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Bulk Solids Heat Exchanger Bulk-X-Change



ntelligent solutions in thermal handling of bulk materials

The Coperion heat exchanger is a proven technology. In many bulk materials handling processes it is necessary to thermally treat (cool or heat) powders, pellets and granules.

The Coperion Bulk-X-Change heat exchanger is highly efficient, compact and low cost. It offers an ideal solution for thermally treating powders, pellets and granules in many industries.

MAIN FEATURES

- Patented distributor plate at product inlet
- Applicable for free-flowing bulk solids such as plastics, fertilizers, minerals and food
- Compact design without moving parts
- Controlled discharge at outlet with metering devices (e.g. rotary valves)

THE PRINCIPLE / CONCEPTS

Depending on whether the product exists as granular or as fine powder, we distinguish between different application concepts: Bulk-X-Change - Gravity, Inline Gravity, or Inline.

Bulk-X-Change Gravity

The original design was developed for free-flowing coarse powders and pellets. The bulk material flows from top to bottom due to gravitational forces through the vertical tubes which are surrounded by a heating or cooling medium on the shell side. As a result the bulk material is either heated or cooled.

Bulk-X-Change Inline Gravity

If vertical installation in the process building is not possible due to lack of height, the Inline Gravity concepts can be used for free-flowing coarse powders and pellets.

The Bulk-X-Change heat exchanger is then integrated into a pneumatic dilute-phase conveying system and the heat exchanger can be positioned as required.

This concept is also attractive for retrofitted systems, as it can be installed during the ongoing production process at variable locations.

Bulk-X-Change Inline

This concept was especially for fine powders.

The principle of this patented product, is the direct installation of the Bulk-X-Change in a vertical pneumatic conveying line. The pneumatically conveyed powder is fed into the vertically positioned heat exchanger from below with the conveying gas.