

COPELAND VARIABLE-SPEED CONDENSING UNITS

Popular convenience store chain in Taiwan improves branches' refrigeration systems



Convenience store seeks new refrigeration systems that are more energy-efficient, reliable, eco-friendly and capable of low-noise operations.

Customer

A the popular convenience store franchise originated in Japan and established a foothold in Taiwan in 1988. It currently has 3,500 branches nationwide, all of which sell a number of food products, toiletries and other essential goods, as well as offer bill payment services.

Challenge

A convenience store chain in Taiwan wanted to upgrade its refrigeration system because it felt unsatisfied with the energy savings from the current variable-speed condensing unit installed in its stores. The popular convenience store's ultimate goal was to improve operational costs by lowering electricity bills. Thus, it sought new refrigeration systems that are more energy-efficient, reliable, eco-friendly and capable of low-noise operations.

Solution

Copeland provided the convenience store chain with the Copeland ZXV130BE-5XJ-451 condensing unit,

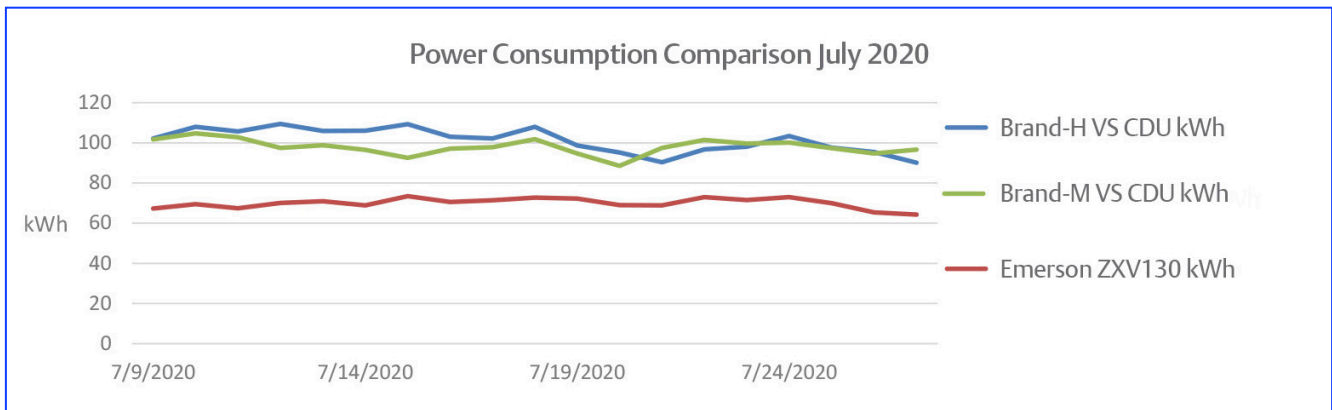


which has a slim and compact design, a sound jacket for lower noise during operations and a more eco-friendly R448A refrigerant, all of which meet the convenience store's refrigeration needs. Copeland also developed a specialized 220V drive with EVI function to achieve the popular convenience store's required performance. Copeland worked with its local partner, Sunbest, and provided the products and training to deploy the Copeland ZXV condensing units at the store level. After conducting a comparison test in four branches using a different brand, the convenience store chain found that the power consumption of the Copeland variable speed solution was 30% lower than the other, making the product ideal for all its stores.



Result

The convenience store chain will be upgrading its refrigeration system to Copeland variable-speed condensing units, which were proven to be the most efficient solution in the market. For 2021, the popular convenience store plans to install 120 Copeland ZXV condensing units. It plans to install 300-400 units in its branches in the succeeding years.



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