

# ESA-II-H Technical Information Air Conditioner for Electric Bus



Model:		ESA-II-H
Cooling Capacity (Evaporator Room 40°C/ 45%RH / Condenser Room 30°C)	Standard	10~20 kW (Variable frequency adjustable)
Heat pump Heating Capacity		20-30 kW (Variable frequency adjustable)
Recommended Bus Length (Applicable to China's climate )		7.5 ~8.2 m
Compressor		HITACHI
Expansion Valve		Danfoss/Emerson
Air Flow Volume(Zero Pressure)	Condenser (Fan Quantity)	6600 m3/h (3)
	Evaporator (Blower Quantity)	3600 m3 /h (4)
	Fresh air	1080 m3 /h
Roof Unit	Dimension	2520x1600x200(240)(mm)
	Weight	130 kg
Power Consumption		100A (24V)
Refrigerant	Type	R407C



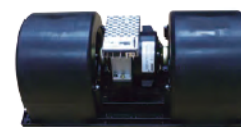
Expansion Valve



Compressor



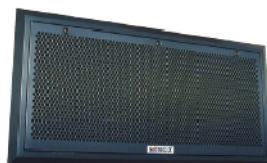
Condenser Fan



Evaporator Blower



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.

## 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

Highly brand, made in Japan, hermetically sealed electric compressor, high efficiency, steady quality.

## 5. Control Panel

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

## 6. Air Return Grille

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

## 7. Framework and Shell

The framework and shell adopt high strength fiber glass. The roof unit has compact structure, elegant appearance, streamline design, small wind resistance.