

# Comfort goes upmarket

**HAVING RECENTLY OPENED A NEW FACTORY THAT INCREASES ITS PRODUCTION CAPACITIES, SIROCO LOOKS FORWARD TO SHOWCASING ITS ENERGY EFFICIENT HVAC SYSTEMS FOR EVs AT BAUMA**

▶ Siroco HVAC focuses on the challenges of e-mobility and related technologies. As such the international supplier of thermal and electrical solutions for industrial vehicles from 12V to 800V is strengthening its electric mobility offering with a host of new products which reflects a move upmarket in terms of technology. With the support of the Clayens Group (3,300 employees, 27 sites worldwide), Siroco HVAC benefits from a collective performance and applies a demanding industrial and quality culture, which makes it a key market equipment manufacturer.

## Energy efficiency

"Siroco HVAC helps its customers to anticipate the electrical conversion of their thermal systems," says Romain Pinot, product development manager at Siroco. "Electrification brings with it new technical challenges with the central issue of managing vehicle autonomy. The energy efficiency of the thermal system is the key issue for electric units. Our objective is to obtain the best possible performance from our products. With the heat pump, we optimise electricity consumption and increase the efficiency of the refrigeration system by using the principle of reversible air conditioning."



ABOVE: Siroco cooling for battery system for coolant flow management

BELOW: New E-Duo Top, electric rooftop unit designed for cabins with limited space, available in E-HVAC and E-VAC versions, also soon available in reversible version

In order to meet its new markets, Siroco engineering is focusing on new skills in thermal management. Among the main components is the CAN/LIN electronic controller which controls the plate cooler, the high flow water pump and the multi-way valves in an optimal way.

## Bauma presence

The company will display a number of solutions dedicated to off-road vehicles. The E-Duo Top, new rooftop electric air conditioning and heating unit (E-HVAC), also available in air-conditioning unit only (E-VAC), and soon available in reversible version, is designed for cabins with limited space. The E-Duo Top offers a cooling capacity of 4.5kW and a heating capacity of 2.5kW. The Samson, new heating and air-conditioning

(HVAC) unit, designed for large cabins, is also available in air-conditioning (AC) and heating (HV) versions, which in combination with a 16kW condenser delivers at least 10kW of heating and cooling capacity.

Last but not least the company's CANbus controller 12-24V powered by the vehicle's battery integrates all the ventilation/heating/air conditioning control intelligence and interconnects to the vehicle's CAN and/or LINbus.

## New factory established

To support Siroco's strong growth capacity, the thermal comfort expert has moved to Chassieu in France. At the new facility there is over 5,000m<sup>2</sup> of space now dedicated to the design, R&D, and production of heating, ventilation and air conditioning (HVAC) systems.

"It was necessary to equip ourselves with adapted production means in order to respond to the increasing demand and to the new markets obtained, in particular the European market which constitutes one of our main growth axes," says Sylvain Reydelle, managing director of Siroco.

By tripling its surface area, Siroco is adapting its production, supply chain and development resources to customers's demands, who will continue to obtain more efficient standard and tailor-made HVAC systems that consume less energy and are developed from technological improvement lens.

Now present on three continents – France, India and Morocco – the Siroco group has equipped each site with teams, development and tests facilities capable of meeting the specific requirements of each market.

"The new French site will allow us to deploy the Siroco engineering department dedicated to the development of tomorrow's thermal solutions," says Reydelle. "Of course the subject of electrification is central. We are working as much on specific heat pump, battery cooling and thermal management solutions as on standard product developments." **ivT**

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