

anhydro
AN SPX BRAND

The Anhydro Triple-A[®] Dryer



SPX[®]

Customized Drying for individual needs

The Anhydro Triple-A[®] Dryer enables SPX to dimension and customize a complete drying solution for the production of free-flowing dust-less powders and agglomerates according to customer specifications.

Based on a platform of innovative and advanced technologies, the Anhydro Triple-A[®] Dryer combines a new spray dryer design with an integrated fluid bed and an external fluid bed to give our customers total control over product quality and process economy.



Applications



The Anhydro Triple-A[®] Dryer offers plant customization options enabling you to take full control of particle size and structure in your production of free-flowing dustless powders and agglomerates, for example:

- Whole milk powders
- Instant skim-milk powder
- High-fat dairy blends
- Infant formulas
- Non-dairy creamer



Haleeb Foods Ltd., Pakistan

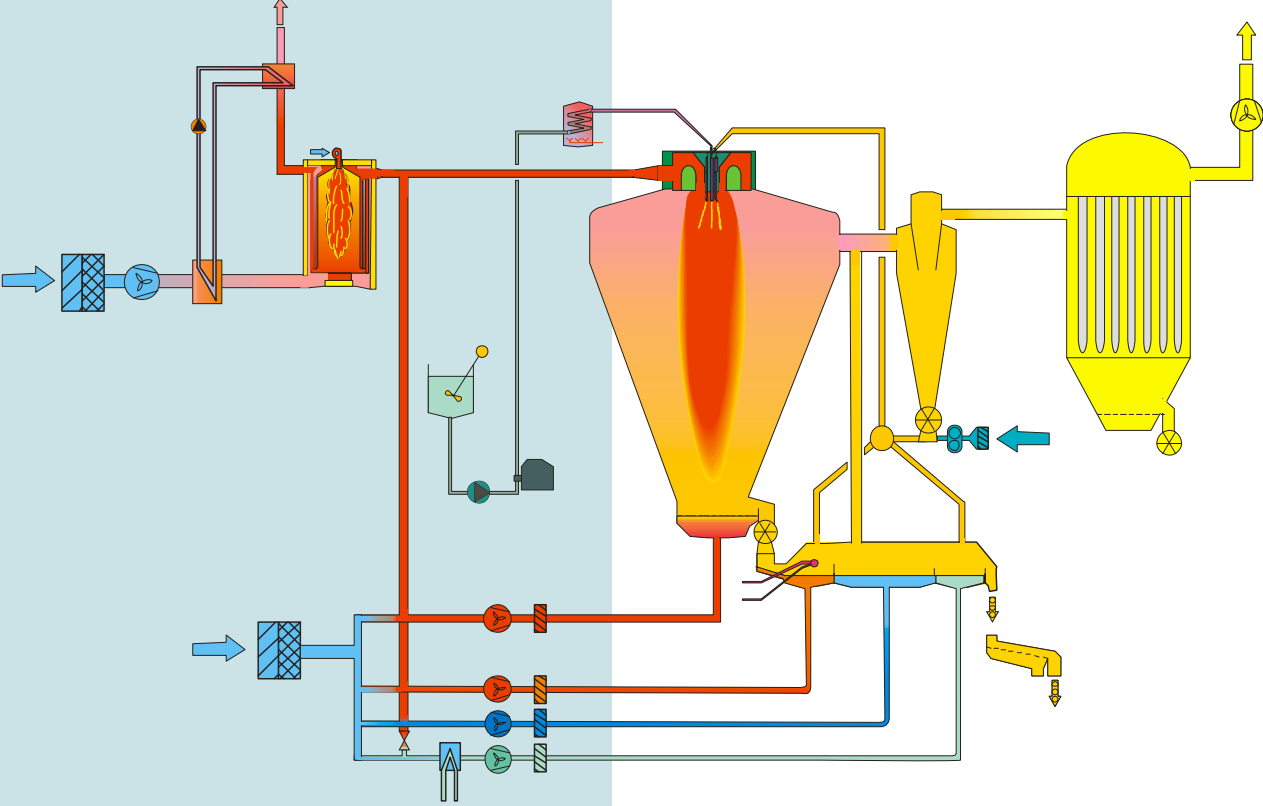


Focus on end-product quality

Powder manufacturers are facing increasingly rigid quality demands requiring full control over powder structures and functional properties. The Anhydro Triple-A[®] Dryer enables you to customize a plant which ensures competitive and consistent end-product quality, while providing complete control over your production run-time, yield, and operating costs:

- Innovative drying chamber design for efficient drying and long production time between CIP
- Nozzle atomization for optimum spray of feed material
- Selection of integrated second-stage fluid bed drying
- Third-stage external fluid bed option for final drying and/or cooling
- Selection of exhaust systems and fines recirculation options to ensure maximum product quality and yield

The Anhydro Triple-A[®] Dryer



Anhydro Triple-A[®] Dryer – customization options



A. Air distribution and nozzle atomization systems

- Air flow at controlled conditions into the spray dryer, integrated fluid bed, and optional external fluid bed
- Nozzle atomization
- Total control over air distribution within the drying chamber
- Precise control of powder particle, agglomerate and granule sizes

B. Innovative drying chamber design

- Drying of a wide range of dustless products from low-fat to hygroscopic and “sticky”
- Minimum of product residue in the chamber
- Significantly longer production time between CIP
- Low exit temperature to conserve energy



C. Exhaust and fines recirculation systems

- Cyclones or bag filters, or a combination of both
- Recirculation of fines to the spray drying chamber, the integrated fluid bed, or the external fluid bed

D. Second-stage integrated fluid bed

- Integrated, second-stage fluid bed for final, low-impact drying
- Configuration based on required capacity, residence time, temperature constraints etc.

E. Third-stage external fluid bed options

- External third-stage fluid bed, including vibratory options, connected to the integrated fluid bed outlet for additional drying and/or cooling



Triple-A[®] – synonymous with sound business sense



Synonymous with solidity, reliability and performance, the Anhydro Triple-A[®] Dryer combines the best of SPX Advanced Applications engineering and expertise to offer you a long line of compelling business benefits.

Process

- Individually customized plant delivers the optimum solution for specific process and production requirements.
- Complete process control together with uncompromising technology and engineering ensures production of consistent end-product in accordance with predefined customer specifications.



Production

- Equipment options are available for all capacity requirements from small-scale plant to full industrial production.
- Innovative drying system design together with straightforward service and maintenance access ensures maximum production run-time.

Profitability

- Consistently high yield, energy-efficiency, and low operating costs mean rapid payback and low total cost of ownership.
- Components and equipment designed and engineered for reliability and performance ensure long service life with modest service and maintenance requirements.

Partnership and



Our aim is to help you find the best solution for your long-term needs. We offer a close partnership based on personal commitment and documented Best Practice from the initial needs analysis and planning stage until the end of the service life of your Anhydro Triple-A[®] Dryer many years later.

Together with you we analyze the available options based on your product and throughput requirements. If necessary, we can run a pilot test at our test facility to ensure that the process will meet your expectations on a production scale.

Test facilities

SPX offers an advanced Test Centre for testing new products and evaluation of process conditions to secure precise synergy between optimization of plant concept and reproducible product quality.

We can also install test equipment or pilot plants at your site for a limited period for demonstration purposes or pilot-scale production..

Lifelong service and support

SPX worldwide service organization is ready at all times to provide any necessary spare parts at short notice. SPX can also dispatch service technicians to help you rectify any problems, thus reducing unscheduled downtime to a minimum.

SPX offers a number of service agreement options, depending on your individual needs, and SPX pilot plant engineers are always available to provide applications and development support.



SPX Flow Technology provides a full range of Anhydro Evaporation and Drying equipment for the global dairy, food and beverage, chemical, healthcare and pharmaceutical industries. Focusing on flexibility and attentiveness to individual customer needs, SPX enables excellence at every point along the value chain as part of our commitment to our customers' success.

SPX acts as a strategic development partner for leading manufacturers all over the world. Through close collaboration with our customers, we promote the development of innovative concepts and optimization of existing processes, enabling customers to introduce new products into the market as quickly and as cost effectively as possible.



SPX[®]
WHERE IDEAS MEET INDUSTRY



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