

All-electric rooftop air conditioning unit for electro and hybrid buses

REVO[®]-E GLOBAL



Strong lightweight electrifies the world

The REVO[®]-E Global is supplementing our range of all-electric rooftop air conditioning units and is specifically oriented to the demands of the global markets. A special emphasis was placed on lightweight construction, performance and simple installation. In addition to heat pump technology, customers also have the option of PTC heating.

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SPHEROS

HIGHLIGHTS



Low life-cycle costs

- Low consumption of energy due to low unit weight
- Short dimensions allow space for battery system on the roof
- Long duration due to brushless EC blowers
- Nearly maintenance-free



Environmentally friendly

- Safety against leakage due to the hermetically sealed refrigerant circuit
- Noise emissions optimized



Comfort

- Cooling capacity from 23 to 33 kW
- Heating with PTC heater or heat pump possible as an option
- Tropical version: deployment up to 55°C outside temperature



Range of driving

- Maximization of the range due to the low unit weight
- Optimized power consumption
- Variable regulation of the PTC heater



Others

- Integrated compressor, no installation of refrigerant lines necessary
- Designed for R 134a & R 407C



Optionally with PTC heating, available in 20 kW versions.

PTC HEATER

The new high-voltage PTC heaters complement our heating systems. They are intended for use whenever there is simply an additional need for heating. In operation the PTC heaters can be infinitely adjusted by means of an electronic control unit developed by Valeo.

TECHNICAL DATA

REVO®-E Global REVO®-E Global T	Version 1 Cooling	Version 1 Tropo Cooling (application up to 55 °C)	Version 2 Cooling + PTC heater	Version 3 Cooling + heat pump	Version 4 Cooling + heat pump + PTC heater
Cooling capacity (kW) Refrigerant R 134a Refrigerant R 407c	85,300 112,600	- 112,600	85,300 112,600	78,500 102,400	78,500 102,400
Heating pump capacity (kW) Refrigerant R 134a Refrigerant R 407c	- -	- -	- -	44,300 64,800	44,300 64,800
Current consumption (A) (26V DC)	nominal 70 ¹⁾	nominal 70 ¹⁾	nominal 70 ¹⁾	nominal 70 ¹⁾	nominal 70 ¹⁾
Current consumption (A) (600V DC) Refrigerant R 134a Refrigerant R 407c	Cooling max.12 ²⁾ /regulated 7 ³⁾ Cooling max.18/regulated 11	- Cooling max.18/regulated 11	Cooling max.12 ²⁾ /regulated 7 ³⁾ Cooling max.18/regulated 11	Cooling max.12/Heat pump max.10 ⁴⁾ Cooling max.15/Heat pump max.14	Cooling max.12/Heat pump max.10 ⁴⁾ Cooling max.15/Heat pump max.14
PTC heater (optional) (kW)	-	-	0 - 20	-	0 - 20
Fresh air	optional	-	optional	optional	optional
Weight (lbs.)	507	524	551	551	595
Dimensions L x W X H (in)	122 x 75 x 11.6	140 x 75 x 11.6	122 x 75 x 11.6	122 x 75 x 11.6	122 x 75 x 11.6

1) Nominal (condenser 80%) (evaporator 70%)

3) regulated (temperature passenger compartment at set-point 27 °C and ambient 35 °C)

2) Cooling maximum (compressor speed 90 Hz)

4) Heat pump maximum (compressor speed 90 Hz)