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SONGZ
SONGZ INTERNATIONAL TRADING CO., LTD.

SONGZ

SONGZ INTERNATIONAL TRADING CO., LTD.
The subsidiary of
SONGZ AUTOMOBILE AIR CONDITIONING CO., LTD.



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OVERVIEW

Since established in 1998, SONGZ AUTOMOBILE AIR CONDITIONING CO., LTD. has committed to research, development, manufacturing and marketing in the field of transport temperature control systems. SONGZ devotes itself to automobile air conditioning systems as a premium brand and will become a world-class supplier with state-of-the-art technique and in-house processing in near future.

SONGZ UPDATE IN 2018 FISCAL YEAR:

635,000,000 + (US\$-Sales Revenue in 2018)

2,400,000+ (Passenger Car AC-Output in 2018)

54,049+ (Bus AC-Output in 2018, include 28,737 Sets Electric Bus AC)

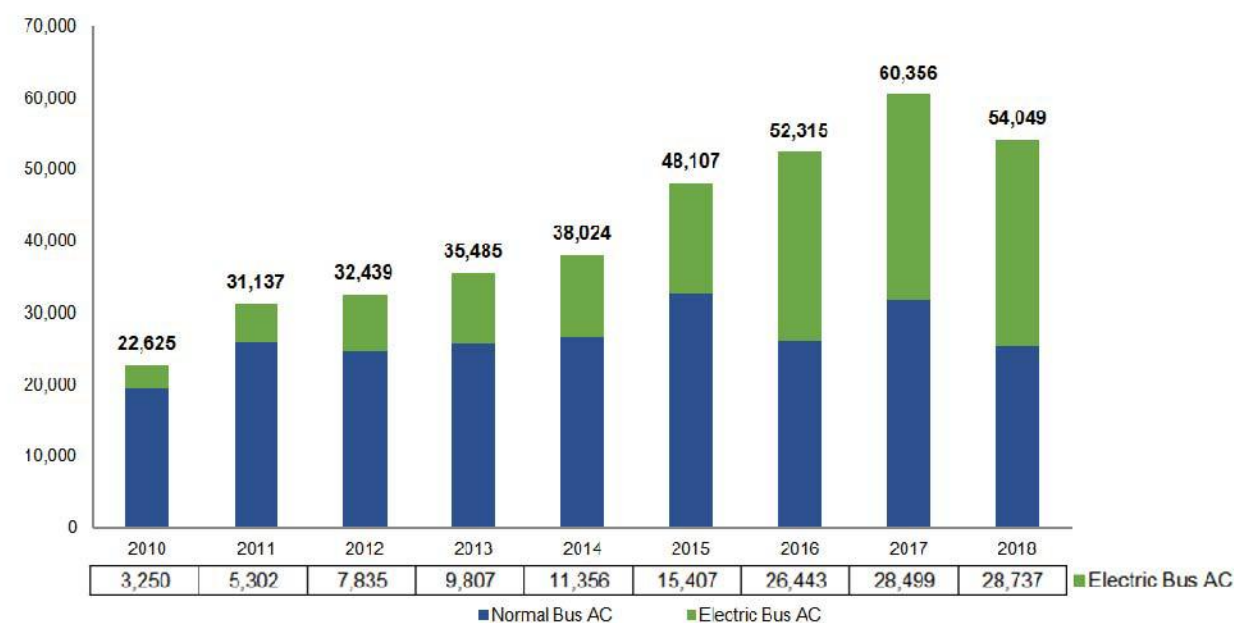
4,000+ (Headcounts)

3,000+ (Truck Refrigeration Units-Output in 2018)

1,000+ (Rail Transit AC-Output in 2018)

13+ (Manufacturing Bases)

SONGZ Bus AC Output



GLOBAL MARKET



DOMESTIC MARKET

By cooperating with more than 1000 Chinese key customers in the field of public transportation and bus manufacturing, SONGZ secures 35% domestic market share. SONGZ is supplying to almost all Chinese bus manufacturers, to name a few as below:



ELECTRIC BUS AIR CONDITIONING



KEY FEATURES:

- Cooling capacity ranges from 22 to 37kW, suitable for 8 to 12m electric buses.
- High efficiency: variable flow channel design to increase the heating transfer efficiency and reduce the refrigerant charging volume.
- Light weight.
- Long life span fans and blower motors.
- Low noise level, with wind pressing fan available.
- Third degree insulation and fire protection design, with high pressure anti-reverse function.
- Automatic temperature control system, digital display and self-diagnosis system makes it convenient for maintenance and service.
- Electric air conditioning for electric double decker bus is also available.
- Super E-bus AC with combined function of AC and BTMS can save space at bus roof greatly.

SPECIFICATIONS:

Unit Model		JLD-X/F-D	JLD-IG-D	JLD-IIG-D	EMA-V-D	EMA-VI-D
Cooling Capacity		22kW or 75064 Btu/h	26kW or 88712 Btu/h	37kW or 126244 Btu/h	32 kW or 109184 Btu/h	37 kW or 126244 Btu/h
Recommend Bus Length (m)		8~8.5	8.6~9.2	10.6~12.0	9.2~10.5	10.6~12.0
Expansion Valve		EMERSON	EMERSON	EMERSON	EMERSON	EMERSON
Compressor Model		PANASONIC	PANASONIC	PANASONIC	PANASONIC	PANASONIC
Lubricant Type		FV68S	FV68S	FV68S	FV68S	FV68S
Air Flow Quantity (Zero Pressure)	Condenser (Fan Quantity)	6000 m ³ /h (3)	5200 m ³ /h (3)	10000 m ³ /h (5)	8000 m ³ /h (4)	10000 m ³ /h (5)
	Evaporator (Blower Quantity)	3600 m ³ /h (4)	3200 m ³ /h (4)	6000 m ³ /h (6)	5400 m ³ /h (6)	6000 m ³ /h (6)
Roof Unit Dimension (mm)		2500×1870×240	3100×1906×250	3950×1906×250	3070×1900×250	3070 × 1900 × 250
Roof Unit Weight		210 kg	260 kg	330 kg	320 kg	330 kg
Electricity Consumption		6kW	6 kW	8.5 kW	7.5 kW	8.5 kW
Refrigerant Charging Volume		4.2 kg	6.8 kg	9.6 kg	7.5 kg	7.5 kg

BTMS (Battery Thermal Management System)

Model	JLE-XC-DB	JLE-XIC-DB
Cooling Capacity (kw)	4~6	6~8
Condenser Air Flow Volume (m ³ /h)	2000	4000
Input Power (kW)	≤2.8	≤3.6
Circulating Water (L/min)	20 (water head>10m)	20 (water head>10m)
Temperature Range of outlet (℃)	15~35	15~35
Condenser Air Flow Volume (m ³ /h)	2000	4000
Dimension mm	1370*1030*280	1370*1030*280
Weight kg	58	67

MINIBUS AIR CONDITIONING



SZGZ-I/F-D



SZG-IX-D



TCA-IX-D

KEY FEATURES:

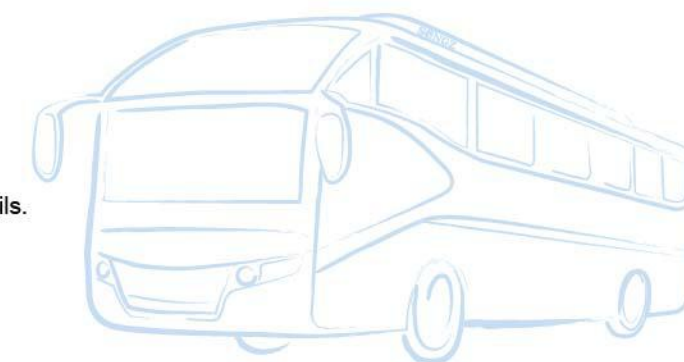
- Tailor to Minibuses.
- Cooling capacity ranges from 6kW to 20kW, suitable for 5-7m minibuses.
- Versatile narrow-body design makes it applicable to most minibuses.
- Copper tube aluminum fin structure evaporator and parallel flow type condenser.
- Automatic temperature control system with digital display and self-diagnosis system makes it convenient for maintenance and service.

SPECIFICATIONS:

Unit Model		TCA-IX-D	TCA-X-D	SZG-IX-D	SZG-X-D	SZGZ-I-D	SZGZ-I/F-D
Cooling Capacity	Standard	6kW or 20472 Btu/h	8kW or 27296 Btu/h	8kW or 27296 Btu/h	12kW or 40944 Btu/h	16kW or 54592 Btu/h	18kW or 61416 Btu/h
	Maximum	8kW or 27296 Btu/h	10kW or 34120 Btu/h	10kW or 34120 Btu/h	14kW or 47768 Btu/h	18kW or 61416 Btu/h	20kW or 68240 Btu/h
Recommended Bus Length (m)		5.9m(14/17seats) Sprinter	6.5m(14/17seats) Sprinter	5.0~5.5	5.0~6.0	6.0~6.5	6.5~6.9
Compressor Model		TM21	TM21	TM21	AK27	AK33	AK33
Compressor Displacement		210 cc/r	210 cc/r	210cc/r	270 cc/r	330 cc/r	330 cc/r
Compressor Weight (clutch is not included)		8.1kg	8.1kg	8.1 kg	15kg	17kg	17kg
Lubricant Type		PAG100	PAG100	PAG100	PAG56	PAG56	PAG56
Expansion Valve Model		SANHUA	SANHUA	DANFOSS	DANFOSS	DANFOSS	DANFOSS
Air Flow Volume (Zero Pressure)	Condenser (Fan Quantity)	3000 m ³ /h (2)	2000 m ³ /h (2)	4400 m ³ /h (2)	4400 m ³ /h (2)	4400 m ³ /h (2)	6000 m ³ /h (3)
	Evaporator (Blower Quantity)	900 m ³ /h (1)	1800 m ³ /h (2)	1800 m ³ /h (2)	3600 m ³ /h (4)	3600 m ³ /h (4)	3600 m ³ /h (4)
Roof Unit Dimension (mm)		1500×1060×330	1970×1380×205	1300×1090×215	2080×1640×177	2382×1640×183	2382×1640×183
Roof Unit Weight		34kg	45kg	45 kg	90 kg	110 kg	110 kg
Electricity Consumption		50A (12V)	56A (12V)	45A (24V)	55A (24V)	55A (24V)	65A (24V)
Refrigerant Charging Volume		0.9kg	1.4kg	1.0 kg	1.4 kg	2.5kg	2.5 kg

NOTE:

- The refrigerant is R134a.
- Compressor VALEO TM series and DKS series are optional.
- SPAL brand condenser fans and blower motors are optional.
- Customizable.
- Voltage 12V is optional.
- Cooling testing conditions: SZ/QB 42-2016.
- Please contact us at sales@shsongz.cn for more options and details.



BUS AIR CONDITIONING



↓ SZGZ-II/F-D



↓ SZR-V/F-D



↓ MSA-VI-D

KEY FEATURES:

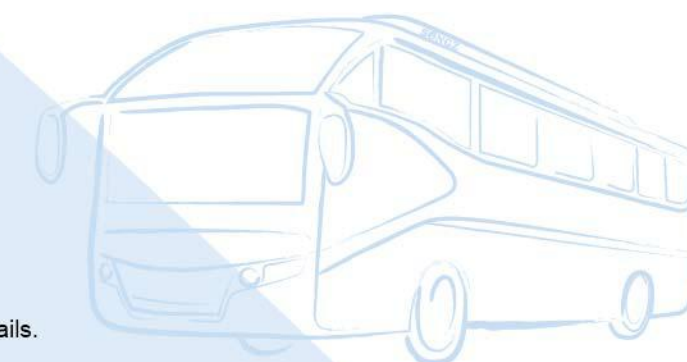
- Cooling capacity ranges from 20kW to 40kW, suitable for 7-12.9m bus and coach, articulated bus and etc.
- Streamline appearance, with strong anti-wind capability.
- Anti-corrosion and anti-tough climatic conditions capability.
- Adoption of $\phi 7$ mm inner-grooved copper tube for heat exchanger can achieve energy saving, and low oil consumption.
- Automatic temperature control system with digital display and self-diagnosis system makes it convenient for maintenance and service.
- Air conditioning for double decker bus is also available.

SPECIFICATIONS:

Unit Model		SZGZ-II-D	SZGZ-II/F-D	MSA-V/F-D	SZR-V/F-D	MSA-VI-D	SZR-VI-D	SZR-VI/F-D
Cooling Capacity	Standard	20kW or 68240 Btu/h	22kW or 75064 Btu/h	33 kW or 112596 Btu/h	33kW or 112596 Btu/h	35 kW or 119420 Btu/h	35kW or 119420 Btu/h	37 kW or 126244 Btu/h
	Maximum	22kW or 75064 Btu/h	24kW or 81888 Btu/h	36 kW or 122832 Btu/h	36kW or 122832 Btu/h	38 kW or 129656 Btu/h	38kW or 129656 Btu/h	40 kW or 136480 Btu/h
Recommended Bus Length (m)		7.0~7.5	7.5~8.4	10.5~10.9	11.0~11.4	11.0~12.0	11.5~11.9	12.1~12.9
Compressor Model		AK38	TC-410	4NFCY	4NFCY	4NFCY	4NFCY	4GFCY
Compressor Displacement		380 cc/r	410 cc/r	650 cc/r	650 cc/r	650 cc/r	650 cc/r	750 cc/r
Compressor Weight (clutch is not included)		17 kg	33 kg	33 kg	33 kg	33 kg	33 kg	34kg
Lubricant Type		PAG56	POE	BSE55	BSE55	BSE55	BSE55	BSE55
Expansion Valve Model		DANFOSS	DANFOSS	DANFOSS	DANFOSS	DANFOSS	DANFOSS	DANFOSS
Air Flow Volume (Zero Pressure)	Condenser (Fan Quantity)	6000 m ³ /h (3)	6000 m ³ /h (3)	8400 m ³ /h (4)	8400 m ³ /h (4)	10500 m ³ /h (5)	10500 m ³ /h (5)	10500 m ³ /h (5)
	Evaporator (Blower Quantity)	3600 m ³ /h (4)	3600 m ³ /h (4)	7200 m ³ /h (8)	7200 m ³ /h (8)	7200 m ³ /h (8)	7200 m ³ /h (8)	7200 m ³ /h (8)
Roof Unit Dimension (mm)		2382×1640×183	2382×1640×183	3400X1860X249	4280x1860X188	3400x1860x249	4480×1860×188	4480x1860x188
Roof Unit Weight		110 kg	110 kg	210 kg	215 kg	215 kg	228 kg	228Kg
Electricity Consumption		65A(24V)	65A (24V)	90A (24V)	92.5A(24V)	98A (24V)	98A(24V)	98A (24V)
Refrigerant Charging Volume		2.7kg	2.7kg	7.5 Kg	9 kg	8 Kg	10 kg	10 Kg

NOTE:

- The refrigerant is R134a.
- Heating function is optional.
- Compressor BOCK and VALEO series are optional.
- Fresh air device is optional.
- SPAL fans and blowers are optional.
- Customizable.
- Aluminium micro chanel condenser coil for SZG series.
- Cooling testing conditions: SZ/QB 42-2016.
- Please contact us at sales@shsongz.cn for more options and details.





DIRECT DRIVE TRUCK REFRIGERATION SERIES

SPECIFICATIONS:



SC200
Evaporator



SC200
Condenser



SC250-T
Evaporator



SC250-T
Condenser

KEY FEATURES:

- Electric stand-by unit is optional.
- Application of box volume is for reference only, the actual application of volume relates to truck body thermal insulation properties, temperature, and cargo loaded.
- Applicable to 2m~9.6m long truck that used for short or middle distance transportation.
- Wide range of operating temperature:-30~+50℃ ambient temperature.
- Hot-gas defrost system with defrost temperature controller, safe, fast, and reliable to keep the quality of the cargo.
- The evaporator adopts super-thin coil to save more space for the cabinet.

Unit Model		SC160-T	SC200-T	SC250-T	SC200	SC300	SC380
Applicable temperature(℃)		-25~20℃	-25~20℃	-25~20℃	-25~20℃	-25~20℃	-25~20℃
Applicable volume(m ³)		3~6	4~8	8~12	4~8	12~16	14~20
Applicable volume -18℃(m ³)		5	6	8	6	10	18
Cooling capacity (w)	1.7℃	1900	2100	2350	2100	2900	3900
	-17.8℃	1120	1210	1350	1210	1800	2300
Compressor	Model	QP13	SD7L13/QP13	SD7L15/QP16	SD7L13/QP13	SD7L15/QP16	SD7L15/QP16
	Displacement	131cc	129cc/131cc	154cc/163cc	129cc/131cc	154cc/163cc	154cc/163cc
Refrigerant		R404A	R404A	R404A	R404A	R404A	R404A
Refrigerant charging volume		0.9	0.95	1.2	0.95	1.1	1.5
Dimensions (mm)	Evaporator	606*525*165	606*525*165	1007*595*180	606*525*165	1007*595*180	1207*595*180
	Condenser	850*640*130	1120*635*185	1120*635*185	820*535*195	1006*586*213	1150*515*352
Weight(kg)	Evaporator	12	12	21	12	21	26.5
	Condenser	16.6	27	27	18	25	32

Unit Model		ZT400	SC550	SC660	SC760	SC960	SC980
Applicable temperature(℃)		-25~20℃	-25~20℃	-25~20℃	-25~20℃	-25~20℃	-25~20℃
Applicable volume(m ³)		16~20	16~25	25~35	35~45	45~60	45~60
Applicable volume -18℃(m ³)		16	24	30	40	55	55
Cooling capacity (w)	1.7℃	4250	4900	5800	6800	8200	8200
	-17.8℃	2420	2800	3250	3700	4520	4520
Compressor	Model	SD7L15/QP16	QP16	QP21	QP21	QP31	QP31
	Displacement	154cc/163cc	163cc	215cc	215cc	313cc	313cc
Refrigerant		R404A	R404A	R404A	R404A	R404A	R404A
Refrigerant charging volume		1.5	1.9	3.8	4.3	4.7	4.3
Dimensions (mm)	Evaporator	1508*608*652	1557*595*180	1557*620*202	1220*652*320	1220*652*320	1220*652*320
	Condenser		1400*540*511	1400*540*511	1400*540*511	1400*540*511	2164*397*300
Weight(kg)	Evaporator	95	31	38	55	60	60
	Condenser		50	52	52	55	62

SELF-POWERED TRUCK REFRIGERATION SERIES



SC90D



SC80D

KEY FEATURES:

- Electric stand-by unit is optional.
- Applicable for 7~10.5m long heavy truck that used for long-distance transportation.
- Dual-power refrigeration: the diesel engine can provide power for refrigeration during the transportation, the spare motor can provide power while the truck stops.
- Wide range of operating temperature:-30~+50℃ ambient temperature.
- With more space available: adopt unique compact condenser to save more space for the cabinet.
- Adopt tilt design mini-evaporator to ensure an open space for the lower part of the carriage and save more space for the cabinet.
- Easy to maintain: the auto-detecting system within the unit can reduce fault possibility.
- Hot-gas defrost system with defrost temperature controller, safe, fast, and reliable to keep the quality of the cargo loaded.
- The imported refrigeration and protection parts ensure precise temperature control and reliable operation.

SPECIFICATIONS:

Unit Model		SC80D	SC90D
Applicable temperature(℃)		-25~20℃	
Applicable volume(m ³)		40~52	46~70
Cooling capacity Engine drive(W)	1.7℃	8200	9200
	-17.8℃	4500	5600
Cooling capacity Electric motor drive	1.7℃	6550	7350
	-17.8℃	4150	4950
Compressor	Model	4TFRY	4TFRY
	Lubricating oil	SE55	
Condenser	Type	Inner spiral copper pipe/aluminum fin	
	Fan model	Axial fan	
Evaporator	Type	Inner spiral copper pipe/aluminum fin	
	Fan model	Axial fan	
	Voltage	12V DC	
Unit drive engine		1131cc	1131cc
Standby electric motor	Power(kw)	9	9
	Power supply(V/HZ)	380V/3Phase/50HZ	
Refrigerant		R404A	
Refrigerant charge(kg)		5	5.2
Weight(kg)		500	530

NOTE:

- The refrigerant is R404A.
- Heating function is optional.
- Customizable.
- Cooling testing conditions: SZ/QB 42-2016.
- Please contact us at sales@shsongz.cn for more options and details.



RAIL TRANSIT AIR CONDITIONING SERIES

SONGZ established rail transit air conditioning business from 2009 in R&D, manufacturing and marketing. With 10 years development, SONGZ has wide range of AC models for rail vehicles, such as AC for locomotive, train, monorail, metro, tram and so on. We would like to share some of the models as in below for your reference.

SPECIFICATIONS:

Unit Model		KLDL09AMA	KLDL21AHA	KLDR22AZA	KLDL38BBA	KLDR40BAA
Applicable Vehicle Type		AC for Locomotive	AC for Train	AC for Monorail	AC for Metro	AC for Tram
External Dimensions(mm)		1885 x 1400 x 295	2450 x 1640 x 500	2685 x 1600 x 275	3800 x 1600 x 300	2800 x 1800 x 510
Cooling Capacity(kW)		9	21	22	38	42
Air Volume	Supply Air(m³/h)	1200	2500	3000	4500	4500
	Fresh Air(m³/h)	180	800	1000	1300	1525
Rated Power Consumption(kW)		4.6	10	10.5	18	17.5
Design Condition	Outdoor	36℃ DB	35℃ DB	32℃ DB	36℃ DB	35.2℃ DB
	Mixed air	25.8℃ DB, 60% RH	29℃ DB, 60% RH	28℃ DB, 60% RH	30.2℃ DB, 65% RH	29.5℃ DB, 61% RH
High Temperature Limit(Full Load)		50℃	45℃		47℃	45℃
Power Supply	Main Circuit	3P / 400V AC / 50 Hz	3P / 415V AC / 50 Hz	3P / 380V AC / 50 Hz		DC750V
	Control Circuit	DC74V	DC24V	DC110V		DC24V
Number of Compressor		1	2	1	2	
Weight(kg)		254	450	450	740	630
Housing Material		Stainless Steel	Aluminum Alloy	Stainless Steel		Aluminum Alloy
Shock and Vibration Standards		IEC61373:1999 Class I Level A			IEC61373:2010 Class I Level A	
Refrigerant		R134a	R407c			R410a

NOTE:

Customizable.

Please contact us at sales@shsongz.cn for more options and details.

HONOR & CERTIFICATES



Beijing Olympics "Service Champion"



BAAV Best BUS AC Manufacturer



Excellent Supplier for ZHONGTONG



Excellent Supplier for HINO, Philippines



Supplier Laboratory Accreditation Certificate for BYD



Excellent Supplier for CRRC



Excellent Supplier for FOTON



Excellent Supplier for SANY



IATF16949: 2016



European Conformity



IRIS Certificate



CNAS Lab Accreditation Certificate

PRODUCTS APPLICATION



Yutong 300 New Energy Bus at the
1st China International Import Expo (China)



BYD 100 New Energy Bus at Satiago (Chile)



Foton 1,000 Bus at Naypyidaw (Myanmar)



Ankai (JAC) 3,000 Bus at Riyadh (Saudi Arabia)



BYD 20 New Energy Bus at Guayaquil (Ecuador)



Bozankaya 20 New Energy Bus at Izmir (Turkey)



Howo (Sino Truck) 2,100 Bus at Jinan (China)



LIAZ 5,847 Bus at Moscow (Russia)

SONGZ MANUFACTURING BASES

