



Emerson Cold Chain Solutions supports the massive expansion of an E-commerce giant across PAN India

Customer

With the boom of online shopping, a global e-commerce player was looking to expand its business presence across India. The online retailer, considered one of the largest and most expansive shopping platforms in the world, was planning to strengthen their foothold in the rapidly growing Indian e-commerce market. The products sold by the online retailer ranged from books, electronics and food. Their food retail business included fruits and vegetables along with other frozen produce.

Challenge

The online retailer planned to open at least 10 new distribution centers in PAN India. They needed a reliable and efficient cold chain solution to store their food products. Their specifications called for a chiller room which needed to maintain temperatures of 0°-5°C and a tropical food room which stored their inventory at +18°C. The e-commerce company also stated that they would like to minimize their overall environmental impact.

Solution

Emerson, working closely together with multiple contractors, took on the challenge of providing cold chain solutions for the distribution center expansion across PAN India. Emerson developed Copeland™ scroll condensing unit solutions with R404a refrigerant for the chiller rooms and R407c for the tropical food rooms with evaporators connected to individual CDUs. Copeland scroll condensing units offer the advantage of superior cooling performance and accurate temperature control in a slim and lightweight design. With their strong working relation, Emerson was even able to convince the e-commerce retailer to transition their operations to adapt more eco-friendly alternatives namely the use low GWP refrigerants like R448a and R134a for their applications.

Result

On the strength of the Copeland scroll condensing unit solutions, the global e-commerce retailer decided to approve the installation of multiple refrigeration systems in each cold room with an effort to improve redundancy. The use of “green” refrigerants significantly decreases the adverse impact of refrigeration systems on the environment and scroll units, which improves overall reliability to help safeguard food safety and integrity. Close coordination between Emerson and the e-commerce retailer complemented by the environmental friendly efficient refrigeration solutions, lead to Copeland scroll condensing units being approved in tender specifications for all future distribution centres. The online retailer has since accelerated their expansion plans for 2020 by opening more distribution centers in PAN India with Copeland scroll condensing unit solutions implemented in 12 sites. Emerson is committed to protecting food quality and integrity, helping safeguard food supplies across the cold chain.

