

Consistent quality



# ▶ Original Parts

Highest standards  
of reliability and durability



... the whole is nothing  
without its parts!

**Please note: the installation of non-original parts is risky!** This brochure highlights only a few examples of the risks involved. The use of any other reproduction parts may result in serious damage or total failure.



## ▶ Original means:

- Highest quality standards
- Reliability & durability
- Qualified service points & sales partners worldwide
- Exhaustive documentation
- Innovative overall solutions for the future

## ▶ Spheros: No substitute for originals

**As one of the leading developers and manufacturers of heating systems, air conditioners and roof hatches worldwide, Spheros GmbH offers customised total solutions for all aspects of bus climate control.**

To ensure that the high standards of function and reliability are maintained over the life-cycle of our products, there is no substitute for originals! That means not only functional reliability – it also saves costs. This way expensive repair and maintenance work can be avoided, service and operating costs cut.

This is only possible with a precise interfit of Spheros parts and units, exact coordination with vehicle manufacturers and many years of

experience in the market, hand in hand with the constant enhancement of our products.

The use of reproduction parts entails a number of serious risks. Performance deficits and incompatibility of the parts can cause premature wear, corrosion and related malfunction.

## ▶ Fan

Uncoordinated air flow due to non-original fans can cause serious impairment of the overall performance of the air conditioner. Condensation problems and incompatibility of the electronics diminish the reliability of the unit.

### Advantages of the Spheros fan:

- Noise-optimised
- Constant air supply
- Low life-cycle costs
- Reliable operation of the air conditioner



Brushless axial fan



Brushless radial fan

## ► Fresh air filter

The use of reproduction fresh air filters with diverging specifications for pressure drop, volumetric flow, fractional efficiency and dust retention capacity can result in considerably reduced performance levels. Low pressure shut-off, triggering of anti-icing to output losses of the entire air conditioning unit can be the outcome.

### Advantages of the Spheros fresh air filter:

- High-quality filter media, exact fit and impermeability
- Reliable separation of harmful particles according to the strict standards of the vehicle manufacturer
- Optimum air flow volume promotes the comfort and well-being of passengers
- Reliable functioning of the air conditioning system



Fresh air filter

## ► Fuel filter & nozzles

Due to the use of felt as internal sealing material, the reproduction filters are likely to become clogged after a short while. The nozzle spray pattern and angle may also be adversely affected.

A consequence of these undesirable effects can be massive malfunctions, even locking of the heaters.

### Advantages of Spheros fuel filters and nozzles:

- Highest degree of cleaning and functional reliability
- Long durability
- Fuel filters satisfy the highest demands in terms of flow and pressure stability
- Atomiser sprays tested for performance, spray angle and characteristics



Fuel filter



Fuel nozzles

## ► Circulating pumps

A technical comparison of the Aquavent 5000 (U4814) with foreign-made non-original parts has shown, for example, that the given performance criteria were not satisfied. Furthermore, the first failures occurred after only a short time due to leakage on the pump housing. This must be attributed to the use of plastics incapable of withstanding the temperatures of the heating circuit. Deformation of the pump housing is the result, and may even lead to total failure of the heater.

### Advantages of Spheros circulating pumps:

- Compact design
- High temperature resistance
- Full power output
- Leak tightness and long life



Spheros Aquavent 5000/5000S (top) and 6000C/6000SC pumps (bottom)



## ► 5 reasons why you should opt for original Spheros quality:

- Fine-tuning of components according to the vehicle manufacturer's specifications
- Parts are perfectly tailored to the needs of systems and devices
- Approval by Spheros only with original or other parts distributed by us
- Spheros accepts no liability for failures due to the use of reproduction parts
- Professional after-sales support



## ► The short path to long life:

For spare parts lists, installation & operating instructions and workshop manuals visit our website:

[international.spheros.de/service.aspx](http://international.spheros.de/service.aspx)

In the event of technical problems our Technical Service will be pleased to help you at **+49 (0) 8105 - 7721 887** or by e-mail: [service@spheros.de](mailto:service@spheros.de)

Original parts can be easily ordered through our sales partners..

To find the sales office nearest to you please check our website:

[international.spheros.de/service.service\\_network.international.aspx](http://international.spheros.de/service.service_network.international.aspx)

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