

All-electric A/C system for small e-powered buses

MINISPHERE-E



Small e-cooling with strong impact

Spheros Minisphere-E is the right answer for the growing demand for air conditioning in an increasing market of electrified mini-, midi- and microbuses in Europe, North and South America. Besides a consequent lightweight construction the unit provides different energy saving features, such as a flat aerodynamic design, full system controllability via CAN and the fresh air ventilation that saves energy especially during spring and autumn. Based on identical interfaces Minisphere-E enables a wide range of applications.

All-electric A/C solution for e-powered minibuses

HIGHLIGHTS



Low life-cycle costs

- Lightweight construction and a flat aerodynamic design (<190mm) result in low fuel consumption



Environmentally friendly

- A/C ventilation with lowest possible energy demand
- Energy saving due to fresh air ventilation, especially during spring and autumn



Easy to install

- Plug and play unit for fast and easy installation: high voltage compressor incl. inverter and piping integrated in the unit



Comfort

- Available for hot and moderate warm climate zones
- Broad application range
- Platform with different features, interfaces for all versions are identical
- Full system controllability via CAN, diagnosis and energy status available
- Reduce of fog shot due to de-humidification mode (optional)



Optional

- PTC in roof unit
- Heat pump
- Fresh air

TECHNICAL DATA

	Minisphere-E
Max. cooling capacity, full load (kW)	11
Cooling capacity, partial load (kW)	5.3
Heating capacity heat pump / PTC (both optional, in kW)	6 / 5
Air flow volume cooling (m³/h)	2,000
Air flow volume fresh air (m³/h)	500
Electrical consumption cooling (kW)	5.7
COP cooling	2.0
Number of blowers / fans	2 / 2
Compressor	400 V optional 800 V
Weight (kg)	app. 70
Dimensions L x W x H (mm)	1,421 x 1,310 x 184
	RFQ ready