



Climate control expert for all professional fields

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Airport solutions  
**Pre-Conditioned Air Unit**  
for aircraft








Climate control expert  
for all professional fields

  
**\$ 595 mil.**  
Sales revenue

  
**420,888 m<sup>2</sup>**  
Production area

  
**4000+**  
Staff

  
**30+**  
laboratories

  
**1000+**  
Engineers

  
**1200+**  
Patents

  
**2500+**  
Key projects

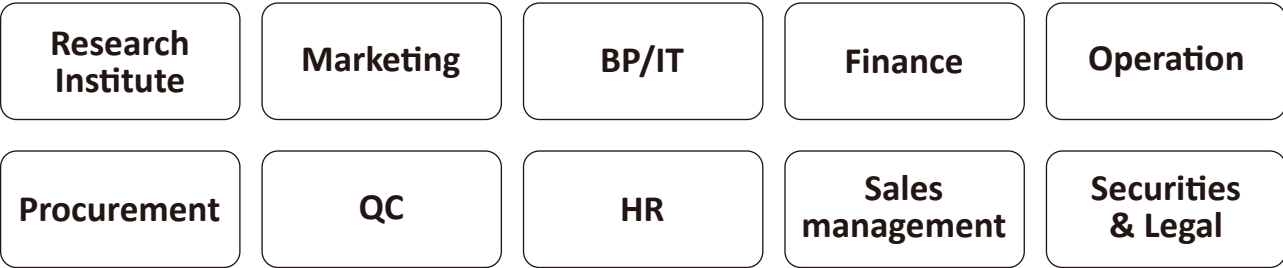




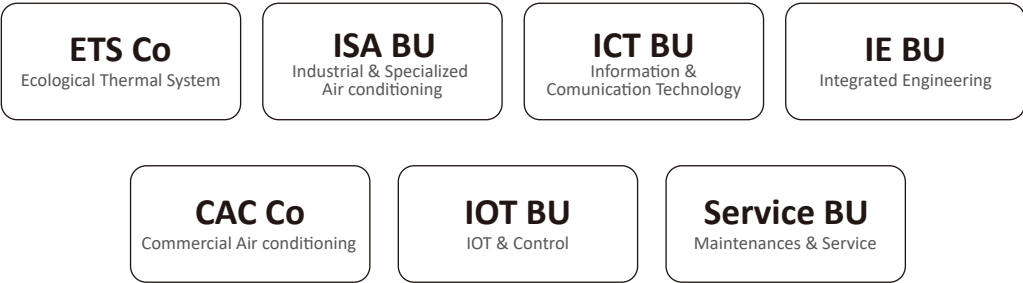
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# Shenling Group

## 10 functional departments



## 7 business units



## 5 sales organizations



# Milestones

1988

Shenling brand created  
Keep serving for industries  
with unitary AC chillers products



2000

Shenling corporation founded

2002

Three Gorges Hydropower Project



2005

Strategic cooperation  
with ThyssenKrupp



2003

Shenling Research Institute  
established

Guangdong Provincial  
Engineering Research Center

Shenling Postdoctoral  
Programme established

2007

Joint-lab with Siemens  
Beijing Capital International Airport



2012

New headquarter launched

ICT/IDC solution launched

National Enterprise  
Technology Center

Strategic cooperation  
with Huawei



2014

Production base II  
launched

2016

National Technological  
Invention Award



2017

China Patent Excellent  
Enterprise Award

Beijing Daxing  
International Airport



2021

I.P.O. in Shenzhen Stock Exchange  
Production base III launched



2018

National Technology  
Innovation Model  
Enterprise Award

2019

National Intellectual  
Property Model  
Enterprise Award

2022

Zero emission building  
launched

2023

Production base IV  
(Tianjin) launched

2025

Net zero emission  
factory to be  
launched



2024

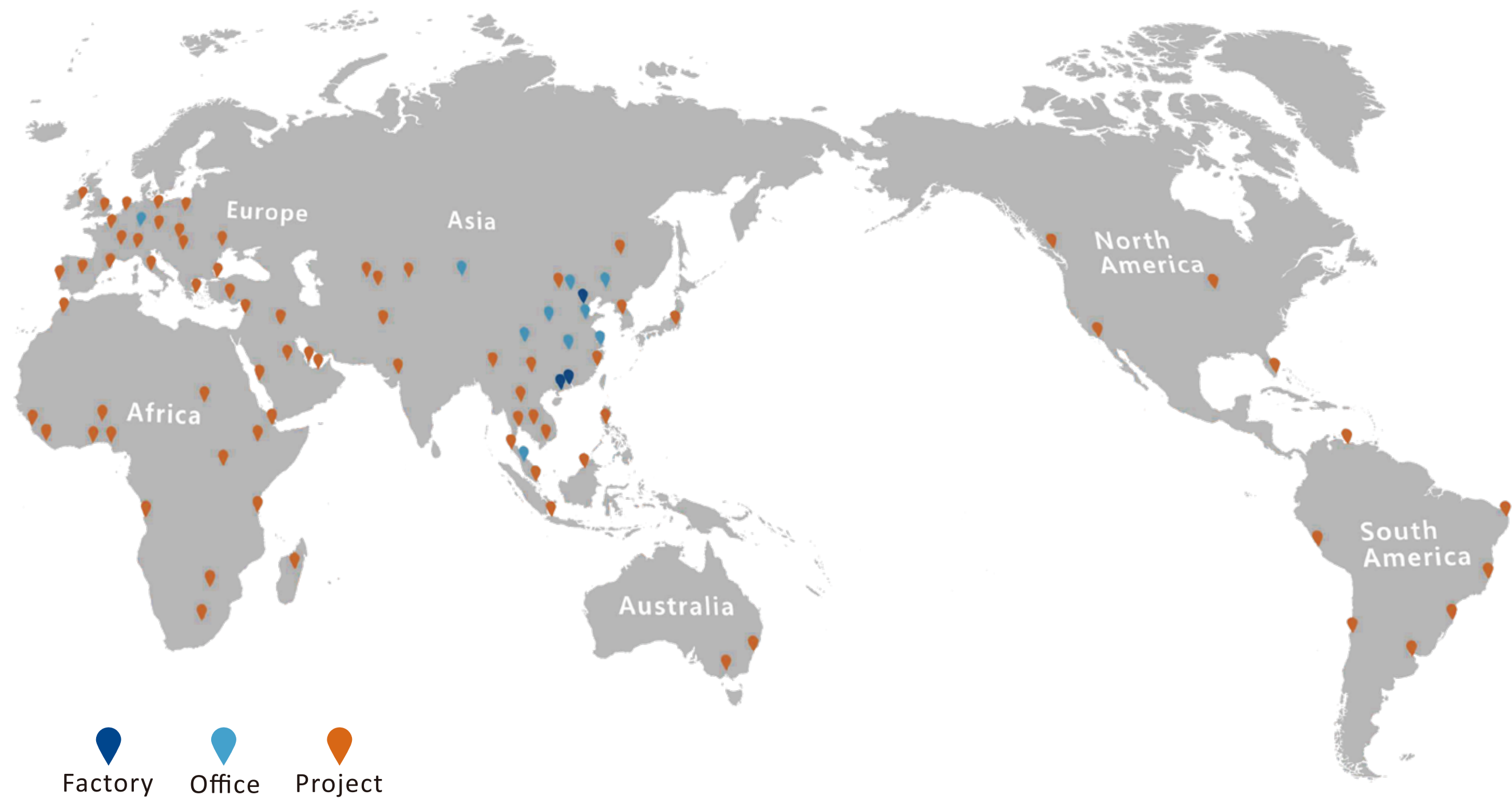
Production base II  
reconstructed & launched

Production base V  
(Gaozhou) construction  
started

Shenling Germany  
(Frankfurt) launched

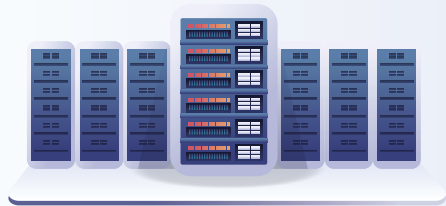


Global layout





# Application fields

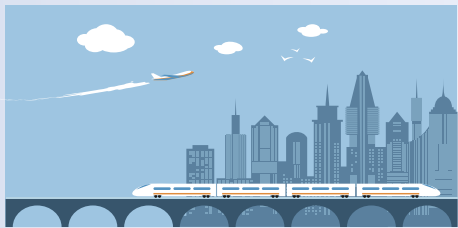


## ICT/IDC fields

- Cloud data center
- Supercomputing center
- Intelligent computing center
- Communication infrastructure
- Computer technology services
- Service room
- UPS & battery room

## Industrial fields

- Automobile factory
- Battery manufacturing
- Pharmaceutical
- Precision electronic instrument
- Food industry
- Cement
- Metallurgy



## Specialized fields

- PV/Wind power plant
- Hydro/thermal power plant
- Power grid converter station
- Energy storage cooling
- Nuclear power plant
- Aerospace
- Railway station
- Subway station
- Airport
- Hospital
- VOCs

## Commercial fields

- Shopping mall
- Hotel
- Stadium
- Library
- Theater
- Archives
- Exhibition hall
- University
- Office building



## Heat pump

- Residential heating
- Commercial heating
- District heating
- Energy management system

Climate control expert for all professional fields





# Shenling innovation system



# ESG

Environmental  
Social  
Governance

As a company, we recognise that our activities have an effect on the world we live in. For this reason, we have adopted a sustainable approach, focusing on three key areas in our activities: *environmental, social and governance.*





NZE 1.0

Zero emission building

Shenling Production Base III, launched in may 2022



Green power generated  
7,302,900 kW·h



Co<sub>2</sub> emission reduced  
2,966 tons



Energy saved  
611,700 kW·h



Energy cost saved  
€144,828

\*The above data represents annual benefits



► LEED Platinum Certification



► Zero emission building authentication (Design+Operation)



NZE 2.0

Zero emission factory

Shenling Production Base II, launched in may 2025



Green power generated  
**3,000,000 kW·h**



Co<sub>2</sub> emission reduced  
**1,884 tons**



Energy saved  
**303,965 kW·h**



Energy cost saved  
**€ 79,266**

\*The above data represents annual benefits







# Production system

Shenling has leading technology and excellent management team, first-class production facilities, and IOT management system, which build up a solid foundation for Shenling's reputation in HVAC field. Currently, Shenling has **over 420,888 m<sup>2</sup>** research and manufacturing bases with modern equipments. The total production capacity exceeds **1 billion USD**, which can meet the customers' demand with short lead time and good craftsmanship.



# Five production bases



# Glances in the workshop





# Testing center

Shenling has 3 testing centers to cover diversified product test items, including ETS Testing Center, HQ Testing Center and PBIII Testing Center, all built with the concept of digitalization by leading institutes, and equipped with top brand instruments and meters.



## ETS Testing Center

Intertek, SGS & TUV SÜD certified laboratories. All the laboratories were designed and constructed by top testing institutes, and can meet the testing requirements of EU and China standards, and the anti-explosion demand of combustible refrigerant e.g. R290. The testing ambient temperature range: -40°C~60°C, testing capacity range: 2kW~50kW.



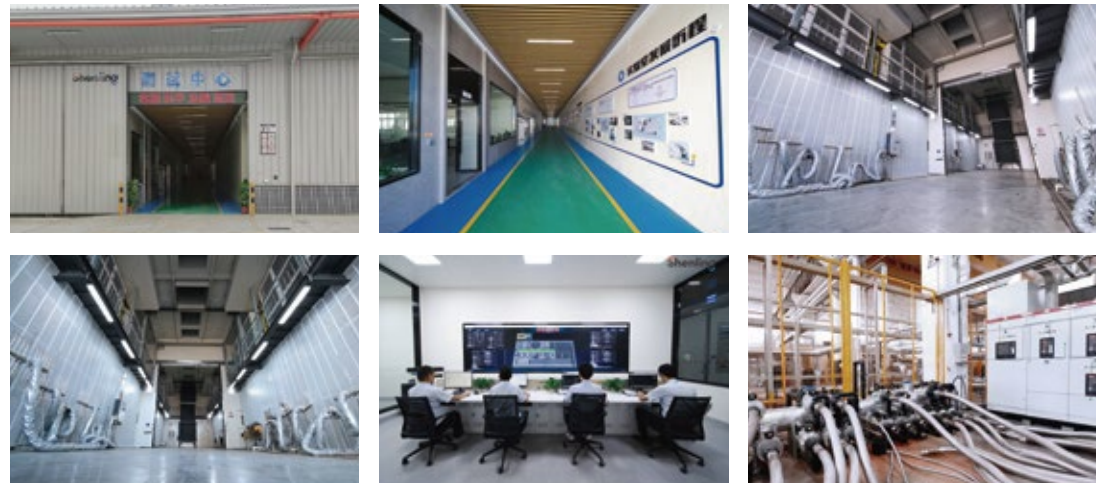
## HQ Testing Center

In total 8 labs, incl. enthalpy difference lab, water-cooled heat pump platform, air leakage rate testing device and transportation simulation tester with simulated test working condition -40-60°C , test capacity range 2-1800kW, air volume range 250~120,000 m³/h and 4 tons max load of transportation test.



## PB III Testing Center

In total 10 labs, incl. enthalpy difference lab, air cleanness ab, water-cooled heat pump platform, semi-anechoic lab, rotary dehumidifier lab, air volume testing device and high static pressure air leakage rate testing device, with simulated test working condition -30-60°C, test capacity range 6kW~ 1500RT and air volume range 1,500-240,000 m³/h.

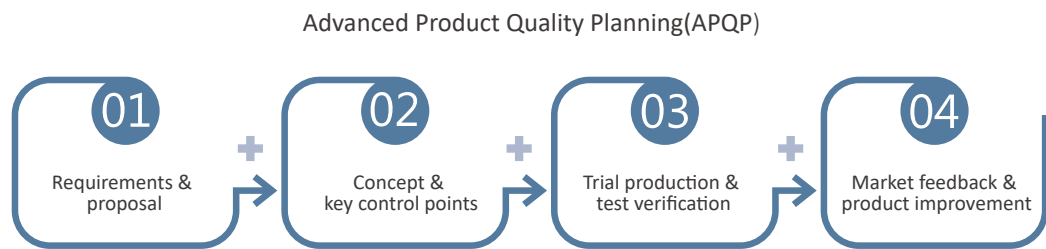


# Quality Control

Since its establishment in 2000, Shenling has been keeping building a strong technical and management team, and developing a diversified production mode. With years of stringent quaity control, Shenling has obtained a range of certifications, including ISO9001, ISO14001, ISO45001, CCC, CB, CRAA, GCCA, AHRI, etc.

## New product quality control

- Market/customer requirements identification, technical proposal review
- Leading the team to carry out DFMEA (severity, frequency, detectability)
- Problem identification & closing
- Problem summarization and identification improvement implementation



## Incoming components problem screening

### Parts laboratory

As the quality verification platform for technical evaluation and quality improvement of parts and compo-nents, parts laboratory provides incoming material inspection, systematic analysis of applied bad data, environmental adaptability/reliability verification and material failure analysis.

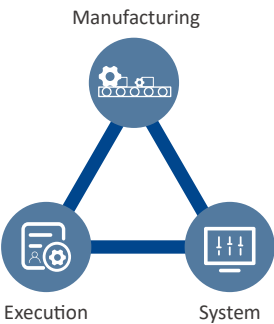


## Manufacturing process quality control

By establishing a product QCP and integrating it with the MES, key control points in the manufacturing process are managed effectively.

### IT-based management:

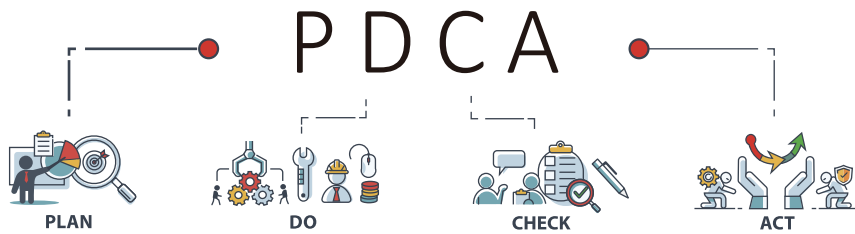
- Leveraging the MES for tracking data and information
- IT-based inspection for standardizing inspection procedures & preventing errors
- Displaying non-conformance judgments



## Quality improvement

Shenling has established quality management platform for continuous improvement. By focusing on VOC and VOB according to product demands and PDCA principles, and carrying regular specific activities such as QCC and quality projects, Shenling promotes continuous product quality improvement.

- Major quality improvement projects
- Rationalization suggestions, CAR forms, and non-conformance reports
- Establishing an integrated platform for after-sales service, customer follow-ups, and prompt responses.





# Technical & service support

## Technical Training

### Design & Application trainings

The design and application trainings for various products are basically for the sales personnel selling products in order to give them basic understanding about the main features.

### After sales-service trainings

These trainings are dedicated for after-sale/service personnels in order to better carry out the installation, commission and maintenance of the products. In Shenling training centers,the trainees have chances to solve malfunctions on real products, delicately prepared for each training.

## Training Center

The training centers provide hands-on experiences with various systems, components and controls to refresh and enhance the skills of our sales, design and installation and service teams.

### Factory Training Center

#### Shenling ETS Training Center

Address: No. 29, East Shunye Rd, Shunde, Foshan, China  
Products: air source heat pump, PVT, energy storage, specialized AC

#### Shenling HQ Traning Center

Address: Xinglong 10 Rd, Shunde, Foshan, China  
Products: centrifugal chiller, screw/scroll chiller and terminals, system design and engineering, IOT&smart control

### Regional Training Center

#### Malaysian Training Center

Address: A-5-7 Menara Prima Avenue (The Tube), Jalan PJU 1/37, Dataran Prima, 47301 Petaling Jaya, Selangor

#### German Training Center

Address: Room 0779, HdM, Frankfurter Str. 70-72, 65760 Eschborn

## Service Center

### Regional Service & Part Center

#### Shenling Environmental System(Malaysia)

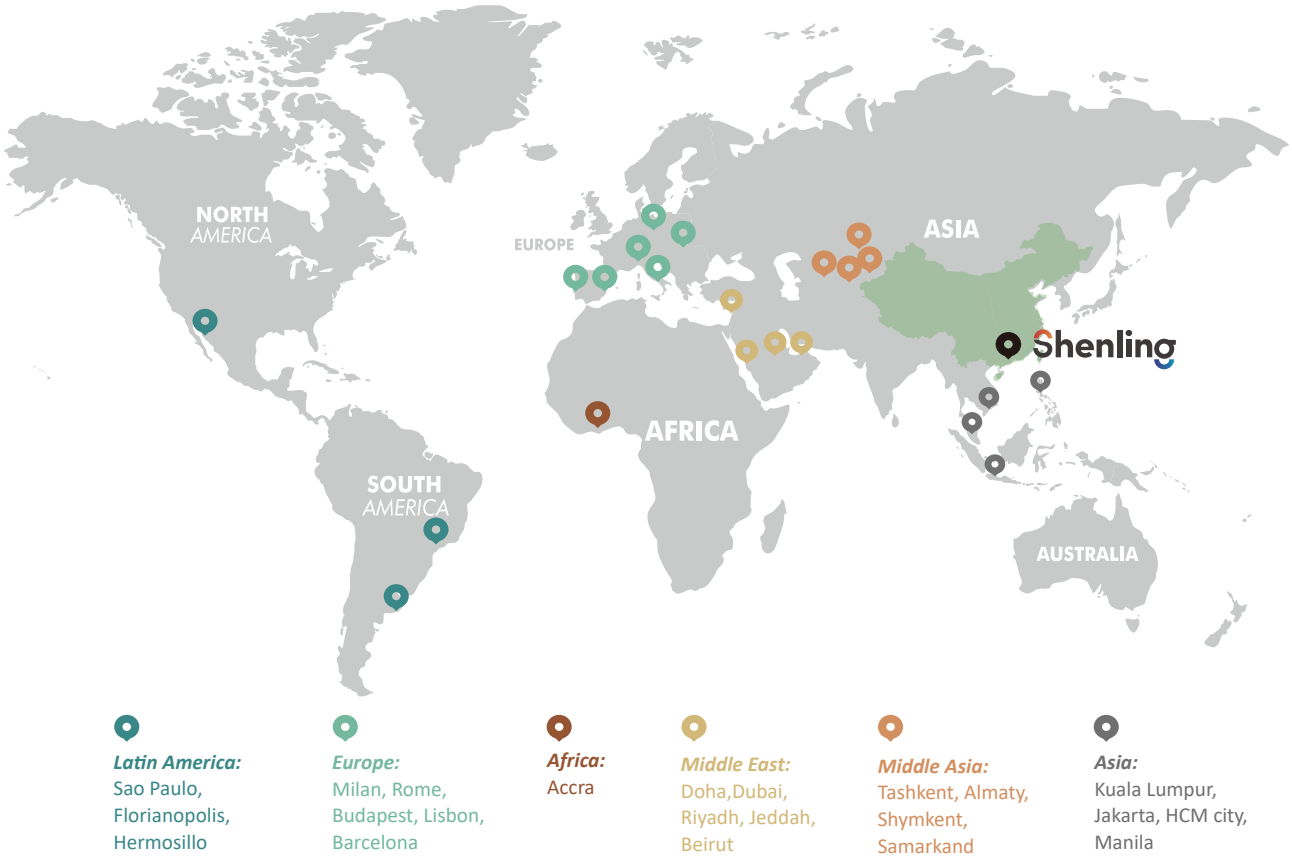
Address: A-5-7 Menara Prima Avenue (The Tube), Jalan PJU 1/37, Dataran Prima, 47301 Petaling Jaya, Selangor, Malaysia

#### Shenling Deutschland GmbH

Address: Room 0779, HdM, Frankfurter Str. 70-72, 65760 Eschborn, Germany



### Local Service Center





In the 21st century, the demand for environmental protection drives the continuous optimization of aircraft air conditioning systems, using environmentally friendly refrigerants and ground support equipment (such as aircraft ground air conditioning) to achieve environmental protection.



GPUs emerged in the mid-20th century to provide power to aircraft on the ground, supporting onboard systems, reducing reliance on APU, and lowering fuel consumption and noise. However, GPUs can only provide power, and aircraft air conditioning still needs to operate through onboard systems, resulting in certain energy conversion losses and complexity.



With the popularity of commercial jet aircraft, APU has begun to be widely used in commercial aviation. APU not only provides power for ground operations, but also serves as an important part of the air conditioning system, backup power source, and device for starting the main engine during flight.



In the 1950s, there were significant improvements in aircraft air conditioning systems, and airlines began using more efficient air conditioning systems to more accurately control the cabin temperature and improve comfort.



With the improvement of aircraft structure and performance, flight altitude and speed continue to increase. At the same time, with the danger of low temperature, low pressure and oxygen deficiency at high altitude, life support requires the cabin to be changed to an airtight cabin. The air conditioning system on the aircraft has emerged to ensure the normal operation of people and onboard equipment.



For a period of time since the Wright brothers manufactured their first airplane in 1903, open cockpits were used on airplanes, making it impossible to control the cabin environment.



## PCA

Pre-conditioned Air Unit

- High energy efficiency and low maintenance requirements, lower long-term operational costs.
- Low noise and low emissions, green solution for airport.
- Low energy consumption, better economic benefits.
- Rapid cooling with fresh air, better passenger comfort, short cabin preparation waiting.



## GPU

Ground Power Unit

- Power only for aircraft lighting, electric and electronic appliances.
- Unable to drive APU or PCA, unable to deal with the cabin cooling.
- Diesel engine has low efficiency, high cost, and most importantly air pollution.



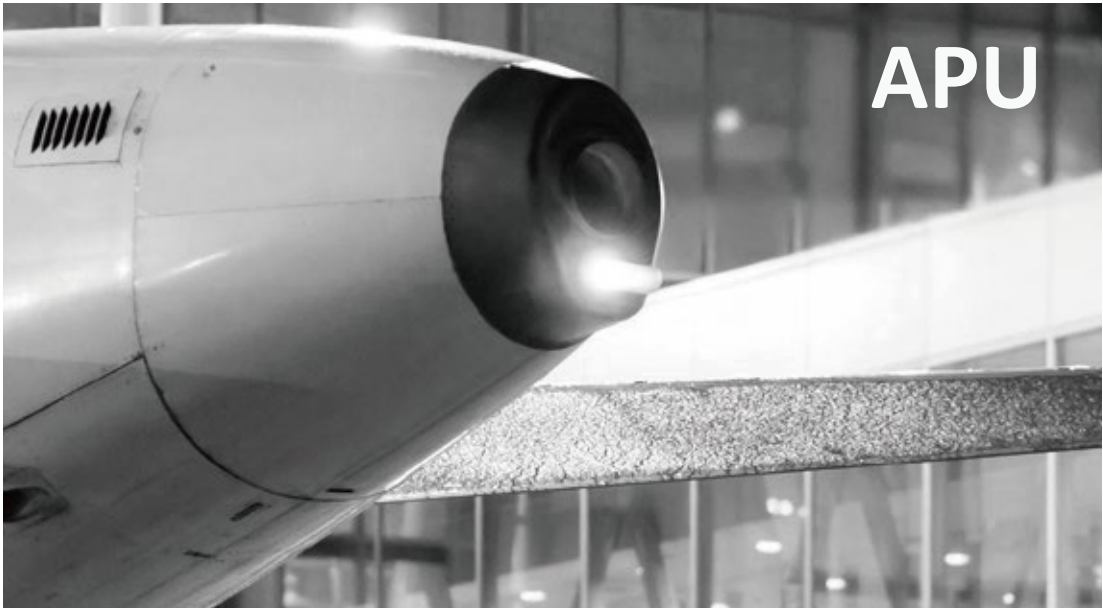
## APU

Auxiliary Power Unit

- Powered by aviation fuel, running cost is very high.
- Cooling through air compressing and condensing, cooling effect is poor.
- Generates noise, affecting cabin comfort.
- Generates emissions (CO<sub>2</sub>, NOX, etc) during operation, causing negative environmental impacts.
- Maintenance cost is high and easy to cause safety risks.





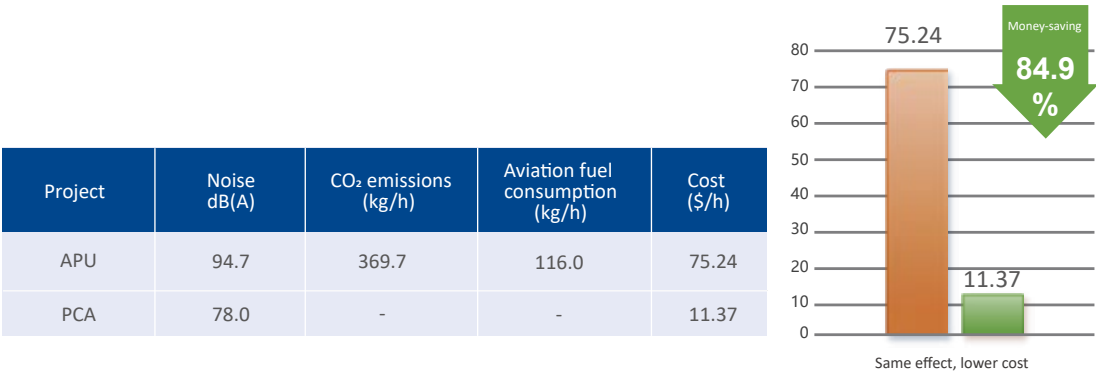


**Auxiliary Power Unit (APU)** is a small engine on an aircraft that provides essential power and pneumatic support when the main engines are off. During flight, the APU is typically not used for primary power but can serve as a backup emergency power source if needed, ensuring continued operation of critical systems in the event of a main engine failure. On the ground, it supplies electricity to the aircraft’s systems, and the air conditioning in the cabin through air compressing and condensing.

**PCA** improves cabin comfort during aircraft parking by its good cooling efficiency and good cooling effect. It also reduces economic costs through high energy efficiency and low maintenance costs, with good environmental benefits by reducing noise and significantly reducing carbon dioxide emissions. Comparison of APU and PCA as below.

Comparison		APU	PCA
Running Cost	Power source	Aviation fuel	Electricity
	Maintenance cost	High	Low
Comfort	Service lifetime	Short	Long
	Cooling speed	Slow	Rapid cooling
	Cooling effect	Poor	Good
Environmental Care	Noise	Large	Small
	CO <sub>2</sub> emissions	Heavy	None

**Pre-conditioned Air Unit (PCA)** is a specialized air conditioning device on the ground designed to provide fresh air that has been filtered, pressurized, dehumidified, and cooled (or heated) for aircraft cabins parked on the ground. These devices provide a comfortable cabin environment for passengers and crew members from the time the aircraft docks at the boarding bridge to the time it leaves the bridge.



Remarks:

1. When APU is running, the noise levels of B757 and B767 at 5 meters away from the tail is 94.7dB(A) and 89.4 dB(A) respectively. *APU noise data comes from Hangjia Technology.* The PCA noise of AC215 model is 78 dB(A), tested in the laboratory.

2. APU emission per ton of aviation kerosene consumed: CO<sub>2</sub>: 3187kg, SO<sub>2</sub>: 0.98kg, CO: 0.56kg, NOX: 21.12kg. *Data sourced from the International Air Transport Association.*

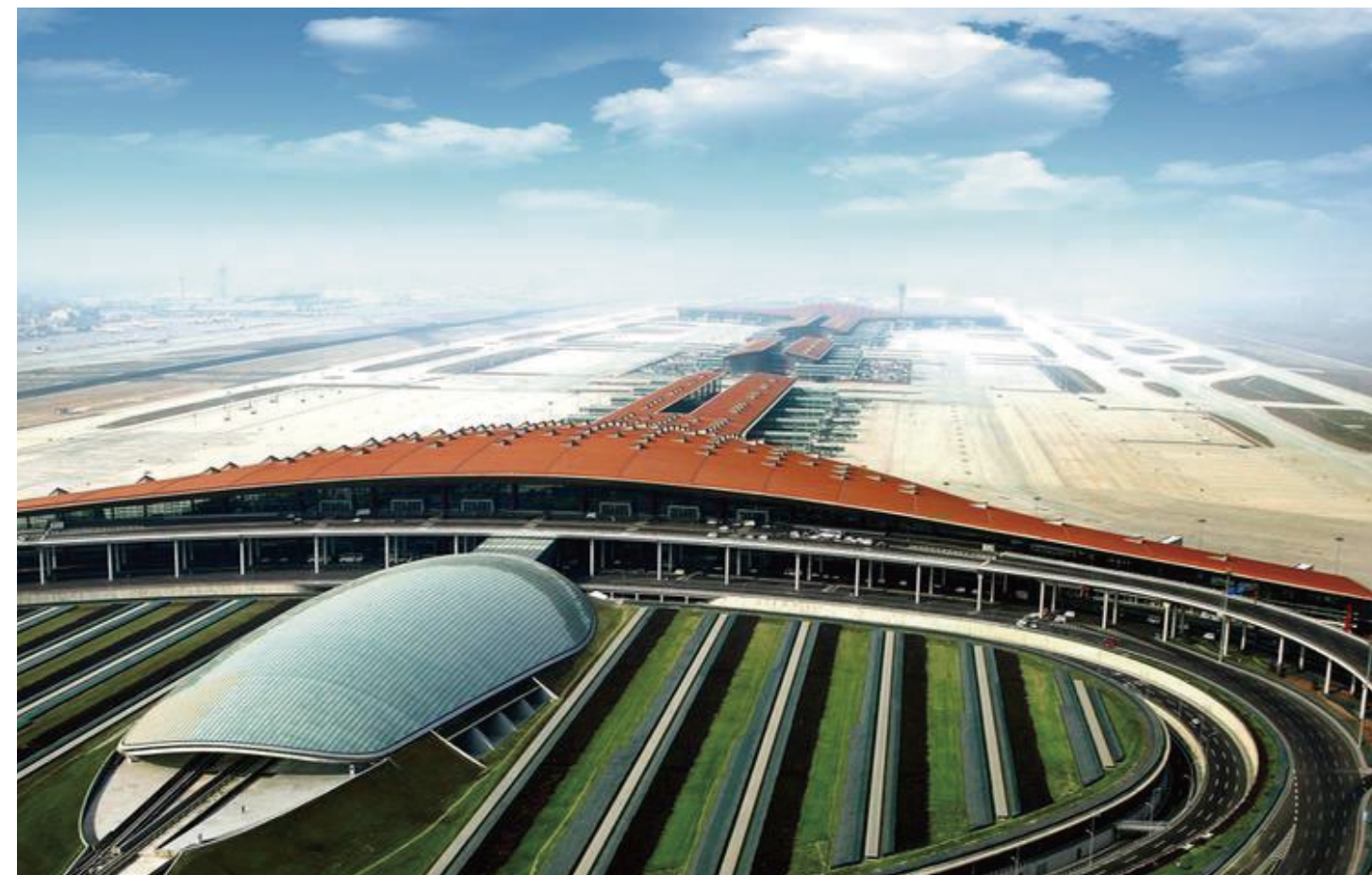
3. The fuel consumption and cost data of APU comes from Honeywell in the United States. Calculated based on an average of 648.6\$/ton of aviation fuel, the hourly fuel consumption cost of APU (with air conditioning) is 0.116 tons/h \* 648.6\$/ton =75.2\$. The cost of PCA is calculated based on industrial electricity consumption of 0.14 USD/kWh, and the cooling power consumption of AC215 model PCA is 81kW·h.





## *The first airport using PCA worldwide*

**Zurich Airport** is the world's first airport to widely and systematically apply PCA systems. This system is part of the airport's environmental management and sustainable development strategy. And its successful experience has provided reference for other airports.



## *The first airport using PCA in China*

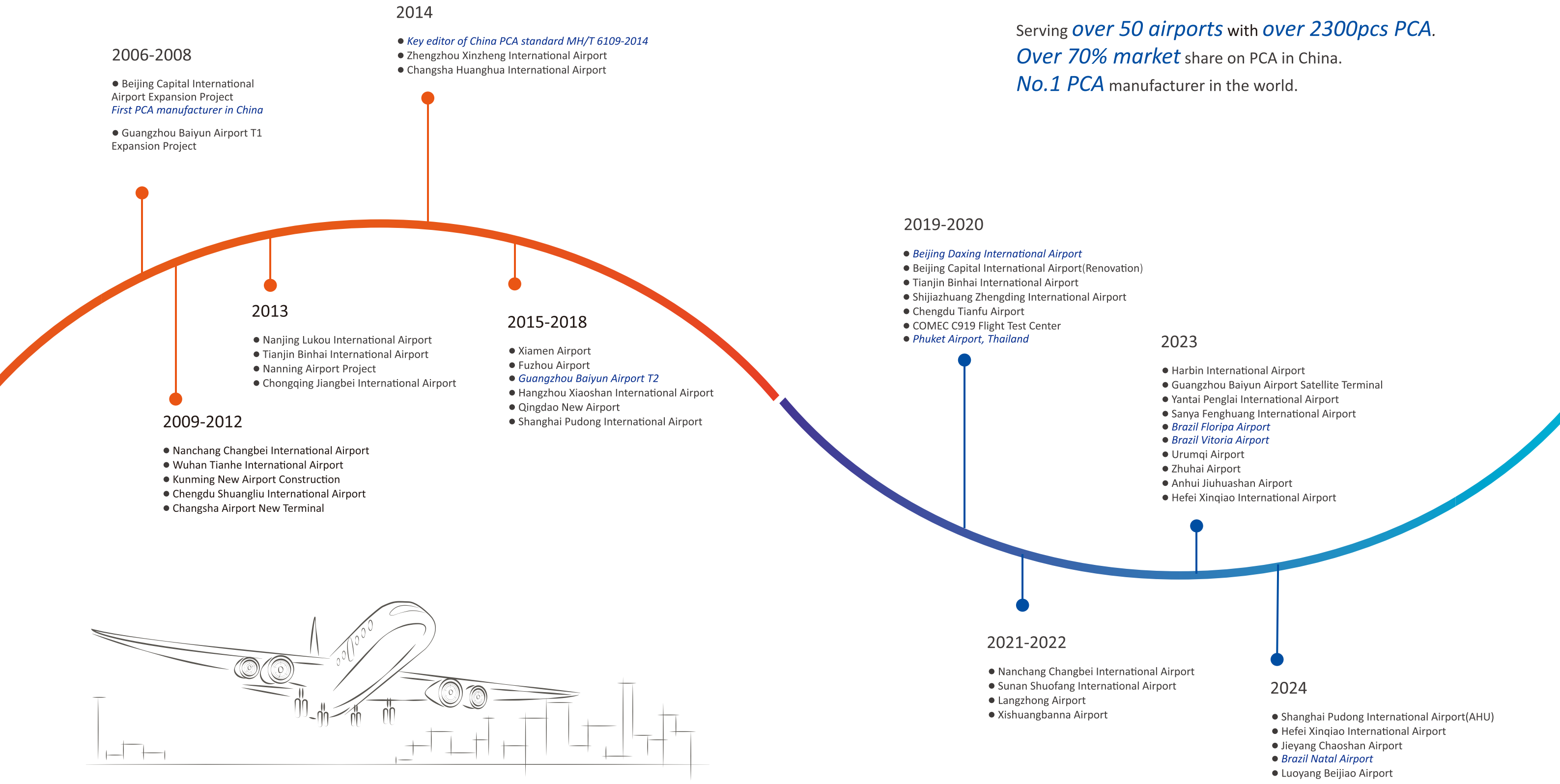
**Beijing Capital Airport**, launched in 2007, is the first airport adopting PCA for airplane cabin cooling. This project is aimed to welcome 2008 Beijing Olympic Games and installed 36 units in total, including 14 pcs of C-class units and 22 pcs of D-class units. All the PCA were from Shenling. All the PCA operated well and Shenling was chosen as the supplier again in the consequence tenders.





# Shenling PCA Milestone

Serving *over 50 airports* with *over 2300pcs PCA*.  
*Over 70% market* share on PCA in China.  
*No.1 PCA* manufacturer in the world.





# know HOW, know WHY

With robust technical strength of research and innovation as well as application experience, Shenling drafted over 30 standards of professional and special air conditioning, and joined in compilation of almost all national and industry standards related to industrial and commercial central air-conditioning products, acting as a technical benchmark to promote standardized development and advocate low carbon and environmental protection.

## National Standards drafted by Shenling

No.	Standard No.	Name
1	GB/T 19411-2003	Dehumidifiers
2	GB/T 19569-2004	Air conditioning unit for clean operating room
3	GB 19577-2004	The Minimum Allowable Values of the Energy Efficiency and Energy Efficiency Grades for Water Chillers
4	JB/T 10538-2005	Explosion-proof dehumidifiers and air conditioners
5	GB/T 20738-2006	Rooftop air conditioning unit
6	GB/T 18430.1-2007	Water chilling(heat pump) packages using the vapor compression cycle
7	GB/T 14294-2008	Central-station Air Handling Units
8	GB/T 19410-2008	Screw refrigerant compressors
9	GB/T 21362-2008	Heat pump water heater for commercial & industrial and similar application
10	GB/T 17758-2010	Unitary air conditioners
11	GB/T 19413-2010	Unitary air-conditioners for computer and data processing room
12	MH/T 6109-2014	Aircraft pre-conditioned air units
13	NB/T 35040-2014	Design Code for Heating, Ventilation and Air Conditioning of Hydropower Station
...	...	...

Key editor of China PCA national standard *MH/T 6109-2014*.

### Scope of application

### Technical requirements

#### 01 Adaptation to the environment

- Temperature & humidity
    - T1: high temperature drying
    - T2: high temperature & low humidity
    - T3: high temperature & moderate humidity
    - T4: high temperature & high humidity
- Wind speed
    - C-5500m³/h A318、A319、A320、A737
    - D-8100m³/h A300、A310、A757、A676
    - E1-15860m³/h A330、A340、A747、A777、A787
    - E2-12000m³/h A380

#### 02 Performance requirements

#### 03 Electrical requirements

### Safety & reliability

- 01 Material requirements
- 02 Corrosion resistance
- 03 Mechanical strength
- 04 Operating lifespan

### Testing method

#### 01 Test conditions

- Dry bulb temperature on the evaporator side
  - Relative humidity on the evaporator side
  - Dry bulb temperature on the condenser side
- Power supply
  - Air volume
  - Static pressure

#### 02 Test project

- Start operation
  - Air tightness of refrigeration system
  - Airflow, external static pressure, input power
- Customized cooling capacity
  - Maximum cooling operation
  - Minimum cooling operation
  - Noise

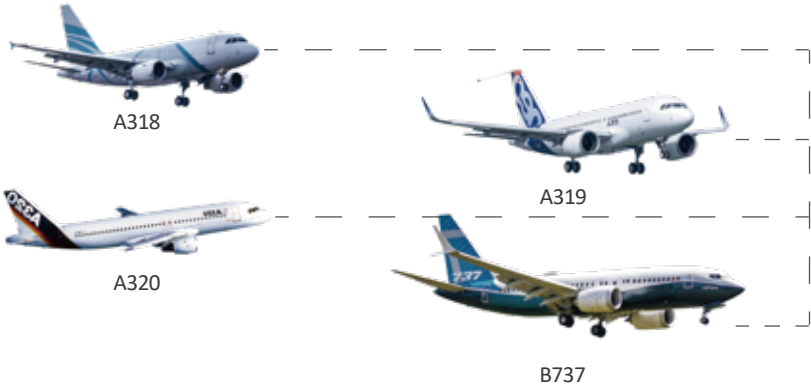
### Maintenance & overhaul

#### 01 Testing standards



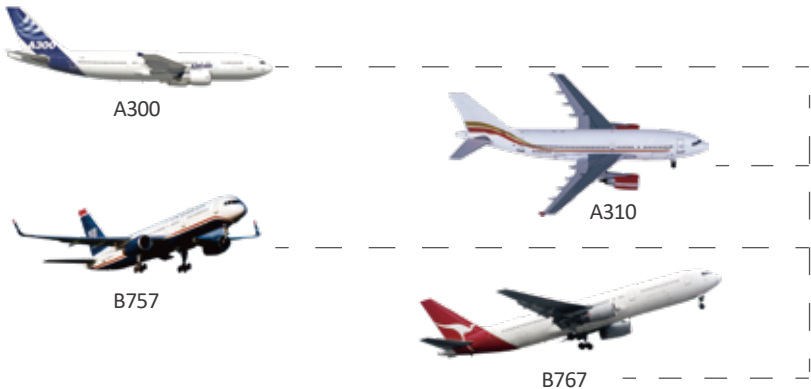
The Aircraft Type & Product Code

Class C



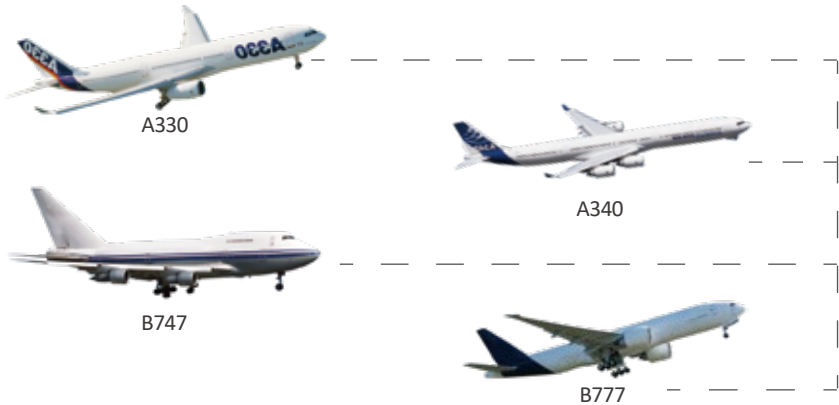
One Set AC215X

Class D



One Set AC315X

Class E



One Set AC385X

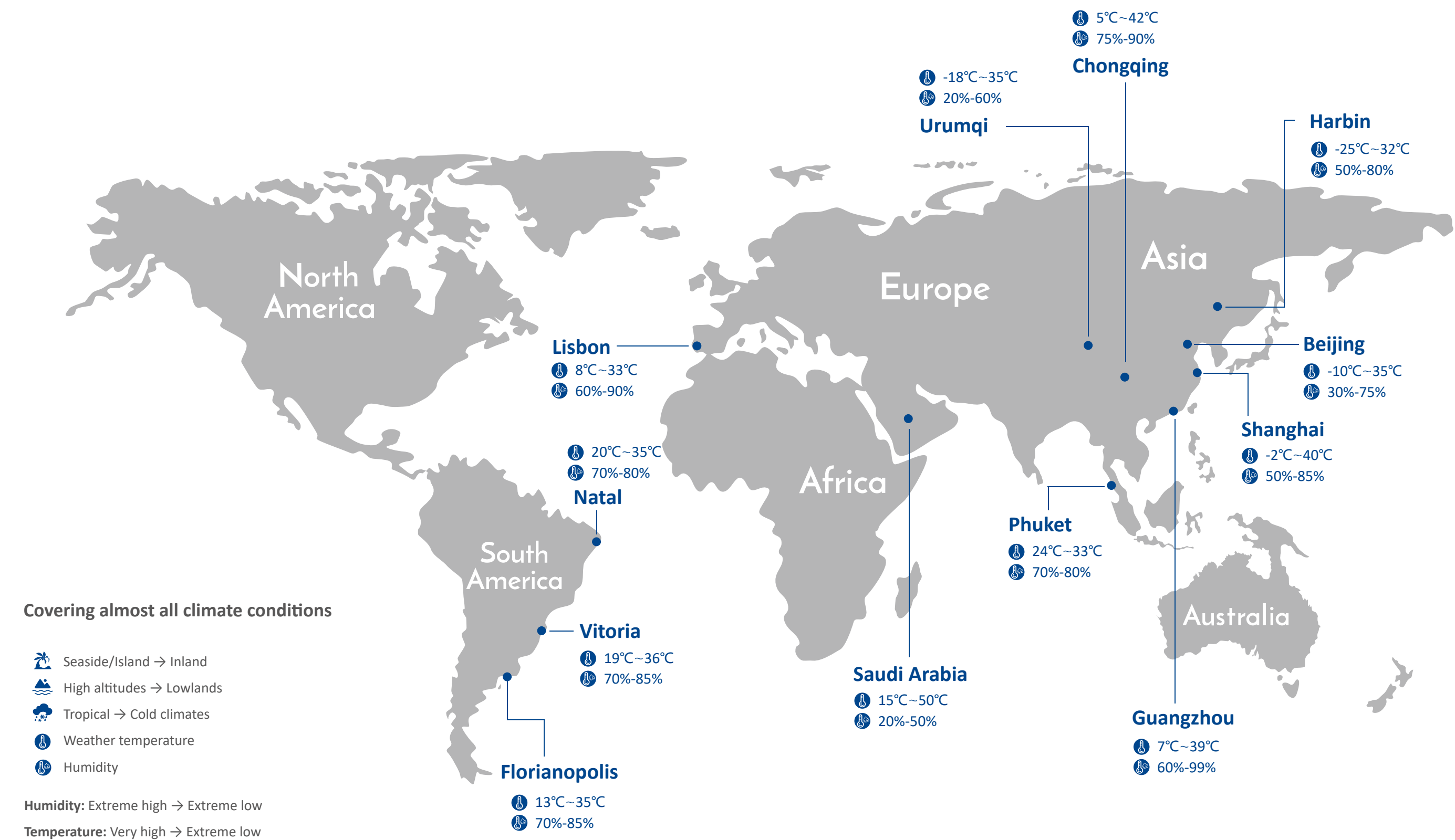
Class F



Two Set AC315X



# Multiple application





# Continuous R&D

Revolution of Shenling PCA Technology.

2023~Now



- DC inverter PCA, the 1st in the industry
- Variable frequency control (fan + compressor)
- PCB refrigerant cooling technology
  - Frost inhibiting technology
  - $\pm 1^{\circ}\text{C}$  temperature control
  - Higher energy efficiency

2017~Now



- Low-temp. evaporative chiller +high-pressure fresh air AHU
- COP > 3.5, highest in the industry
- Innovative energy-saving applications in the industry

2006~2016



- 1st generation of DX PCA
- The 1st PCA manufacturer in China
- COP is appr. 1.6

2019~Now



- Cold storage PCA
- COP  $\geq 3.95$
- Continuous technological innovation to serve green airport

2017~Now



- 2nd generation of DX PCA
- COP > 2.15, the highest in the industry
- With comprehensive performance optimization & improvement



## 01. Rapid cooling

In the typical condition, PCA can reach full output within 30s after startup and cool down the cabin in 3 min, which can largely shorten the traditional cooling time and improve passenger comfort.



## 04. High adaptability

The unit offers customized services to handle various operating conditions such as high altitude, high salt spray, and high temperature and humidity environments.



## 02. Energy saving

The unit contains 4 to 6 of compressors and refrigerant circuits, which can more precisely adjust the running load based on the air supply situation, thereby improving the energy efficiency ratio.



## 05. Easy maintenance

The unit is designed with 3-dimensional piping and wiring layout, with strong sense of keeping maintenance space inside. It can facilitate maintenance, avoiding the need to disassemble the unit before repairs and reducing maintenance time.



## 03. Smart control

The unit can be equipped with an IoT platform, connecting the unit with the management system to enable remote monitoring, intelligent billing, real-time data updates.



## 06. High reliability

The entire product line adheres to the highest quality standards, with reliable core components to avoid frequent replacement and reduce maintenance costs.



# Product features & advantages



## Rapid cooling

### Four-stage rapid cooling

- Aircraft not air-conditioned yet  
Startup to fully loading      30s  
Cool down to set temp.2℃    3min  
Cabin temp. to 18~24℃      15min
- Aircraft already air-conditioned  
Cabin Temp 18~24℃, switching to PCA  
Startup to normal cooling      3min



Guangzhou Baiyun Airport T2 Real Data  
Ambient temp. 37℃, Humidity 75%, Jul.12, 2023

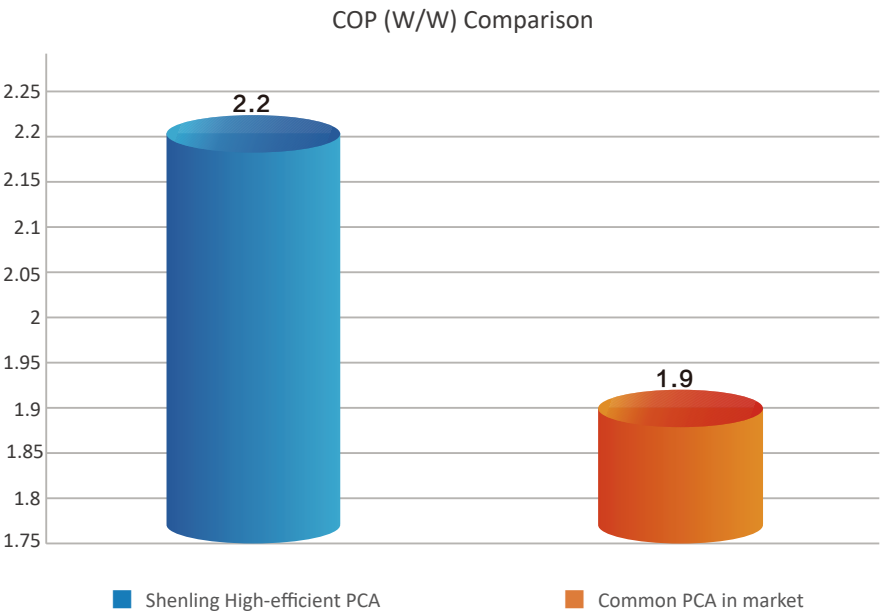






## Efficient & energy-saving

Shenling PCA excels in energy efficiency and performance, leading the industry with its high-efficiency, stable and reliable operation precise control, quiet and comfortable operation, and environmental and health benefits.



## Easy maintenance

Large inside which can allow the engineer have internal checking and maintenance.

Most of the troubles (over 90%) are small and easy to repair or maintain. If engineer can go inside to operate, troubleshooting can be easily showed on site, no need to disassemble a lot, save much time for the operators.



## High adaptability

### ● Flexible applicable climate

Shenling PCA offers products tailored to various climate conditions worldwide, including high-temperature and high-humidity environments, extreme cold environments, high-altitude and windy environments, and coastal areas prone to salt corrosion.

### ● Multiple power supply

The power supply can be selected based on the usage location, including 380V/50Hz, 380V/60Hz, 400V/50Hz, 400V/60Hz, 415V/50Hz, 460V/60Hz, etc.

### ● Flexible working temperature

Shenling PCA is available in a standard temperature range, and we also offer specialized products for low-temperature environments to meet the requirements of different regions.

### ● Various installation type

Shenling PCA available in various installation modes, including bridge mounted, floor standing, mobile, vehicle-mounted, etc. It can be installed below passenger boarding bridges or placed directly on the apron. For remote parking positions, mobile type can be used.



## Automatic hose reel (optional)

- Automatic winding and rewinding
- Remote control
- Fast and easy hose reclaim, labor saving
- Interlocking control for fully extending and retracting the air supply hose
- Interlocking function with the boarding bridge and PCA;
- Motor power  $\leq 0.55\text{kW}$ .



Floor-mounted



Bridge-mounted

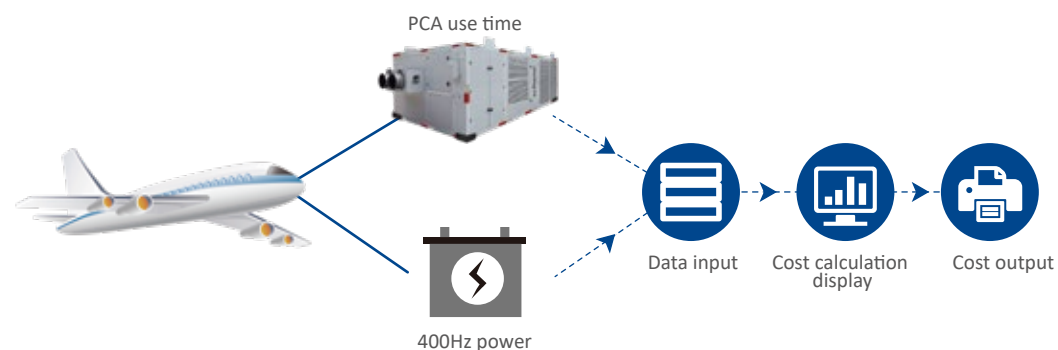


China invention patent

## 6 Online Diagnosis

### ● Online Diagnosis

Intelligent and interconnected billing system  
Automatic cost calculation through computer control  
Enhanced humanized operations to make data more objective.



### ● WIFI control

Real-time data monitor and diagnosis remotely through laptop or mobile phone  
Quick response and shorter troubleshooting time



## 7 Patented Low-loss Hose

Traditional air supply hoses have high air leakage rates and significant temperature rises, resulting in significant losses in PCA cooling capacity and airflow during transport. Shenling uses proprietary air supply hoses with superior performance to improve energy efficiency.

### ● Low leakage rate

Shenling air hose leakage rate  $\leq 0.1\%$   
Traditional hose leakage rate 15-20%  
Heat loss rate  $0.05^{\circ}\text{C}/\text{m}$   
Previous rate  $0.3^{\circ}\text{C}/\text{m}$

### ● Length adjustable

Zipper designed hose, with adjustable



## 8 Pre-cooling & heating

### ● PCA Pre-cooling&heating supply

Bypass valve (Optional function)  
Prestart PCA to save startup time to full loading. Bypass valve will be closed after the aircraft is connected and air valve to aircraft is opened.

### ● Bridge pre-cooling&heating supply

Cooled/heated air can be sent to the bridge through bypass valve before aircraft connected.

### ● Benefits :

Fast cooling for the aircraft.  
Pre-cooling/heating for the boarding bridge, reduce AC investment for boarding bridges.







## Products Category



Bridge-mounted type



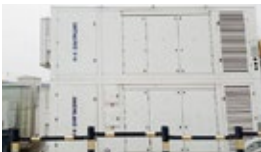
Floor-standing type



Mobile type



Vehicle-mounted type:  
Self-powered



Hybrid type (Chiller+Terminal)



## Specifications

Working Condition		T1	T2	T3	T4	T1	T2	T3	T4
Model		AC215	AC215	AC215	AC215	AC315	AC315	AC315	AC315
Cooling Capacity	kW	132	157	175	193	225	250	275	300
Heating Capacity (Optional)	kW	0~130	0~130	0~130	0~130	0~190	0~190	0~190	0~190
Rated Air Supply Volume	m³/h	4500~6000	4500~6000	4500~6000	4500~6000	4200~8100	4200~8100	4200~8100	4200~8100
External Static Pressure	Pa	0~7400	0~7400	0~7400	0~7400	0~7400	0~7400	0~7400	0~7400
Cooling Air Supply	℃	≤2℃							
Heating Air Supply	℃	20~60							
Working Condition	℃	-40~50							
Power Input	kW	65	73	81	89	102	115	127	138
Dimension	L(mm)	4050	4050	4050	4050	4500	4500	4500	4500
	W(mm)	2400	2400	2400	2400	2400	2400	2400	2400
	H(mm)	1340	1340	1340	1340	1680	1680	1680	1680
Air Supply Outlet Size	Inch	14"	14"	14"	14"	14"	14"	14"	14"
Noise Level	dB(A)	78	78	78	78	81	81	81	81
Net Weight	kg	2900	2900	2900	2900	3600	3600	3600	3600

- Note:
1. Power supply: 3N~380V 50Hz.
  2. The unit above is the electric heating type. For cooling only type, simply remove the electric heating device.
  3. The weight does not include the weight of the trailer or vehicle chassis.
  4. AC385A series consists of two units of 315 series.
  5. The above parameters represent the standard product data and can be customized based on specific requirements of the project or engineering.
  6. This product adopts refrigerant R410a.

Performance Parameters

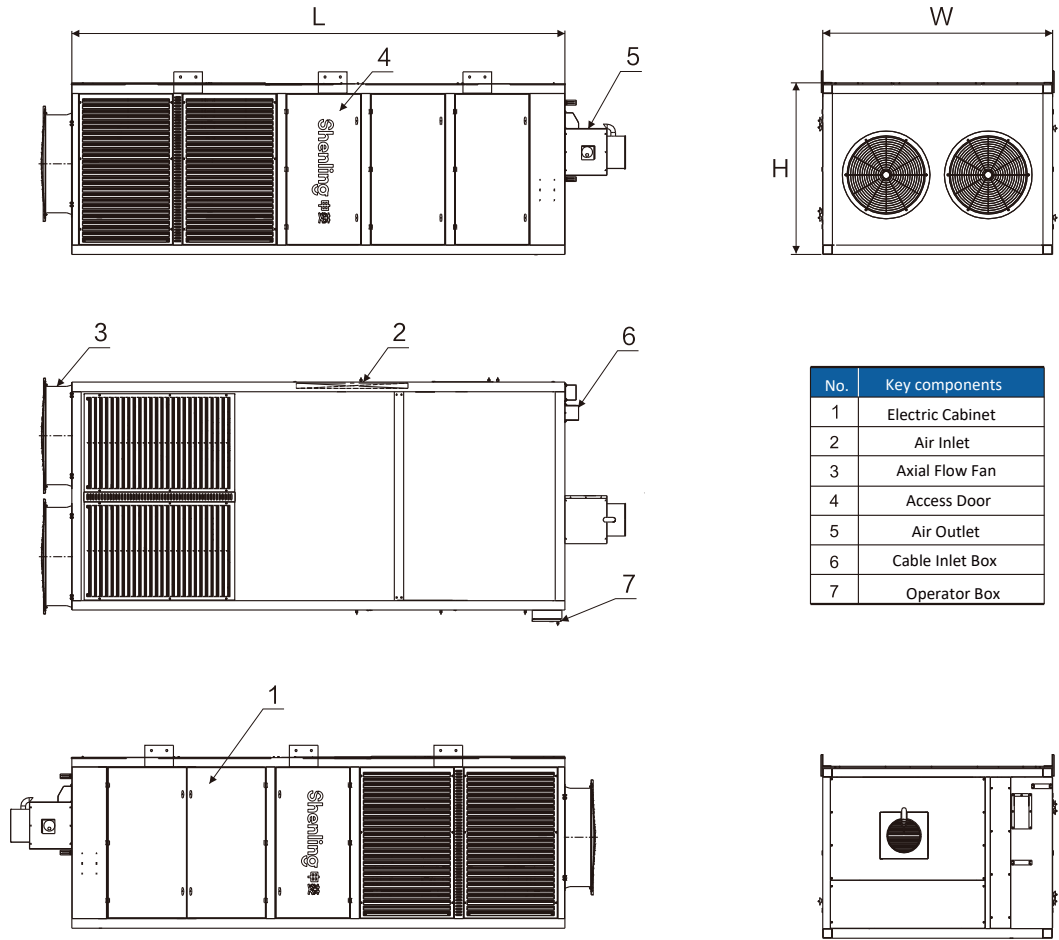
Working Condition		T1	T2	T3	T4	T1	T2	T3	T4
Model		AC385	AC385	AC385	AC385	AC385A	AC385A	AC385A	AC385A
Cooling Capacity	kW	280	320	350	380	450	500	550	600
Heating Capacity (Optional)	kW	0~260	0~260	0~260	0~260	0~380	0~380	0~380	0~380
Rated Air Supply Volume	m³/h	4200~12000	4200~12000	4200~12000	4200~12000	4200~15860	4200~15860	4200~15860	4200~15860
External Static Pressure	Pa	0~7400	0~7400	0~7400	0~7400	0~7400	0~7400	0~7400	0~7400
Cooling Air Supply	℃	≤2℃							
Heating Air Supply	℃	20~60							
Working Condition	℃	-40~50							
Power Input	kW	138	151	162	176	102 × 2	115 × 2	127 × 2	138 × 2
Dimension	L(mm)	5350	5350	5350	5350	4500 × 2	4500 × 2	4500 × 2	4500 × 2
	W(mm)	2450	2450	2450	2450	2400 × 2	2400 × 2	2400 × 2	2400 × 2
	H(mm)	1680	1680	1680	1680	1680	1680	1680	1680
Air Supply Outlet Size	Inch	14" × 2	14" × 2	14" × 2	14" × 2	14" × 2	14" × 2	14" × 2	14" × 2
Noise Level	dB(A)	84	84	84	84	85	85	85	85
Net Weight	kg	4700	4700	4700	4700	3600 × 2	3600 × 2	3600 × 2	3600 × 2

Note:

1. Power supply: 3N~380V 50Hz.
2. The unit above is the electric heating type. For cooling only type, simply remove the electric heating device.
3. The weight does not include the weight of the trailer or vehicle chassis.
4. AC385A series consists of two units of 315 series.
5. The above parameters represent the standard product data and can be customized based on specific requirements of the project or engineering.
6. This product adopts refrigerant R410a.

Unit Outline Drawing

01. Bridge-mounted Unit Outline Diagram

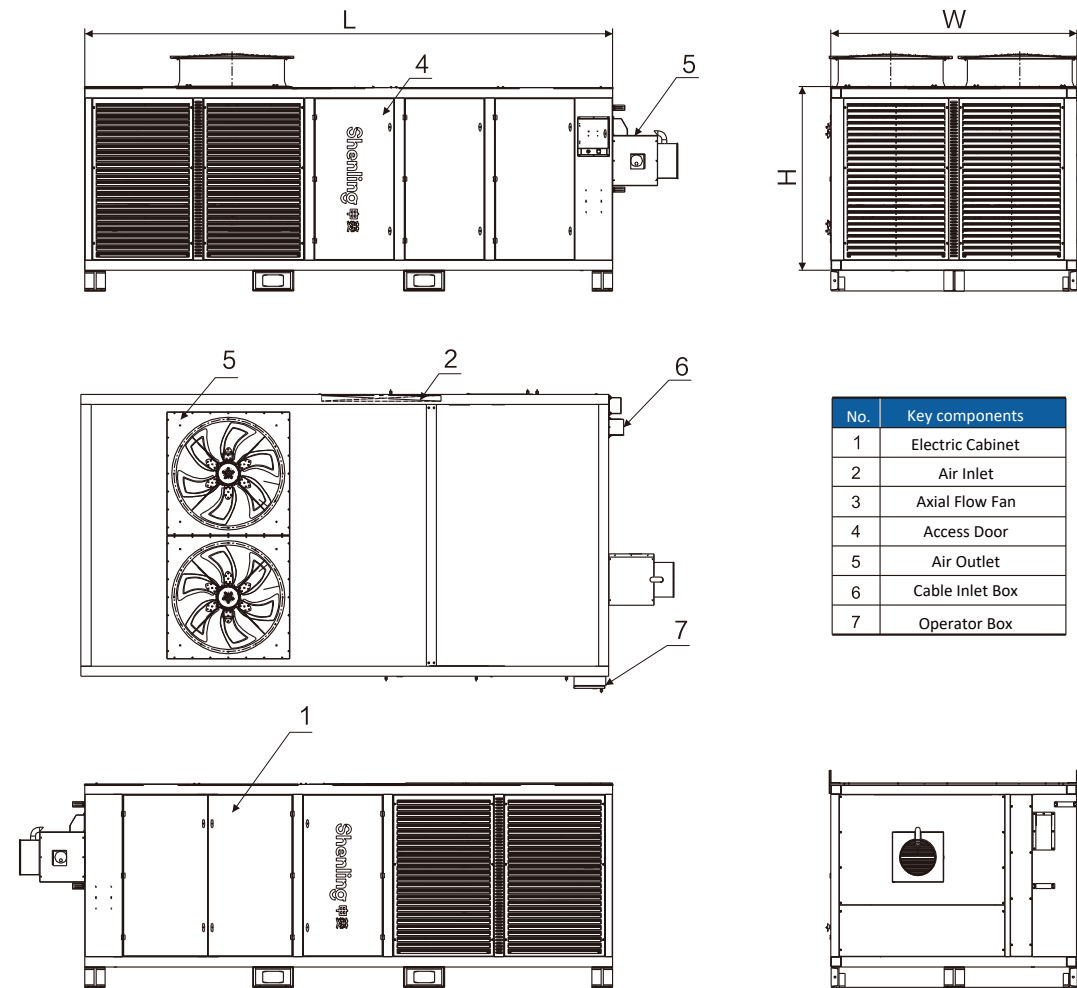


Model	Dimension(mm)	L	W	H	Corresponding Type
AC215		4050	2400	1340	C
AC315		4500	2380	1680	D/C
AC385		5350	2450	1680	E2/D/C
AC385A		4500 × 2	2380 × 2	1680 × 2	E1/E2/D/C



## Unit Outline Drawing

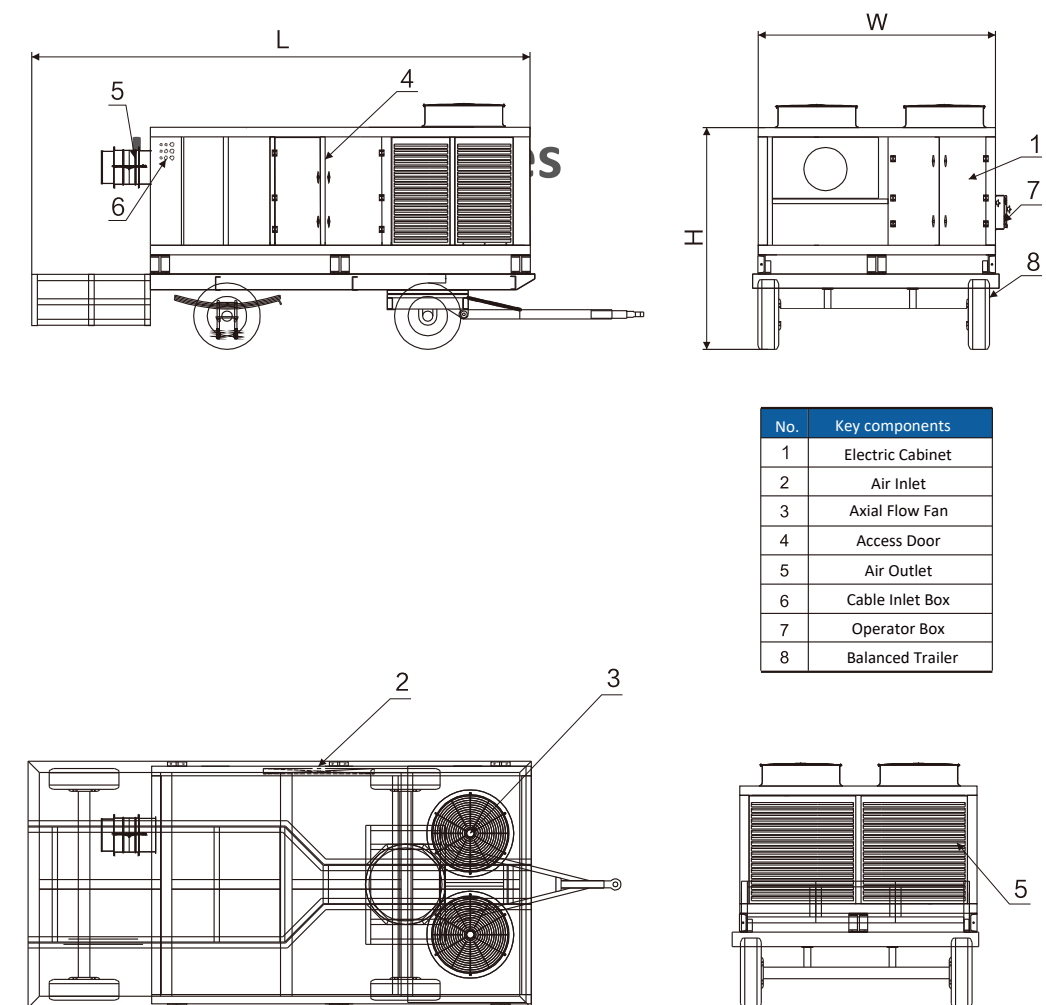
02. Floor-standing Unit Outline Diagram



Model	Dimension(mm)	L	W	H	Corresponding Type
AC215		4050	2400	1340	C
AC315		4500	2380	1680	D/C
AC385		5350	2450	1680	E2/D/C
AC385A		4500 × 2	2380 × 2	1680 × 2	E1/E2/D/C

## Unit Outline Drawing

03. Mobile Unit Outline Diagram



Model	Dimension(mm)	L	W	H	Corresponding Type
AC215		5250	2400	1840	C
AC315		5700	2380	2180	D/C
AC385		6550	2450	2180	E2/D/C
AC385A		5700 × 2	2380 × 2	2180 × 2	E1/E2/D/C



# Reference Projects



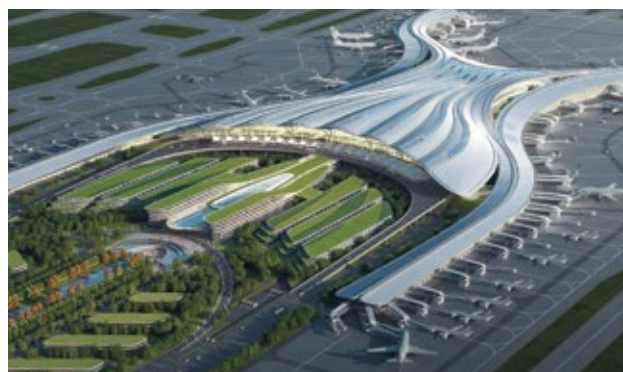
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**Products or services provided by Shenling:**

- Pre-conditioned Air Unit
- Air-Cooled Chiller (Heat Pump) Unit
- Evaporative Cooling Chiller Unit
- High Pressure Fresh Air Handling Unit





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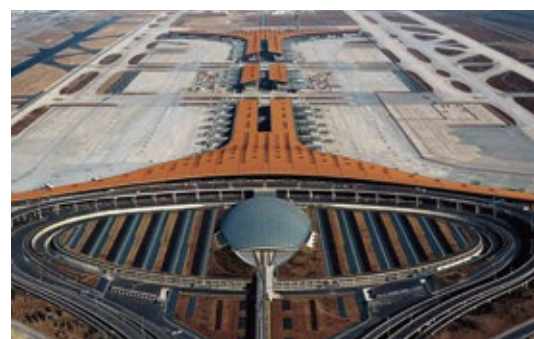
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Urumqi Diwopu International Airport



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Vitoria Airport in Brazil



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Sunan Shuofang International Airport



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