

# Superheated Steam Flash Dryer

Data sheet 1/2 Date 07/2008  
Technical description



Used in MDF and hard fiberboard lines for drying fibers and products.

The Superheated Steam Flash Dryer works in a closed circuit system. It dries the moist material supply to it through the blow line by means of a continuously recirculating flow of hot steam subject to internal positive pressure. During the holding time in the dryer tube that ends in a high-performance separator, the fibers are dried to the required final moisture level.

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Underneath the high-performance separator, the dried material is unloaded via a rotary feeder valve.

The flow of hot steam to be recirculated is returned to the process, heated in a heat exchanger and used once again as the drying medium

## Performance

- Up to 15,000 kg fibers/h
- Demonstration of the process in a Technology Center system

## Technical features

- Energy saving up to 30%
- High level of operational reliability because of enclosed, inert procedure
- Higher entry temperatures (depending on the material and initial moisture level)
- Adaptation of the holding time to the product in question
- Low mechanical complexity

## Design features

- Material loading and gluing via blow line
- Units and pipelines with pressure-resistant design

## Heat sources

- Steam generator and steam superheater

## Dedusting

- High-performance separator