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**GUCHEN THERMO**  
Transport Refrigeration System



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**ZHENGZHOU GUCHEN THERMO CO., LTD.**

## Company Profile

Located in the Cold Chain Industrial Park, Zhengzhou, China, Guchen Thermo is an manufacturing company that has been specialized in the R&D, Production and Service of transport refrigeration since 1997.

Through two decades' unremitting endeavor, both Guchen and her products are top-leading in China HVAC and Refrigeration industry. Currently, Guchen owns the superior products test center, advanced assembly line, senior technicians, and more importantly, Guchen is a great company with strong technology accumulated from the long history. We use global reputable key parts. Such as QP compressors; Spal fans; Danfoss CPR valve, expansion valves and filter drier; Castel Solenoid valves; Codan pipes..., etc.

Guchen thermo units have gained more and more reputation in the overseas market. Such as, Germany, Russia, Kazakhstan, Bulgaria, Romania, Czech, Spain, Hungary, UAE, Israel, Jordan, South-Africa, Nigeria, Philippines, Australia, Cuba, Venezuela, Peru, Chile, Argentina, etc.

Besides, Guchen actively respond to the environment protection, and developed some cutting the edge products, such as, the AC full-electric truck refrigeration units, DC electric van refrigeration units, as well as the extra-slim dual-temperature rooftop refrigeration units, etc.

Guchen people set up the culture of "Moral, Cooperation, Innovation", and adheres to the management principle of "Customer and Staff Oriented". We believe in that Guchen will take the lead in all over the world.



## History

1997

Guchen Industry established, In the same year, we introduced the Zexel (Now called Valeo) DKS-32 compressors and Bock FK 40 series compressors to China market.

2000~2002

Guchen Industry provides after-sales services for Thermo King and Carrier.

2006

Guchen successfully developed one new project- transport refrigeration systems.

2008

Employees of Guchen Industry increased to more than 100 people, and we began to export refrigeration units to Pakistan, Palestine etc other Central Asian countries.

2010

Guchen units exported to Australia, South Africa and Algeria etc.

2012

Guchen units exported to Uruguay, Chile, Peru, Brazil, etc Latin America.

2014

Guchen employees increased to more than 200 people, and successfully entered into market of Mauritius, Nigeria.

2015

we signed the distributor agreement with customers in Angola, Australia, South Africa, Argentina, etc; and our unit became more and more popular in European countries.

2016

Guchen units developed into Argentina, United Arab Emirates, India, Malaysia etc countries. And registered a new brand name-Guchen Thermo for the transport refrigeration items.

# BATTERY DRIVE UNITS

## 2~5m<sup>3</sup> Mini Refrigerated Vans

### Standard Features

Operation on DC12V, DC24V, 48V, 60V, 72V...Vehicle.  
 Streamlined and elegant appearance to van body.  
 Electric compressor; Low noise; easy installation.  
 In cab digital command.  
 Popular for minivan Ford, Fiat, VW, IVECO, Renault...  
 Low fuel consumption and environment friendly.

### Optional

AC-DC Power switch(Electric standby); Heating.  
 Plug into external AC power (Convertor).



### TR-110D/TRF-110D



Condenser



Evaporator



Compressor

Models		TR-110D		TRF-110D	
Cooling Capacity	Temperature	Watt	Btu	Watt	Btu
Ambient +38°C(100°F)	0°C	1700	5800	2000	6825
	-18°C	/	/	950	3245
Airflow Volume					900m <sup>3</sup> /h
Power					800W
Temp. Range					-5°C~+25°C
Refrigerant					R134a/1.1kg
Compressor	Model	Electric compressor			
	Displacement	18cc/r			
Defrost Function					/ Hot gas defrosting
Electric standby power					AC110V/AC220V
Dimensions & Weight	Condenser	606*523*195mm/35kg			
	Evaporator	865*660*210mm/12kg			
Recommend Box Volume		5m <sup>3</sup> at 0°C		2~5m <sup>3</sup>	

Notes: 1. Ambient temperature: +38°C(100°F) for cooling, 0°C(32°F) for heating; K-value: ≤0.32Watts/m<sup>3</sup>°C. Recommend box volume in application is related to ambient, refrigerated body K-value and cargoes that will be loaded, etc.

2. Specifications are subject to change without priority notice; Guchen Thermo, 2017.07.01.

# DIRECT DRIVE TRUCK CHILLER UNITS

**5~15m<sup>3</sup> refrigerated trucks**

## Standard Configuration

Front mounted condensers and ultra-slim evaporators.  
 In-cab remote display and control.  
 Easy installation and low maintenance cost.  
 High performance ultra slim evaporators for maximum cargo space.  
 High airflow volume for superior temperature control.  
 Lower pressure refrigerant means a longer unit life.  
 More reliable with better temp management for fresh loads.

## Optional

Electric standby.



## C-200/C-300



Condenser



Evaporator



Evaporator

Models		C-200		C-300	
Cooling Capacity	Temperature	Watt	Btu	Watt	Btu
Ambient +38°C(100°F)	Road	1700	5800	2700	9210
	Electric	1100	3750	2000	6825
Airflow Volume		950m <sup>3</sup> /h		1500m <sup>3</sup> /h	
Temp. Range		-5°C~+25°C		-5°C~+25°C	
Refrigerant and volume		R-134A/0.9kg		R-134A/1.5kg	
Defrost		/		/	
Voltage		12V/24V		12V/24V	
Compressor	Model	DY5H11		DY5H14	
	Displacement	108cc/r		138cc/r	
Electric Standby	Power	2.2kw		3.0kw	
	Voltage	AC220V/1Phase/50Hz; AC380V/3Phase/50Hz		AC220V/1Phase/50Hz; AC380V/3Phase/50Hz	
Dimensions & Weight	Condenser	765*380*290mm/15kg		925*430*300mm/21kg	
	Evaporator	610*550*175mm/12kg		850*550*175mm/15kg	
Recommend Box Volume		10m <sup>3</sup> at 0°C		15m <sup>3</sup> at 0°C	

Notes: 1. Ambient temperature: +38°C(100°F) for cooling, 0°C(32°F) for heating; K-value: ≤0.32Watts/m<sup>3</sup>°C. Recommend box volume in application is related to ambient, refrigerated body K-value and cargoes that will be loaded, etc.

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# DIRECT DRIVE VAN UNITS

**7~16m<sup>3</sup> refrigerated vans**

## Standard Features

- Operation on DC12/DC24V vehicle.
- Compact structure, small size and light weight.
- Easy installation and low maintenance cost.
- In cab digital command with e-diagnostics.
- Extra-slim evaporator for Max. cargo space.
- Large airflow volume and fast cooling.

## Optional

- Heating, Electric standby.



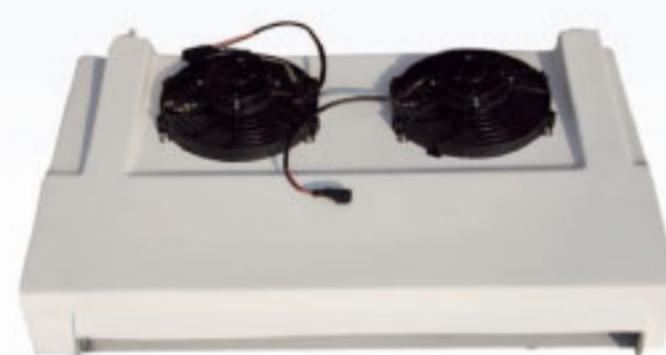
## C-200T/C-300T/TR-200T/TR-300T



Condenser



Evaporator



Evaporator

Models		C-200T		C-300T		TR-200T		TR-300T		
Cooling Capacity		Temperature	Watt	Btu	Watt	Btu	Watt	Btu	Watt	Btu
Ambient	Road	0°C	17000	5800	2700	9210	2000	6824	3000	10236
		+38°C(100°F)	/	/	/	/	1110	3787	1600	5460
Airflow Volume		950m <sup>3</sup> /h		1050m <sup>3</sup> /h		950m <sup>3</sup> /h		1050m <sup>3</sup> /h		
Temp. Range		-5°C ~ +25°C		-5°C ~ +25°C		-25°C ~ +30°C		-25°C ~ +30°C		
Refrigerant		R134a / 0.8kg		R134a / 1.4kg		R404a / 1.0kg		R404a / 1.7kg		
Compressor	Model	DY5H11		DY5H14		SD5S11		SD5S14		
	Displacement	108cc/r		138cc/r		108cc/r		138cc/r		
Defrost Function		Hot gas defrosting(auto&manual)								
Dimensions & Weight	Condenser	700*700*190mm/16kg		880*865*210mm/24kg		700*700*190mm/19kg		880*865*210mm/32kg		
	Evaporator	610*550*175mm/12kg		850*550*175mm/16kg		610*550*175mm/13kg		850*550*175mm/15kg		
Recommend Box Volume		10m <sup>3</sup> at 0°C		15m <sup>3</sup> at 0°C		7~11m <sup>3</sup>		10~16m <sup>3</sup>		

Notes: 1. Ambient temperature: +38°C(100°F) for cooling, 0°C(32°F) for heating; K-value: ≤0.32Watts/m<sup>3</sup>°C. Recommend box volume in application is related to ambient, refrigerated body K-value and cargoes that will be loaded, etc.

2. Specifications are subject to change without priority notice; Guchen Thermo, 2017.07.01.

# DIRECT DRIVE TRUCK UNITS

**8~25m<sup>3</sup> Refrigerated Trucks**

## Standard Features

- Operation on DC12V/24V vehicle.
- Compact structure, small size, light weight.
- Easy installation and low maintenance cost.
- In cab digital command with e-diagnostics.
- Extra-slim evaporator for Max. cargo space.
- Compressor CPR & Liquid injection for high ambient temperature.

## Optional

- Heating, Electric standby.



## TR-200/TR-300/TR-350



Condenser



Evaporator



Evaporator

Models		TR-200		TR-300		TR-350	
Cooling Capacity	Temperature	Watt	Btu	Watt	Btu	Watt	Btu
Ambient +38°C(100°F)	Road	0°C	2200	7550	3010	10270	3815
		-18°C	1127	3840	1770	6040	2260
	Electric	0°C	1780	6070	2410	8220	3050
		-18°C	875	2986	1365	4657	1760
Heating Capacity	+15°C	1520	5186	2105	7182	2680	9144
Airflow Volume		950m <sup>3</sup> /h		1000m <sup>3</sup> /h		1800m <sup>3</sup> /h	
Temp. Range		-25°C ~ +30°C		-25°C ~ +30°C		-25°C ~ +30°C	
Refrigerant		R404a/1.0kg		R404a/1.1kg		R404a/1.2kg	
Compressor	Model	DY5H11		QP16			
	Displacement	108cc/r		163cc/r			
Electric Standby	Power	2.2kw		3.0kw			
	Voltage	AC220V/1Phase/50Hz; AC380V/3Phase/50Hz		Hot gas defrosting(auto&manual)			
Dimensions & Weight	Condenser	780*553*230mm/16kg		880*553*230mm/19kg		1010*553*230mm/21kg	
	Evaporator	603*538*230mm/13kg		845*646*230mm/15kg		1105*649*230mm/17kg	
Recommend Box Volume		8~12m <sup>3</sup>		10~20m <sup>3</sup>		15~25m <sup>3</sup>	

Notes: 1. Ambient temperature: +38°C(100°F) for cooling, 0°C(32°F) for heating; K-value: ≤0.32Watts/m<sup>3</sup>°C. Recommend box volume in application is related to ambient, refrigerated body K-value and cargoes that will be loaded, etc.

2. Specifications are subject to change without priority notice; Guchen Thermo, 2017.07.01.

# DIRECT DRIVE TRUCK UNITS

**18~ 30m<sup>3</sup> Refrigerated Trucks**

## Standard Features

- Operation on DC12V/24V vehicle.
- Compact structure, small size, light weight.
- Easy installation and low maintenance cost.
- In cab digital command with e-diagnostics.
- High-efficient evaporator, with huge airflow.
- Compressor CPR for high ambient temperature.

## Optional

Heating, Electric standby.



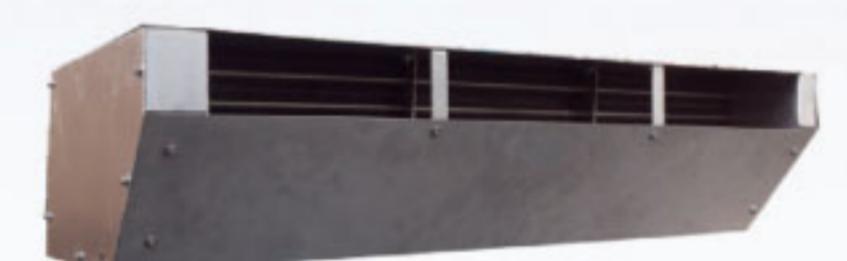
## TR-450/TR-550/TR-760



Condenser



Condenser



Evaporator

Models		TR-450		TR-550		TR-760		
Cooling Capacity	Temperature	Watt	Btu	Watt	Btu	Watt	Btu	
Ambient +38°C(100°F)	Road	0°C	4500	15354	5800	19795	7225	
		-18°C	2300	7848	3000	10239	3860	
	Electric	0°C	3500	11942	4650	15866	5800	
		-18°C	1700	5800	2300	7848	3050	
Heating Capacity		+15°C	2850	9724	3500	11942	3940	
Airflow Volume				2000m <sup>3</sup> /h	2310m <sup>3</sup> /h	2460m <sup>3</sup> /h		
Temp. Range				-25°C~+30°C	-25°C~+30°C	-25°C~+30°C		
Refrigerant				R404a / 2.0kg	R404a / 2.8kg	R404a / 3.9kg		
Compressor	Model	QP16		QP16		QP21		
	Displacement	163cc/r		163cc/r		210cc/r		
Electric Standby	Power	3000w		3000w		3000w		
	Voltage	AC220V/1Phase/50Hz; AC380V/3Phase/50Hz						
Defrost Function				Hot gas defrosting(auto&manual)				
Dimensions & Weight	Condenser	1150*475*380mm/32kg		1456*540*505mm/60kg		1456*540*505mm/62kg		
	Evaporator	1020*660*230mm/24kg		1224*508*278mm/32kg		1224*555*278mm/36kg		
Recommend Box Volume		16~22m <sup>3</sup>		20~30m <sup>3</sup>		35~45m <sup>3</sup>		

Notes: 1. Ambient temperature: +38°C(100°F) for cooling, 0°C(32°F) for heating; K-value: ≤0.32Watts/m<sup>3</sup>°C. Recommend box volume in application is related to ambient, refrigerated body K-value and cargoes that will be loaded, etc.

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# DIRECT DRIVE TRUCK UNITS

**30~40m<sup>3</sup> Refrigerated Trucks - Tropicalized Truck Frozen Unit for Extreme High Ambient Temperature Up to +50°C**

## Standard Features

- Operation on DC12V/24V vehicle.
- Compact structure, small size, light weight.
- Easy installation and low maintenance cost.
- In cab digital command with e-diagnostics.
- High efficient Extra-slim evaporator for Max. cargo space.
- Inner grooved copper tube for condenser and evaporator coils.

## Safety Devices

- Emergency switch protection.
- Thermal protection - liquid injection valve.
- Low and high refrigerant pressure protection.
- Compressor CPR for high ambient.
- Oil return protection system.



## Optional

- Heating, Electric standby.

**TR-650**



Condenser

Evaporator

Compressor

Models		TR-650	
Cooling Capacity	Temperature	Watt	Btu
Ambient +38°C(100°F)	Road	0°C	6050
		-18°C	3300
	Electric	0°C	5800
		-18°C	3050
Heating Capacity	+15°C	3940	13443
Airflow Volume		2500m <sup>3</sup>	
Temp. Range		-25°C ~ +30°C	
Refrigerant		R404a / 3.8kg	
Compressor	Model	QP16	
	Displacement	163cc/r	
Electric Standby	Power	3000w	
	Voltage	AC220V/1Phase/50Hz; AC380V/3Phase/50Hz	
Defrost Function		Hot gas defrosting(auto&manual)	
Dimensions & Weight	Condenser	1367*514*498mm/78kg	
	Evaporator	1530*649*230mm/38kg	
Recommend Box Volume		30~40m <sup>3</sup>	

Notes: 1. Ambient temperature: +38°C(100°F) for cooling, 0°C(32°F) for heating; K-value: ≤0.32Watts/m<sup>3</sup>°C. Recommend box volume in application is related to ambient, refrigerated body K-value and cargoes that will be loaded, etc.

2. Specifications are subject to change without priority notice; Guchen Thermo, 2017.07.01.

# DIESEL ENGINE DRIVE UNITS

25~65m<sup>3</sup> Refrigerated Trucks

## Standard Configuration

Perkins engine: low noise, low emission, and low vibration level

German GEA Bock compressors

Alternator DC12V 75A

In-cab remote display and control

R-404A Eco-friendly refrigerant

Multiple safety protection devices

Automatic and manual defrost system

3-Phase standby motor

## Safety Protection System

Emergency switch protection

Thermal protection

System high pressure and low pressure protection

Liquid injection and oil return protection

Engine low oil pressure protection

Engine cooling water overheat protection

Standby electrical overload protection

Automatic phase failure correction



Condenser and Evaporator Assembly



Perkins Engine



Bock Compressor



Models		TS-600		TS-800		TS-1000		TS-1200		
Cooling Capacity		Temperature		Watt	Btu	Watt	Btu	Watt	Btu	
Ambient +38°C(100°F)	Road	0°C		5600	19100	7150	24400	8250	28150	
		-18°C		3350	11430	3960	13500	5185	17700	
	Standby	0°C		4930	16820	6240	21300	6820	23270	
		-18°C		2935	10000	3295	11240	4485	15300	
Airflow Volume		2350m <sup>3</sup> /h		2350m <sup>3</sup> /h		2380m <sup>3</sup> /h		3420m <sup>3</sup> /h		
Temp. Range		-25°C~+30°C		-25°C~+30°C		-25°C~+30°C		-25°C~+30°C		
Refrigerant and volume		R404A		R404A		R404A		R404A		
Defrost Function		Automatic/Manual hot gas defrost								
Voltage		12VDC		12VDC		12VDC		12VDC		
Engine	Model	Perkins		Perkins		Perkins		Perkins		
	No. of cylinder	2		3		3		3		
Compressor	Model	BOCK FNX30 235TK		BOCK FNX30 235TK		BOCK FNX40 390TK		BOCK FNX40 560TK		
	Displacement	233cc		233cc		385cc		560cc		
Electric Standby Optional		220V/240V/380V/400V 3Phase 50Hz or 60Hz								
Overall Size		1795*795*560mm		1825*860*630mm		1825*860*630mm		1915*970*690mm		
Evaporator Opening Size		1245*310mm		1245*310mm		1245*350mm		1245*350mm		
Weight		395kg		432kg		475kg		582kg		
Recommend Box Volume		25~35m <sup>3</sup>		30~45m <sup>3</sup>		45~55m <sup>3</sup>		55~65m <sup>3</sup>		

Notes: 1. Ambient temperature: +38°C(100°F) for cooling, 0°C(32°F) for heating; K-value: ≤0.32Watts/m<sup>3</sup>°C. Recommend box volume in application is related to ambient, refrigerated body K-value and cargoes that will be loaded, etc.

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# ELECTRIC STANDBY UNITS

## Integrated Electric Standby Units

The F-200S/300S/450S refrigeration units applications on direct drive trucks.

One compressor is powered by the vehicle's engine, while a second one is powered by an electric compressor. Making it possible to use electric standby to drive the units.



## Split Electric Standby



Split Standby



Split Standby



Split Standby

## Integrated Electric Standby

Models		F-200S		F-300S		F-450S				
Cooling Capacity	Temperature	Watt	Btu	Watt	Btu	Watt	Btu			
Ambient +38°C(100°F)	Road	0°C	2000	6820	3000	10230	4500			
	Road	-18°C	950	3240	1600	5460	2300			
	Electric	0°C	2000	6820	3000	10230	4500			
	Electric	-18°C	950	3240	1600	5460	2300			
Airflow Volume		950m³/h		1500m³/h		1500m³/h				
Temp. Range		-25°C ~ +30°C		-25°C ~ +30°C		-25°C ~ +30°C				
Refrigerant		R404a/1.3kg		R404a/1.8kg		R404a/2.4kg				
Compressor	Road Model	Sanden/5S11		Sanden/5S14		QUE/QP16				
	Standby Model	Denso/ES34		Denso/ES34		Denso/ES34				
	Voltage	AC220V/1Phase/50Hz								
Defrost Function		Hot gas defrosting(auto&manual)								
Dimensions	Condenser	925*430*296mm		1250*475*380mm		1450*475*80mm				
	Evaporator	610*550*175mm		850*50*175mm		1020*660*230mm				
Recommend Box Volume	-18°C	7m³		10m³		16m³				
	0°C	10m³		16m³		22m³				

Notes: 1. Ambient temperature: +38°C(100°F) for cooling, 0°C(32°F) for heating; K-value: ≤0.32Watts/m³°C. Recommend box volume in application is related to ambient, refrigerated body K-value and cargoes that will be loaded, etc.

2. Specifications are subject to change without priority notice; Guchen Thermo, 2017.07.01.



## GUCHEN THERMO UNITS

DRIVE MODE		DIRECT DRIVE		DIRECT DRIVE									
MODEL		C-200(T)	C-300(T)	TR-200(T)	TR-300(T)	TR-350(T)	TR-450	TR-550	TR-650	TR-760			
TEMP. RANGE		-5°C~+25°C	-5°C~+25°C	-25°C~+30°C	-25°C~+30°C	-25°C~+30°C	-25°C~+30°C	-25°C~+30°C	-25°C~+30°C	-25°C~+30°C			
BOX APPLICATION		10m³ at 0°C	15m³ at 0°C	8~12m³	10~20m³	15~25m³	16~22m³	20~30m³	30~40m³	35~45m³			
DC VOLTAGE		DC 12V/24V	DC 12V/24V	DC 12V/24V	DC 12V/24V	DC 12V/24V	DC 12V/24V	DC 12V/24V	DC 12V/24V	DC 12V/24V			
COMPRESSOR	BRAND	DYNE		QUE									
	MODEL	DY5H11	DY5H14	DY5H11	QP16	QP16	QP16	QP16	QP16	QP21			
	DISPLACEMENT	108cc	138cc	108cc	163cc	163cc	163cc	163cc	163cc	210cc			
	REFRIGERANT	R134a	R134a	R404a	R404a	R404a	R404a	R404a	R404a	R404a			
	CHARGE VOL.	1.2Kg	1.7Kg	1.0Kg	1.1Kg	1.2Kg	2.0Kg	2.8Kg	3.6Kg	4.2Kg			
TEMP. CONTROL		Digital Controller in Cab											
DEFROST		/	/	Hot Gas Defrost									
HEATING		/	/	Hot Gas Heating; Optional									
ELECTRIC STANDBY		AC220V/1Phase/50Hz; AC380V/3Phase/50Hz; Optional											
EVAPORATOR	TYPE	Copper Tube & Aluminum Fin											
	DIMENSIONS	610*550*175	850*550*175	603*538*230	845*649*230	1105*649*230	1020*660*230	1224*508*278	1530*649*230	1224*555*278			
	WEIGHT	12Kg	15Kg	13Kg	15Kg	17Kg	24Kg	32Kg	38Kg	36Kg			
	BLOWER QTY.	1pcs	2pcs	1pcs	1pcs	2pcs	2pcs	3pcs	3pcs	3pcs			
CONDENSER	TYPE	Micro Channel Parallel Flow						Copper Tube & Fin	Parallel Flow				
	DIMENSIONS	765*380*290	924*430*300	780*553*230	880*553*230	1010*553*230	1150*475*380	1456*540*505	1367*514*498	1456*540*505			
	WEIGHT	15Kg	21Kg	16Kg	19Kg	21Kg	32Kg	60Kg	78Kg	62Kg			
	FAN QTY.	1pcs	1pcs	1pcs	1pcs	1pcs	2pcs	2pcs	2pcs	2pcs			

LEGEND: TEMP.(temperature); VOL.(volume); QTY.(quantity)

## GUCHEN THERMO UNITS

DRIVE MODE		BATTERY DRIVE		DIESEL DRIVE (MONO-BLOCK UNIT)						
MODEL		TR-110D	TRF-110D	MODEL		TS-600	TS-800	TS-1000	TS-1200	
TEMP. RANGE	-5°C~+25°C	-15°C~+25°C	-15°C~+25°C	DISPLACEMENT	2~5m³	≤5m³				
BOX APPLICATION				DC VOLTAGE	DC 12V/24V	DC 12V/24V				
DC VOLTAGE				GENERATOR	12V; 75A	12V; 75A	12V; 75A	12V; 75A		
COMPRESSOR	BRAND	DC Electric Compressor								
	MODEL	YM18	YM18	ORIGINAL	Japan	Japan	Japan	Japan		
	DISPLACEMENT	18cc	18cc	BRAND	Perkins	Perkins	Perkins	Perkins		
	REFRIGERANT	R134a	R404a	FUEL TYPE	Diesel	Diesel	Diesel	Diesel		
	CHARGE VOL.	1.1Kg	1.2Kg	NO. OF CYLINDER	2	3	3	3		
TEMP. CONTROL		Digital Controller in Cab								
DEFROST		Hot Gas Defrost								
HEATING		Hot Gas Heating								
ELECTRIC STANDBY		AC 110V / AC 220V								
EVAPORATOR	TYPE	Copper Tube & Aluminum Fin								
	DIMENSIONS	606*523*195	Copper Tube & Aluminum Fin							
	WEIGHT	35Kg	606*523*195							
	BLOWER QTY.	1	R404a							
CONDENSER	TYPE	Micro Channel Parallel Flow								
	DIMENSIONS	865*660*210	R404a							
	WEIGHT	12kg	1245*310							
	FAN QTY.	1	1245*310							
ELECTRIC STANDBY		AC220V/3Phase/50Hz; AC380V/3Phase/50Hz; Standard								
SIZE	OVERALL SIZE	1795*795*560	1825*860*630	1825*860*630	1915*970*690					
	BODY OPENING	1245*310	1245*310	1245*350	1245*350					
	WEIGHT	395Kg	432Kg	475Kg	634Kg					

LEGEND: TEMP.(temperature); VOL.(volume); QTY.(quantity)

**Guchen Is A Long-term Partner Worthy of Your Trust.**  
**Start With The Customer's Requirement, End With The Satisfaction.**

**Professional Team**

**Rich Experience**

**Tailored Solution**

