Intelligent cabinets lie at the core of the New Retail by Stora Enso offering. These automated, always open, unmanned cabinets are designed for consumers who enjoy purchasing experience on-the-go. The versatile solution provides plenty of opportunities in various business settings ranging from single point-of-service with 1-2 cabinets in restaurants, cafes, or fitness centres to 5-10 cabinets kiosk set-ups.

A heightened consumer experience

Intelligent cabinets offer a wide selection of products in a single point of sales. Using cabinets is intuitive and easy.

Here’s how an intelligent cabinet works:
1) Customer opens the cabinet using selected smartphone payment app.
2) Following successful authentication, the cabinet unlocks to allow the customer to select the desired items.
3) When the door is closed, the cabinet reads the items taken, triggering payment and replenishment orders.
4) The customer receives a summary on the top panel and a receipt in their payment app.
5) The cabinet is ready for the next customer.

Features

The key components of a cabinet are:

Display – Topline panel shares promotional messages when idle, and lists the products when operational. All interaction is directed from here.

Locking system – Ensures the cabinet is locked when not opened via identified and authorized user. The door mechanically closes when it is not being kept open, ensuring the cabinet is not accidentally left open.

Integrated cooling system – Keeps products like food items cooled in the cabinet. It can be turned off for products not requiring a specific temperature. The cabinet also tracks the temperature on a selected frequency to ensure cold chain control.

Integrated payment solution – The customer interacts with the cabinet using their smartphone payment app, which authenticates the user’s identity and credit card information. The cabinet transmits the total amount of the selected items to payment solution as well as the list of products for invoicing.

Cabinet management solution – The SaaS solution attached to each cabinet allows the cabinet operator to manage product catalogues, promotional messaging, inventory control and, for instance, temperature logs from a single management portal.

ReFill – Stora Enso provides a Web app ReFill for managing single cabinet replenishment. With Bridge e-commerce we bring inventory visibility to operators, so they know what, where and when to replenish. We are also able to provide wider network of replenishment services.

Based on RFID technology

The technology is built on the widely adopted and robust radio frequency identification (RFID) technology, which allows products to be read through RFID tags placed in or on the products. The RFID tags used in the cabinets are made using sustainable ECO RFID Tag technology, which allows ecological product identification of the products. The tags have tamper-proof feature to ensure that they cannot be removed from the products.

Technical details

Product name: Indoor Fridge 2.0
Dimensions (mm): 2187 x 660 x 723 (H x W x D)
Weight: 90 kg
Supported RFID frequency regions: ETSI, FCC, China
Average number of products: 200
Inventory reading time: 3 seconds

Contact us for more information:
www.storaenso.com/intelligentpackaging