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FUEL-CELL GENERATOR



IT is called APU for 'Auxiliary Power Unit', a fuel-cell generator produced by Eberspächer and premiered at the IAA in Hannover. This generator helps reduce fuel consumption and emissions because it supplies energy to all on-board consumer components, during stationary as well as driving modes, through the electricity converted from diesel. Entirely independent from the

engine, the basis of the APU system is a high-temperature fuel-cell that generates electricity from fuel gas of fossil origin. The fuel gas is produced in a reformer where the diesel is mixed with air, generating a mixture that afterwards flows through a catalytic converter. The resulting fuel gas contains hydrogen and carbon monoxide. The APU maximum output is 3kW and efficiency can go up to 40 percent. To note that, thanks to the control electronics, the system produces only as much electricity as is actually required. Designed for the truck, it is possible that the APU will eventually also be used on buses.

COMPRESSORS

Compressor specialist Bitzer developed a new range of scroll compressors, the Speedlite ELV21, for mobile applications on transportation by bus, rail and many other vehicles. The major benefits of the two semi-hermetic Speedlite



ELV2109 and ELV2113 compared to their predecessors in the ECH series, are their reduced volume and 50% lighter weight (9 kg) with a cooling capacity ranging from 0.9 to 3.5 kW for the first and from 0.9 to 5.5 kW for the second. These features make them ideal for buses or trains where every reduction in space and weight decreases fuel consumption, costs and CO₂ emissions. Another strength is their compatibility with power supply voltages from 24 VDC to 400 VAC, making them universal for various applications.

TYRES

THE new U-AP 001 tyre by Bridgestone is built with a robust casing to support a higher load capacity as well as higher stress and deformation forces for many thousands of kilometres. Furthermore it provides year-round safety thanks to improved grip and braking performance in all conditions including mud and fresh or melting snow. High mileage and maximum opportunities for regrooving and retreading of the Bridgestone U-AP 001 enable to decrease cost per kilometre with Bandag BDU2. This tyre tread offers outstanding safety and comfort, excellent all-seasons performance and longer tyre life. The U-AP 001 is available in size 275/70R22.5 and in 2015 also in size 245/70R19.5 while Bandag BDU2 is available in the most common tyre sizes.



BATTERY CHARGERS



CTEK MXTS 40 is the portable battery charger that is exclusively distributed in Italy by Intec. Suitable for use in 12V and 24V vehicles, it is simple to use, electronically safe and charges rapidly. It can operate with an output

of 40A and works with specific programs with all lead-acid batteries on the market, including those on 'Start & Stop' vehicle versions. It features temperature compensation and battery reconditioning functions. Furthermore, it is equipped with USB type B contact for future software updates. The OLED display provides clear readouts of charge parameters, and also allows the user to follow the entire process of battery testing, charging and maintenance. The CTEK MXTS 40 is housed in a polycarbonate structure for rough environments and is designed to protect vehicle electronics. Available starting September 2014, it can be found in professional products stores and at authorised CTEK dealers.