

Feature 2: Our New Business in Food and Beverage Distribution

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Contributing to the Safety and Security of Food with Heating and Cooling Technologies

With the aging society and the falling birthrate, the environment surrounding Japanese agriculture is changing, and there is a growing awareness of food safety and security. As new needs emerge in the food and beverage distribution market, new services and business formats are also appearing in response.

Using its strengths in electric and cooling technologies, we are working to expand its business scope in food and beverage distribution from stores to production areas, food processing, storage and transportation, and yet further into the transportation and delivery sector which connects all of these areas. This is all part of our aim to provide safety and security, freshness, and flavor.

Food and Beverage Distribution Market

Production areas



Distribution

Food processing



Distribution

Storage and transportation



Distribution

Stores



Solutions provided by Fuji Electric

Crop Production Facilities

We are building plant factories to increase the reliability of production areas and boost work efficiency.



Energy Management

We make the energy used by food processing plants visible and provide energy savings.



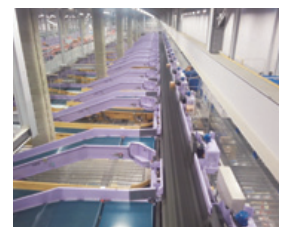
Warehouses for refrigerated and frozen foods

We support distribution systems with our cooling technology and our experience and expertise in warehouse design and installation.



Distribution System

We build distribution systems including warehouse management and automated cargo sorting with our IT-integrated system controls.



Smart Stores

We create energy-saving stores leveraging our electric and cooling technologies. Examples include store EMS* and energy-saving showcases.



* Energy Management System

Refrigerated storage container

The D-BOX mobile refrigerated storage container enables refrigerated distribution management.



Case Example **Food and Beverage Distribution**

New Business **Safely and Reliably Delivering Fresh Food with Comprehensive Constant-Temperature Distribution Management**

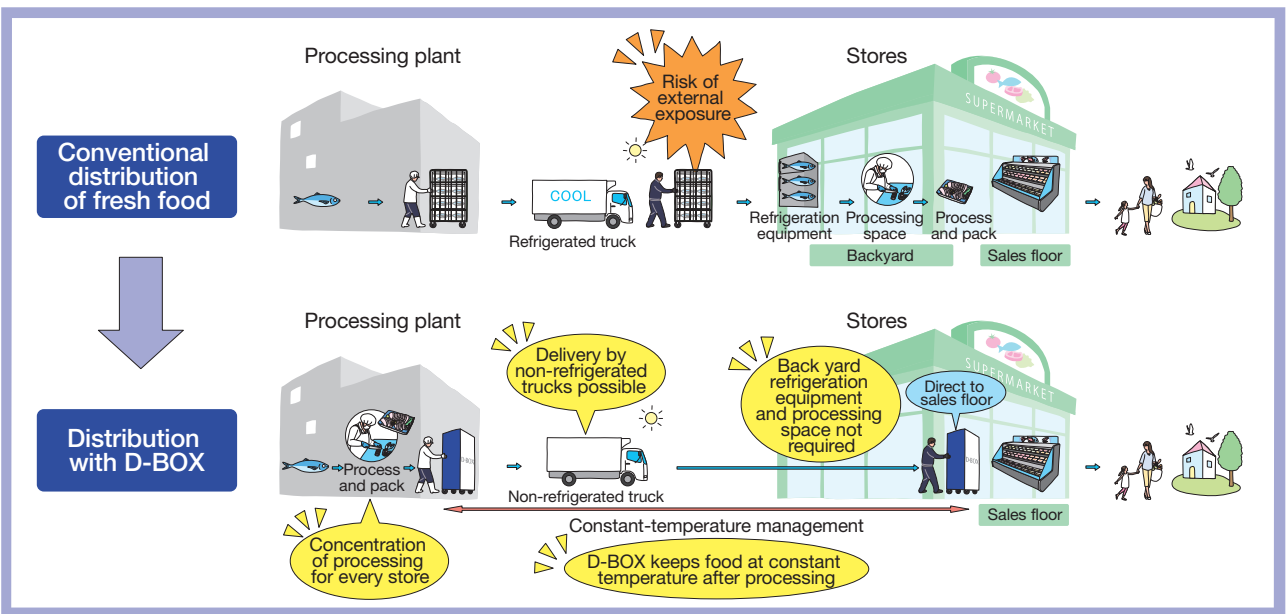
In order to maintain the quality of fresh foods such as meat, agricultural products and seafood, it is important to keep foods at a constant temperature throughout the food distribution process, from the production areas to the stores and ultimately to the sales areas.

The D-BOX, a mobile refrigerated storage container developed by Fuji Electric, uses a built-in refrigerator and the ultimate insulation capabilities to keep food at a constant temperature throughout the food distribution chain. D-BOX keeps foods fresh by minimizing the risk of contact with outside air, and features a system to track the temperature history inside the container to verify if the temperature has been controlled appropriately. This temperature history is centrally managed via cloud computing, allowing customers to use this service in their marketing strategies.

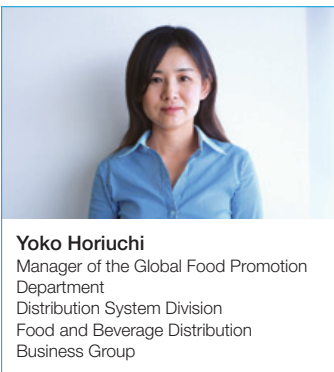
D-BOX enables fresh foods to be processed in bulk at processing plants before being transported directly to sales areas at a constant low temperature. This enables stores to save the equipment and personnel costs associated with preparation, as well as to increase the floor space for sales. With this constant temperature distribution management system, Fuji Electric will continue to contribute to people's lives by increasing the safety and reliability of fresh foods.



* D-BOX. Three temperature settings include chilled (about 5°C), frozen (about -18°C), and room temperature



Voice **A Message from a Product Planner**



D-BOX maintains temperatures correctly and includes a traceability function to track the temperature inside the container as well as to log the opening and closing of the container door. These innovations enable the D-BOX to contribute not only to enhanced food safety and security, but also to society in a number of other ways. These include reducing energy consumption by changing the food processing and distribution process, alleviating the shortage of truck drivers by consolidating delivery, and reducing food and material waste loss.

The D-BOX is a tool that will improve logistics in the food and beverage distribution sector, and I am confident that a wide range of customers in sectors including retail, wholesale, and logistics, will make good use of it.

Special Features