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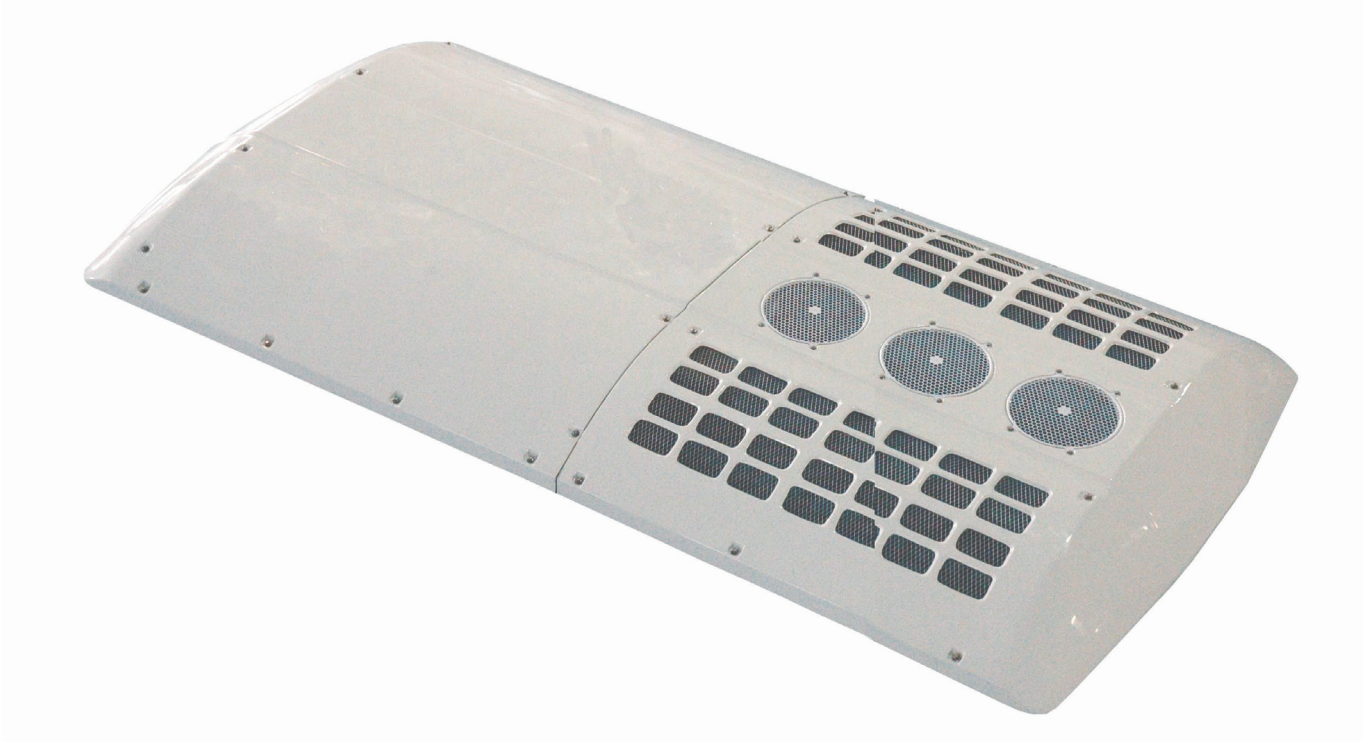
SZD-I-D Technical Information
Air Conditioner for Minibus



Cooling Capacity	Standard	16 kW or 54592 Btu/h
	Maximum	18 kW or 61416 Btu/h
Recommended Bus Length		7~8m
Compressor Model		AK33 or TM31 (DKS32)
Compressor Displacement		330 cc/r or 313 cc/r
Compressor Weight (with Clutch)		17 kg
Lubricant Type		PAG56
Expansion Valve Model		DANFOSS TGEN4.5 R134a
Air Flow Volume (Zero Pressure)	Condenser (Fan Quantity)	6000 m^3/h (3)
	Evaporator (Blower Quantity)	3600 m^3/h (4)
Roof Unit Dimension		3300x1620x219(mm)
Roof Unit Weight		130 kg
Electricity Consumption		54A (24V)
Refrigerant Weight		6 kg

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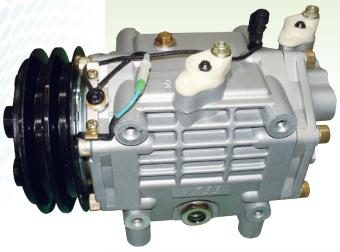
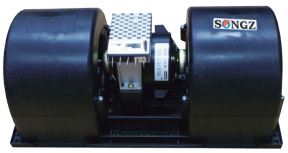


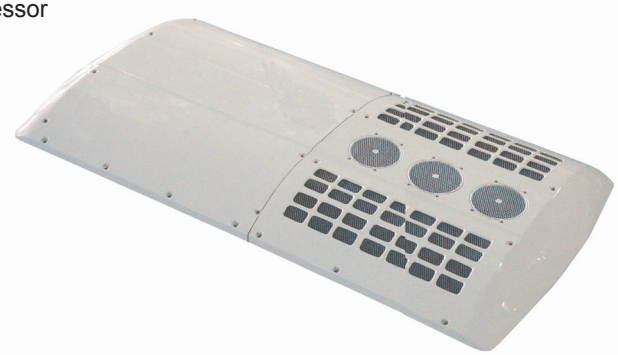
Compressor

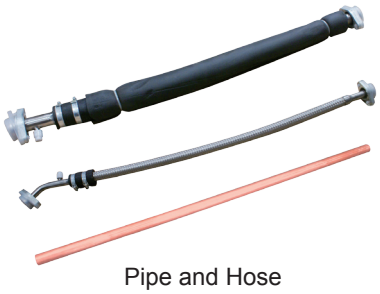
Condenser Fan



Evaporator Blower

Expansion Valve





Pipe and Hose

Control Panel

Air Return Grille

1. Evaporator Blower and Condenser Fan

SONGZ brand, the key components (like bearing and carbon brush) adopt famous brands, high air volume, low noise, high efficiency, expected life time is 6000 hours.
Note: SPAL fan and blower are optional (expected life time is 10000 hours).

2. Evaporator and Condenser Core

SONGZ brand, adopt small diameter (Ø7mm) and inner grooved copper tube, comparing to Ø9mm copper tube, the coefficient of heat transfer is improved by 5%, condensing temperature declines 2~3°C, system COP rises 5~8%, refrigerant filling declines 10%.

3. Expansion Valve

DANFOSS brand, high reliability, high adjustment accuracy and excellent performance.

4. Compressor

High efficiency, large displacement, steady quality.
Note: VALEO TM31 is optional.

5. Control Panel

Digital display, intelligent temperature control, waterproof design and fault indication.

6. Pipe and Hose

Adopt wired hose and copper pipe, the wired hose combine steel wire with high strength rubber, resistance to vibration, long life time. easy installation, good sealing performance.
Note: rubber hose is optional.

7. Air Return Grille

Adopt aluminum alloy, strong and durable, elegant appearance, various colors for selection.

8. Framework and Shell

The condenser adopts no foundation structure to acquire lower weight, system energy consumption is reduced. The framework adopts aluminum alloy, the shell adopts fiber glass. The roof unit has compact structure, elegant appearance, streamline design, small wind resistance.

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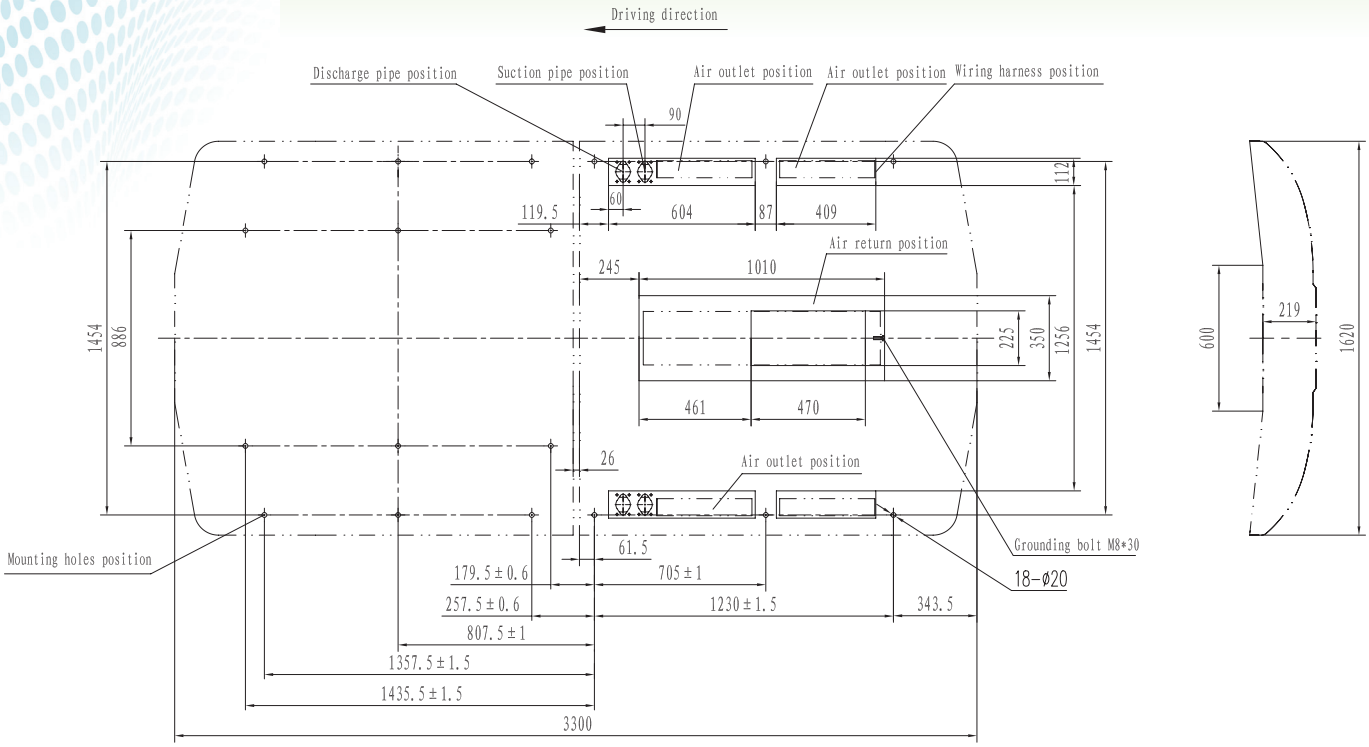
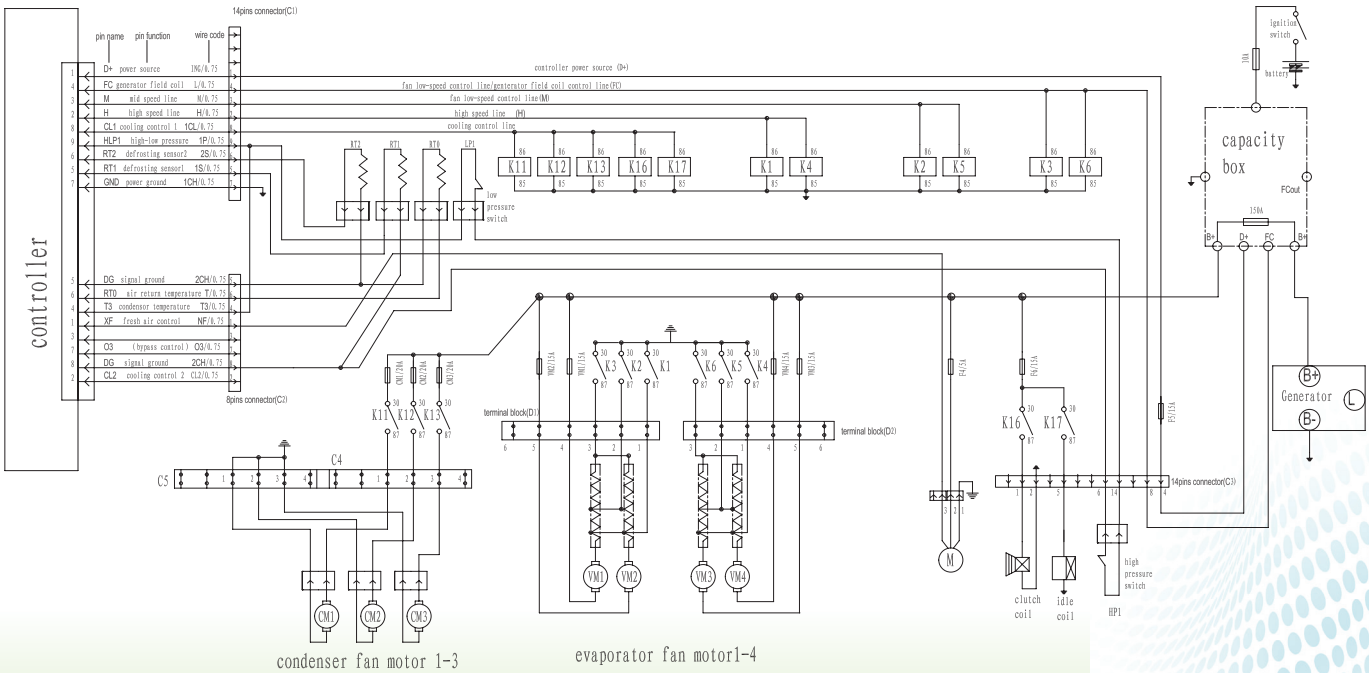
Outline and Installation Dimensions



Electrical Schematic Diagram



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SONGZ

Kits

No.	Name	Figure	No.	Name	Figure
1	The Wiring Harness of Vehicle Body		15	Nut	
2	Grounding Cable		16	Bolt	
3	Drain Hose		17	Screw	
4	The Wiring Harness of Control Panel		18	Elbow 90°	
5	Power Cable		19	Pipe Joint	
6	Bonding Belt		20	Copper Tube	
7	Drain Hose Clamp		21	Three-Way Pipe	
8	Annular Hoop		22	O-Ring Seal Packing	
9	Vibration Damping Rubber Pad		23	Lip Valve	
10	Vibration Damping Rubber Bar		24	Thermal Insulation	
11	Flat Spacer		25	Sealant	
12	Wired Hose Sheath		26	Rubber Spacer	
13	Platen		27	Fuse Assembly	
14	Elastic Gasket		28	Handbook	