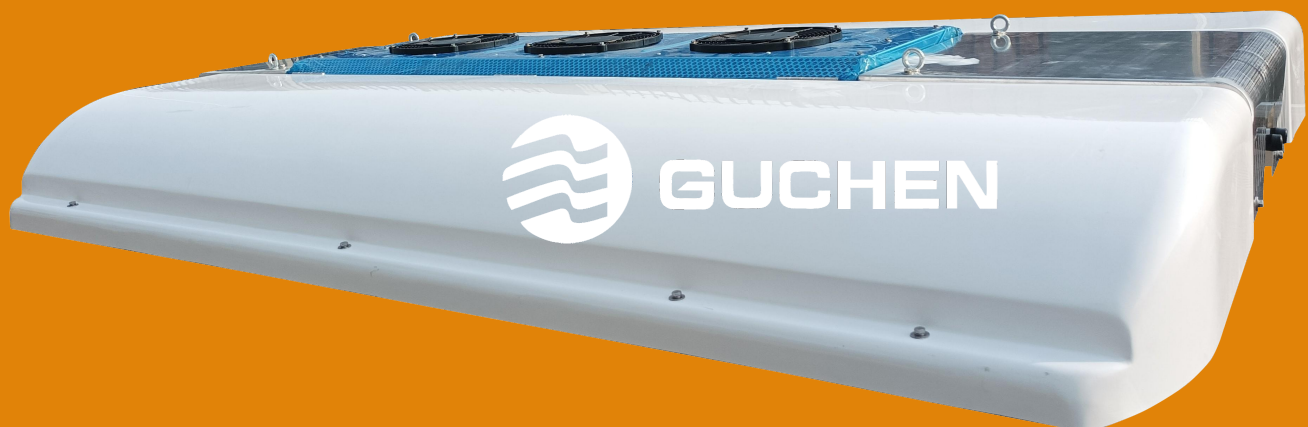




Air conditioning in a school bus is an important part of the vehicle's safety and comfort.

In hot weather, school buses can become extremely hot inside and uncomfortable for students and teachers alike.

The right school bus air conditioner will help keep kids cool and comfortable throughout their travels to and from school each day. It can also reduce fuel costs by keeping buses cooler while driving down the road as well as provide extra benefits such as increased safety features and better fuel efficiency.





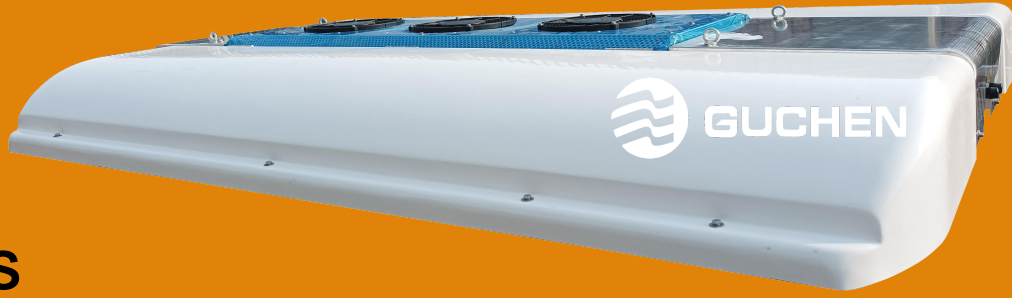
Guchen Industry is a professional manufacturer of bus HVAC systems, which is located in Zhengzhou, China. Established in 1998, Guchen People have been in the automobile AC industry for over 20 years and have rich experience in this field.

Premium quality products and custom bus cooling solutions at competitive prices are what we offer to our customers.



Guchen School Bus AC Services Include:

- 1) Air Conditioners for Pure Electric School Bus
- 2) Bus HVAC System for Traditional School Bus



GCEK Series Air Conditioners for 6m-12m Pure Electric School Bus

MODEL	GCEK-03	GCEK-04	GCEK-05	GCEK-06
Cooling Capacity	18,000 Kcal/h / 21KW / 72000BTU	20,000 Kcal/h / 24KW / 82000BTU	24,000 Kcal/h / 28kw / 104000BTU	27,500 Kcal/h / 32kw / 110000BTU
		82000BTU		
Power Consumption	4.5Kw	6.5Kw	8kw	10kw
Condenser air volume	6000 m ³ /h	6000 m ³ /h	8000m ³ /h	10000 m ³ /h
Evaporator Air flow	4000 m ³ /h	4000 m ³ /h	6000 m ³ /h	6000 m ³ /h
Refrigerant	R407c			
Size	2680*1900*287	2800*1900*290	2925*1900*287	3175*1900*287
L×W×H(mm)				
Voltage	DC380V~DC750V	DC380V~DC750V	DC380V~DC750V	DC380V~DC750V
School Bus	6-7M	7-9M	9-11M	10-12M

Lightweight Design

GCEK series adopts lightweight design, which is more than 20kg lower than other products in the industry.

More Energy-Saving

Components such as condenser fan, evaporator fan, and compressor, all adopt intelligent control, saving energy by more than 20%.

More Efficient

The intelligent control system of refrigerant flow can cool down quickly and is always in the high-efficiency range.

More Reliable

Multiple protections for high and low pressure, exhaust temperature, overcurrent and overvoltage.

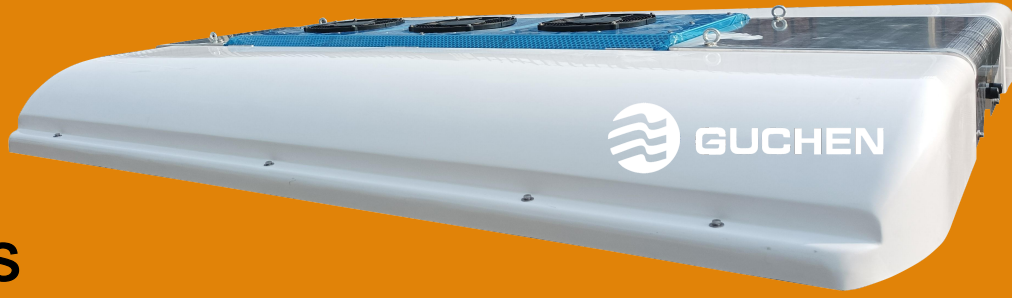
Electrical Safety

High voltage protection grade IP67, multiple insulation protection, to ensure electrical safety.

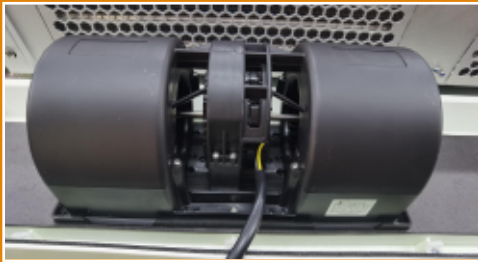
Longer Service Life

The core components - brushless fan, Danfoss valve, DC-DC, electric scroll compressor, etc., are all well-known international brands, more reliable and longer life.



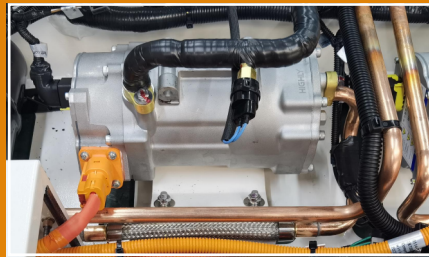


GCEK Series Air Conditioners for 6m-12m Pure Electric School Bus



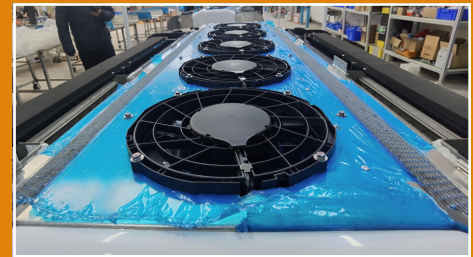
Evaporator Blower Motor

On the evaporator side, it uses centrifugal blower. The refrigerant passes through the indoor evaporator coils and absorbs heat from air flow driven by a blower, thereby the air flow provides a cooling process for the indoor air stream.



Electric Scroll Compressor

Electric scroll compressors into electric air-conditioners for new-energy school buses meet the cooling and heating requirements of EV applications, as well as achieve high energy efficiency and reliable operation.



Condenser Fan

The condenser fan assists in removing the heat. 5 condenser fan design guarantees the fast cooling even ambient temperature is more than 45 .



PTC Heater

Low thermal resistance, high heat exchange efficiency and low power attenuation for long-term use. Electrical PTC heating elements are widely used for supplemental heating due to their simplicity, reliability, durability, and safety.



High Voltage Connection

Waterproof connectors and quality shielded HV cables are used to ensure a safe and reliable connection between high voltage components in electric school bus air conditioning systems.



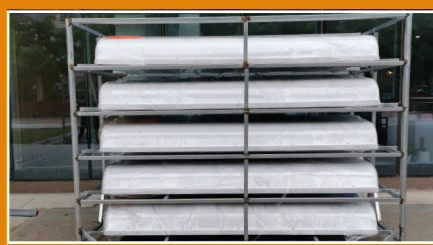
Evaporator Coil

The evaporator coil of Guichen e-bus ac adopts high quality inner screw copper tube and aluminum fin. The hydrophilic aluminum fin design ensures that the evaporator coils will last longer in extremely humid conditions. It also reduces the growth of bacteria, enabling passengers to get cool and healthy air at the same time.



DC-DC

The new-generation DC/DC features small volume, lightweight, high power density, high efficiency, and high reliability.



Packaging for Shipping

Electric buses are the future, and each year we've seen automakers add more EVs to their lineups. Guichen Industry is pleased to introduce our all-electric school bus air conditioning systems. Here are a few of the amazing benefits of this new technology:

- Clean, Zero-Emission
- Quiet, Noise-Reduction
- Economic Benefits
- Heating & Cooling Dual Functions
- Much More Affordable



3D Design

Our team of experts are available to answer any questions or concerns you may have.

If you are seeking for best efficiency and affordable school bus HVAC solutions, Guichen Industry is the top manufacturer you should consider. All the electric bus air conditioning units are of the highest quality and backed by excellent customer service.



PD Series Air Conditioners for 6m-18m School Bus

Series	PD-03	PD-04	PD-05	PD-06	PD-07
Application	7-7.5m	7.5-8m	8-8.7m	8.7-10m	10-12m
Cooling Capacity(kcal/h)	18000	22000	24000	28000	32000
Evaporator air flow(m³/h)	4000	4000	4000	6000	8000
Number of evaporator blowers	4	4	4	6	8
Fresh air flow(m³/h)	1000	1000	1000	1500	1750
Size(mm)	2481*1820*220	2481*1820*226	2481*1820*226	3010*1902*225	3285*1902*225
Max ambient temperature(°C)	50	50	50	50	50
Compressor	Valeo TM31	Bitzer F400	Bock 560K	Bock 560K	Bock 655K
Compressor displacement(cc)	313	400	554	554	650

PD Series are climate friendly mobile air conditioning systems for traditional school bus applications. It uses the refrigerant tetrafluoroethane (R134a), and enables building more connected and efficient Air conditioning solutions.



PD bus HVAC systems are used to provide comfortable temperature, humidity and clean air in coaches, buses, city buses etc. It can be configured in a variety of ways or models, depending on their application and the functions of the vehicle. PD series air conditioner provides air filtering and/or cooling/warming and dehumidification.





PD Series Air Conditioners for 6m-18m School Bus



Offers high reliability and long life-span

Low noise and vibration, low power consumption

High heat exchange efficiency, energy saving

Fan speed can be adjusted to meet the temperature requirement of different areas inside the vehicle.

The installation is simple and convenient.

Highly efficient compressor and refrigeration system

Improved engine life

Superior performance at extreme temperatures (hot or cold)

Reliable Performance. Each unit is quality tested before leaving our factory ensuring that all components are working correctly at all times.





BD Series Air Conditioners for 6m-18m School Bus

Series	BD-03	BD-04	BD-05	BD-06
Application	7-8m	8-9.5m	9-11.5m	10-13m
Cooling Capacity(kcal/h)	22000	24000	28000	32000
Evaporator air flow(m ³ /h)	4000	4000	6000	8000
Number of evaporator blowers	4	4	6	8
Fresh air flow(m ³ /h)	1000	1000	1000	1750
Size(mm)	3335*1820*187	3335*1820*187	3804*1902*210	4435*1902*210
Max ambient temperature(°C)	50	50	50	50
Compressor	Bitzer F400	Bock 560K	Bock 560K	Bock 655K
Compressor displacement(cc)	400	554	554	650

Guchen BD series are the latest addition to our portfolio of school bus ACs. The BD series is a high-tech, energy-saving, highly reliable and cost-effective solution for school buses.

High Performance

With a capacity range of 22kW - 32kW, the BD series offers high performance with a wide range of options to match your specific needs. It is matched with an electric scroll compressor to deliver the highest possible cooling capacity in the smallest package possible.

Energy Efficient

With an A++ energy rating and low operating sound levels, these units are one of the most energy efficient options available on the market today.

Noise Reduction

School buses are designed to protect children from noise, not create it. Our BD air conditioning systems reduce engine noise so that students can concentrate better on their school trip.





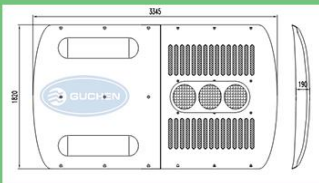
BD Series Air Conditioners for 6m-18m School Bus



For 7-8m Bus



L: 2987mm
W: 1704mm
H: 206mm



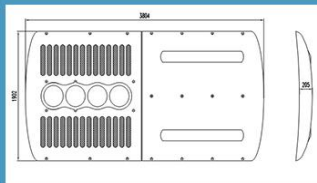
BD-03



For 9-11m City Bus



L: 3804mm
W: 1902mm
H: 205mm



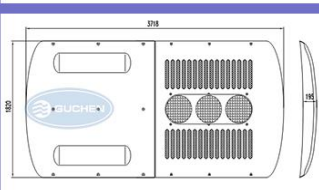
BD-05



For 8-9m Bus



L: 3335mm
W: 1820mm
H: 187mm



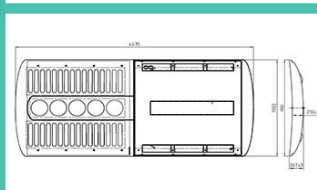
BD-04



For 10-12m City Bus



L: 4435mm
W: 1902mm
H: 210mm



BD-06

The BD series is designed to meet the needs of schools, non-profit organizations and other similar businesses.

Available in Different Sizes Ranging from 22kw to 32kw Power Ranges

Each model has its own set of features that make it unique, but all do a good job at keeping the temperature inside your vehicle comfortable for passengers.

An Ideal Solution for School Buses and Other Bus & Coach Applications

The special design makes the installation and maintenance more convenient. It also makes it easier to repair or replace parts when necessary. All BD units are made by using high quality raw material with strict production processes under our strict quality control system to ensure reliable performance every time you use it.

Guchen Industry Offers Efficient, Reliable and Cost-effective Air Conditioner for School Buses

We're a professional air-conditioning manufacturer in China. We produce all kinds of air-conditioning systems and parts, including school buses, city buses, coaches, vans and trucks. Our products are exported to more than 20 countries and regions in Europe, America, Africa and Asia with high quality and favorable price.

Our goal is to provide customers with reliable products that meet their needs at reasonable prices.

We have a professional design team with more than 20 years experience in designing air-conditioning systems for school buses. Our engineers have been working together with customers from all over the world for many years on different types of school buses and vehicles with different specifications (standard or customized).



Contact Guchen Today!

Official Website: <https://www.guchen.com>

Email Address: info@guchen.com

Tel: 86 371 69152892