

# SZQ-IV/F-D Technical Information

## Air Conditioner for bus



Model:		SZQ-IV/F-D
Cooling Capacity (Evaporator Room 40°C/ 45%RH / Condenser Room 30°C)	Standard	30 kW or 102360 Btu/h
	Maximum	33 kW or 112596 Btu/h
Recommended Bus Length (Applicable to China's climate )		10.0~ 10.4 m
Compressor	Model	4NFCY
	Displacement	650 cc/r
	Weight (with Clutch)	32kg
	Lubricant Type	BSE55
Expansion Valve		Danfoss
Air Flow Volume(Zero Pressure)	Condenser (Fan Quantity)	8400 m3/h (4)
	Evaporator (Blower Quantity)	5400 m3 /h (6)
Roof Unit	Dimension	3880×1860×188(mm)
	Weight	177 kg
Power Consumption		76 A (24V)
Refrigerant	Type	R134a
	Weight	5.0 kg



Compressor



Condenser Fan



Evaporator Blower



Expansion Valve



Control Panel



Pipe and Hose



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.

### 2. Evaporator and Condenser Core

SONGZ brand, adopt small diameter ( $\varnothing 7\text{mm}$ ) and inner grooved copper tube, comparing to  $\varnothing 9\text{mm}$  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

Bitzer brand, high efficiency, large displacement, steady quality.

### 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 framework adopt aluminum alloy, the shell adopts SMC material. The roof unit has compact structure, elegant appearance, streamline design, small wind resistance.