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**Very high
performance in a
short residence
time.**

**Continuous
dehydration at low
cost.**

SYSTEM PROCEDURE

The drying unit by radiant stirrer is developed for continuous drying of materials that need humidity and biological stabilization.

The dryer consists in a cylindrical body, with a steam jacket and an inner stirrer. The dryer is provided with heating blades in order to distribute the material and making it to move forward. These blades irradiate the heat to the product in addition of the steam jacket, so the drying speed increases significantly.

The stirrer has its own steam inlet, through a rotary joint, this allows the steam entry and the condensed water exit. The condensed water from the turbine and the steam jacket exit through a steam trap and come back to the boiler.



Drying and product stabilization.

Waste volume minimization.

Management costs reduction.

The blades avoid the formation of balls in the product (which decreases the drying action), and they ensure a good distribution in the drying zone. In addition the dryer is thermally isolated so we have a very good performance.

The wet product enters into the dryer through a top inlet with a continuous screw and exits in the other side of the dryer at the bottom part with another continuous screw.

The electric system of the rotary dryer has an electric cabinet in order to: regulate the motors speed, detect and transmit temperature and pressure parameters in the steam jacket and in the body of the dryer. In addition we can modify the parameters from an operation terminal.

This unit allows the continuous dehydration of non thermo sensitive products in a quickly, autonomous and low energetic cost way. The dryer consumes only the necessary steam to transmit the necessary enthalpy for warming up the product and evaporate part of the humidity.

Built according to CE European standards.



POSSIBLE APPLICATIONS

Industrial sludge drying.

Paprika drying and sterilization.

Calcium tartrate drying.

Potassium bitartrate drying.

Sodium sulphate Drying.

Active principles drying from medicinal plants.

INSTALLATION EXAMPLES

| RSD drying unit (sludges from beer industry)
for DAMM Group (Madrid) with a treatment capacity of
2 Tm/h

| RSD drying unit (paprika)
for PIMURSA in Cabezo de Torres (Murcia) with a
treatment capacity of 200 Kg/h

| RSD drying unit (Calcium tartrate)
for MOSTINSA in Valdepeñas (Ciudad Real) with a
treatment capacity of 0,5 Tm/h

