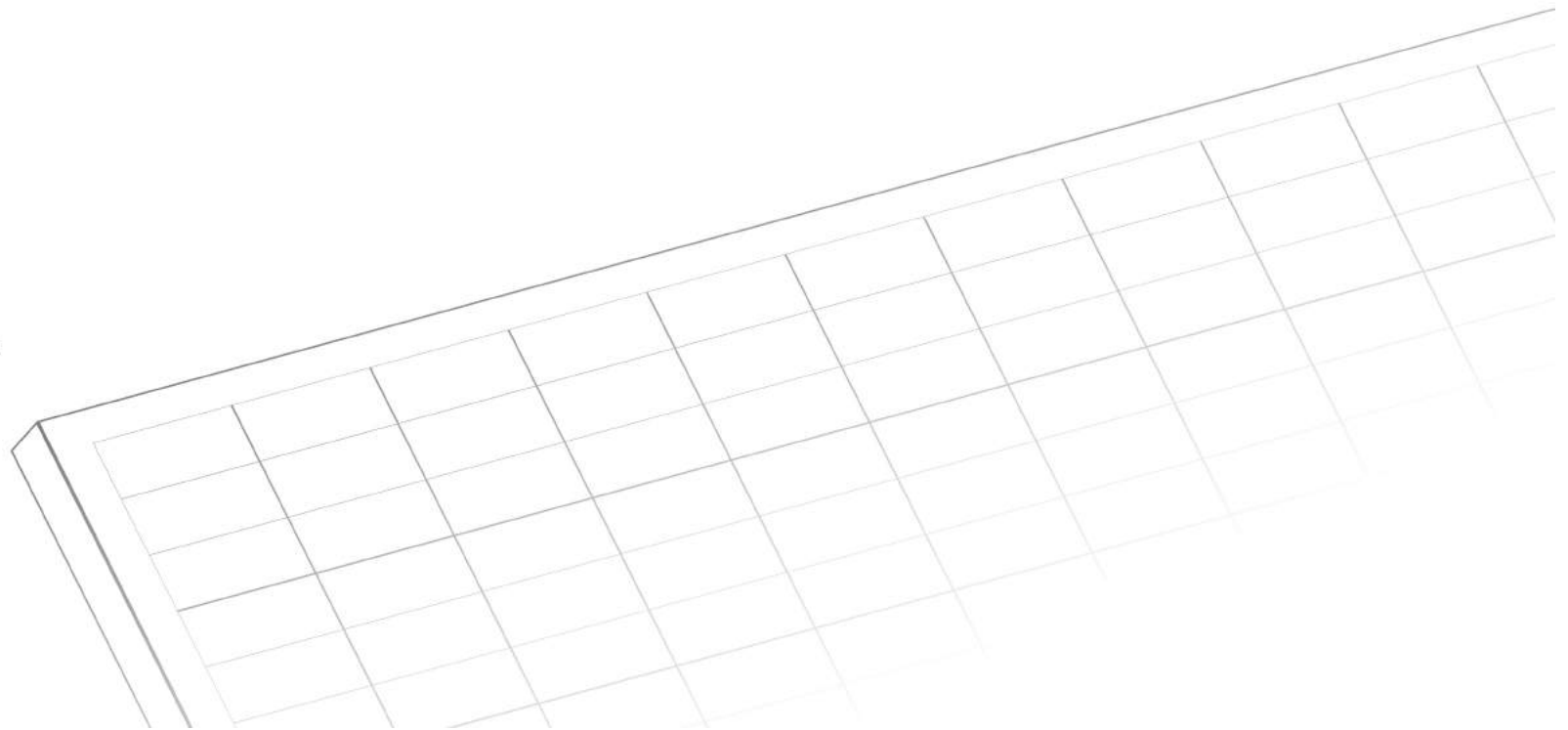


a



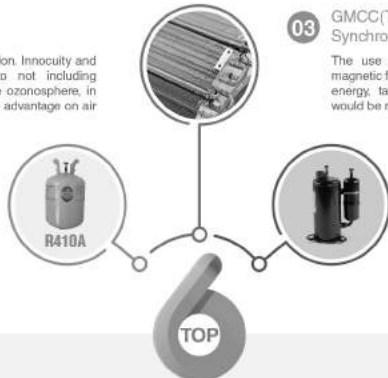
HIGH-QUALITY COMPONENTS EFFECTIVELY IMPROVE THE EFFICIENCY

02 High Efficiency Heat Exchanger

Adopting multi-fold heat exchanger about 20%~40% more exchange area than the general one which to improve the high energy efficient ratio of performance, meanwhile, equipped with inner-groove copper tube and hydrophilic aluminum foil to achieve the high performance of cooling and heating.

01 Leading International New Refrigerant R410A

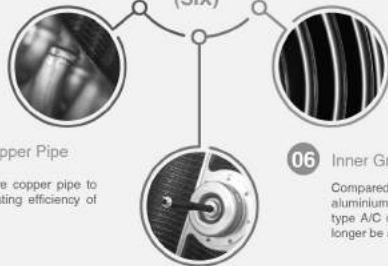
New refrigerant R410A has stabilization, innocuity and more efficient characteristic due to not including chlorine element will not destroy the ozone sphere. In addition, use new refrigerant will take advantage on air conditioners performance.



03 GMCC (Toshiba & Media) Permanent Magnet Synchronous Compressor

The use of permanent magnet rotor produce the magnetic field without the power turn on, it can save the energy, take the whole system more efficient, and would be more steady during working!

Key Strength Of FADI Solar AC Component (SIX)



04 High Grade Inner-Groove Copper Pipe

Adopting the high-grade inner-groove copper pipe to improve the heating and anti-defrosting efficiency of the heat exchanger.

06 Inner Groove Copper Pipe

Compared with general aluminum foil, hydrophilic aluminum foil does not frost up like other conventional type A/C units, this also means that corrosion will no longer be a factor

05 Brushless DC Remarkable Motor

Keep the system stable and powerful but quiet with longer life span.

HAINING FADI SOLAR ENERGY CO.,LTD



WORKING AS LOW AS 26dB MAKING YOUR DREAM SWEETER!



20dB
Silent night
at rural areas



30dB
Quiet night
at desert



40dB
In the Noisy
library

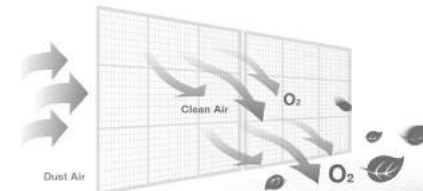


50dB
In a busy
office

26dB

Noise Advantages of FADI products

Give you a comfortable rest environment, so that you enjoy a noise-free space after work.



STRONG FILTER GRID

Combines antibiosis with purifying the air.
Purifies every breath in your room.

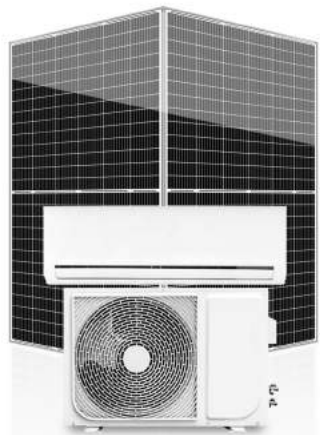
IT WORKS DC Inverter Technology

INVERTER TYPE AIR CONDITIONER^{ION+OFF FULL FUNCTION}

This is the 4th generation solar air conditioner we've all been waiting for - designed for low cost, easy installation and a fast payback.

This unique solar air conditioning technology can work without batteries, no inverter, no controller - just plug in the solar panels and start saving up to more than 90% on daytime cooling or heating costs.

If you region without AC power supplier, we can inbuilt BATTERY, INVERTER, SOLAR CHARGE CONTROLLER too. Namely, can meet your requirement of BOTH on grid installation or PURE SOLAR 100% OFF GRID installation!



Solar Panel

We suggest you to connect 4 or 6 pcs 260W-440W solar panels to drive each solar air conditioner. Both mono-crystalline and poly-crystalline solar panels can be accepted.



COMPRESSOR

Brand: GMCC (Toshiba & Media)
Original: Japan
Sino-Japan joint venture by TOSHIBA with Media.

MPPT Solar Charge Controller

A Solar charge controller protects the whole system and provides stable power supply.

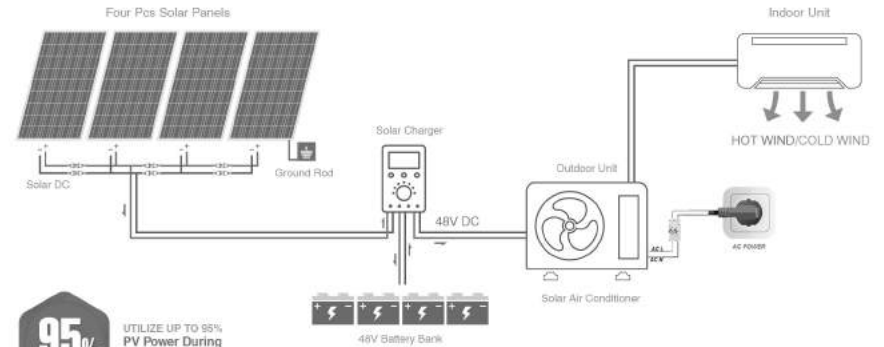
Battery

Batteries are the energy bank to reserve energy. We recommend you use 4 x 12V deep cycle gel solar batteries. Depending on the system selected and the hours of battery operation you requires, you can select the AH of your batteries.

Brushless DC Motor



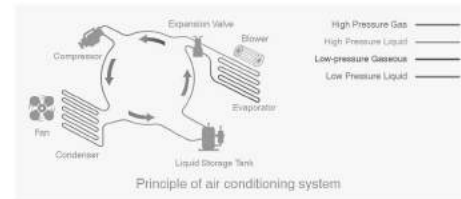
- The DC motor allows fine rotation control, which reduces energy consumption.
- The DC motor also provides improvements in operational efficiency of up to 35%, compared to an AC motor.



95% UTILIZE UP TO 95% PV Power During Peak Sun Hours

Working Principle

On/Off Grid Solar Air Conditioner, equipped MPPT PV tracking system and the smart controller, utilize the DC power as priority. Energy delivered from solar PV directly and if not sufficient, will aggregates with the grid (or battery optional), if the grid cut (or battery runs out), then the battery (or grid power) comes as back up to continually run the air conditioner. This solution is perfect for the places where the grid power is not steady or grid power often cut.



R410A Environment Protection Refrigerant



High Efficiency Brushless Inverter Permanent-magnet Compressor



Super Wide Operating Temp. Range: -10-55°C



30s Fast Cooling 1 Min Powerful Heating

APPLICATION



INVERTER SOLAR AC KEY STRENGTH

Complete DC Inverter Air conditioner Compared with ordinary air conditioner, complete DC inverter technology, the new 360°Sine wave driving technology has considerable.



4-Ways Air Outlet

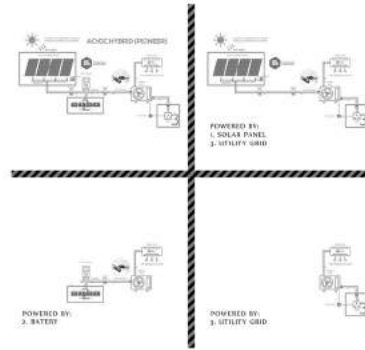
The louver can be vertically or horizontally adjusted so as to maximize comfort in the room.



Turbo Cooling

Press Turbo button on remote controller to enjoy a larger air flow, which enables the indoor temperature to reach the set temp in a shorter time.

ENERGY SAVING & COMFORTABLE



ADVANTAGES

- Much wider range of frequency and DC voltage, quickly cooling and more energy saving.
- Higher energy efficiency.
- Smoother running and lower noise.
- More reliable & smooth operation.



SOLAR AIR CONDITIONER Application Scenes

TECHNICAL PARAMETERS

Product Parameters ①

Model	Cooling Capacity (Btu/h)	Heating Capacity (Btu/h)	Power Input(W)		Net Weight Indoor Units(KG)	Net Weight Outdoor Units(KG)	Net Size Indoor Unit(MM)	Net Size Outdoor Unit(MM)
			Cooling	Heating				
35GW-PRO-3in1	12000	13000	865	880	7.2	35	805*194*285	835*320*540
50GW-PRO-3in1	18000	19000	1320	1465	9.5	39	957*213*302	835*320*540
70GW-PRO-3in1	24000	25000	1980	2050	11.9	56	1040*220*327	910*340*700

Product Parameters ②

Model	COMPRESSOR	Solar Panels Required	Application Area (M2)	Energy Saving
35GW-PRO-3in1	TOSHIBA(GMCC)	335~440W/37V * 4	16~23	60~95%
50GW-PRO-3in1	TOSHIBA(GMCC)	335~440W/37V * 6	24~35	60~95%
70GW-PRO-3in1	TOSHIBA(GMCC)	335~440W/37V * 8	32~47	60~95%



Not limited by power supply and climate, apply for world wide use.

When you are at these places with fierce weather, how do you go through summer or winter?

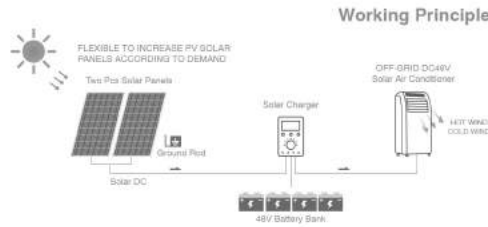
Your Best Choice!

DC 48V SMART PORTABLE SOLAR AIR CONDITIONER



Freedom from the installation of the machine, easy to move, want to place where to put, arbitrary.

- Use effective evaporative cooling technology
- Rapid cooling dehumidification effect is good
- Exquisite and small easy to move, arbitrary
- Ultra-quiet operation quiet and low-pitched
- Lower energy consumption

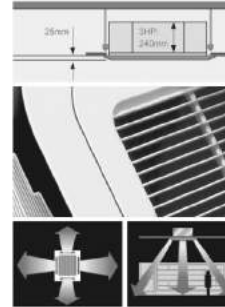


PARAMETER TABLE

MODEL		FD-SP-26/DC	FD-SP-35/DC
PERFORMANCE			
Capacity	Cooling	Btu/h 9000 W 2600	12000 3500
	Heating	Btu/h 10000 W 2900	13000 3900
Noise		dB(A) ≤44	≤46
Air Circulation		m³/h 400	500
Suitable Area		m² 8-10	10-15
EER	W/W	5.20	5.00
	Btu/h/w	15.79	15.79
Refrigerant		R-134A	
Compressor		Panasonic DC 48V	
POWER CONSUMPTION			
Rated Power Input		W 500	700
Rated Current		A 11	15
Input Power range		V DC 42-60	DC 42-60
DIMENSION			
Unit	Shipping NET	mm	350x350x750
		mm	550x308x788
WEIGHT			
Indoor Unit(NET,GROSS)		kg	18/22
SOLAR PANEL + CONTROLLER + BATTERY			
Working Time: 12 hours at day Time, 4(FOUR) Hours at Night			
4(FOUR) Hours Back Up Solution	Flexible Solar Panel 300W		300W * 2 PCS
	Solar Controller		48V/20A
	Battery		12V/100Ah*4 PCS
Working Time: 12 hours at day Time, 8(EIGHT) Hours at Night			
8(EIGHT) Hours Back Up Solution	Solar Panel		320W * 4 PCS
	Solar Controller		48V/40A
	Battery		12V/200Ah*4 PCS

ON GRID PV CASSETTE TYPE SOLAR AIR CONDITIONER

MODEL	FD-ON/CASS-100	FD-ON/CASS-120	FD-ON/CASS-140	FD-ON/CASS-180	
		3 TON 4 HP	4 TON 5 HP	4 TON 8 HP	5 TON 8 HP
Power Supply: 208-240V,50/60HZ					
PERFORMANCE					
Capacity	Cooling	Btu/h 36000 W 10000	41000 12000	48000 14000	60000 18000
	Heating	Btu/h 40000 W 11000	45000 13000	52000 15000	60000 20000
Noise	Indoor	dB(A) ≤48	≤50	≤50	≤52
	Outdoor	dB(A) ≤62	≤63	≤65	≤68
Air Circulation		m³/h 1350	1450	1550	1750
Suitable Area		m² 50-65	60-70	60-80	100-130
EER	W/W	4.6	4.5	4.4	4.3
SEER	Btu/h/w	35	33	33	32
Cop	W/W	4.9	4.8	4.8	4.7
Scop	Btu/h/w	38	38	36	38
HSPF	Btu/h/w	16	14	14	15
Operating Range	C/F	18-30	18-30	18-30	18-30
Design Pressure	PSI	450	450	450	450
Refrigerant Oil		VG47	VG47	VG47	VG47
Refrigerant		R410A	R410A	R410A	R410A
Compressor		TOSHIBA (ROTARY)	TOSHIBA	TOSHIBA	PANASONIC
Liquid Side/ Gas Side		1/4" / 1/2"	3/8" / 3/4"	3/8" / 3/4"	3/8" / 3/4"
DC Connection Wire		MC4/AWG 10/12	MC4/AWG 10/12	MC4/AWG 10/12	MC4/AWG 10/12
POWER CONSUMPTION					
Rated Power Input	W	1700	2100	3500	3000
Rated Current	A	8.8	9.4	11.55	13.6
Max Solar Panel		4x320W/36V	8x320W/36V	8x320W/36V	10x320W/36V



ON GRID PV DUCT TYPE SOLAR AIR CONDITIONER

MODEL	FD-ON/DUCT-100	FD-ON/DUCT-120	FD-ON/DUCT-140	FD-ON/DUCT-180	
		3ton 4HP	4ton 5HP	4ton 8HP	5ton 8HP
Power Supply: 208-240V,50/60HZ					
PERFORMANCE					
Capacity	Cooling	Btu/h 36000 W 10000	41000 12000	48000 14000	60000 18000
	Heating	Btu/h 40000 W 11000	45000 13000	52000 15000	60000 20000
Noise	Indoor	dB(A) ≤48	≤50	≤50	≤50
	Outdoor	dB(A) ≤62	≤63	≤65	≤65
Air Circulation		m³/h 1350	1450	1550	1550
Suitable Area		m² 50-65	60-70	60-80	60-80
EER	W/W	4.6	4.5	4.4	4.4
SEER	Btu/h/w	35	33	33	33
Cop	W/W	4.9	4.8	4.8	4.6
Scop	Btu/h/w	38	38	36	38
HSPF	Btu/h/w	16	14	14	14
Operating Range	C/F	18-30	18-30	18-30	18-30
Design Pressure	PSI	450	450	450	450
Refrigerant Oil		VG47	VG47	VG47	VG47
Refrigerant		R410A	R410A	R410A	R410A
Compressor		TOSHIBA (ROTARY)	TOSHIBA	TOSHIBA	TOSHIBA
Liquid Side/ Gas Side		1/4" / 1/2"	3/8" / 3/4"	3/8" / 3/4"	1/4" / 1/2"
DC Connection Wire		MC4/AWG 10/12	MC4/AWG 10/12	MC4/AWG 10/12	MC4/AWG 10/12
POWER CONSUMPTION					
Rated Power Input	W	1700	2100	2500	2500
Rated Current	A	8.8	9.4	11.55	11.55
Max Solar Panel		4x320W/36V	8x320W/36V	8x320W/36V	8x320W/36V

