Rheem

The new degree of comfort.®

AMERICAN BRAND TRUSTED QUALITY

A WINNING PERF°RMANCE

WITH THE RHEEM® INVERTER SERIES

HIGH EFFICIENCY AIR CONDITIONERS

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R410A REFRIGERANT

WE DON'T MAKE PRODUCTS, WE PROVIDE

SOLUTIONS

SOLUTIONS FOR A GREENER PLANET

At Rheem®, providing The New Degree of Comfort® is about more than just product performance—it's about taking a higher degree of responsibility for future generations. That's why, from air to water and residential to commercial, our focus is on creating solutions that leave you feeling comfortable—and leave the planet a little better than we found it.

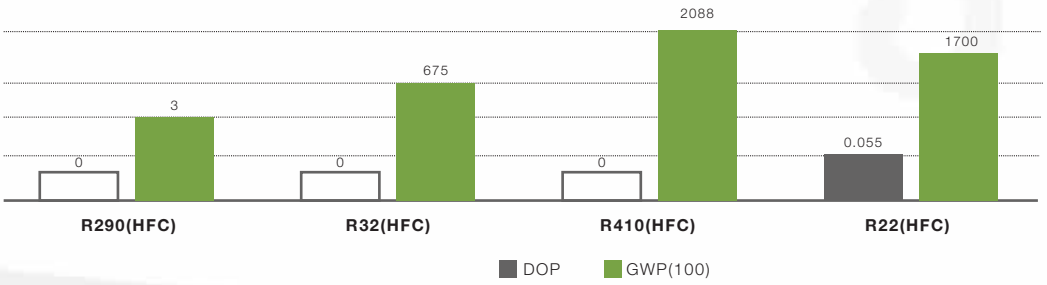
SOLUTIONS FOR EFFICIENT & EARTH FRIENDLY PRODUCTS

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. Rheem® always focuses on environmentally friendly, energy saving and high performance air conditioners and hence today most of Rheem®'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

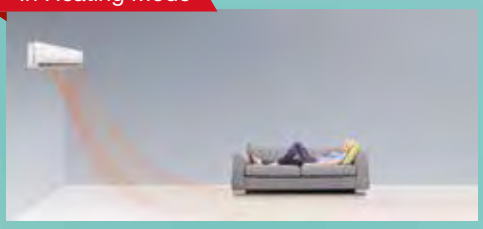
SMART AIR FLOW

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

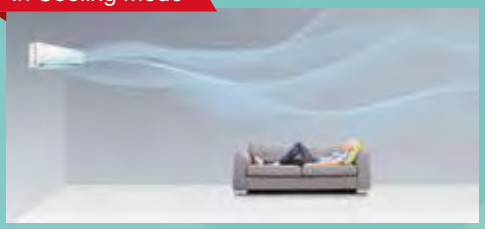
In heating mode, the warm air blows towards the floor to provide a blanket - style heating experience.

R410A REFRIGERANT

In Heating Mode

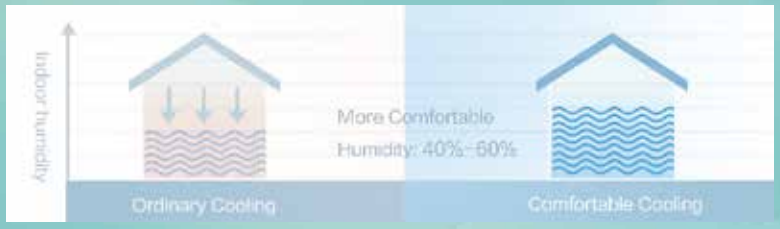


In Cooling Mode



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

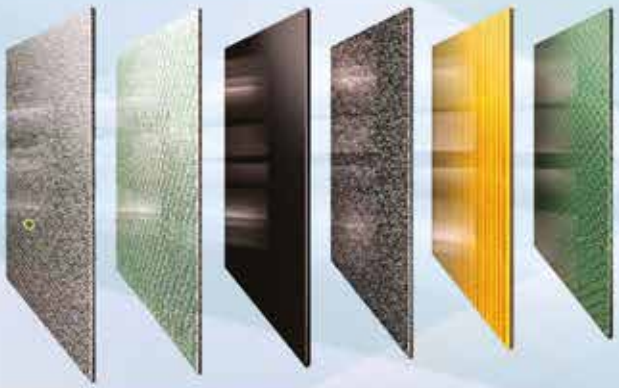
Frosting | Defrosting | 55°C High Temperature Drying | Cleaner & More Sterilized

FILTER-CLEANING REMINDER

After runing 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℃

Cool wind blows out

30s

In Cooling Mode

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

More Comfortable

40℃*

Heat wind blows out

60s

In Heating Mode

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

Operation Status Comparison

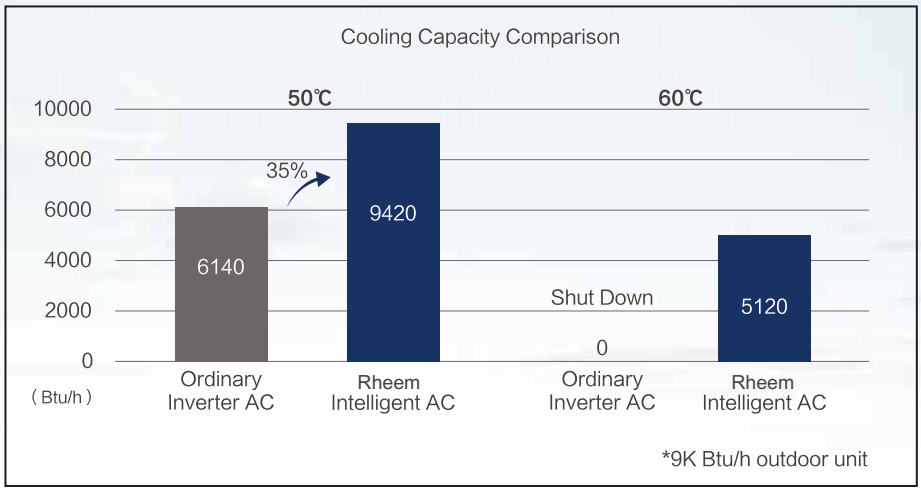
* Electric auxiliary heat only

**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.



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

RW12AIHT00	RW18AIHT00	RW24AIHT00

FULL DC
INVERTER AIR CONDITIONER

DC Inverter Compressor

Outdoor DC motor

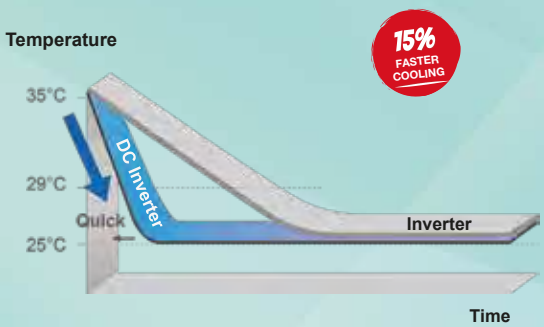
Indoor vane DC motor

Indoor DC motor

DC INVERTER

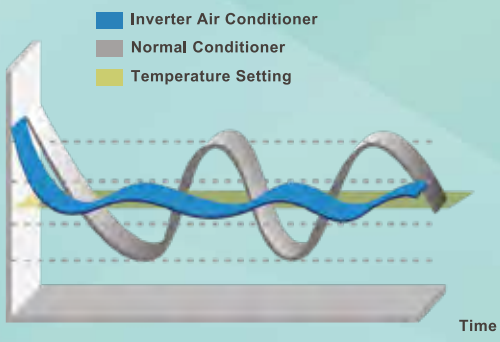
Fast Cooling

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.



±0.5℃ temperature control

FAST COOLING

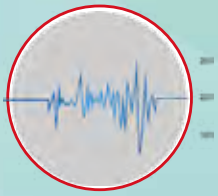
No more annoying sound from sudden speed change. A DC inverter air-conditioner works at an extra-quiet mode to ensure you a good sleep.

LOW TEMPERATURE HEATING

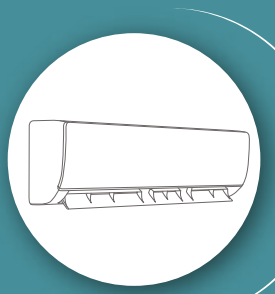
Keep you warm even when the outdoor temperature is as low as -15°C. The high frequency of the DC inverter air-conditioner enables the compressor to operate at various speed, which can be applied to different environments and ambient temperatures.

WIDE VOLTAGE RANGE START-UP

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



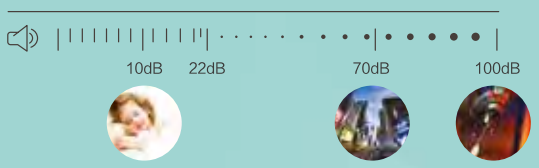
3E SOLUTION



- **E**asy Assembly save upto **20%**
- **E**asy Assembly save upto **20%**
- **E**asy 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.

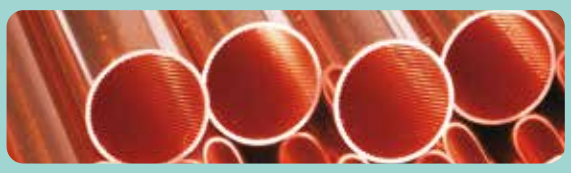
SAFETY DESIGN

- No Connection Between Condensate Water & Electricity.

- Fireproof Electric Control Box
  BMC material is applied which creates high heat resistance & erosion resistance.

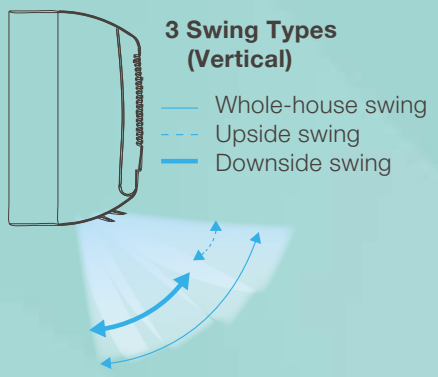
INNER-GROOVED COPPER TUBES

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.



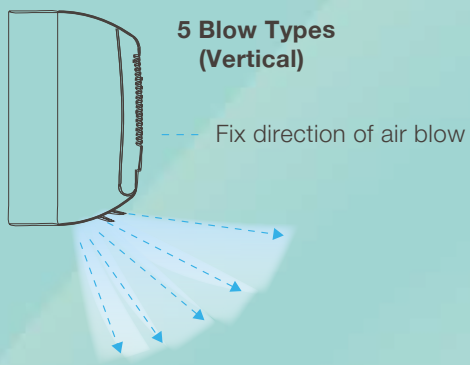
VECTOR PRECISION AIR SUPPLY

Various precise fixed angles of air supply can provide more comfortable choices for users.



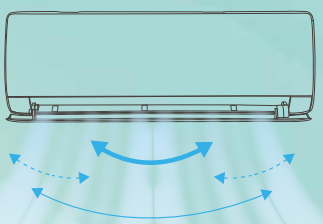
3 Swing Types (Vertical)

- Whole-house swing
- Upside swing
- Downside swing



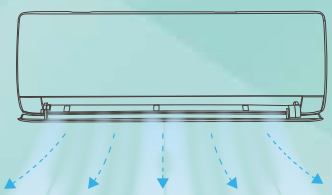
5 Blow Types (Vertical)

- Fix direction of air blow



4 Swing Types (Horizontal)

- Whole-house Swing
- Side Swing (L-R)
- Middle Swing



5 Blow Types (Horizontal)

- Fix direction of air blow

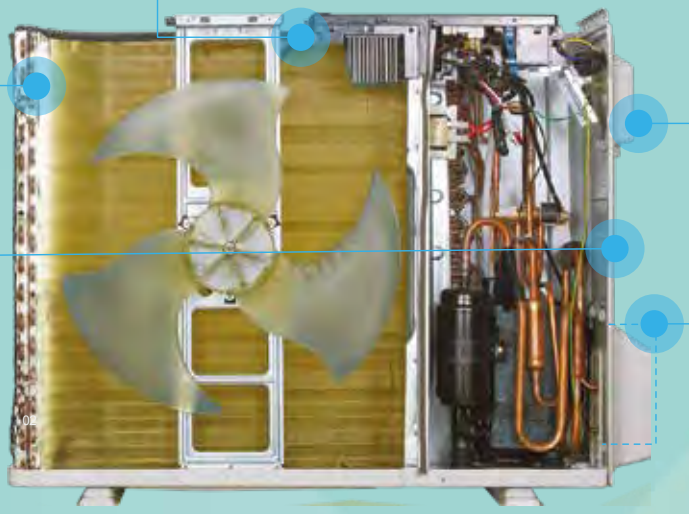
CONDENSING UNIT

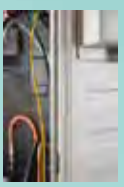
Rust-proof, strong corrosion resistance and excellent insulation

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

Convienent Handle

Easy to carry the unit.





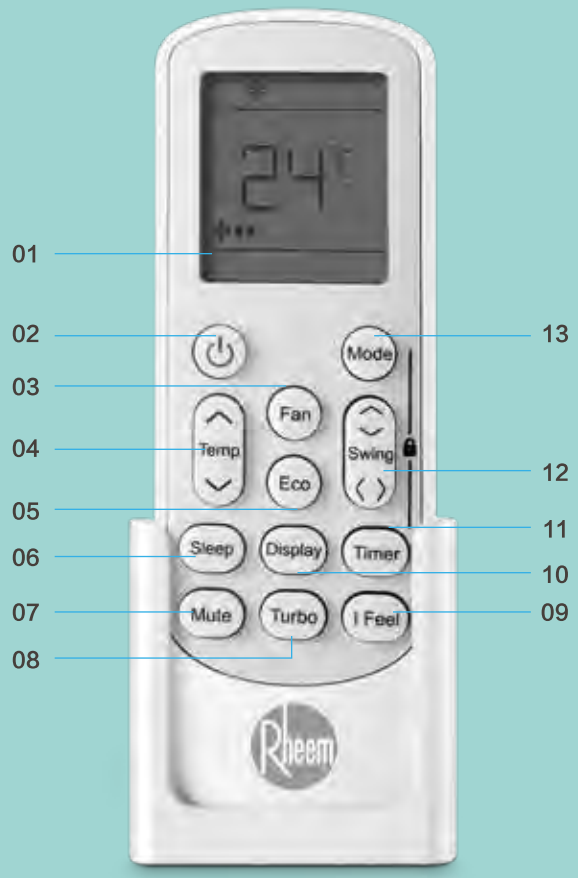
Flanging Processed Plate Metal

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

50HZ inverter			
Range	12K	18K	24K
Sleep	●	●	●
Clock (Real Time)	–	–	–
Timer 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	Golden
Condenser Fins	Golden	Golden	Golden
LP HP Protection	●	●	●
Max Piping Capability Total (Metre)	25	25	25
Max Piping Capability Vertical (Metre)	15	15	15

● Standard ○ Optional – N/A

TECHNICAL SPECIFICATIONS

Model No.			RW12AIHT00	RW18AIHT00	RW24AIHT00
Type			Heating Pump	Heating Pump	Heating Pump
Contact type			Remote Controller	Remote Controller	Remote Controller
Rated cooling capacity (T1*)		Btu/h	12000 (3400~14300)	18000 (4100~21200)	23000 (6100~24500)
Rated cooling capacity (T1*)		kW	3517 (1020~4200)	5275 (1200~6210)	6741 (1800~7200)
Rated cooling capacity (T3**)		Btu/h	10000 (3400~12700)	17400 (4100~20000)	20900 (6100~22500)
Rated cooling capacity (T3**)		kW	2931 (1020~3720)	5100 (1200~5880)	6125 (1800~6600)
Rated cooling capacity (T4***)		Btu/h	9690 (3400~11840)	16480 (4100~18185)	19860 (6100~22520)
Rated cooling capacity (T4***)		kW	2840 (1020~4400)	4830 (1200~5330)	5820 (1800~6600)
Rated heating cooling		W	3600 (1020~4400)	5250 (1200~660)	6500 (1800~7000)
EER for cooling (T1*)		Btu/h-W;	12.00	12.00	12.00
EER for cooling (T1*)		W/W	3.52	3.52	3.52
EER for cooling (T3**)		Btu/h-W;	8.50	8.50	8.50
EER for cooling (T3**)		W/W	2.49	2.49	2.49
EER for cooling (T4***)		Btu/h-W;	8.57	8.57	8.57
EER for cooling (T4***)		W/W	2.51	2.51	2.51
COP for heating		W/W	3.50	3.50	3.50
Moisture Removal		Liters/h	1.0	1.8	2.4
Indoor noise level at cooling	Super	dB(A)	44	49	50
	High	dB(A)	41	44	45
	Med.	dB(A)	38	41	42
	Low	dB(A)	31	36	38
	Quite	dB(A)	28	34	36
Outdoor noise level		dB(A)	53	53	57
Climate type			T3	T3	T3
Power Supply			220-240V~1 Phase/50Hz	220-240V~1 Phase/50Hz	220-240V~1 Phase/50Hz
Voltage Range		V	165~265	165~265	165~265
Annual energy consumption		kwh/year	2700	4050	4050
Refrigerant		kg	R410A/1.000 kg	R410A/1.250 kg	R410A/1.250 kg
Compressor	Type		Rotary	Rotary	Rotary
Evaporator			Golden Fin	Golden Fin	Golden Fin
Condenser			Golden Fin	Golden Fin	Golden Fin

Indoor air volume (Cooling/Heater)		m^3/h	750/750	1350/1350	1350/1350
Indoor fan type			Cross flow	Cross flow	Cross flow
Outdoor fan type			Propeller	Propeller	Propeller
Suitable area		m^2	15~23	20~35	30~50
Next dimensions (WxDxH)	Indoor	mm	820x306x210	1095x327x235	1095x327x235
	Outdoor	mm	817x328x553	853x349x602	953x433x808
Net Weight	Indoor	kg	9	15	15
	Outdoor	kg	29	34	59
Packaging dimensions (WxDxH)	Indoor	mm	885x366x278	1160x393x303	1160x393x303
	Outdoor (without piping)	mm	858x321x585	890x385x628	1020x475x845
	Outdoor (with Piping)	mm	858x356x585	890x385x628	1020x475x845
Gross weight	Indoor	kg	12	19	19
	Outdoor (without piping)	kg	33	38	65
	Outdoor (without piping)	kg	34	39	68
Stuffing qty	40'HQ	sets	242	184	120

* (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

RMEA-RH-INVERTER-50-01

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

AMERICAN BRAND
TRUSTED QUALITY

R410A
REFRIGERANT

Founded in 1925, Rheem® is nearly a 100 year old North American manufacturer delivering innovative, energy efficient air conditioning and water heating solutions under one roof to homes and businesses in more than 70 countries worldwide. From its Atlanta, Ga. Headquarters, three U.S. manufacturing facilities, state-of-the-art distribution center and Advanced Technology Integration (ATI) Lab, Rheem® designs, builds and supplies some of the most reliable, environmentally responsible and technologically advanced products in the industry. Under the “One Rheem Quality” promise, every Rheem® built everywhere in the world is held to the same high standard of excellence.

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