StabilOx® System

Featuring StabilOx® Oxygen & Moisture Management Packets or Canisters and StabilOx® Packet or Canister Dispensers

Advantages

• Offers an integrated system solution
• Provides turn-key installation and start-up
• Includes full customer support from sorbent selection through dispenser installation
• Provides the convenience and simplicity of using a single supplier
• Provides better reliability and process consistency as compared to manual insertion
• Offers guaranteed delivery of required sorbent capacity through the use of dry-air or inert gas purge
• Integrates packet data, such as lot number, manufacture date, and quantity, from the packet spool into your quality system, using Smart Dispensing Technology

Applications

• Pharmaceutical:
  - Tablets, capsules, and caplets in bottles, blister packs, pouches, or trays
  - Metered dose inhalers in pouches or trays
  - Dry powdered inhalers in pouches or trays
  - Transdermal patches in pouches or trays (secondary packaging)
• Dietary Supplements
  - Tablets, capsules, and caplets in bottles, blister packs, pouches, or trays
  - Powders in bottles or cans
• In-Vitro Diagnostics
  - Devices in pouches or trays
• Medical Devices
  - Devices in pouches or trays
• Pre-Filled Syringe Packaging

StabilOx® System

Solutions for Moisture and Oxygen Management

A Complete System Solution

The StabilOx System is your turn-key solution; it combines the advantages of StabilOx® Oxygen Absorbing Packets or Canisters with the proven reliability of our corresponding APA-series dispensing equipment. StabilOx® Packets and Canisters are designed to reduce package headspace oxygen levels while managing headspace moisture and drug product free moisture, resulting in the reduction or elimination of oxidative degradation. StabilOx Packet and Canister Dispensers are compatible with a variety of packaging line configurations, including bottling lines, horizontal flow wrappers, VFFS, thermoformed pouching, and other layouts. The dispensers are made using only the highest quality sensors, drive mechanisms, and cutters. All of these capabilities add up to higher efficiencies for your packaging operations.

StabilOx® Packet and Canister Benefits

Achieving stability in pharmaceutical formulations or medical devices requires a difficult balance between increasingly complex variables. Success is vital to a new drug reaching the marketplace. StabilOx Packets and Canisters help achieve this without toxic packaging components or expensive drug product formulation changes. StabilOx Packets and Canisters provide a simple solution...
StabilOx® System

that resides inside the packaging instead of, for example, an additive to the drug product itself.

Traditional pharmaceutical-safe, inorganic oxygen absorbers rely on the irreversible oxidation of the sorbent material. Since the reaction requires moisture, the moisture must be provided in the packet or canister itself, the product, or from the package environment.

StabilOx Packets and Canisters provide their own moisture to initialize the oxygen removal process from the package. It then relies on package moisture ingress for continued oxygen absorption while establishing an optimal Equilibrium Relative Humidity (ERH) in the package headspace. This is critical in retaining drug performance, stability, and integrity.

APA-Series StabilOx® Packet or Canister Dispensers

StabilOx Packet and Canister Dispensers offer accurate reliable sorbent dispensing. The dispensers are configurable to meet your needs (e.g. packet size, bottle size, multiple drops), and with speeds up to 300 packets per minute, StabilOx Packet and Canister Dispensers are among the fastest most accurate systems available.

StabilOx Packets and Canisters contribute to the stability profile / shelf life of many products within their packaging. Consequently, the packets’ or canisters’ capacity must be protected during packaging operations to prevent capacity loss. Like no other dispensers available, our APA series of StabilOx Packet Dispensers are available with packet spool supply systems that are offer optional automated nitrogen purge with related nitrogen supply and oxygen level monitoring / alarming (to the PLC). Our APA-9000 Canister Dispenser is available with nitrogen purge and feature first in / first out (FIFO) control by use of alternately running hoppers. Dispensers include:

- APA-1000 Low-Speed StabilOx Packet Dispenser – optional spool packet enclosure
- APA-1500 Mid-Speed StabilOx Packet Dispenser – standard motorized spool unwind cabinet or optional motorized spool splicing station cabinet
- APA-2000 High-Speed StabilOx Packet Dispenser – standard motorized spool unwind cabinet or optional motorized spool splicing station cabinet
- APA-4000 Twin-Head, High-Speed StabilOx Packet Dispenser – dual packet in-feed via standard motorized spool unwind cabinets or optional motorized spool splicing station cabinets.
- APA-9000 High-Speed StabilOx Canister Dispenser – alternately running dual hoppers offer 4000 canister capacity.