



SPHEROS

Roof-top air conditioner to meet tough demands

▶ CC305 / CC335 / CC 355

German engineering for worldwide mission



New

Lightweight – Low noise – Powerful



► Reduced to the max

More power – less weight,
smaller dimensions and lower costs

Just how do they do it? That's a question we hear again and again in the world's bus markets. With the CC-family we have indeed created something special for demanding markets.

It was developed for use in rugged conditions – in markets which are at the same time cost-sensitive, in which service and maintenance of the units must be simple, reliable and fast, e.g. with the aid of easy-access side flaps. But it will also appeal to markets requiring short, high-performance units for gas-powered and hybrid buses.

Special features:

- Higher performance with reduced weight
- Significantly smaller dimensions than its competitors: over 120 cm shorter and 12 cm narrower!
- Lighter axle load and reduced consumption; enables new standards of safety and comfort; complies with emission standards
- Power cooling ensures unrivalled rapid and even cooling of the passenger compartment



Developed for use in markets with rugged requirements



Reliable availability of spare parts and components

► We're close to you

Local sales and service

German engineering does not end with development and production. Our services extend to the aftermarket. Wherever you are located, our consulting, sales and service competence is available close to you.

Availability: reliable and fast

That's what keeps daily operations going: the reliable supply of spare parts within the shortest space of time. We attach great importance not only to the reliable application itself, but also to the assured availability of spare parts and components for our customers at fair prices.



► German engineering: what it means only to think in bus solutions

Nowhere are the requirements for ventilation and air conditioning more demanding than in buses. This is precisely where the technical expertise and market knowledge comes into play, as manifested in all products from the controls to the AC, and offered by the Spheros Group at its locations around the world.

We at Spheros focus our commitment in the air conditioning and ventilation sector exclusively

on the bus business – as we have done for many years at numerous locations. This has always required close cooperation between customers on site and the engineering specialists from Spheros Germany.

The result is premium quality, reliable components which are certified on site – after being put through their paces in accordance with stringent German engineering standards.

EC fan and blowers

- improved airflow
- high working cycle
- low noise



Spheros Control 300

► Controlled by Spheros Electronics

Clear design

- Logical layout
- Intuitive controls
- Reliable functioning

Smart Commands

- Fully automatic control of temperature and fresh air flap for reduced fuel consumption
- Two fan positions
- Alarm for fault diagnosis



German Engineering: air conditioning test station at Spheros



► Real advantages to the OEM and end user

- Service and maintenance: simple – reliable – fast
- High-quality, reliable components
- Low pressure – lower fuel consumption – longer service life
- Short unit, fits on gas-powered and hybrid buses
- high cooling capacity and airflow
- German engineering with local expertise
- Low weight, low axle load
- Low noise



Service: simple, reliable, fast

► Technical data

Technical data	CC 305	CC 335	CC 355
Max. Cooling capacity (kW) *	32	35	40
Air flow evaporator (free-blowing, m³/h)	4,200	6,300	6,300
Max. outside temperature (°C)	60	60	60
Current consumption (24V)	65 A	80 A	91 A
Refrigerant (CFC-free)	R 134 a	R 134 a	R 134 a
Compressor (cm³)	470	560	650
Weight (roof top unit, kg)	145	155	165
Dimensions L x B x H (mm)	3.480 x 1.700 x 200	3.480 x 1.700 x 200	3.480 x 1.700 x 200

* (evap. air in 40°C/46% r.h. ; ambient 35°C)

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