

ESD-III-BNSD Technical Information

Air Conditioner for ElectricBus



Model:		ESD-III-BNSD
Cooling Capacity	Standard	12~24 kW (Variable frequency adjustable)
Compressor		HIGHLY DC250-750V (Adjustable)
Recommended Bus Length (Applicable to China's climate)		7.5-8.4m
Air Flow Volume(Zero Pressure)	Condenser (Fan Quantity)	6000 m3/h (3)
	Evaporator (Blower Quantity)	4000 m3 /h (4)
	Fresh air	1800 m3 /h
Roof Unit	Dimension	2670(L)×2000(W) ×278(H)mm
	Weight	248kg
Cooling Power Consumption	Cooling	6.0KW
Refrigerant	Type	R407C
Optional		
BTMS	charging	≤10kw(outlet water 7℃-15℃)
	discharging	1~3.5kw(outlet water 10℃-20℃)
Cloud Control (Optional)	Remote control check failure, Improve product services through big data applications	
Air purification function (Optional)	Contains four major functions: electrostatic dust collection, ultraviolet light, ion generator, and photocatalyst filtering, to achieve sterilization, deodorization and efficient dust removal, and effectively block the virus transmission pathway;	



Expansion Valve



Compressor



Condenser Fan



Control Panel



Control Panel



Air Return Grille



Evaporator Blower

1. Evaporator Blower and Condenser Fan

EBM brand, the key components (like bearing and carbon brush) adopt famous brands, high air volume, low noise, high efficiency.

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 $2\sim 3^{\circ}\text{C}$, system COP rises 5~8%, refrigerant filling declines 10%.

3. Expansion Valve

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

4. Compressor

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

8. Product EMC meets GB / T 18655 level 3 requirements.

The system adopts independent intellectual property rights insulation design, which is safe and reliable.