



SSI TECHNOLOGY, INC.

Specialists In The Application Of Process and Packaging Equipment



GEA Barr-Rosin:

Drying, Cooling and Calcining

Working with GEA Barr-Rosin and SSI Technology means having a **SOLID PARTNERSHIP every step of the way**, from process testing and design throughout project execution to the start-up and operation of your plant. We work together with our Clients to develop and fulfill specific product requirements - all under strict confidentiality. Our comprehensive After Sales & After Market programs also ensure that your return on investment is optimized throughout the lifetime of the plant.

With thousands of references Worldwide and based on innovation, flexibility and depth of process experience, GEA Barr-Rosin drives for excellence. To maintain our leading position, we continue to focus on product quality, system reliability, energy savings and emission control.

GEA Barr-Rosin's Systems and Technologies

GEA Barr-Rosin has a long history in developing various drying technologies, positioning us as a World Leader for industrial drying/cooling/calcining with one of the widest system portfolios. We offer systems to dry wet materials, ranging from granules, cakes and powders to sludges, slurries and solu-

tions. Our highly experienced process specialists who have access to our well-equipped pilot plants in Canada and the UK will ensure that we select the right proven technology as appropriate to meet the customer's requirements.

Our technologies are applied for:

- Agrifood products
- Mining, Mineral & Fertiliser products
- Chemical products
- Special applications including Algae, Manure & lignin etc.

Flash Drying



Moist particles are dried and conveyed in a stream of hot air

- removes surface moisture
- product dries in seconds
- dryer with a small footprint

Ring Drying

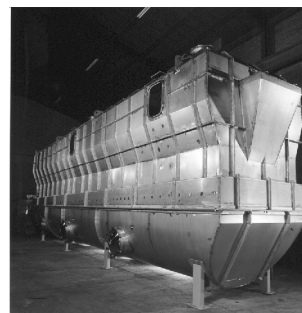
Product conveyed in a hot air stream with an in-



circuit classifier to select and recycle semi-dry solids

- removes surface moisture and some internal moisture
- promotes rapid, even and gentle drying
- system handles difficult materials

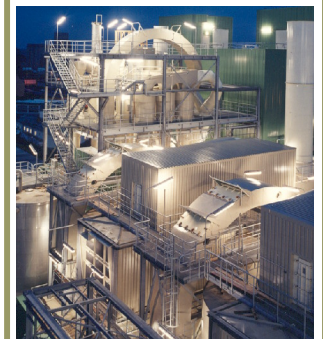
Fluidized Bed Drying, Cooling and Calcining



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Web: www.barr-rosin.com



Ring Dryer Systems

Moist particles 'float' on a cushion of hot air through a bubbling bed of solids

- removes surface and bound moisture
- ensures controlled drying rates
- extended residence time with gentle processing

Rotary Drying, Cooling and Calcining



Solids are dried in a rotating drum and cascade through a hot air stream

- handles a wide range of materials with extended residence times
- design permits highest possible drying temperatures

Superheated Steam Drying – SSD™



Moist particles are dried in an atmosphere of superheated steam

- minimizes product oxidation
- enables heat recovery through system integration
- no atmospheric emissions if vapour is condensed

Rosinaire Paddle Drying



Solids spiral through a jacketed cylinder by the

action of paddles on a rotating shaft

- safely processes hazardous substances and/or non-aqueous solvents
- gas tight capability

Column Drying, Heating & Cooling



Bulk solids flow by gravity in counter flow to purge gas (where required)

- ensures uniform flow with residence times measured in hours
- low operating costs
- Column Dryer removes residual moisture/volatile
- Column Heater/Cooler provides air-free heating/cooling of granular materials

Test Facilities



GEA Barr-Rosin has extensive pilot plant facilities located in the UK and Canada. A complete range of pilot scale equipment enables comprehensive testing of clients' products such that the most suitable technology can be determined for a specific application. A well equipped laboratory is also located on each site to provide rapid analysis of moisture content, bulk density, and particle size distribution. For more specialized analysis, local laboratories are used.



In addition to the equipment available in our test facilities, a number of units are available for hire for on-site testing. Custom built pilot plants can also be manufactured to meet your special processing requirements.

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