

Lumikko Technologies Oy

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BITZER develops a customised hybrid compressor for mobile applications for the new Lumikko L4 truck refrigeration unit

GAH and Lumikko present world premiere

- Double the drive: diesel engine and electric motor
- Lightweight, compact and powerful
- Simple maintenance and extensive service network

Sindelfingen, 23 October 2015. BITZER, the specialist for refrigeration compressors, has developed an innovative hybrid compressor for the new L4 truck refrigeration unit marketed by its Finnish subsidiary Lumikko. This is a mere glimpse of the future, as the hybrid technology will be available for the entire Lumikko product range in one to two years. The L4 and the new hybrid compressor were showcased at TCS&D in Peterborough at the GAH booth.

The new Lumikko system weighs in at just 400 kilograms and is therefore much lighter than any comparable systems. This is a key benefit, particularly in mobile applications, as it reduces fuel consumption, CO₂ emissions and costs. The integrated evaporator no longer takes up additional cargo space and therefore saves space, a novelty in this performance class. The L4 is designed for use in trucks exceeding 5.5 metric tons and is ideal, for example, for transporting temperature-sensitive products such as food.

Two types of drive: diesel engine and electric motor

The hybrid compressor of the L4 can be used with two types of drive: a diesel engine as an external source of drive and an integrated electric motor for standby operation. In low temperature operation,

the L4 achieves a refrigerating capacity of around 4 kW – both in diesel engine and electric motor operation. In normal temperature operation, both drive technologies are even capable of around 8 kW. The L4 is also flexible when it comes to refrigerants – and is compatible with R404A, R452A and others. BITZER manufactures the hybrid compressor at the global competence centre for reciprocating compressors in Schkeuditz near Leipzig, Germany, while Lumikko produces the L4 in Finland. Lumikko introduced the L4 along with the new hybrid compressor for the first time at the end of June 2015 at the Logistiikka-Kuljetus 2015 trade fair in Helsinki. In England, the truck refrigeration unit and compressor were on display at the TCS&D trade fair in Peterborough at the GAH stand between September 16 and 17.

Hybrid – technology of the future

Intensive monitoring ensures that the reciprocating compressor fulfils high standards in terms of quality, reliability and performance at all times, which BITZER has come to represent around the world. "The entire power train is exceptionally compact and powerful," says Tobias Fuhrer, Market Sector Manager Truck & Trailer at BITZER. "The compact, lightweight L4 is a real power pack that's setting benchmarks in its class. It represents an important step into the future – and the hybrid technology plays a key role for BITZER." Field testing on the new hybrid compressor system will begin in October 2015, with series production planned for the second quarter of 2016. BITZER will continue to promote hybrid technology: within one to two years, the driver of innovation in the refrigeration and air conditioning industry will apply this technology to the entire Lumikko product range. The colour display is also new, setting itself apart from the monochrome models of competitors. The display currently supports the languages German, English, Swedish, Finnish and Hebrew, with additional languages to follow.

Comprehensive service

The unit and compressor also demonstrate their strengths when it comes to maintenance: both are simple to install and service, as all the parts are very easy to access. Longer service intervals reduce costs and, users in the UK will soon be able to rely on the support of a local sales and service specialist as Lumikko will be represented by GAH Refrigeration Limited in the near future. Established in 1993 and based in Rendlesham, Suffolk, GAH designs and manufactures vehicle driven

refrigeration systems supplying a large percentage of systems for trucks weighing less than 3.5 metric tons in the UK.

GAH also have a network GAH employed mobile service engineers offering a full maintenance and breakdown service. GAH offer optimal support for all users. Statistically speaking, the company's employees are able to repair over 90 per cent of all malfunctions on-site, reducing downtime and costs.



The BITZER Group is the world's largest independent manufacturer of refrigeration compressors with sales companies and production sites for reciprocating, screw, and scroll compressors as well as pressure vessels all over the globe. In 2014, 3,400 employees generated sales of €657 million.

Overview of images

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INTEGRATED EVAPORATOR

The integrated evaporator enables flexible use of cargo space, thus optimizing transport capacity.

LIGHTWEIGHT AND COMPACT

The L4 reduces fuel consumption and increases cargo capacity, making the L4 the ideal system for trucks that exceed 5.5 metric tons.

DESIGN

The new design emphasizes Lumikko's dynamism, mobility and innovation, for which Lumikko is world renowned.

HYBRID COMPRESSOR

Thanks to the special combination of compressor and electric motor, the L4 is exceptionally compact and light.

COMPACT CONSTRUCTION

The L4 requires fewer parts and components, reducing life cycle costs. Its lightweight design and low maintenance costs also increase reliability and cost efficiency.

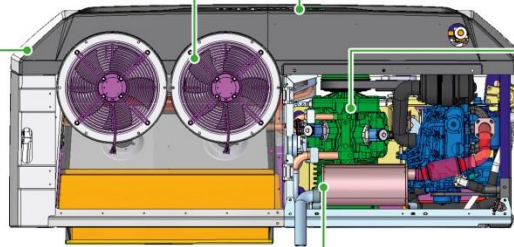


Image 1: The new Lumikko L4 weighs in at just 400 kilograms and is therefore much lighter than any comparable systems.



Image 2: The L4 and the new hybrid compressor made an appearance at TCS&D in Peterborough at the GAH trade fair stand.

Press Information



Image 3: The new L4 met with a great deal of interest among visitors at the TCS&D trade fair in Peterborough.



Image 4: Lumikko will be concluding an exclusive sales and service contract with GAH in the near future.