Flash Dryer



Wet material is dispersed into a stream of heated air (or gas) which conveys it through a drying duct. Using the heat from the airstream, the material dries as it is conveyed. Product is separated using cyclones, and/or bag filters. Typically, cyclones are followed by scrubbers or bag filters for final cleaning of the exhaust gases to meet current emission requirements.

Flash dryers have been used to dry products in many industries including agrifood, chemical, mineral. A broad range of feed materials including powders, cakes, granules, flakes, pastes, gels, and slurries can be processed. For slurries, pastes, or sticky materials, backmixing of the wet feed with a portion of dry product to produce a suitable conditioned material is required

Features

- Short residence time
- A buffer hopper or back-mixing system if required
- Can be designed for open circuit, partial gas recycle and SSD™
- Can be designed for operation in an inert atmosphere
- Simple system with few moving parts

Benefits

- Promotes product quality
- Flexibility to work with different dewatering systems and to enable use with friable and non-friable wet feeds
- Enables energy savings and system integration
- Suitable for operation with solvent and recovery thereof
- Cost effective and reliable with low maintenance and cleaning requirements - good for regular grade changes