



PureMax

**2022
TICA RESIDENTIAL
AIR CONDITIONER
CATALOGUE**



Certificates



2008
 ISO 9001:2004
 OHSAS 18001:2007

TICA owns 6 production sites in Nanjing, Tianjin, Guangzhou, Chengdu and Kuala Lumpur, and a network of over 70 sales and service filiales around the world. Its Nanjing HQ base received 3-star certification for national No. 001 green industrial construction.



Malaysia Base



Nanjing Headquarter



Tianjin Base



Guangzhou Base



Chengdu Base



Thermal Base



TICA Vision

Strive to be the international leading integrated system and service provider in clean environment and utilization of thermal energy

TICA Mission

Persist to maximize the value for customers through innovative technology and provide clean environment in order to improve the quality of life



SMART AIR WE ENJOY



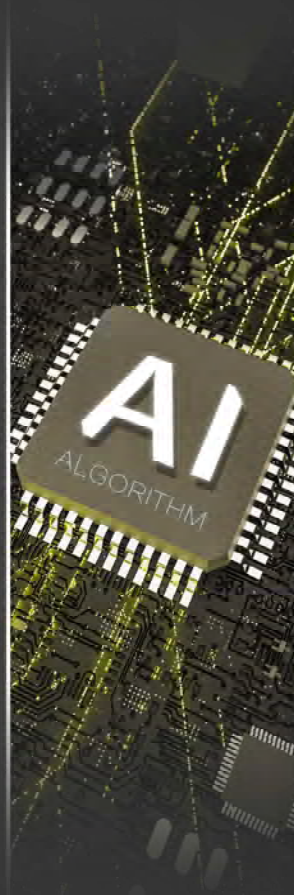
Experience of
Air Temperature



Experience of
Humidity



Experience of
Air Flow Comfor



Experience of
Energy-saving



Experience of
Air Cleanliness



Experience of
Smart Home

Experience of Temperature

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 "



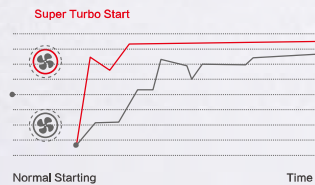
40°C*
Heat wind blows out



In Heating Mode

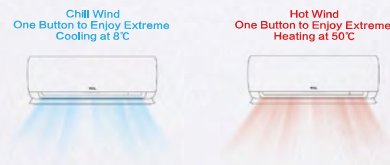
Outlet Temperature Increased
 from 20°C to 40°C in 60 "

Operation Status Comparison



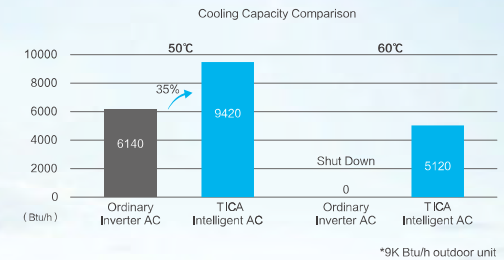
*Heat Pump Only

Chill Wind & Hot Wind



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.



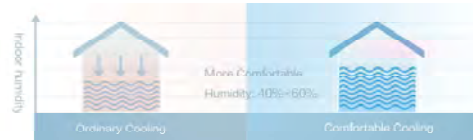
*Heat Pump Only

Experience of Humidity



Comfortable Cooling

Avoiding too much dehumidification.
Maintaining comfortable humidity.



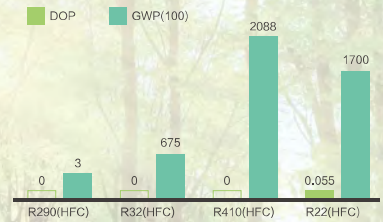
Environmental Friendly

R290

A refrigerant with good heat transmission, higher efficiency, energy saving and environmental protection.

R32

A new refrigerant can convey heat efficiently, it has much lower GWP compared to R-22 and R-410, and is remarkable for its low environmental impact.



Experience of Air Flow Comfort

Smart Air Flow



Shower-style Air Flow
In Cooling Mode

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

In Cooling Mode



In Heating Mode



Blanket-style Air Flow
In Heating Mode

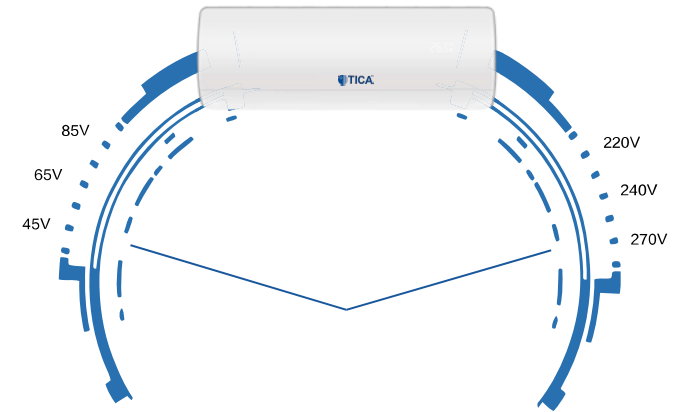


Experience of Energy Saving

More Suitable For Users

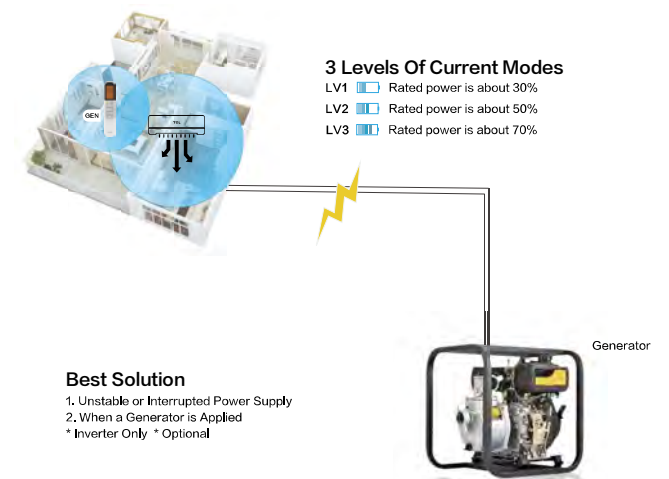
Wide Voltage Range Operation

It can start at an ultra low voltage of 45V, with an extra wide voltage range from 45V to 270V.



Gen Mode

It is one of the best solutions for unstable or interrupted power supply, especially in situation when a generator is applied.



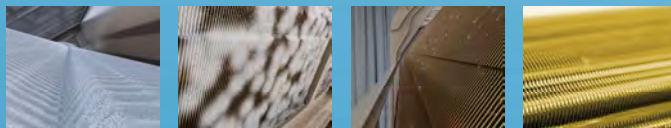
Experience of Air Cleanliness

55°C High Temperature Self-cleaning

* Heat Pump Only



Evaporator is frosted to freeze the dirt on the fin then 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.



Frosting

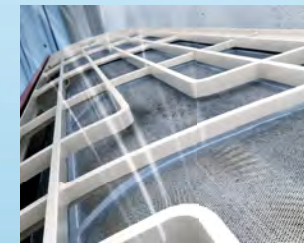
Defrosting

55°C High Temperature Drying

Cleaner & More Sterilized

Filter-cleaning Reminder

After running for a particular period, the air-con will automatically detect the cleanliness of the filter and remind users of filter cleaning to avoid too much bacteria being accumulated on the filters and provide users with healthy air.



Healthy Filter



Photocatalyst Filter



Silver ion Filter



Active Carbon Filter



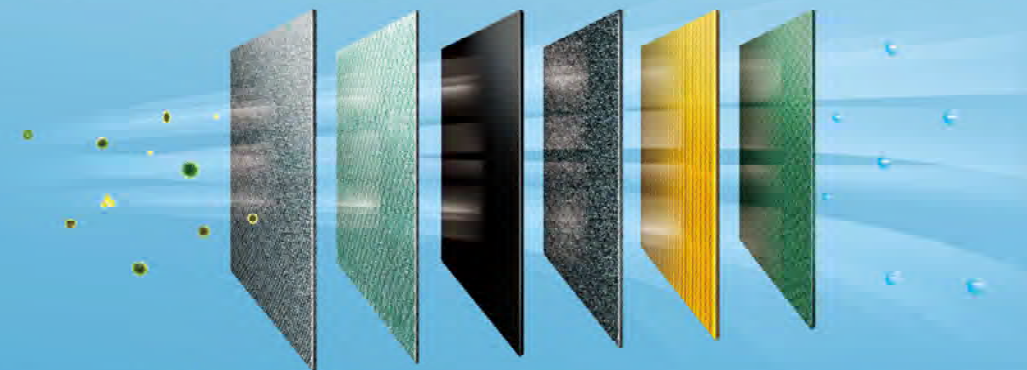
Catechin Filter



Vitamin C Filter



Catalyst Filter



TICA PureMax

Split air-con

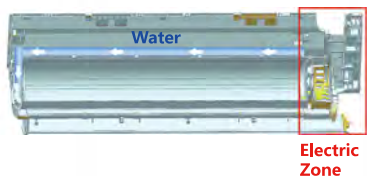
Smart Air Flow

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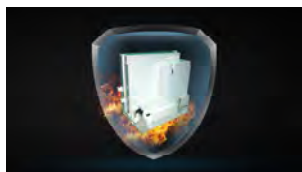


Safety Design

- No Connection Between Condensate Water & Electricity.



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



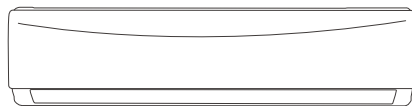
The Most Compact Unit:



698mm

For 7K Btu/h model

The Biggest Unit:



1460mm

For 36K Btu/h model

The Biggest Loading QTY: 9K Btu/h: 365 sets/ 40HQ, 12K Btu/h: 340 sets/ 40HQ



PureMax



XA31



IF



XA11



XA21



XA41



XA61



XA71

Standard



Optional



XA51



XA81



XA82



XA91



XAA1

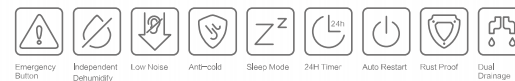


XAB1



XAC1

Standard

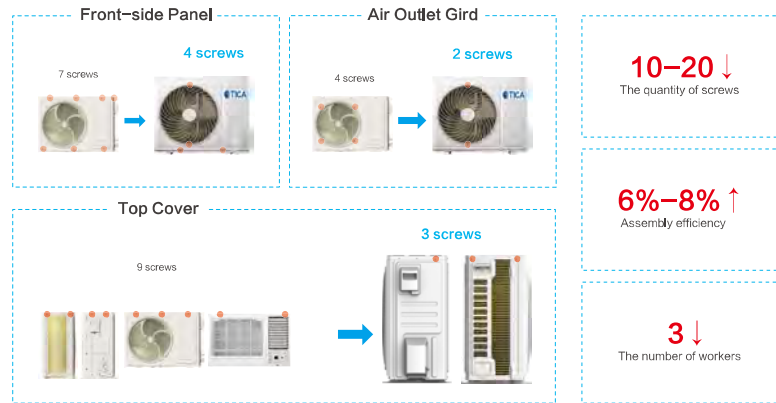


Optional



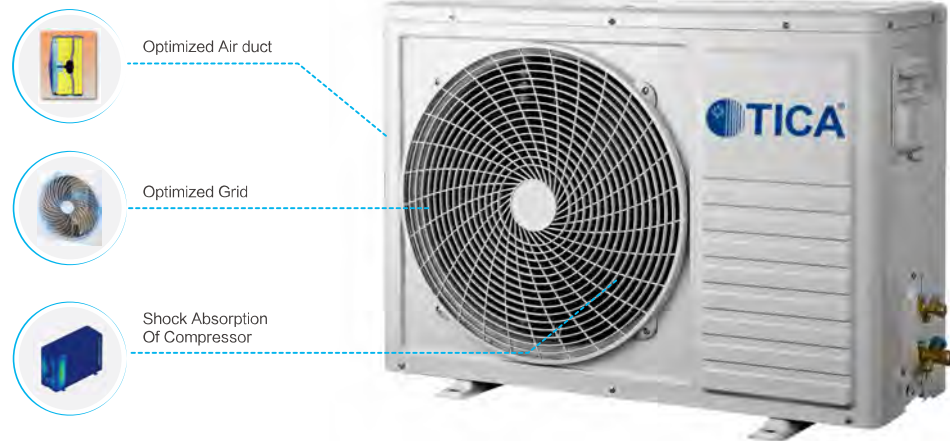
Brand New Outdoor Unit — B Series

Easy Assembly & Easy Maintenance



*Taking 728C as the example

Noise Reduction



Rust-proof, strong corrosion resistance and excellent tightness

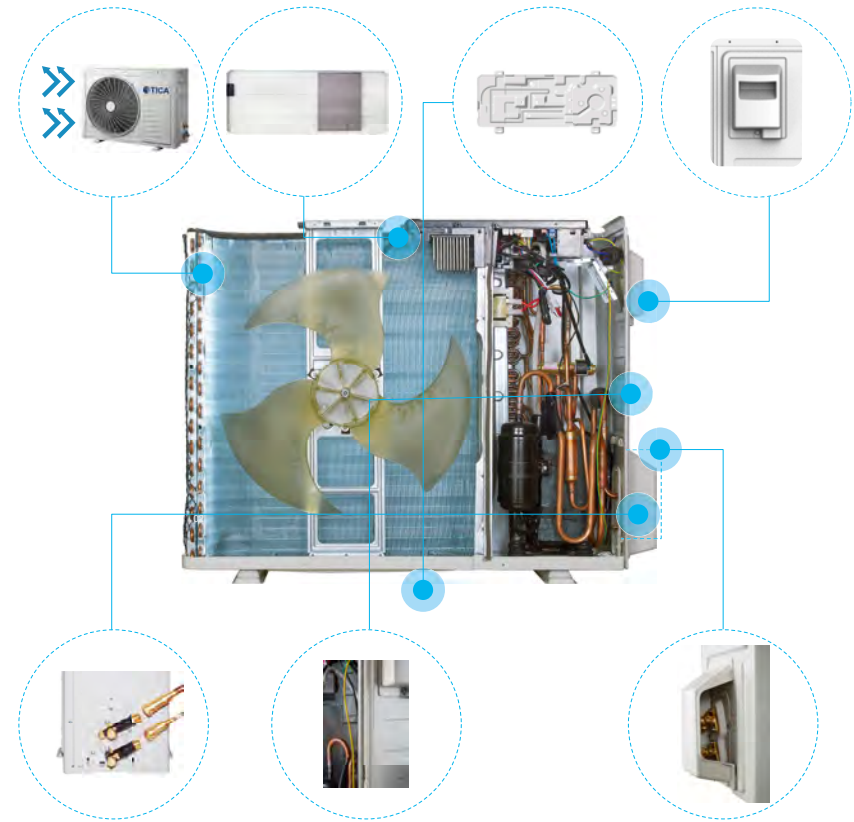
Rust-proof technology enables the outdoor unit to suffer from rusting and extend the service life. Prevention of water, insect and dust, with reliable electric control.

Heating Belt

Anti-icing, better drainage that is designed with multiple ladders and large inclination.

Convenient Handle

Easy to carry the unit



Quick Connector

Easy assembly

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 be serve as a handle.

Technical Specifications(R410A -Inverter)

Model No.			TSA/TSW15KRP	TSA/TSW20KRP	TSA/TSW30KRP
Type			heating pump	heating pump	heating pump
Control type			remote	remote	remote
Rated cooling capacity	Btu/h		12000(2047~12215)	18000(4095~19500)	24000(4947~25590)
	W		3517(600~3580)	5275(1200~5715)	7034(1450~7500)
Rated heating capacity	Btu/h		12000(2047~12215)	18000(4095~19500)	24500(4947~24908)
	W		3517(600~3580)	5275(1200~5715)	7180(1450~7300)
EER for cooling		Btu/h.w; W/W	3.19	3.06	3.12
COP for heating		W/W	3.48	3.42	3.14
Moisture removal		Liters/h	1.3		2.4
Indoor noise level at cooling	High	dB(A)	42	43	50
	Med.	dB(A)	39	38	47
	Low	dB(A)	33	33	44
Outdoor noise level		dB(A)	52	52	59
Electrical Data					
Power supply			220-240V~/50Hz/1P	220-240V~/50Hz/1P	220-240V~/50Hz/1P
Voltage Range		V	165~265	165~265	165~265
Rated current	Cooling	A	5.0(1.4~8.5)	8.9(1.4~12.0)	10.2(1.7~12.0)
	Heating	A	4.58(1.4~7.8)	8.1(1.4~12.0)	10.18(1.7~13.0)
Rated input	Cooling	W	1100(300~1380)	1870(300~2500)	2254(350~2500)
	Heating	W	1008(300~1350)	1720(300~2500)	2240(350~2500)
Max current		A	8.5/7.8	12/12	12.0/13.0
Max input		W	1380/1350	2500/2500	2500/2500
Refrigerating System					
Refrigerant/Charge		Gram	R410A/630g	R410A/1060g	R410A/1360g
Compressor	Type		Rotary	Rotary	Rotary
	MFG		RECHI	GMCC	GMCC
Fan System					
Indoor air circulation Cooling/heating		m ³ /h	530/580	950/950	1000/1100
Indoor fan type			Cross flow	Cross flow	Cross flow
Indoor fan speed H/M/L	Cooling	rpm	1250/1150/950/750/600	1350/1250/1050/850/750	1200/1000/850
	Heating	rpm	1250/1150/950/850/800	1350/1250/1050/850/750	1200/1000/850
	Dry	rpm	750	1350	850
	Sleep	rpm	750/850	850	850
Indoor fan motor			22001-000262(AC)	22001-000409 (DC)	22001-000240 (DC)
Indoor fan motor output		W	21	25	45
Outdoor fan type			Propeller	Propeller	Propeller fan
Outdoor fan speed		rpm	1000	22001-000551	850
Outdoor fan motor			22001-000493(DC)	1000	22001-000147 (DC)
Outdoor fan motor output		W	33	33	85
Connections					
Connecting Wiring		Size x Core number	4×1.0mm ²	4×0.75mm ²	4×0.75
Others					
Suitable area		m ²	15-23	20~35	30-50
Net dimensions (W x H x D)	Indoor	mm	777×250×201	910×294×206	1010×315×220
	Outdoor	mm	777×290×498	853×349×602	920×380×699
Net weight	Indoor	kg	8	10	13
	Outdoor	kg	21.5	28	37.5
Packing dimensions (W x H x D)	Indoor	mm	850×320×275	979×372×277	1096×390×297
	Outdoor	mm	818×325×520	890×385×628	960×400×732
Gross weight	Indoor	kg	10	13	16
	Outdoor	kg	24.5	32	41
Stuffing Quantity		40'HQ	310	212	155