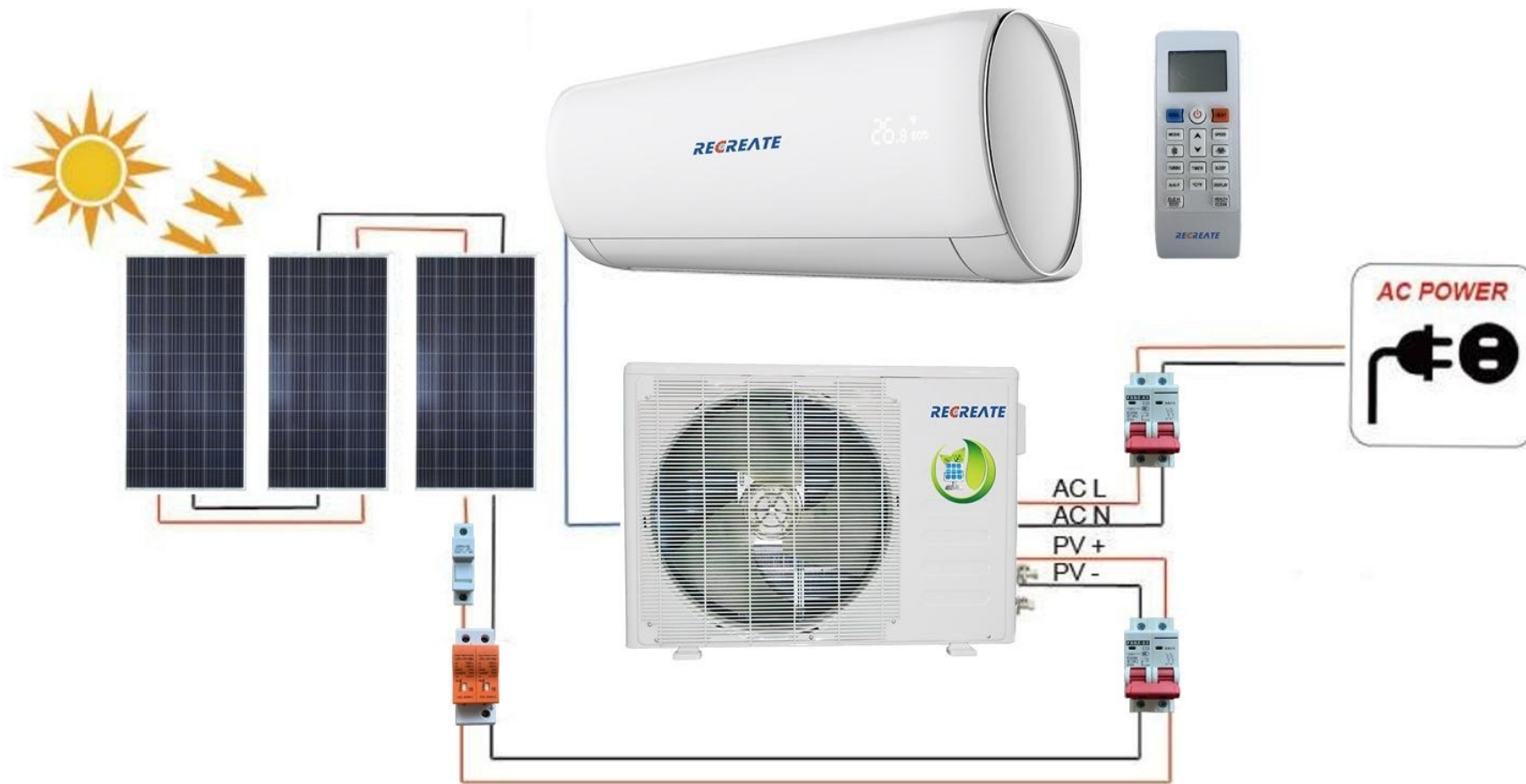


SOLAR INVERTER AIR CONDITIONER





SOLAR INVERTER AIR CONDITIONER AC/DC HYBRID TYPE

Solar air conditioner include: A/C Outdoor & Indoor Unit; Solar Module; Custom Roof Mounting System; PV Cable; Fuse Protection; DC Breaker; Lightning Arrester;

Product discrimination

Recreate is the inventor of world's first true Hybrid Solar air conditioner. Using Recreate's Solar direct drive technology(SDDA) the Recreate Solar Hybrid unit can use Solar DC generated power or mains AC generated power, or a combination of both as required. This means that the Recreate Hybrid requires NO batteries, NO inverter, NO controller and need only a few PV panels to deliver a huge saving. Under optimum conditions, this can save up to 97% of your mains power usage.

The Recreate's system uses a VRF(Variable Refrigerant Flow)controller and frequency driver in conjunction with multiple sensors and an algorithmic control circuit to raise and lower the unit's capacity in real-time based on conditions as they change. Recreate Hybrid Solar air conditioner are more powerful and use less energy than a fixed speed air conditioner.

The SDDA will use as much solar energy as is available and this solar energy directly replaces the equivalent amount of AC power from the mains provider. Under enough solar power conditions, the Recreate Hybrid can normal operation without AC generated power.

Products Benefits



Help you to reduce the 40%-80% electricity bill.



SEER up to 36 with solar, 22 without solar.



Enjoy cooling summer without grid in sunshine day.



Lower investment than off-grid & on-grid solar energy system.



Increase the value of your home.



Reduce your carbon footprint.

Common Application



Home



Office/School



Remote Telecom Station



Desert Location



Island Location



Bus Station

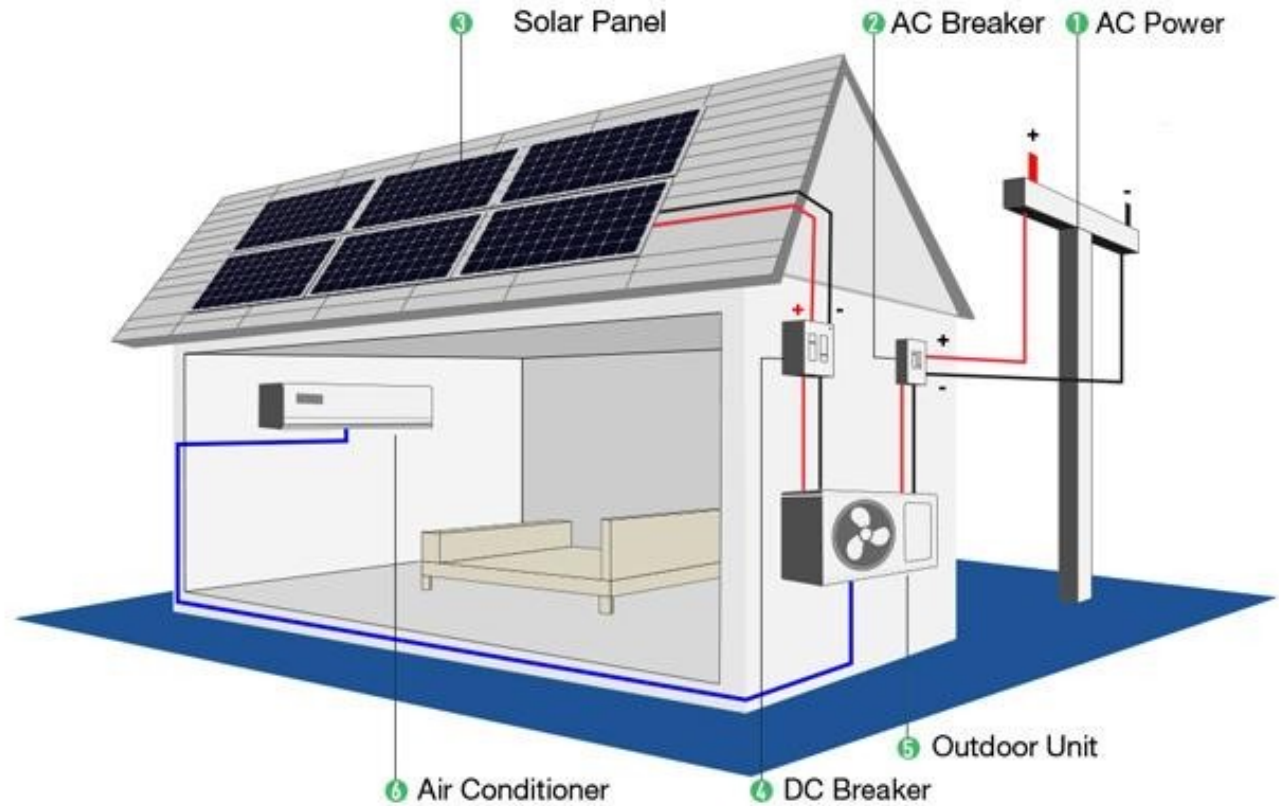
On Grid Solar Air Conditioner



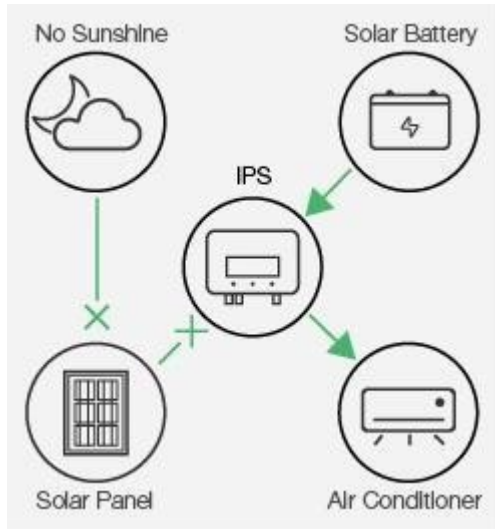
Daytime when sunshine is strong
Power input by Solar Energy.



Nighttime or sunshine is weak
Power input by AC Power.

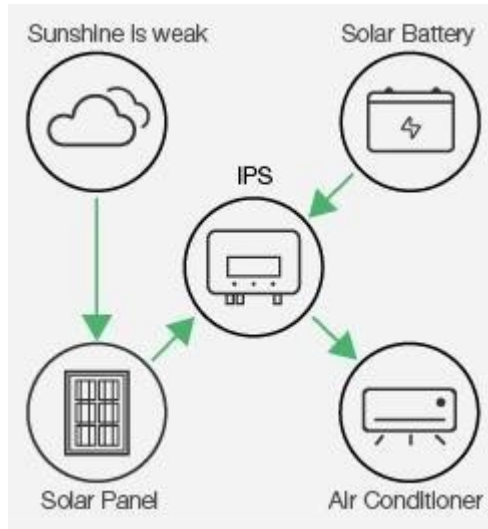


Model-1. Without Grid Power



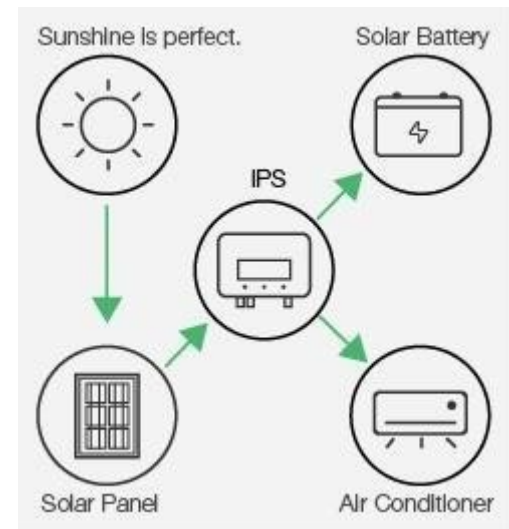
1 . B attery Power

During the night or when there is no solar energy, the A/C unit will take the power from the battery to run the device.



2 . B attery & Solar

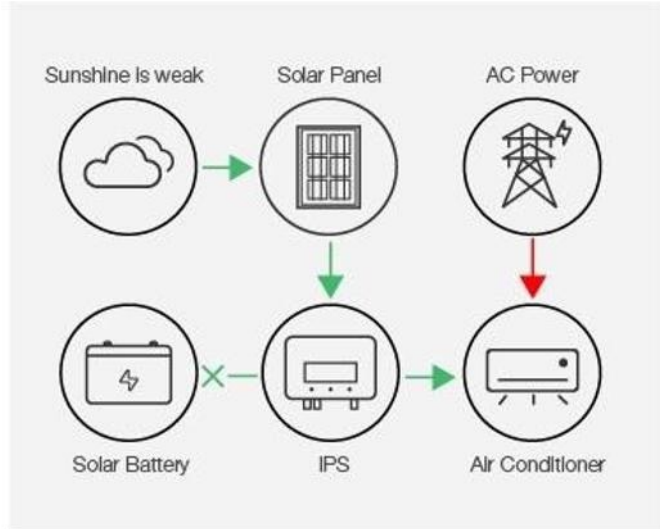
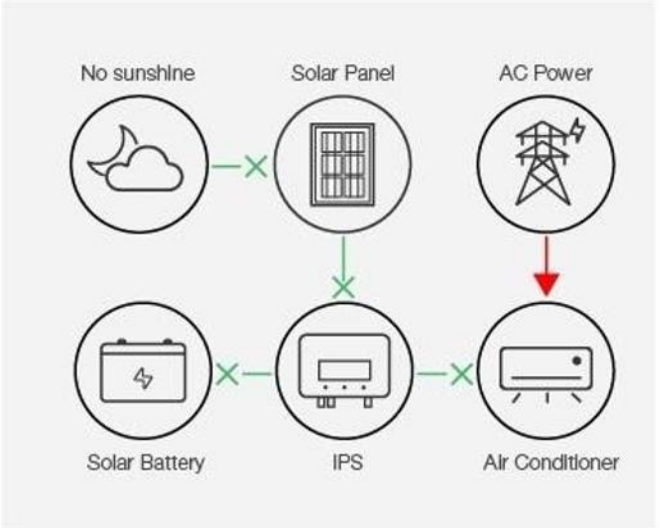
When the solar energy is weak, the A/C unit will take the solar power as the priority choice, the power from the battery will be a supplement.



3 . 100% Solar

When the solar is sufficient, the A/C unit will start and operate by solar energy only. In the same time, the system will charge the battery automatically.

Model-2. With Grid Power:



1 . Grid Power

During the night, the A/C unit take the power from the grid power and running with same principle of regular air conditioner, the SEER is over 22, it can saving 20-30% energy compare with the regular A/C unit.

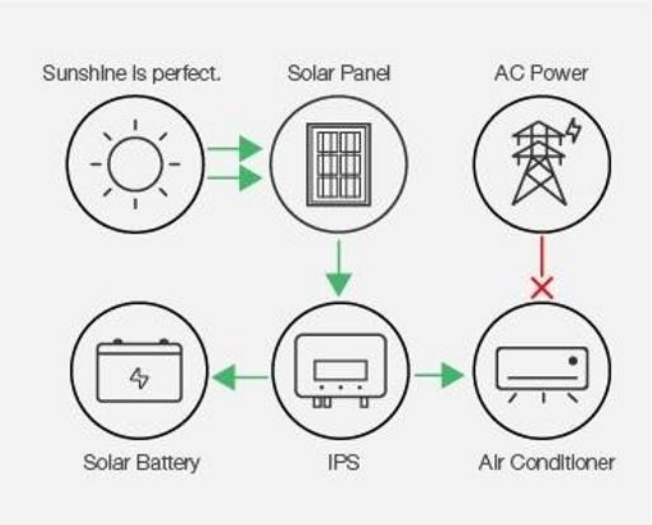
2 . Grid and solar

When Sunshine is weak, like in the morning or cloudy day, the A/C unit will take the solar as the priority choice, the insufficient power will take from the grid to make sure 24H working.

Model-2. With Grid Power:

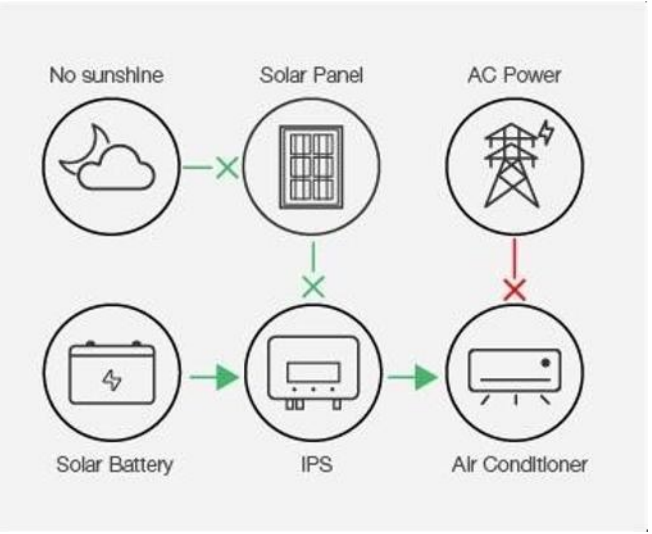
3. 100 % Solar

When the solar energy meets the min running requirement of compressor, the A/C unit will start and operate by solar energy only, even the grid off, 100% energy saving. In the same time, the system will charge the battery automatically.



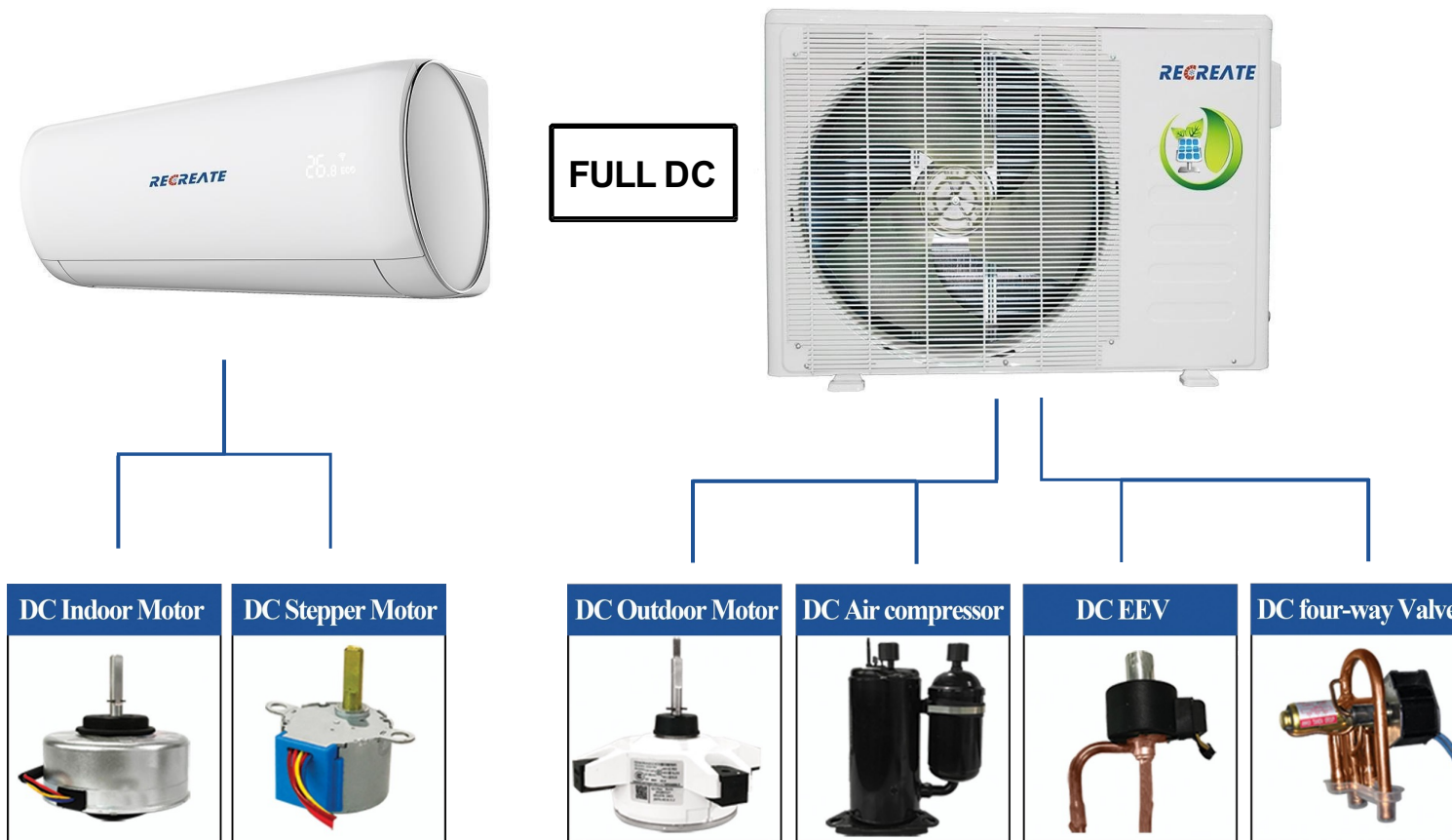
4. Grid Off

When the grid off or the customer turns off the grid power, the system will automatically take the battery energy to run the A/C unit, it will ensure you enjoy cooling summer in any situation.



Solar Part Description

Recreate Hybrid Solar air conditioner is engineered from the ground up for use with solar. All electrical components are DC powered including compressor, high-efficiency DC fan motors, DC valves & solenoids, etc.



Solar Part Description



>ACDC Hybrid Indoor Unit

DC 90V-380V;
Available Capacity 9k, 12k, 18k,
24k Btu ;
Digital display



>ACDC Hybrid Outdoor Unit

AC Input 220~240V
50/60HZ ;
Low Noise 53~60dB
Eco Friendly R32



- Copper pipe (4m)
- Drain pipe (4m)
- Power cable (4m)
- Remote control
- MC4 connector

Solar Part Description



DC Cable.
Cross Section: 4m², 6m² Optional Rated
Voltage:600VDC(UL)/1000VDC(TUV)
Rated Current: 55A,70A



Lightning Arrester.
PC40-85V DC



Fuse-Protection.
RT28N-32X 1P



DC Breaker.
DC800V 2P 20A

Power Tracking

Communication port5 : ACDC Air Conditioning Running Parameter Display Software

选项菜单

ComPort Selection: Com5 Start 开始 Pause 暂停 CLRScreen 清屏 Curve 曲线 Quit 退出

Model	Cool	Fan Level	High wind Speed		Infan Speed	1180R/M	Temp Diff	0°C
Set Temp	26°C	Room Temp	26°C		Eco Mode	NO	Heat	OFF
Freq Level	2	Inter Coil Temp	20°C		Dc Bus Volt	358V	Recycle Mode	NO
Out Room Temp	33°C	Ubj Freq	2		Run Freq	33Hz	Phase Current	3.40A
PV Input Volt	222V	Ext Coil Temp	34°C		Exhaust Temp	70°C	Back Temp	22°C
Ac Input Volt	234V	PV Input Curr	1.70A		Outfan speed	780R/M	Mouldproof	NO
Outfan status	ON	Ac Input Curr	2.40A		Opening of EXV	100	IPM Temp	0°C
Scheme Owner	RECREATE	Test Mode	Normal	Normal	Return oil	NO	Defrost	NO
		Provider	RECREATE		Type	50G/W	Comp State	0:30:10

Status Display





Outdoor status	Running	Stop reason	Normal	freq fall	Normal	Fourvalve state	OFF
External fault	Normal	Internal fault	NO	freq limit	Normal	PV Input Power	377w
Drive failure	Normal	Fault locking	NO	Protected code	Normal	AC Input Power	562w

Data

Waiting Time 09:40:51 Verify Pass



Products Parameters

Solar Air Conditioner							
PRODUCT SPECIFICATION SHEET		RC-ADC09GW-XA-R32	RC-ADC12GW-XA-R32	RC-ADC18GW-XA-R32	RC-ADC24GW-XA-R32		
Items	Indoor	heat pump	heat pump	heat pump	heat pump		
	Indoor	RC-ADC09G-XA-R32	RC-ADC12G-XA-R32	RC-ADC18G-XA-R32	RC-ADC24G-XA-R32		
	Outdoor	RC-ADC09W-X-R32	RC-ADC12W-X-R32	RC-ADC18W-X-R32	RC-ADC24W-X-R32		
Picture of Indoor Unit	-						
Power supply source	V/Ph/Hz	220V-1-50Hz/220~240V-1-50Hz	220V-1-50Hz/220~240V-1-50Hz	220V-1-50Hz/220~240V-1-50Hz	220V-1-50Hz/220~240V-1-50Hz		
	DC	DC90-380V MAX.15A	DC90-380V MAX.15A	DC90-380V MAX.15A	DC90-380V MAX.20A		
Rated Capacity	Cooling	W	2500	3500	5000	7000	
	Heating	W	2500	3600	5100	7200	
Rated Power Consumption	Cooling	W	690	1030	1520	2100	
	Heating	W	713	980	1550	2180	
Rated Running Current	Cooling	A	3	4.7	6.9	9.3	
	Heating	A	3.1	4.5	7	9.6	
Max. Input Power	W	1450	1870	2860	3800		
Max. Input Current	A	6.6	8.5	13	17.2		
SEER Cooling	W/W	SEER6.6	SEER6.6	SEER6.6	SEER6.6		
SCOP Heating	W/W	SCOP4.6	SCOP4.6	SCOP4.0	SCOP4.0		
Refrigerant	-	R32	R32	R32	R32		
Refrigerant Charged	g	900	900	920	1260		
Air Flow Volume	m ³ /h	650	650	900	1200		
Noise level (INDOOR)	dB(A)	41	42	45	48		
Noise level(OUTDOOR)	dB(A)	50	50	52	56		
Connect pipe	Thickness	mm	Φ6*0.5	Φ6*0.5	Φ6*0.5	Φ6*0.5	
	Gas tube Diameter × Thickness	mm	Φ9.52*0.6	Φ9.52*0.6	Φ12.7x0.7	Φ15.88x0.9	
Compressor Parameter	Compressor Model		KSK103D53UFZ	KSN108D34UFZ	FTz-SM151AXBA	KTM240D43UMT	
	Drive mode	AC/DC	DC	DC	DC	DC	
	type		Rolling Rotor Type	Rolling Rotor Type	Rolling Rotor Type	Rolling Rotor Type	
	Brand		GMCC	GMCC	LAMDA	GMCC	
	Capacity	W	3120±5%	3080±5%	5780±5%	7740±5%	
	Input	W	805±5%	780±5%	1320±5%	2065±5%	
	Rated current(RLA)	A	5.7±5%	5.4±5%	6.0±10%	9.4±10%	
Dimension	Outdoor	Net Dimension	mm	795×290×555	795×290×555	795×290×555	860×304×733
		Packing Dimension	mm	910*400*630	910*400*630	910*400*630	1005*450*820
	Indoor	Net Dimension	mm	895*203*300	895*203*300	1000*240*310	1130*245*320
		Packing Dimension	mm	965*275*370	965*275*370	1075*310*385	1195*310*390
Indoor unit weight (Net)	Kg	12	12	15	17.5		
Outdoor unit weight (Net)	Kg	38	40	43	55		
Loading qty (20/40Q/40HQ)		90/176/194	90/176/194	79/160/180	50/105/120		

Certifications

