



TICA 天加

Founded in 1991, TICA specializes in clean environment and thermal energy utilization and integrates R&D, manufacturing, sales and service. TICA owns four production sites in Nanjing, Tianjin, Guangzhou, and Chengdu, and a network of over 70 sales and service filiales around the world.

TICA is selected by the Ministry of Industry and Information Technology as a national brand cultivation enterprise and appointed the vice chairman unit of China Refrigeration and Air-Conditioning Industry Association. TICA products can be found from a variety of well-known projects, including Bird's Nest Gymnasium, Water Cube, and Cadillac Arena in Beijing, CNPC, Sinopec, State Grid, Nanjing CEC Panda, Hangzhou Xiaoshan Airport, HNA Group, Shangri-La, Manila Ocean Park, Al Muneera, Shoe Mart in Philippines, and Unilever.

TICA is also an outstanding central air-conditioning supplier of China Metro, and has successfully served more than 40 key subway lines in Beijing, Shanghai, Guangzhou, Shenzhen, Chengdu, Suzhou, Hangzhou and Tianjin. While for microelectronics, hospital operating rooms, biopharmaceutical industry and other professional purification areas, our market share has achieved over 40% in each.

As a national high-tech enterprise, TICA has a nationally recognized enterprise technology center, an enterprise academician workstation, and a postdoctoral research station. TICA product lines cover clean unit, fresh air; unit, clean AHU, modular chiller, VRF unit, screw chiller, centrifugal chiller, and include ORC low temperature power generation system. With the excellent performance of the clean air processor, TICA is selected as a single champion cultivation enterprise in the manufacturing industry by the Ministry of Industry and Information Technology.

In terms of core technology, TICA has built an "ISO Level 1" ultra-clean environment integration system. With the technology, TICA won the first prize of China Machinery Industry Science and Technology. Meanwhile, TICA and United Technologies Corporation (UTC) of U.S. established a global strategic joint venture, and TICA's efficient centrifugal chiller, water-cooled screw chiller and air-cooled screw chiller are manufactured by UTC's Carrier Corporation with technical license. TICA acquired the Purecycle series ORC low-temperature power generation system of UTC's Pratt & Whitney, and obtained the Purecycle trademark and more than 100 international patents. In terms of R&D capabilities, TICA has a nationally recognized enterprise technology center, an enterprise academician workstation, and a postdoctoral workstation. Phase I construction investment of the HQ base reached CHY 600 million. An environmental control R&D base is built with more than 30 CNCA CNAS laboratories. TICA's Research Institute built in Osaka, Japan, is responsible for the development of VRF unit, heat nump water heater, covered to the control of the purpose of the part of the part of the part of the purpose of the pu

Adhering to the principle of quality-based development, TICA began to implement the "Ten-Year Quality Enhancement Plan" from 2011 and attracted senior management teams from Japan to control the whole process of R&D, process, manufacturing and quality. The quality of TICA's products gets comprehensive improvement.

TICA imported the Amoeba business model of Japanese Inamori Kazuo and UTC's ACE operation system (to gain competitive advantage), consolidated the foundation and built a competitive system.

TICA aims to build itself into a world-leading system integration supplier and service provider that specializes in clean environment and thermal energy utilization.



Nanjing Headquarter



Tianjin Base



Guangzhou Base



Chengdu Base

Four Production Bases Deliver Outstanding Quality









- Nanjing Headquarter 2
 Floor area of 170,000 m²
 Construction area of 90,000 m²
- Tianjin Base
 Construction area of 30.000 m²
- 3 Guangzhou Base Construction area of 60,000 m²
- 4 Chengdu Base
 Construction area of
 20,000 m²

Purifying Air Conditioner Leader in China Purifying Product Champion Enterprise (Only one in central air-conditioning industry)

- Winner of the 1st Grade Tech-Progress Award CMIF
- One of the first individual product champion enterprises accredited by NMII
- One of the national Top-10 cleaning equipment and material suppliers
- · National-recognized enterprise technology center
- · High & new tech enterprise
- Enterprise academician workstation
- Vice chairman member of China Refrigeration and Airconditioning Industry Association
- · Postdoctoral Programme
- National Green Industry Building. No.001 in China (first one in China)









R&D facilities

- The largest air flow test platform in the industry (120,000 m³/h)
- · Highway transportation simulation test platform
- Noise test room
- · Low temperature snowfall simulation lab
- · Stress and strain test lab
- · Air purification particle analytical lab



Production facilities

Largest production building in the central air-conditioner industry

Certified by CNAS

difference laboratory in airconditioning industry

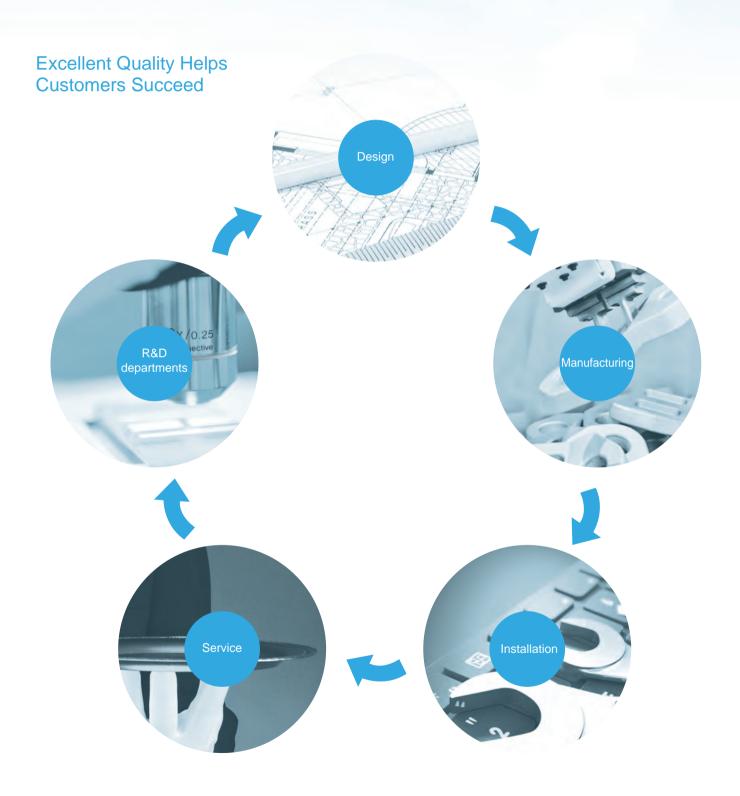
- · Central gas/liquid transport zone
- Japan Murata sheet metal fabrication center
- · CombiCut plasma cutting
- China's most advanced VRF line based on Japanese technology
- · Automated painting line (Wagner, Germany)



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Outstanding Service



Products

Purified cassette unit



The purified cassette unit provides an elegant panel to improve the interior decor. Moreover, it is featured by multi-directional air flows, 360° air supply and proper air distribution and balanced temperature control to meet your business needs.

Medium static pressure duct unit



Thanks to the global leading compressor, the medium static pressure duct unit reaches the level-1 energy efficiency. The maximum static pressure reaches 100 pa, offering strong power to supply air to rooms of different irregular shapes.

Low static pressure duct unit



The low static pressure duct unit is equipped with the high-efficiency V-type heat exchangers with the symmetric design to realize stronger cooling and heating performance with a thinner and lighter body, minimizing the noise and installation dimensions to meet the needs of business users.

High static pressure duct unit



The high static pressure duct unit can offer a maximum static pressure of 196 pa. With ducts distributed, the unit can be applied to spacious, high ceiling places, such as shopping malls, restaurants, supermarkets and meeting rooms.

Purified Cassette Unit





The purified cassette unit provides an elegant panel to improve the interior decor. Moreover, it is featured by multi-directional air flows, 360° air supply and proper air distribution and balanced temperature control to meet your business needs.

Energy-efficient Solution =

High-quality components enable operation in different working conditions

Global-leading scroll compressor ensures outstanding performance and reliability. The operating temperature range for cooling and heating is 17-43°C and -10-21°C respectively. The whole series provide auxiliary heater which allows quick start and smart operation to serve customers in summer and winter.

Super-high wide angle of air supply, maximizing comfort for users

The super-high wide-angle airflow maximizes the area of air supply. Moreover, the ultra-high fan speed allows its users to enjoy hot air even in a room with a ceiling height of 3.5 m in winter.

Super-high energy efficiency

The R410A refrigerant is used to prevent environmental pollution. Moreover, R410A is more efficient than the traditional R22. The energy efficiency of the unit can reach Grade 2 of China Energy Efficiency Grade.













Minimalist and Luxury =

Ultra-thin design

The unit, only 230 mm at its thinnest, can be installed in a narrow ceiling space to meet the needs of modern interior decor.

Smooth water drainage

Condensate pump is equipped to realize reliable water drainage at the height of 1,200mm, simplifying the drain pipe arrangement.

Fast installation

The outdoor unit is equipped with a 270° connection pipe. The indoor and outdoor units communicate with each other via the RS485 interface, thus further simplifying installation.

Enjoy the Clean and Quiet Life _____

Enjoy clean air in life

PM2.5 and formaldehyde filter makes the panel thinner, lighter and more attractive.

Streamlined panel

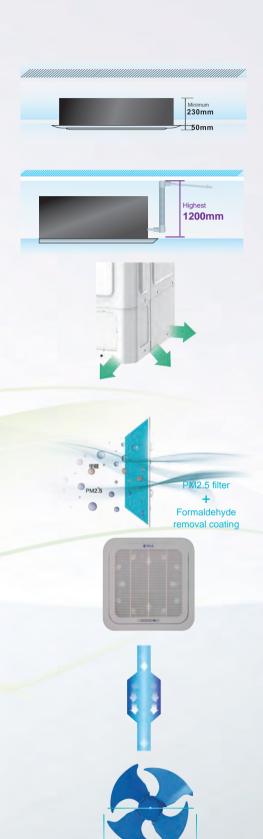
The large air inlet grille adopts a streamlined design to optimize the airflow organization and reduce resistance and noise.

Silencing components

An efficient silencer is added inside the pipeline to effectively reduce the impact of the compressor's high temperature and high pressure gas on the pipeline, stabilize the gaseous refrigerant flow and reduce noise.

Low-noise blades

The ODU uses $\phi500\text{mm}$ super-large blades that feature aerodynamic design to avoid generation of vortexes and reduce wind resistance. The blades produce high air flow and low noise.



Intelligent Control

Filter cleaning reminder

The indoor unit has a filter cleaning reminder to ensure the filtering efficiency and maintain indoor air quality.

Power-on/off using hotel room card

The function of power-on/off by using the hotel room card is provided. When the room card is inserted, the indoor unit is powered on. When the card is removed, the indoor unit is powered off.

Power failure memory

The unit has the power-off memory function. After the power is restored, the unit automatically restores to the setting before power-off, thus saving the trouble of power-on for users. The function can be set to the manual mode.

Smart defrosting

The outdoor unit provides the function of smart defrosting, which is enabled only when necessary, thus minimizing indoor temperature fluctuations caused by frequent defrosting.

Control system

The control system implements both centralized control and group control over up to 16 units. It has a 7-day timer. Supported by the BACANET protocol, it can be directly connected to a building automation system.

Control panel

The new wired controller panel provides touch buttons and realizes multiple functions such as the display of PM2.5, temperature and humidity and can receive simple remote controller signals.









Automatically restore to status A



Ordinary defrosting TICA smart defrosting





Low Static Pressure Duct Unit





The low static pressure duct unit is equipped with the high-efficiency V-type heat exchangers with the symmetric design to realize stronger cooling and heating performance with a thinner and lighter body, minimizing the noise and installation dimensions to meet the needs of business users.

High efficiency product ==

R410A environment-friendly refrigerant with **level-1 energy** efficiency

R410a is environment-friendly refrigerant, with no damage to the ozone layer and high heat exchange performance, thus enhancing the unit performance and reducing the energy consumption.



The original 3-row ϕ 7 mm copper tube V-type heat exchanger features the large heat exchange area, high heat exchange efficiency, symmetric design of heat exchanger and uniform distribution of the wind field. The design of special auxiliary flow path maximizes the heat exchanger performance.

Adaptive various working conditions

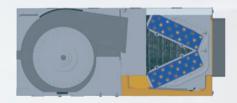
The cooling temperature range is 17° C ~ 43° C and heating range - 10° C ~ 21° C, which meets the requirements of indoor heating and cooling.

Super-large blades

The ODU uses $\phi500\text{mm}$ super-large blades that feature aerodynamic design to avoid generation of vortexes and reduce wind resistance. The blades produce high air flow and low noise.













Enjoy the Comfort ____

Round air flow

The reasonably designed supply air outlet and return air inlet form a stereoscopic four-dimensional surrounding air flow to provide a gentle breeze. The high air outlet design of heating and the maximum 30 Pa static pressure ensure omnidirectional coverage of the air flow and avoid the blind angle of air supply.

Smart temperature regulation

The indoor unit can adjust the room temperature according to the temperature detected at the return air inlet of unit and controller, meeting the needs of different customers.

Intelligent defrosting

Intelligent defrosting supports precise determination of ODU defrosting status and optimizes defrosting plans accordingly to create a better indoor door environment.

Enjoy fresh air in life

A fresh air inlet is reserved for the unit to introduce a maximum of 15% fresh air, making sure that the user can enjoy fresh oxygen-enriched air at home. One IDU can implement multiple functions including fresh air, temperature adjustment, humidity adjustment and purification.

Enjoy the quiet life

CFD optimized duct design, making air supply more gentle; Multi-wind wheel design, stabilizing the air flow;

With the external electric control box, the return air is more balanced;

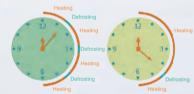
The guide ring imitates the design of airfoils to improve the balance.

Effective sound insulation

Three-layer silencer is used in the compressor to absorb, insulate and eliminate noise. LC porous sound-absorbing cotton is used. It features resistance to distortion and aging for insulation and sound absorption.







Ordinary defrosting TICA smart defrosting













20dB(A) Leaves fall to the ground

23dB(A) IDU silent operation mod

30dB(A) Library

40dB(A) Language lab

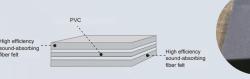
50dB(A) Office













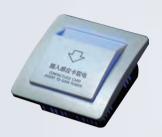
Intelligent Control _____

Power-on/off using room card

Designed for places such as hotels to work with the specially customized hotel room card; the controller can control the IDU freely when the room card is inserted; the IDU is powered off automatically and in the standby status when the room card is removed.

Fire control linkage

Designed for the public places, reporting the fire alarm linkage signal through the fire alarm control; able to stop the entire unit immediately in an emergency and reduce the risk loss.













The unit can be controlled via various means such as wired controller and remote controller. The control system implements both centralized control and group control over up to 16 units. It has a 7-day timer.





Wired controller



Remote controller TMC370A assembly

Control panel

Touch-type wired control panel provides touch buttons and a large display with a black background and white back light. It can display clearly at night and realize infrared remote control through the remote controller.



Power failure memory

The unit can remember the working status before the air conditioner is powered off and start the operation according to the remembered status after power resumption. The function can be set to the manual mode.





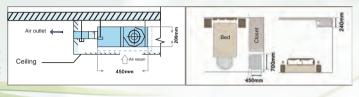


Automatically restore to status A

Convenient Installation —

Ultra-thin unit body can easily fit into the interior decor

TICA low static pressure duct units have a compact structure and elegant appearance. The body is only 200 mm thick, not only increasing the utilization rate of house space and ceiling height, but also improving comfort. The small depth of 450 mm applies to the bedroom of smaller depth.



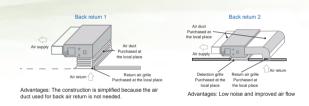
Left/right drainage, and less pipe bends

The user can freely choose left/right drainage according to site conditions. The drainage pipeline system is simple with less bends for smooth drainage.



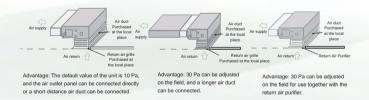
Free air return, adjustable on the field

The unique "high strength and low noise" design is adopted for the fan mounting plate, and the two flexible engineering installation methods of bottom return air and back return air can be implemented to meet different ceiling conditions and user requirements.



Multiple static pressures adapt to different installation conditions

The default static pressure of the unit is 10 Pa, and the air outlet panel or short-distance duct can be directly connected. The 30 Pa static pressure can be adjusted on the field, and the return air purifier or longer-distance duct can be selected. Various static pressures can meet the requirements of different sites.



Condensate water pump improves the drainage performance

The 1,100 mm condensate water pump can be selected to simplify the arrangement of pipes.







Thanks to the global leading compressor, the medium static pressure duct unit reaches the level-1 energy efficiency. The maximum static pressure reaches 100 pa, offering strong power to supply air. It can be widely used in shopping malls, restaurants, supermarkets and meeting rooms.

Energy-efficient solution ____

High-efficiency core

High-quality low-pressure cavity high-efficiency scroll compressor is used to provide strong power and resistance to liquid impact with high operating efficiency and long service life.

Grade-1 energy efficiency

The unit uses environment-friendly R410A refrigerant, which not only minimizes damage to the ozone layer, but also increases the heat exchange efficiency, thus improving the unit performance and lowering energy consumption to Grade 1.

Static pressure adjustable: 30/50/70/100Pa, adaptive to various conditions

Higher static pressure realizes the separation of the indoor unit and the air outlet and realizes multi-point long-distance air supply through the duct;

It can supply air evenly in L-type, T-type, U-type and other rooms of irregular shapes.















Elegant Design

Flexible air outlet

Depending on the decoration style and the owner's requirements, the air outlet can be freely adjusted from round, square diffuser to slotted air outlet which is both attractive and comfortable.

Low noise

The CFD simulated duct uses foam and muffler cotton to reduce noise to just 39 db at the lowest.

Flexible drainage

Use a suitable built-in pump to increase drainage capacity without affecting the ceiling height.

Invisible installation and elegant appearance

The indoor unit and duct are hidden in the ceiling and can fit into the interior decoration perfectly.

Intelligent Control

PTC auxiliary heater

The optional PTC auxiliary heater can ensure effective heating in winter depending on the outdoor operation conditions.

Power-on/off by plugging a room card

Thanks to the function of power-on/off using hotel room card, users can insert specially designed hotel room cards to control the indoor unit automatically and unplug it to power off the unit.

Power failure memory

The unit can remember the status before the air conditioner is powered off and start the operation according to the remembered status after power resumption.

Comprehensive control

The control system implements both centralized control and group control over up to 16 units. It has a 7-day timer.





High Static Pressure Duct Unit





The high static pressure duct unit can offer a maximum static pressure of 196 pa. With ducts distributed, the unit can be widely used in shopping malls, restaurants, supermarkets and meeting rooms.

Energy-efficient solution —

Powerful core

Use low-pressure-chamber and high-scroll compressor of an internationally renowned brand that features robust power.

Super-high static pressure

The maximum static pressure is 196 Pa in air outlet mode.

Super-high energy efficiency

The unit uses environment-friendly R410A refrigerant, which not only minimizes damage to the ozone layer, but also increases the heat exchange efficiency, thus improving the unit performance and lowering energy consumption to Grade 2.















Elegant Design =

Invisible installation

The indoor unit and duct are hidden in the ceiling and can fit into the interior decoration perfectly.

Flexible drainage

A suitable external pump can be used to increase drainage capacity without affecting the ceiling height.



Intelligent Control _____

PTC auxiliary heater

The optional PTC auxiliary heater can ensure effective heating in winter depending on the outdoor operation conditions.

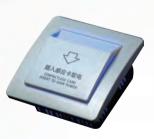


Power-on/off by plugging a room card

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Power failure memory

The unit can remember the status before the air conditioner is powered off and start the operation according to the remembered status after power resumption.









Automatically restore to status A

Controller



86*86 touch display Power on/off Temperature/Air Direction Cool/Dry/Fan/Heat/Auto Sleep/Timer It can receive remote control signals It can display PM2.5 Digital display of error codes

Wired controller



Centralized controller

Cloud smart centralized control system 8" colored LCD

Resolution 1280*800

Mode, fan speed, and temperature control

Temperature, humidity, and PM2.5 are displayed.

A maximum of 64 sets of units can be controlled in a centralized manner.

Control can be implemented based on a single unit/group or in a centralized manner.

Smart scene setting makes device time management possible.

Support WiFi connection to implement remote control.

Support fault alarming and remote analysis of faults.

Attractive and elegant appearance



Remote Controller

Power on/off Temperature/Air Direction Cool/Dry/Fan/Heat/Auto Sleep/Timer It can realize simple control on TMC370A



Attractive and elegant
The signal receiving angle reaches 120°.
It can display timer/energy saving/
defrosting/filter replacement and other
functions.

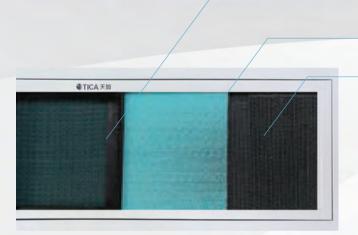
It can receive remote control signals

Remote controller receiver

Optional Return Air Purifier

Operating Principles

The pre-filter layer removes hair, dust, and large particles from the air; the professional PM2.5 filter layer adopts the unique electrostatic technology to remove PM2.5 from the air through physical adsorption measures, without causing ozone hazard; the capture agent on the formaldehyde filter surface shows a formaldehyde removal capacity more powerful than that of the traditional activated carbon net, and converts the formaldehyde in air into a kind of safe and harmless substance through chemical reaction, instead of releasing it into the room with air and without leading to secondary pollution because of excessive adsorption and heating.



Pre-filter layer

Pre-filtration of large particles in the air

PM2.5 filter layer

PM2.5 filter efficiency up to 96%

Formaldehyde filter layer

Formaldehyde filtration efficiency up to 90%





PM2.5 filtration efficiency reaches **96%** (in a cycle of 120 min)

PM2.5 filter

Low resistance: 8 Pa & 1 m/s, open channel;

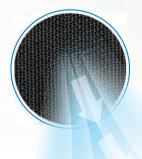
High efficiency: The unique electrostatic technology enables the static electricity on the filter to last for a period as long as 10 years.

Self-supporting structure, no frame is needed

100% synthetic fiber, resistant to moisture and general chemicals;

Environmentally friendly and fungus resistant;

The efficient formaldehyde filter layer achieves the effective aldehyde substance filtration efficiency of



Special glass fiber paper is processed to produce corrugated honeycomb substrate, and the filter layer is made through treatment of trapping agents adsorbing aldehydes.

The broad surface of porous carrier is uniformly laid with trapping agents to allow quick reaction with aldehyde group.

It is featured by strong adsorption capacity. The aldehyde substances are removed via treatment. No secondary release is caused due to excessive adsorption and heating.

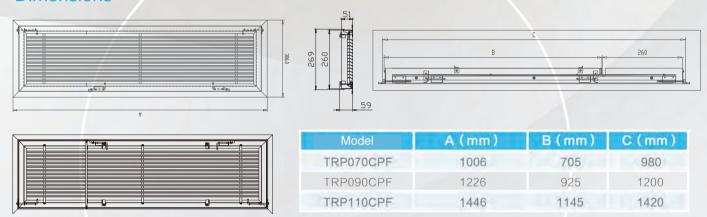
(In a cycle of 60 min)



Specifications

Model	TRP070CPF	TRP090CPF	TRP110CPF
Material		Aluminum alloy	
Color		White	
Rated air flow (m³/h)	560	750	1000
Air flow range (m³/h)	310-700	700-900	900-1100
Windward fan speed range (m/s)	0.6-1.36	1.02-1.31	1.05-1.28
Resistance range (Pa)	7-22.5	14.6-20.4	15.3-21.1
External dimensions (Length × Width × Height)/mm	1006×306×59	1226×306×59	1446×306×59
Area of windward side (L x W)/mm	672×214	892×214	1112×214
Area of installation (L x W)/mm	980×270	1200×270	1420×270
PM2.5 cycle (2h)	≥96%	≥96%	≥96%
Formaldehyde cycle (1h)	≥90%	≥90%	≥90%
Weight (kg)	3.1	3.7	4.4

Dimensions



Note: Based on the data in the table, the opening length of the ceiling is C+5mm and width is 275mm.

Precautions for installation and use

Before installation, drill holes on the beam. For details about the hole position, see the installation size diagram.

Canvas should be arranged surrounding the unit evenly and not folded or damaged to avoid air leakage.

It is recommended that the green layer of the composite filter be cleaned on a quarterly basis and replaced on a yearly basis.

It is recommended that the nylon filter be cleaned on a quarterly basis.

The temperature and humidity at the grille inlet must be within the permissible range.

Model	TRP070CPF	TRP090CPF	TRP110CPF
Nylon	914 × 214 × 5mm	1134 × 214 × 5mm	1354 × 214 × 5mm
Composite filter	672 × 214 × 15mm	892 × 214 × 15mm	1112×214×15mm

Temperature: 0°C-40°C Humidity: 30%-85%

Otherwise, the filter gets deformed easily, which affects efficiency and service life of the filter.

Technical Specifications

Purified cassette unit



	Entire unit	TSA/K20KR(D)Q	TSA/K30KR(D)QE2	TSA/K50KR(D)QE2	TSA/K50KR(D)QE3
Model	ODU	TSA20KRQ	TSA30KR	TSA50KR	TSA50KRT
	IDU	TSK20KR(D)Q	TSK30KR(D)QE2	TSK50KR(D)QE2	TSK50KR(D)QE3
Cooling capacity	W	5200	7200	12000	12000
Cooling power	W	1600	2380	3970	4100
Heating capacity	W	5800	8000	14000	14000
Heating power	W	1550	2300	4300	4300
Power supply		220V -	- 50Hz	380V 3N	to 50Hz
Type of auxiliary heater			PTC		
E heating capacity	W	1500	2100	2700	2700
Air flow	m³/h	960/780/660	1020/900/690	1800/1500/1200	1800/1500/1200
Noise of IDU	dB (A)	36/33/31	39/36/33	44/40/35	44/40/35
Noise of ODU	dB (A)	55	57	58	58
Dimensions of IDU-ODU connecting pipe	mm	12.7/6.35		15.88/9.52	
Max. pipe length	m	20	20	30	30
Max. level difference of pipe	m	10	10	10	10
IDU dimensions	mm	840×84	40×230	840×84	10×300
ODU dimensions	mm	865×310×700		980×39	0×1260
Net weight of IDU	kg	24.5		29).5
Net weight of ODU	kg	51	55	100	100
Dimensions of condensate pipe	mm	DN25	DN25	DN25	DN25

Low static pressure duct unit



	Entire unit	TSA/R10KR(D)C	TSA/R15KR(D)C	TSA/R20KR(D)C	TSA/R25KR(D)C	TSA/R30KR(D)CE1
Model	ODU	TSA10KR	TSA15KR	TSA20KR	TSA25KR	TSA30KR
	IDU	TSR10KR(D)C	TSR15KR(D)C	TSR20KR(D)C	TSR25KR(D)C	TSR30KR(D)CE1
Cooling capacity	W	2600	3500	5000	6500	7200
Cooling power	W	870	1220	1800	2100	2380
Heating capacity	W	2900	3800	5700	7200	8000
Heating power	W	860	1220	1800	2200	2200
ESP	Pa					
Power supply			220 V - 50 Hz			
Air flow (H/M/L)	m³/h	500/370/310	560/432/360	750/581/482	920/706/582	1000/800/680
E heating capacity	W	950	950	1500	1800	1800
Type of auxiliary heater				Ceramic PTC		
IDU sound level	dB (A)	33/28/23	33/28/24	35/30/28	36/32/28	37/32/29
ODU sound level	dB (A)	50	52	55	56	57
Max. pipe length	m	10	10	20	20	20
Max. level difference of pipe	m	5	5	10	10	10
IDU dimensions	mm	700×45	50×200	920×450×200	1140×4	50×200
ODU dimensions	mm		780×260×540		865×3	10×700
Panel	mm					
Dimensions of IDU-ODU connecting pipe	mm	φ9.52/φ6.35	φ12.7/φ6.35	φ12.7φ6.35	φ12.7/φ6.35	φ15.88/φ9.52
Dimensions of condensate pipe	mm	DN25	DN25	DN25	DN25	DN25

Medium static pressure duct unit



Entire unit	TSA/R50KR(D)BE1	TSA/R50KR(D)BE2	TSA/R60KR(D)BE2
ODU	TSA50KR	TSA50KRT	TSA60KRT
IDU	TSR50KR(D)BE1	TSR50KR(D)BE2	TSR60KR(D)BE2
W	12300	12300	14000
W	4150	4350	4900
W	14000	14000	16000
W	4250	4450	4850
Pa	50 (30 to 100)	50 (30 to 100)	50 (30 to 100)
		380V 3N to 50Hz	
m³/h	2100 (high wind speed 50 Pa)	2100 (high wind speed 50 Pa)	2400 (high wind speed 50 Pa)
W	3600 3600		3600
		Ceramic PTC	
mm	DN25	DN25	DN25
m	30	30	30
m	10	10	10
dB (A)	58	58	58
dB (A)	39~45	39~45	39~47
mm	980×390×1260	980×390×1260	980×390×1260
mm	1350×557×292	1350×557×292	1350×557×292
kg	100	100	108
kg	50	50	50
mm	9.52/15.88	9.52/15.88	9.52/15.88
	ODU IDU W W W Pa mm m dB (A) dB (A) mm mm kg	ODU TSA50KR IDU TSR50KR(D)BE1 w 12300 w 4150 w 14000 w 4250 Pa 50 (30 to 100) m³/h 2100 (high wind speed 50 Pa) w 3600 mm DN25 m 30 m 10 dB (A) 58 dB (A) 39~45 mm 980x390x1260 mm 1350x557x292 kg 100 kg 50	ODU TSA50KR TSA50KRT IDU TSR50KR(D)BE1 TSR50KR(D)BE2 w 12300 12300 w 4150 4350 w 14000 14000 w 4250 4450 Pa 50 (30 to 100) 50 (30 to 100) 380V 3N to 50Hz 380V 3N to 50Hz m³/h 2100 (high wind speed 50 Pa) 2100 (high wind speed 50 Pa) w 3600 3600 Ceramic PTC DN25 DN25 m 30 30 m 10 10 dB (A) 58 58 dB (A) 39~45 39~45 mm 980x390x1260 980x390x1260 mm 1350x557x292 1350x557x292 kg 100 100 kg 50 50

High static pressure duct unit



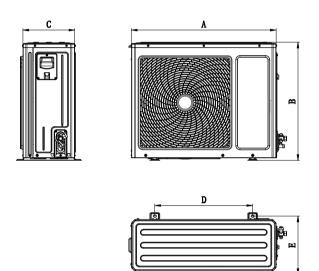
	Entire unit	TSA/R50KR(D)HE2	TSA/R60KR(D)HE2
Model	ODU	TSA50KR	TSA60KRT
	IDU	TSR50KR(D)HE2	TSR60KR(D)HE2
Cooling capacity	W	12300	14000
Cooling power	W	4300	5000
Heating capacity	W	14000	16000
Heating power	W	4250	4850
ESP	Pa	150 (196)	150 (196)
Power supply		380V 3N	l to 50Hz
Air flow	m³/h 2200 (high wind spee		2500 (high wind speed 150 Pa)
E heating capacity	W	3000	3000
Type of auxiliary heater		Ceram	ic PTC
Dimensions of condensate pipe	mm	DN25	DN25
Max. pipe length	m	30	30
Max. level difference of pipe	m	10	10
ODU sound level	dB (A)	58	58
IDU sound level	dB (A)	46~51	46~51
ODU dimensions	mm	980×390×1260	980×390×1260
IDU dimensions	mm	1200×750×390	1200×750×390
Net weight of ODU	kg	100	108
Net weight of IDU	kg	62	62
Dimensions of IDU-ODU connecting pipe	mm	9.52/15.88	9.52/15.88

Note: 1. The cooling capacity of the unit is obtained from the standard test under indoor dry/wet ball temperature of 27°C/19°C and outdoor dry/wet ball temperature of 35°C/24°C, and the heating capacity is obtained from the standard test under indoor dry/wet ball temperature of 20°C/15°C and outdoor dry/wet ball temperature of 7°C/6°C. The actual cooling/heating capacity may increase or decrease according to the changes of indoor and outdoor ambient temperatures and relative humidity.

^{2.} Some promotional data is obtained from TICA's national accredited labs. TICA reserves the final interpretation right of above data.

Dimensions - Purified cassette unit

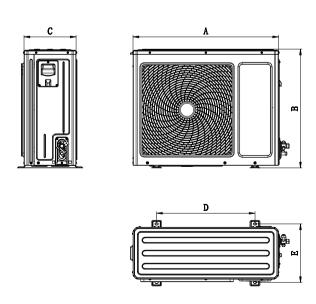
TSA20KRQ



	Model	Outer dimensions (unit: mm)				
		А	В	С	D	Е
	TSA20KRQ	865	700	310	585	350



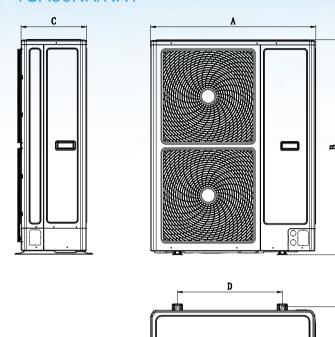
TSA30KR



Model	Outer dimensions (unit: mm)					
	Model	А	В	С	D	Е
	TSA30KR	865	700	310	585	350



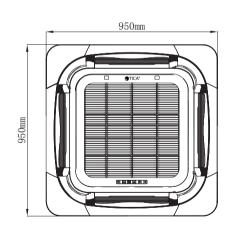
TSA50KR/KRT

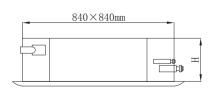


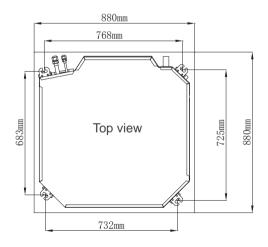
Model	Outer dimensions (unit: mm)				
iviodei	А	В	С	D	E
TSA50KR	980	1260	390	625	430
TSA50KRT	980	1260	390	625	430



TSK20KR(D)Q/TSK30KR(D)QE2/TSK50KR(D)QE2/TSK50KR(D)QE3





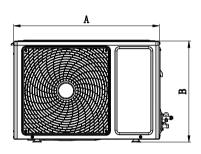


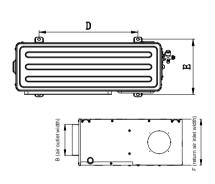
	Model	Outer dimensions (unit: mm)					
Model	TSK20KR(D)Q	TSK30KR(D)QE2	TSK50KR(D)QE2	TSK50KR(D)QE3			
	H 230		230	300	300		

Dimensions - Purified duct unit

Low static pressure duct unit



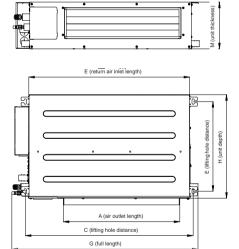




Model	Outer dimensions (unit: mm)						
	А	В	С	D	E		
TSA10KR	780	540	260	530	300		
TSA15KR	780	540	260	530	300		
TSA20KR	780	540	260	530	300		
TSA25KR	865	700	310	585	350		
TSA30KR	865	700	310	585	350		

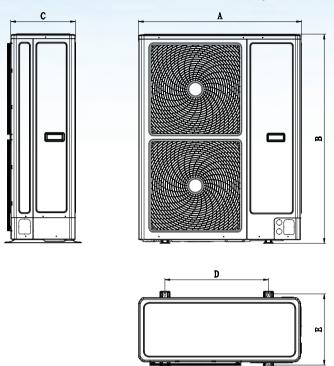






Model	Outer dimensions (unit: mm)									
Model	А	В	С	D	E	F	G	Н	М	
TSR10KR(D)C	510	135	730	390	700	200	810	450	200	
TSR15KR(D)C	510	135	730	390	700	200	810	450	200	
TSR20KR(D)C	730	135	950	390	920	200	1030	450	200	
TSR25KR(D)C	950	135	1170	390	1140	200	1250	450	200	
TSR30KR(D)CE1	950	135	1170	390	1140	200	1250	450	200	

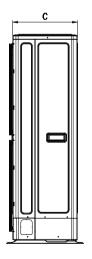
ODU dimensions - Medium static pressure duct unit

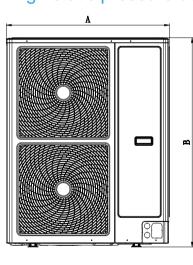


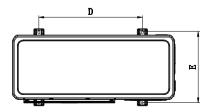
	Outer dimensions (unit: mm)								
Model	А	В	С	D	Е				
TSA50KR	980	1260	390	625	430				
TSA50KRT	980	1260	390	625	430				
TSA60KRT	980	1260	390	625	430				



ODU dimensions - High static pressure duct unit



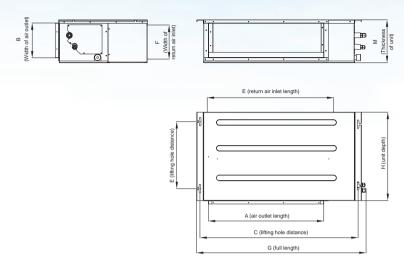




	Outer dimensions (unit: mm)								
Model	А	В	С	D	E				
TSA50KR	980	1260	390	625	430				
TSA60KRT	980	1260	390	625	430				

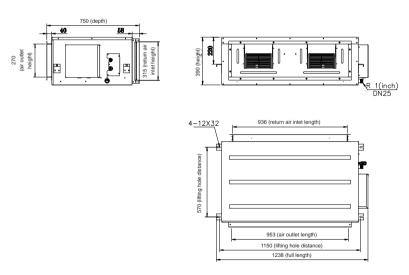


Medium static pressure duct unit



Model	Outer dimensions (unit: mm)									
	А	В	С	D	E	F	G	Н	M	
TSR50KR(D)BE1	1143	242	1390	329	1208	241	1458	557	292	
TSR50KR(D)BE2	1143	242	1390	329	1208	241	1458	557	292	
TSR60KR(D)BE2	1143	242	1390	329	1208	241	1458	557	292	

High static pressure duct unit



Model	Outer dimensions (unit: mm)								
	А	В	С	D	E	F	G	Н	М
TSR50KR(D)HE2	953	319	1150	570	936	270	1230	750	390
TSR60KR(D)HE2	953	319	1150	570	936	270	1230	750	390

Wide application

Internet bar



Indoor amusement park







Club

Snack bar





Restaurant

Supermarket





Date	Topic

Date	Topic

