

Best Bus Climate Guaranteed

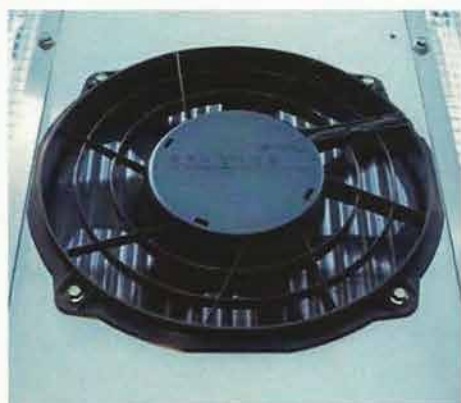

SPHEROS

▶ Aerosphere Tropical

Durability, reliability and long life



Powerful and flexible
for worldwide application



Super quiet brushless fan

► Air is our business

Climate-Solutions you can feel

The well-being of passengers has been our business for several decades and we are constantly developing new solutions. The impressive results are now embodied in the new Aerosphere Tropical:

- High cooling capacity even in the most extreme ambient temperatures at all times of the year
- Automatic temperature control all season
- Fresh air function for optimum travel comfort
- Super quiet brushless fan

German roots – at home all over the world

In the automotive and supply industry there are numerous examples of the successful combination of German engineering and worldwide production and service. True to its origins, the Aerosphere Tropical is:

- Designed, tested and produced according to European standards
- Supported by an established, optimum worldwide service network
- Best quality/price-performance ratio
- Shortest design in this class
- Lightweight with simple installation

► The sun never goes down on the Aerosphere Tropical!

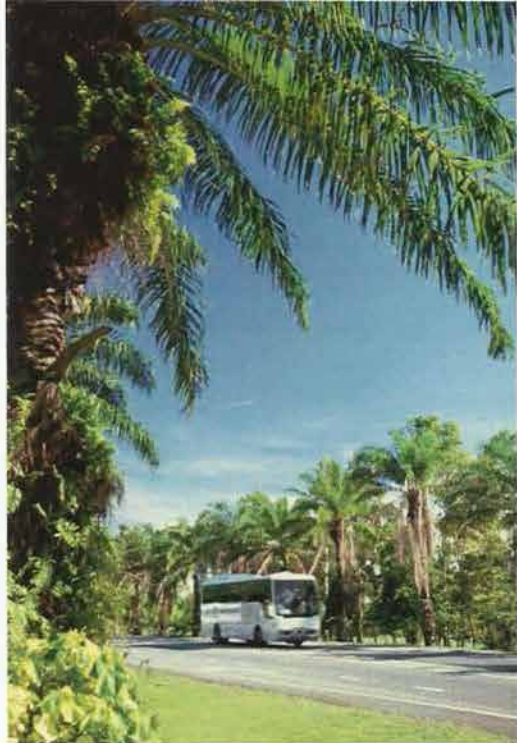
Always in operation – worldwide

The Aerosphere Tropical has become established internationally with an unsurpassed service network, and right now it is in operation somewhere in the world.

- | | | |
|-----------|---------------|-------------|
| • Mexico | • Germany | • China |
| • Brazil | • Turkey | • India |
| • Chile | • Iran | • Thailand |
| • Hungary | • Middle-East | • Singapore |
| | • Russia | • Malaysia |



The Aerosphere Tropical is always in operation somewhere in the world.



► Ecology – Economy – Ability

Good for customers –
good for business

At all our locations worldwide we work closely with our customers to actively accommodate their individual needs and wishes, in search of the latest and finest solutions.

The Aerosphere Tropical is a product of this fruitful cooperation, as evidenced in:

- Low life-cycle costs
- Optimum performance with the lowest energy consumption
- Lowest possible operating costs and fuel consumption

- Brushless blower and fan
- Low maintenance due to easy-access cover and 100% soldered effort refrigerant circuitry
- Best quality/price-performance ratio
Ecology – Economy – Ability

The Aerosphere Tropical demonstrates power and is surprisingly economical:

- Up to 50 kW cooling capacity (Aerosphere 420)
- 8,400 m³/hr evaporator air volume
- Low unit weight from 180 kg

Good for the environment –
good for us all

In the development of the Aerosphere Tropical our worldwide Spheros Team has always kept a focus on our self-imposed target “Blue Bus Climate”. In doing so we have achieved a number of successes in our quest for sustainability and resource conservation, e.g.:

- Low energy and fuel consumption
- High efficiency and resource conservation
- 100% soldered pipe work, avoiding loss of refrigerant



Blue Bus Climate



Our commitment for sustainability

As one of the leading developers and manufacturers of air conditioning systems for buses, Spheros takes its responsibility towards society and the environment very seriously. In particular in the development and introduction of technologically sophisticated product concepts, we always place a special emphasis on sustainability.

We work with commitment on new, resource-conserving and efficient concepts in an endeavour to become even better and make a valid contribution to a future that is safe and worth living.



► Believe at first sight

- Up to 50 kW cooling performance
- Compact unit (one piece) only 2,880 mm in length
- Extremely lightweight (< 200 kg)
- High reliability secured by German design
- Engineering-optimised in terms of life-cycle costs reduction
- Easy and safe installation
- Easy access for maintenance
- Lowest LCC
- Environmental protection due to soldered pipe work and lowest power consumption
- Well accepted by the market



- optional:
- fresh air flap
 - roof heating
 - re-heat function

► The Aerosphere Tropical models

Technical Data	Aerosphere 300	Aerosphere 350	Aerosphere 400	Aerosphere 420
Max. Cooling capacity (kW) *	35	40	47	50
Air flow evaporator (free-blowing, m ³ /h)	6,300	6,300	8,400	8,400
Max. ambient temperature (°C)	55	60	55	60
Current consumption (24V)	88 A	102 A	120 A	125 A
Refrigerant (CFC-free)	R 134 a	R 134 a	R 134 a	R 134 a
Compressor (cm ³)	560	650	≥ 650	≥ 650
Weight (roof top unit, kg)	180	200	230	233
Dimensions L × B × H (mm)	2,880 × 1,920 × 220	2,880 × 1,920 × 220	2,880 × 1,920 × 240	2,880 × 1,920 × 240

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