.3	14.3	15.2	22.8
	Heating	A	12.7	12.7	15.5	19.4
Refrigerant charge volume		kg	5	5	8	10
Air flow volume		CFM	1766	1766	2589	3413
		m <sup>3</sup> /h	3000	3000	4400	5800
Sound pressure level		dB(A)	66	66	68	72
ESP	Rated	Pa	60	60	80	90
	Range	Pa	0-185	0-185	0-185	0-210
Drainage connection size (Outer diameter × wall thickness)		inch	3/4"(NPT)	3/4"(NPT)	3/4"(NPT)	3/4"(NPT)
Dimension (W × D × H)	Outline	mm	1450 × 1120 × 815	1450 × 1120 × 815	1450 × 1120 × 1215	1450 × 1120 × 1215
	Package	mm	1463 × 1133 × 860	1463 × 1133 × 860	1463 × 1133 × 1260	1463 × 1133 × 1260
Net weight/Gross weight		kg	268/289	268/289	348/368	350/370
Loading quantity		40'GP	unit	32	32	16
		40'HQ	unit	48	48	32







Model			GK-H30TC/NaA-M(L)	GK-H30TC/NaA1-M(L)
Capacity	Cooling/Heating	kW	108/128	108/128
	Cooling/Heating	RT	30/36	30/36
Power supply		V/Ph/Hz	380-415V 3N-50Hz	380-415V 3N-50Hz
Power input	Cooling	kW	43.0	43.0
	Heating	kW	38.0	41.5
Current input	Cooling	A	72.6	73.00
	Heating	A	64	64.00
Refrigerant charge volume		kg	14+14	14+14
Airflow volume		CFM	9712	9712
		m³/h	16500	16500
Sound pressure level		dB(A)	77	77
ESP	Rated	Pa	125	275
	Range	Pa	125/310	200-350
Drainage connection size(Outer diameter x wall thickness)		Inch	3/4"(NPT)	3/4"(NPT)
Dimension (W x D x H)		Outline	2850 x 2240 x 1240	2850 x 2240 x 1240
		Package	2863 x 2253 x 1285	2863 x 2253 x 1285
Net Weight/Gross weight		kg	1009/1070	1009/1070
Loading quantity	40'GP	unit	4	4
	40'HQ	unit	8	8

# Award and Certification



## Control System Lineup

Control System		Product Series	Rooftop Packaged Unit
Wired remote controller	XK117		●
Centralized controller (up to 36 indoor units)	CE52-24/F(C)		○
Dry contact gateway*1 (extended function board)	ME30-42/E1		○
MODBUS gateway	ME50-00/EG(M)		○

Note:  
● means standard, ○ means optional.

\*1: Function: ON/OFF input control, emergency stop input, error output, cold plasma control, fresh air control.

