

ALL-ELECTRIC ROOFTOP AIR CONDITIONING UNIT FOR ELECTRO- AND HYBRID BUSES

CC 205-E



The CC205-E 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, customers also have the option of PTC heating.

BEST BUS CLIMATE



HIGHLIGHTS



Life-cycle

- Low consumption of energy due to low unit weight and the optimized thermal control system;
- 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;
- Contributes to the reduction in CO² emission, as it does not need mechanical energy.



Comfort

- Cooling capacity with intelligent variable control up to 25 kW;
- Optional PTC electric heating;
- Variable speed compressor.



Range of Driving

- Maximization of the range due to the low unit weight;
- Optimized power consumption through thermal management by integral proportional control.



Others

- Integrated compressor, no installation of refrigerant lines necessary;
- Better interface with all bus body builders OEM;
- Designed for R 134a.



Optionally with PTC heating, available in 10 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.

TECHNICAL DATA

Characteristics		Version 1 Cooling	Version 2 Cooling + PTC Heater
Supply voltage		450 - 900 Vdc	450 - 900 Vdc
Maximum Cooling Capacity		85.000 BTU/h (25kW)	85.000 BTU/h (25kW)
Maximum Heating Capacity		-	0-10 kW
Current Consumption 600V DC	Cooling PTC Heater	5A ⁽¹⁾ / 13A ⁽²⁾	5A ⁽¹⁾ / 13A ⁽²⁾ 15A ⁽²⁾
Fresh Air ⁽³⁾		0,25	0,25
Flow of Evaporator		4.400 m ³ /h	4.400 m ³ /h
Flow of Condenser		5.400 m ³ /h	5.400 m ³ /h
Temperature Cut-Off		> 55° C	> 55° C
Unit Weight		180 kg	185 kg
Refrigerant Gas ⁽⁴⁾		R134a - 2,8 kg + 0,5 kg ⁽⁵⁾	R134a - 2,8 kg + 0,5 kg ⁽⁵⁾
Dimension L x W x H (mm)		2646 x 1500 x 269	2646 x 1500 x 269
Roof Radius (mm)		5.500 - 8.000	5.500 - 8.000

(1) Regulated (temperature passenger compartment at set-point 27 °C and ambient 35 °C).

(2) Maximum speed (condenser 100% / evaporator 100%).

(3) Referring to the total flow of the free evaporator.

(4) Gas charge values changes to each application.

(5) Gas charge when cooling system has front box.