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Code: 201108 Ver.2

ESD-VI-BNSD Technical Information Air Conditioner for Electric Bus



| Model: | | ESD-VI-BNSD |
|---|--|---|
| Cooling Capacity | Standard | 24~37 kW(Variable frequency adjustable) |
| Compressor | | HIGHLY DC250-750V (Adjustable) |
| Recommended Bus Length (Applicable to China's climate) | | 10.5-12m |
| Air Flow Volume(Zero Pressure) | Condenser (Fan Quantity) | 10000 m3/h (5) |
| | Evaporator (Blower Quantity) | 6000 m3 /h (6) |
| | Fresh air | 1800 m3 /h |
| Roof Unit | Dimension | 3170(L)×2000(W) ×278(H)mm |
| | Weight | 275kg |
| power Consumption | Cooling | 8.5kw |
| Refrigerant | Туре | R407C |
| Optional | | |
| BTMS | charging | ≤10kw(outlet water 7°C-15°C) |
| | discharging | 1~3.5kw(outlet water 10℃-20℃) |
| Cloud Control (Optional) | Remote control check failure, | |
| | Improve product serv | vices 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; | |

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Condenser Fan



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, highefficiency.

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

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

4. Compressor

HIGHLY brand, hermetically sealed electric compressor, high efficiency, steadyquality.

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.