

GUCHEN THERMO Presentation

Transport Refrigeration System





GUCHEN at a glance

Who is GUCHEN

- A leading Supplier of Transport Refrigeration Items and Bus Air conditioner system
- A private company established in 1997
- A company with +50 dealers in oversea market

Employees

- 500+ employees worldwide
- 40+ engaged in R&D



Market Progress

- Leading market share in China in the past five years
- Sales of over 2000 refrigeration units annually at home
- Sell to over 50 countries all over the world
- Sales of over 1000 units per year to the Middle-east,
 Africa and South-American counties.

Business Lines

- Transport Refrigeration Units
- Bus Air Conditioners
- Customs Built Refrigerated Truck Bodies
- Refrigeration and HVAC Spare Parts



Development History





Development History



 1997 Company established , In the same year, introduce the Zexel (Now called Valeo) DKS-32 compressors and Bock FK 40 series compressors to China market.



 2000 , As the OEM supplier of bus air conditioning system for Yutong Bus, King-Long Bus and Yaxing Bus, which are active in the bus industry of China.



2003 Exported bus air conditioners to India, South Africa, Egypt and Turkey



2005 Exported bus air conditioners to Colombia



o 2006 Successfully developed one new project- transport refrigeration systems.



 2010 As the standard supplier of bus air conditioning system for FIFA World Cup 2010, service the sports master in South Africa



2011 GUCHEN's transport air conditioning / rerfrigeration unit Exported to Mexico market by our partners
of bus air conditioner products.



2012 Enter into key market of Latin America, i.e. Brzail, Peru, Ecuador, Chile, Argentina.



2014 The perfect solution of full electric air conditioning system for Hong Kong Trams



 2015 Supply the innovative product solution of all-electric bus air conditioners for Tesma, Solris and projects companies in Malasia, Colombia as well as Yutong company (E7, E10, E12)...



 2016 Enlarging our sub-engine (Independent) bus air conditioning systems market share in Middle East and Southeast Asia market.



Certificates











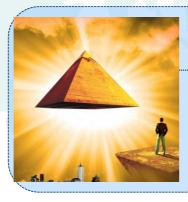


Our Vision



Company vision

Being the No. 1 in China and leading one in the world as a cold chain enterprise



Company philosophy

Innovating in technology, creating environment friendly space



GUCHEN Culture

"High quality ,artisan care ,passion ,selected suppliers , respect and customer-oriented." those are the "key words" that makes the company to become a market leader both in China and in international markets, in which we operate either directly or through representatives.

"Positioning ,strategy ,endeavor ,persistence", those ideas are the winning weapons of GUCHEN in the very competitive markets. Thinking every day for solutions that will win also in next years.

"Virtue, synergy, innovation" those are the values and philosophy that makes GUCHEN group a warm, energetic and innovative group.

The two vocational activities (project manufacturing and sales of Bus AC Systems, Refrigeration systems and spare parts sales) have developed themselves in the time, being able to coordinate the company reaction with the customer satisfaction shortly. "success, commitment and improvement", those are the tag line of GUCHEN industry.

Everybody must be the actor to achieve above mentioned values: staff, suppliers and external advisors. The key figures of a leader in its field should have twenty years of history, 40,000 square meters of premises, more than 350 subordinates and a wide range of products.



GUCHEN Distributor at +50 Areas





GUCHEN distributorship statement

GUCHEN's distributors will meet:

- 1) Legally registered company
- 2) Own engineers, technicians, and technical workers, and facilities for installation, after-sales service and daily maintenance.
- 3) Be active in the specified sector of bus air conditioner products, transport refrigeration, or refrigerated box
- 4) With units and spare parts in warehouse.
- 5) Ability to make after-service action within 12 hours.

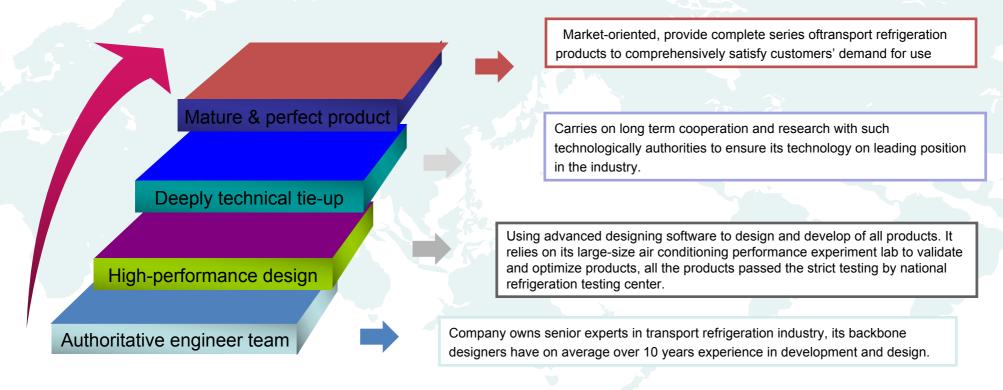
GUCHEN Support Distributors Worldwide:

- 1) Attend IAA show (Germany) every two years.
- 2) Train engineers from distributors each year in China.
- 3) Help make the spare parts warehouse.
- 4) Help make the advertise, promotion, sales and service
- 5) Help make the custom-made units.



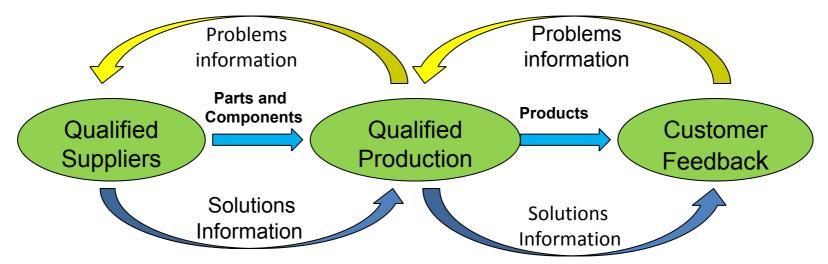
Advanced R&D Strength

Insist on R&D by our own team to ensure the technical storage, with the advance technologies, improve our technology with our independent path, leading the development of industry continuously.





Quality Assurance (Control) System



- Supplier qualification
- Verify regularly
- Incoming inspection
- Key parts and components are purchased from the same supplier with world leading brands.
- Top-quality metal sheet frame
- Auto. assembly lines;
- On-site electric and leackage test;
- Homothermal test room
- ISO9001, ISO14001;
- TS16949; CE certificates

- Regular client callback plan
- After-sales service nertwork;
- "3 guarantees" data analysis;
- Customer satisfication investition
- Never stop the improvement



Advanced Manufacturing Capacity





The full automatic production lines with our own proprietary intellectual property rights and use the world brand equipments to ensure the complete production is controlled and managed by SAP system.









GUCHEN THERMO PRODUCTS

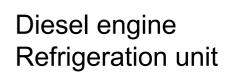
GUCHEN

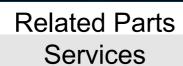






Refrigerated Truck Bodies







GUCHEN THERMO PRODUCTS



3	GUCHEN THERMO Transport Refrigeration Units

			sport Refriger		
Model	Temp. Range	Refrigerant	Voltage	Compressor	Box Application
C-200	-5°C ~ 30°C	R134a	DC12V/24V	5H11/108cc	6~12m ³
C-280	-5°C ~ 30°C	R134a	DC12V/24V	5H14/138cc	6~15m ³
Chiller unit	s, without defro	ost	74. 15.	714	o.
TR-200(T)	-20℃~30℃	R404a	DC12V/24V	5H11/108 cc	8~12m ³
TR-300(T)	-20℃~30℃	R404a	DC12V/24V	QP16/163 cc	10~15m ³
TR-350(T)	-20℃~30℃	R404a	DC12V/24V	QP16/163 cc	15~25m ³
TR-450	-20°C~30°C	R404a	DC12V/24V	QP16/163cc	18~25m ³
TR-550	-20°C~30°C	R404a	DC12V/24V	QP16/163cc	25~35m ³
TR-650	-20℃~30℃	R404a	DC12V/24V	QP16/163cc	35~45m ³
Alternative	front/roof mou	nted condens	ers ("T" refe	rs to "top"), w	vith hot gas defros
TS-700	-30℃~30℃	R404a	DC12V	FK200TK	25~35m ³
TS-1000	-30℃~30℃	R404a	DC12V	FK390TK	35~55m ³





Customer Case









- TR-200T Installed on Jinbei Cargo Van 6m³ (-18℃)
- Ambient temp +38
- TR-200 Installed on Benz Pick-Up 5m³ (-18℃)
- Ambient temp +38
- TR-300 Installed on TATA Small truck 10m³ (-18℃)
- Ambient temp +38
- TR-350 Installed on Mitsubishi Fuso truck
 15m³ (0°C)
- Ambient temp +50



Customer Case



- TR-550 Installed on ISUZU Truck 22m³ (-18℃)
- Ambient temp +38





- TS-1000 Installed on HOWOTruck 45m³ (-18℃)
- Ambient temp +38



Key Parts of Transport Refrigeration System





























The GUCHEN THERMO Key Parts







The GUCHEN THERMO Key Parts

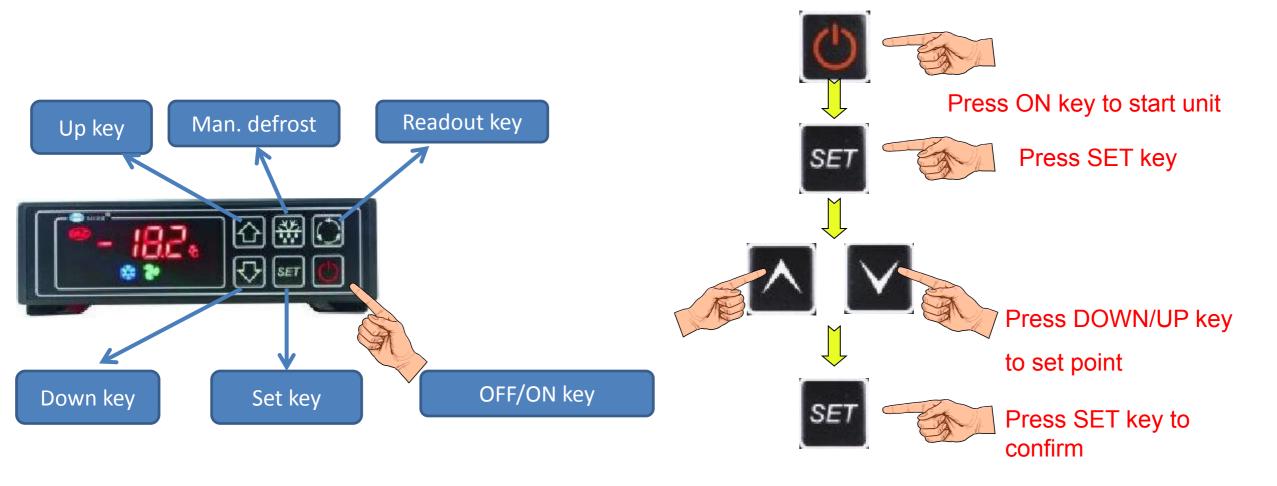








Control Panel-Direct Driven Units





Control Panel-Direct Driven Units





Press the OFF/ON key circularly will dipslay:

- 1: Defrost temperature
- 2: Working voltage
- 3: Operating time



After-sales Service

- TECHNICAL SUPPORT AND TRAINING
- SPARE PARTS SUPPLY







Newly developed products-1

Dual-temperature Rootop Van Refrigeration Units TR-360MT

Your preferred option for the last 1 km in Cold Chain Transport!

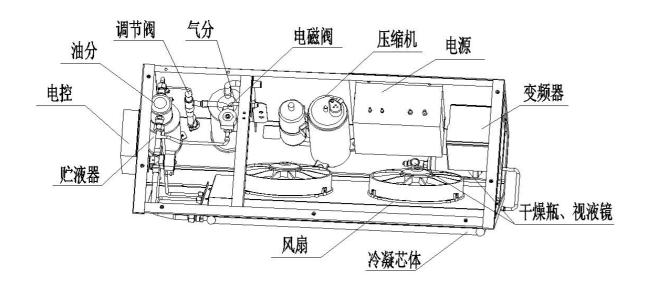




Newly developed products-2

Full electric truck refrigeration unit TR-550E

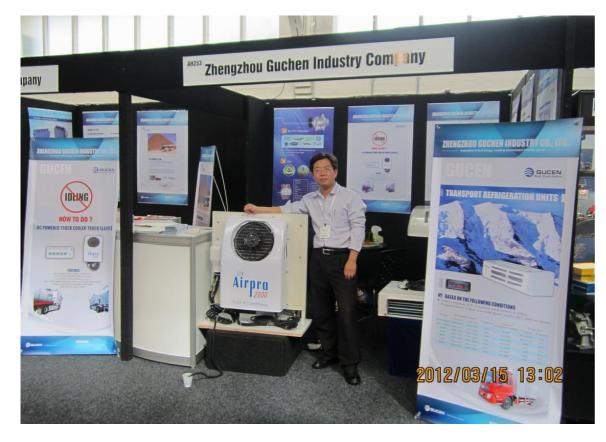
- Apply for new ennergy electric vehicles, driven by AC power supply.
- No noise, low enerry consumption, stable cooling capacity
- Dual or single temperature area application; temperature minimum to -20°C.
- Connected with the vehcle CAN system.







The GUCHEN team in Australia







The GUCHEN team in Mexico





The GUCHEN team in Belgium











The GUCHEN team in Shanghai









Guchen will be at 66th IAA

Commercial Vehicles in Hannover, German.

H11 Exhibition Hall, I17 Booth Number.





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