



PIONEERING RUUD® INVERTER SERIES



INVERTER
COMPRESSOR



HIGH EFFICIENCY
AIR CONDITIONERS

PRODUCTS FOR A **GREENER PLANET**



EFFICIENT & EARTH FRIENDLY PRODUCTS

We understand that with increased environmental concerns, R22 is becoming less popular. The production of R22 refrigerant contributes to the depletion of the ozone layer and adds to global warming. Ruud always focuses on environmentally friendly, energy saving and high performance air conditioners and hence today most of Ruud's products are developed with R410A refrigerant. R410A refrigerant is highly efficient and has an Ozone Depletion Potential (ODP) of 0.

ENVIRONMENT FRIENDLY

R410A

Environment friendly refrigerant





Shower-style Air Flow
In Cooling Mode

Blanket-Style Air Flow
In Heating Mode

SMART AIR FLOW

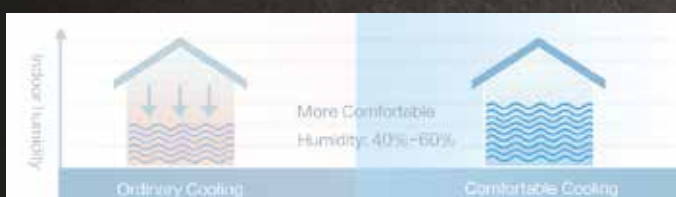
In cooling mode, the cool air blows towards the ceiling to provide a shower - style cooling experience.

In heating mode, the warm air blows towards the floor to provide a blanket - style heating experience.



COMFORTABLE COOLING

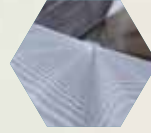
Avoiding too much dehumidification.
Maintaining comfortable humidity.



55°C HIGH TEMPERATURE SELF-CLEANING

Evaporator is frosted to freeze the dirt on the fin. Then it starts defrosting to generate a large amount of water to brush away the dirt. After 55°C quick-drying, the evaporator becomes cleaner & more sterile.

* Heat Pump Only



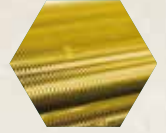
Frosting



Defrosting



55°C High Temperature Drying



Cleaner & More Sterilized

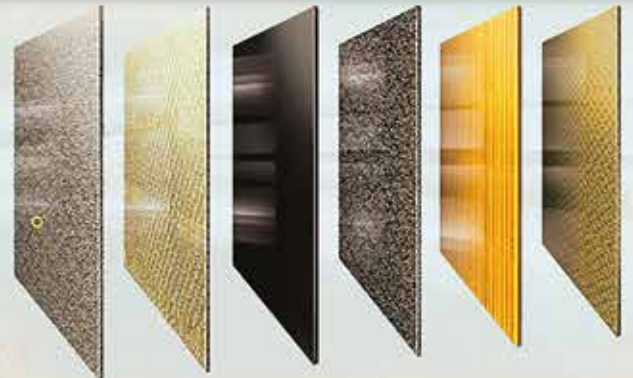
FILTER-CLEANING REMINDER

After running for a particular period, the air-conditioner will automatically detect the cleanliness of the filter and remind users to clean the filter to avoid any bacteria formation.



HEALTHY FILTER (optional)

-  Photocatalyst Filter
-  Silver ion Filter
-  Active Carbon Filter
-  Catechin Filter
-  Vitamin C Filter
-  Catalyst Filter



RAPID COOLING



****RAPID COOLING TO 18°C IN 30''**
RAPID HEATING TO 40°C IN 60''

18°C

Cool wind blows out



In Cooling Mode

Outlet Temperature Decreased
from 27°C to 18°C in 30''



40°C*

Heat wind blows out



In Heating Mode

Outlet Temperature Increased
from 20°C to 40°C in 60''

Operation Status Comparison

Ruud Super Turbo Start



Normal Starting

Time

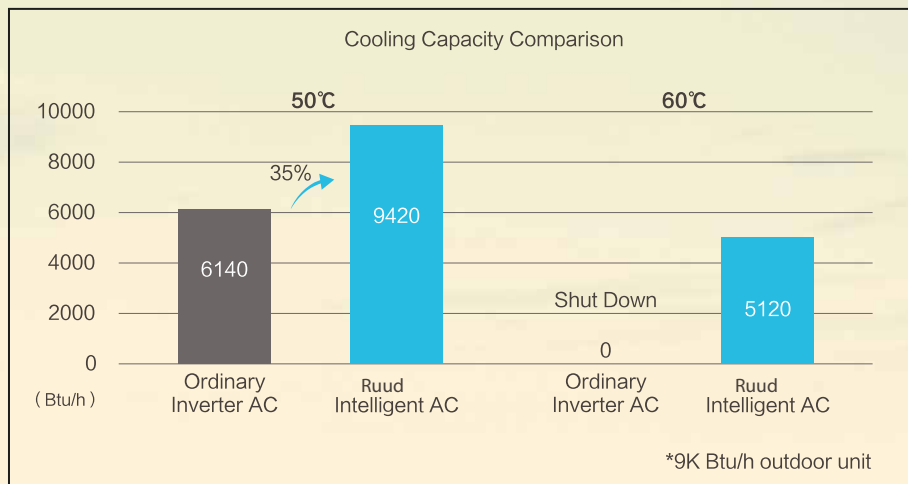
* Electric auxiliary heat only

**Limitation on return air temperature

STRONG COOLING IN HIGH AMBIENT TEMPERATURE

No cooling capacity decline in 50°C ambient.
Nonstop cooling in 60°C ambient temperature.

Air-cooled electric control box technology is applied to effectively cool down temperature of electric parts in outdoor unit.



◀ 60°C



SPLIT AIR-CONDITIONER

dcDC INVERTER

Standard



Emergency Button



Independent Dehumidify



Low Noise



Anti-cold



Sleep Mode



24H Timer



Auto Restart



Rust Proof



Dual Drainage



MODELS

UW18AIHT00

UW24AIHT00

FULL DC INVERTER AIR CONDITIONER



DC Inverter Compressor



Outdoor DC motor



Indoor vane DC motor

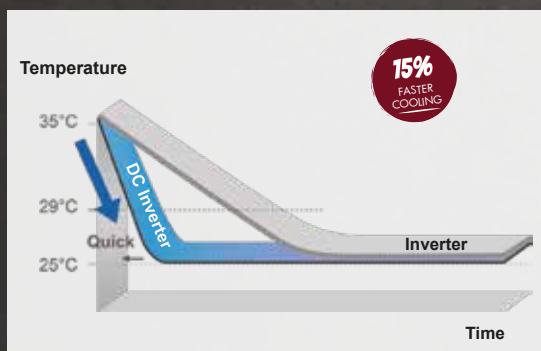


Indoor DC motor

DC INVERTER

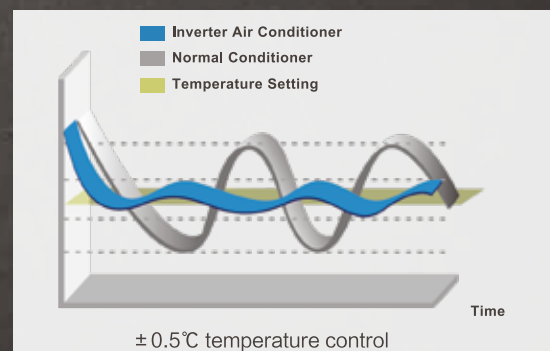
Fast Cooling

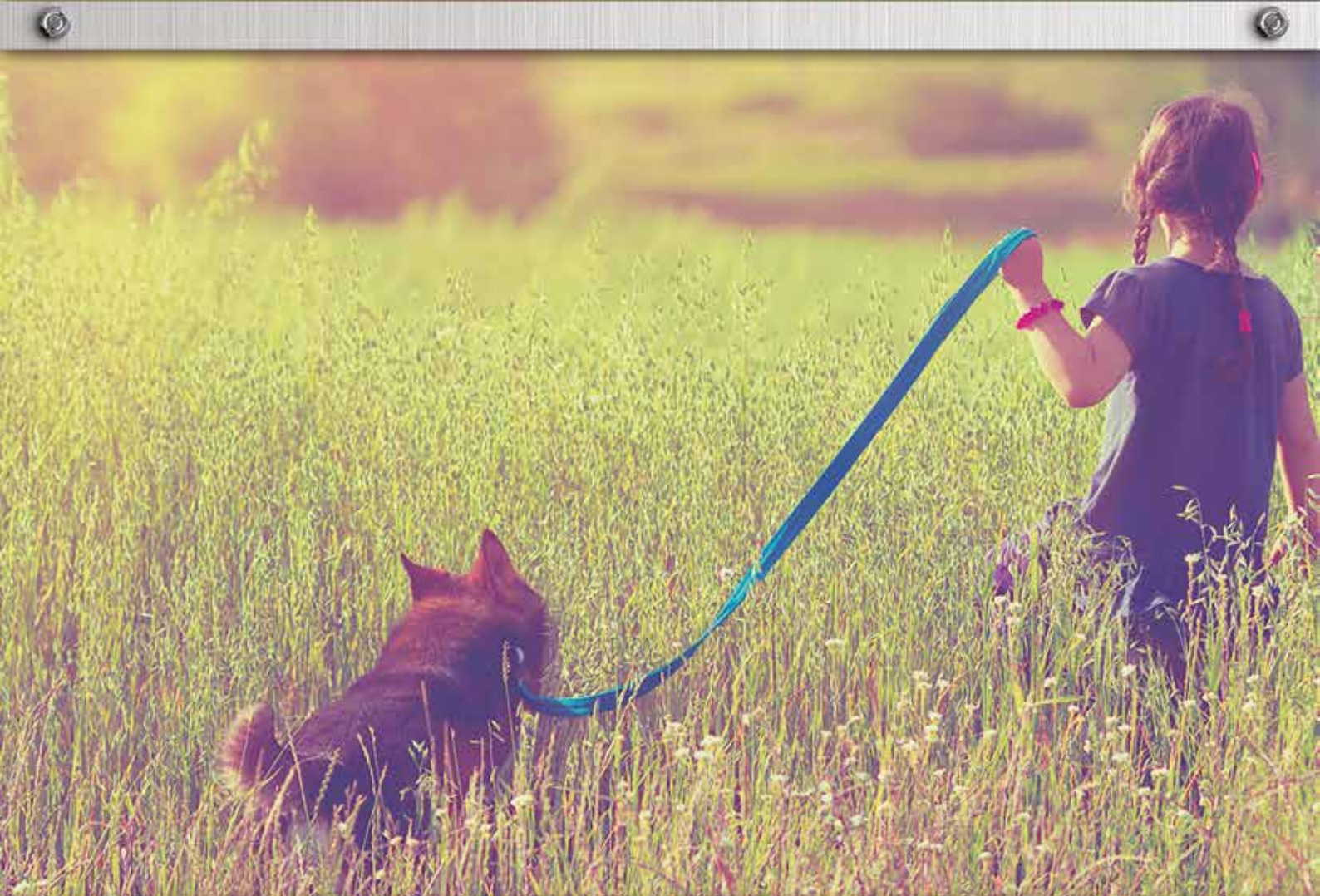
DC inverter air-conditioner enables the compressor to achieve maximum frequency in the shortest time from start up. It cools down 15% faster than conventional non-inverter air-conditioner.



Precise Cooling

A DC inverter air-conditioner varies the compressor rotation speed to provide a precise method of maintaining the set temperature.





FAST COOLING

No more annoying sound from sudden speed change. A DC inverter air-conditioner works at an extra-quiet mode to ensure you a good sleep.



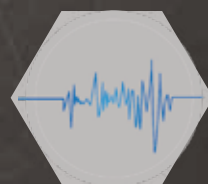
LOW TEMPERATURE HEATING

Keep you warm even when the outdoor temperature is as low as -15°C . The high frequency of the DC inverter air-conditioner enables the compressor to operate at various speed, which can be applied to different environments and ambient temperatures.

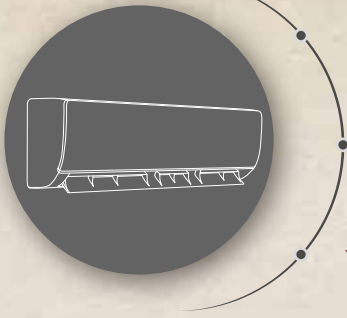


WIDE VOLTAGE RANGE START-UP

Available in most areas in the world. In a DC Inverter air-con, voltage and current of the motor are controlled to ensure high efficient operation and reduce vibration. The air-con can operate within the voltage range of 165-265V, even in the place where the voltage is not stable or too low.



3E SOLUTION



- Easy Assembly save upto 20%

- Easy Assembly save upto 20%

- Easy Assembly save upto 30%

SUPER QUIET

The air conditioner can be very quiet.



HIGH EFFICIENCY

Larger air inlet and outlet and optimized duct system largely increases its efficiency and saves energy consumption.



I FEEL

The in-built additional temperature sensor in the remote controller monitors the surrounding temperature. Therefore, the air-conditioner can adjust the room temperature more accurately and provide extra comfort to users.

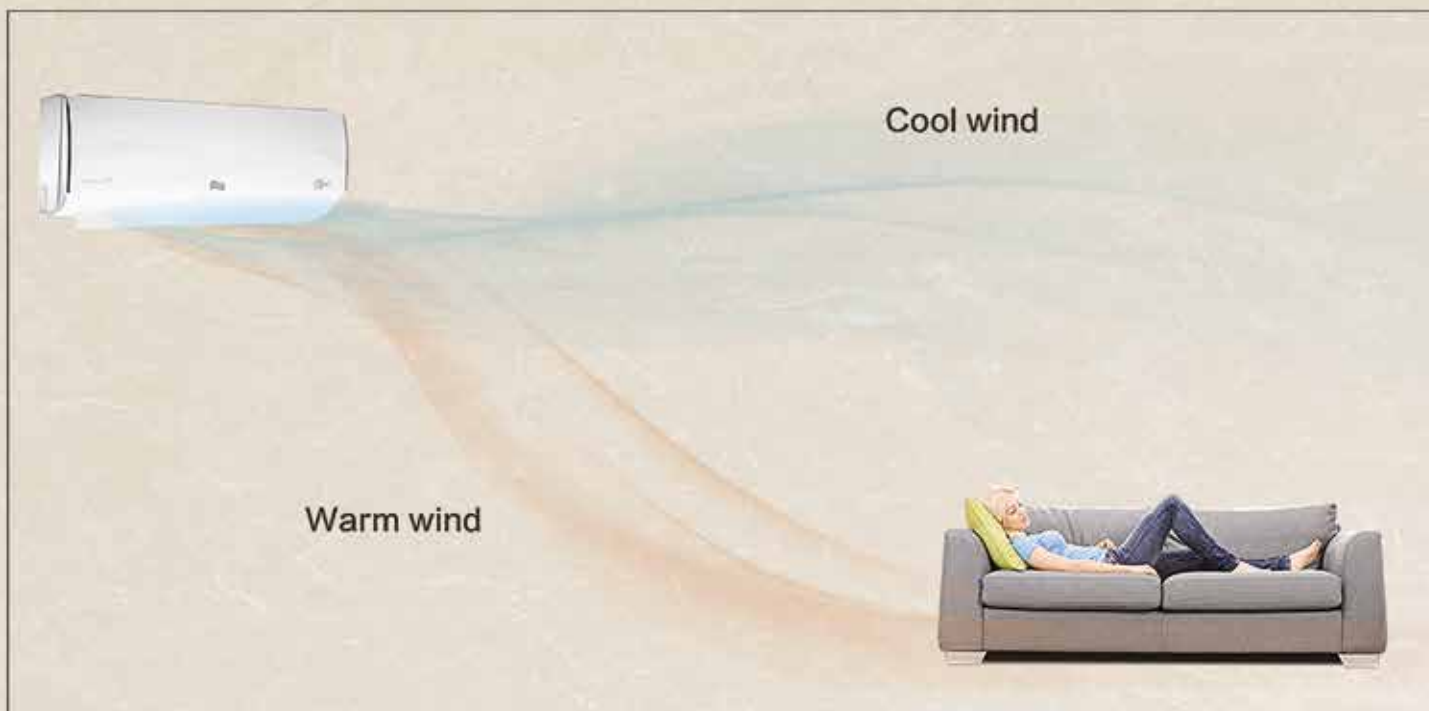
ECO

By activating the ECO mode, the air conditioner will automatically work in the most efficient and energy - saving way, while maintaining the most comfortable experience in the living room.



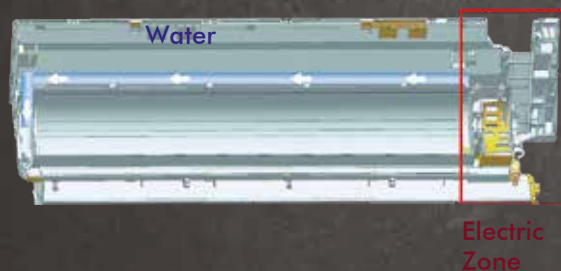
SMART AIR FLOW

In cooling mode, the cool air blows towards the ceiling to provide shower style cooling experience.
In heating mode, the warm air blows towards the floor to provide blanket-style heating experience.



SAFETY DESIGN

- No Connection Between Condensate Water & Electricity.

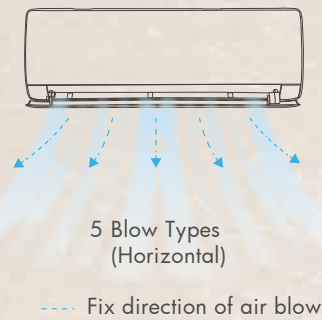
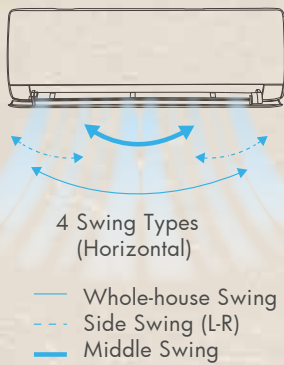
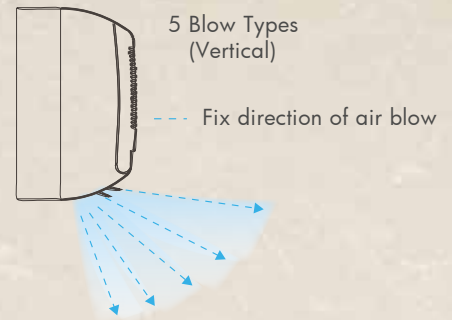
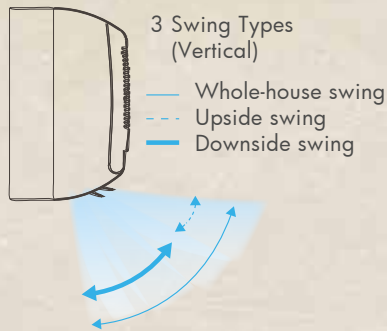


- Fireproof Electric Control Box
BMC material is applied which creates high



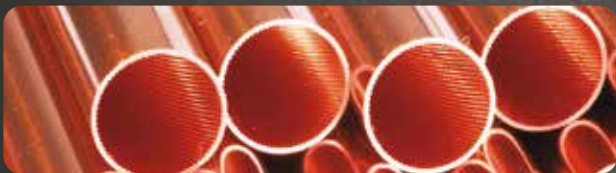
VECTOR PRECISION AIR SUPPLY

Various Precise fixed angle of air supply can provide more comfortable choices for users.



INNER-GROOVED COPPER TUBES

With the high quality inner-grooved copper, the thermal conductivity is significantly improved by 20-30% more than that of smooth tubes, because of the increased surface area of the inner copper wall.



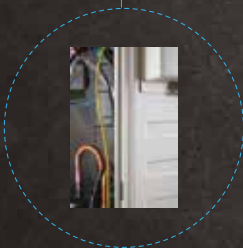
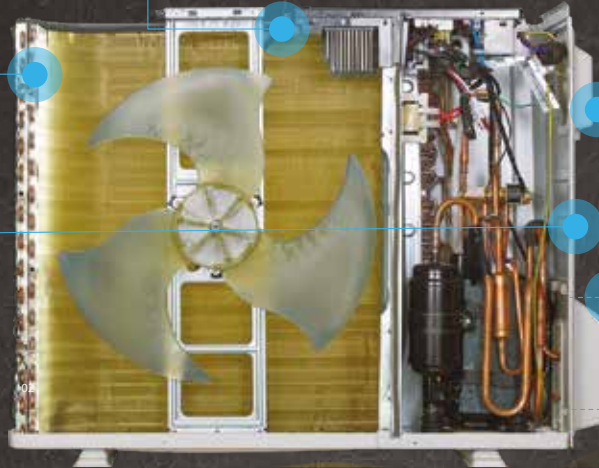
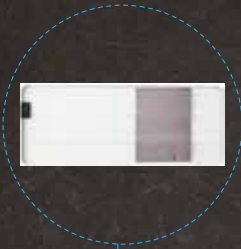
CONDENSING UNIT

Rust-proof technology protects the outdoor unit from corrosion and extends the system life. Prevention of water, insect and dust, with reliable electric control.

Easy to carry the unit.

Rust-proof, strong corrosion resistance and excellent insulation

Convenient Handle



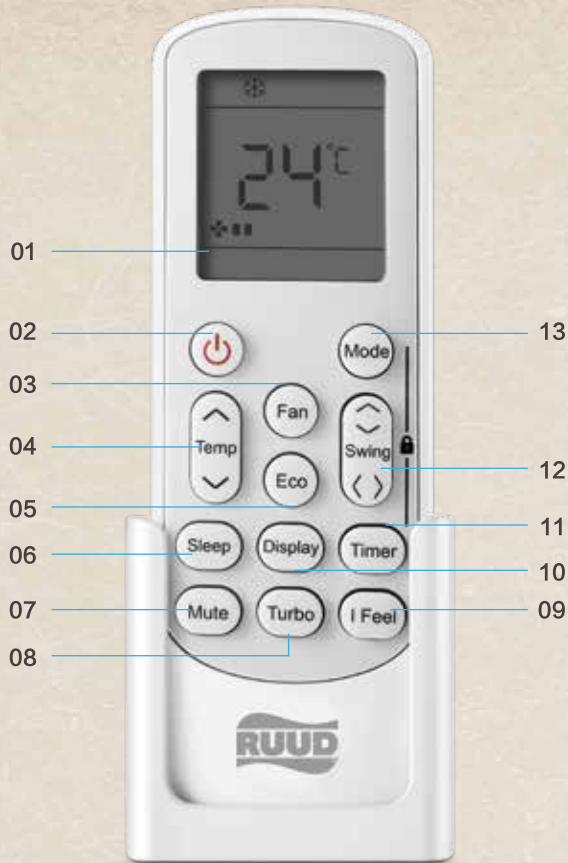
Flanging Processed Plate Metal

The edge of metal plate is flanging processed, and the standardized wiring protect the wires from the sharp edge that might result in cutting.

Valve Protection Cover

The Valve cover is tougher to protect the stop valve from collision and can serve as a handle as well.

REMOTE CONTROLLER



01	LED Display Screen
02	ON/OFF
03	Fan Speed Setting
04	Temperature Setting
05	Eco Mode
06	Sleep Mode
07	Mute Mode
08	Turbo
09	I Feel
10	LED Display (ON/OFF)
11	Timer Setting
12	Swing (Horizontal/Vertical)
13	Mode Setting (AUTO/COOL/DRY/FAN/HEAT)

FEATURES SUMMARY

60 Hz Inverter		
Range	18K	24K
Sleep	●	●
Clock (Real Time)	–	–
Time ON/OFF	●	●
Vertical Swing (Motorized or Manual)	●	●
Horizontal Swing (Motorized or Manual)	●	●
Energy Saving	●	●
Air Flow Direction Control	●	●
Memory	●	●
Autorestart	●	●
IFeel	●	●
Turbo Cooling	●	●
Self Clean / Blow	●	●
Self Diagnosis (Error Code)	●	●
Remote LCD	●	●
Filter Configuration	●	●
Intelligent Defrost	–	–
Filter Dirty Alarm	●	●
Cold Plasma or Ioniser	○	○
Children Lock	●	●
Evaporator Fins	Golden	Golden
Condenser Fins	Golden	Golden

● Standard ○ Optional – N/A

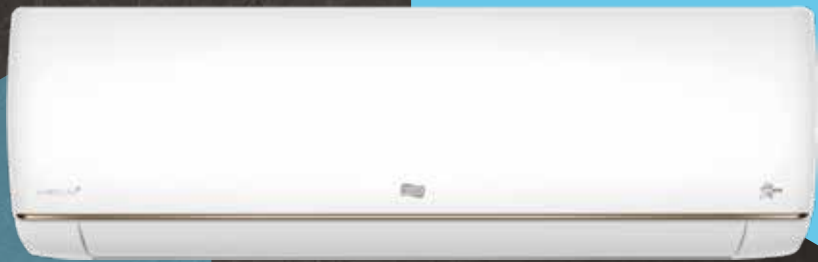
TECHNICAL SPECIFICATIONS

Models No			UW18CIHT00	UW24CIHT00
			Heating pump	Heating pump
			Z2U20101003781	Z2U20101003733
Type			1080YA(cp7x2)+845C(cp7x2)	1250YA(cp7x3)+ ;k 900B(cp7x2)
Control Type			Remote Controller	Remote Controller
Rated Cooling Capacity (T1)		Btu/h	18000(4090~21150)	24000(4770~26270)
Rated Cooling Capacity (T1)		kW	5.25(1.2~6.2)	7.05(1.4~7.7)
Rated Cooling Capacity (T3)		Btu/h	17000(3410~18080)	23000(4430~24900)
Rated Cooling Capacity (T3)		kW	4.98(1.0~5.3)	6.72(1.3~7.3)
Rated heating capacity		W	5250(1200~6600)	7050(1500~8000)
EER for cooling (T1)		Btu/h-W;	13.10	13.10
EER for cooling (T1)		W/W	3.85	3.85
EER for cooling (T3)		Btu/h-W;	8.35	8.35
EER for cooling (T3)		W/W	2.45	2.45
COP for heating		W/W	3.20	3.20
Moisture removal		Liters/h	1.8	2.4
Pressure	High(DP)	MPa	4.5	4.5
	Low(SP)	MPa	1.9	1.9
Indoor noise level at cooling		dB(A)	49	54
	High	dB(A)	45	52
	Med.	dB(A)	41	47
	Low	dB(A)	37	42
Outdoor noise level	Quite	dB(A)	35	39
		dB(A)	56	58
Climate type			T3	T3
Power Supply			230V~1 Phase/ 60Hz	230V~1 Phase/ 60Hz
Voltage Range		V	198~264	198~264
Current	Cooling (T1)	A	8.9 (1.2~12)	11.5 (1.4~14)
	Cooling (T3)	A	9.2 (1.2~12)	12.0 (1.5~15)
	Heating	A	8.0 (1.6~11.5)	8.5 (1.8~13.5)
Power input	Cooling (T1)	W	1374 (280~2600)	1832 (330~3220)
	Cooling (T3)	W	2036 (280~2750)	2754 (350~3450)
	Heating	W	1640 (370~2500)	2203 (420~3110)
MAX Current	Cooling (T1)	A	12.0	14.0
	Cooling (T3)	A	12.0	15.0
MAX Power input	Heating	A	11.5	13.5
	Cooling (T1)	W	2600	3220
Annual energy consumption	Cooling (T3)	W	2750	3450
	Heating	W	2500	3110
Refrigerant		kW/YEAR	3710	4946
			R410A	R410A

* (I) Entering Air D.B.T / Air W.B.T: 80°F / 67°F, (O) Entering Air D.B.T: 95°F

** (I) Entering Air D.B.T / Air W.B.T: 84°F / 67°F, (O) Entering Air D.B.T: 115°F

*** (I) Entering Air D.B.T / Air W.B.T: 80°F / 67°F, (O) Entering Air D.B.T: 118.4°F



For continuous product improvement, Ruud reserves the right to change the product specifications without prior notice.



More than 100 years ago, Edwin Ruud, a Norwegian mechanical engineer, came to America and developed the first successful automatic water heater. That early success marked the beginning of a tradition of innovation and value that led to the introduction of RUUD® air conditioning and water heating equipment in the 1950s. Since then, the RUUD® has grown into one of North America's largest manufacturers of quality air conditioning and water heating products for residential and light commercial use. Today, RUUD® operates manufacturing facilities employing highly trained workers and state-of-the-art equipment. Over the years, the product lines have expanded, changed, and improved significantly as new design techniques and better manufacturing technologies have become available. What remains unchanged throughout our history, however, is our commitment to producing the most reliable, long-lasting, efficient equipment you can buy.

Learn more at: www.ruud-mea.com

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