



CASE STUDY: SAMWORTH BROTHERS SUPPLY CHAIN



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Founded in 1998, Samworth Brothers Supply Chain provides temperature-controlled distribution services to companies within the Samworth Brothers Group, as well as to a range of external chilled food manufacturers and retailers.

To improve sustainability and increase efficiency across its operation, the long-standing customer has become the latest UK business to introduce the Carrier Transicold Vector® eCool™ into its fleet – the world's first fully autonomous, all-electric engineless refrigerated trailer system.

THE CARRIER TRANSICOLD SOLUTION

Samworth Brothers Supply Chain currently operates a 240-strong, 100% Carrier-cooled trailer fleet. After success with a demonstrator unit during a four-week trial, the company ordered six of the new engineless Carrier Transicold Vector eCool systems, each mounted to 13.6-metre Gray & Adams trailers.

The Vector eCool unit combines Carrier's E-Drive™ all-electric technology with a new cutting-edge energy recovery and storage system, creating an autonomous loop that converts kinetic energy generated by the trailer axle and brakes into electric power, which is then stored in a battery pack and used to power the refrigeration unit.

Operating out of the firm's Leicester depot, the new trailers will be put through their paces and are each expected to clock up around 250,000 kilometres per year. They replace older assets and form part of a larger order which included 19 additional Carrier Transicold Vector HE 19s, all mounted to new Gray & Adams double deck trailers.

“Seeing the Vector eCool unit in action made making the switch an easy decision. It will play a key role in reducing our carbon footprint, helping us to focus on our path to net zero.”

Ian Cooper,
Regional Fleet Manager,
Samworth Brothers Supply Chain

THE RESULTS

The Carrier Transicold Vector eCool represents the industry's first fully autonomous system, producing no direct carbon dioxide (CO₂) or particulate emissions. The all-electric Vector eCool is also PIEK-compliant, which combined with its emissions performance, means that the system offers the ultimate solution to tightening inner city and urban regulations.

“Seeing the Vector eCool unit in action made making the switch an easy decision,” said Ian Cooper, Regional Fleet Manager at Samworth Brothers Supply Chain. “It will play a key role in reducing our carbon footprint, helping us to focus on our path to net zero, while forming a vital part of our duty of care to the environment. Of course, given the current cost of diesel, any way to lower our fuel usage across the fleet is also a welcome bonus.”

The new engineless Vector eCool units will help reduce emissions across the Samworth Brothers Supply Chain fleet, aligning with Carrier's 2030 ESG goals to reduce its customers' carbon footprint by more than one gigaton.

“We're excited to see how the initial six units perform and hope to place a further order for 20 more Vector eCool-equipped trailers next year. Carrier's commitment to innovation has kept us coming back year after year, it continually delivers superbly engineered and ultra-reliable new products, and we have no doubt that will continue with the eCool,” added Cooper.



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