

TECHNICAL BULLETIN – DDR14

SUBJECT: DRUM DRYING RESOURCES 60" X 144" SINGLE DRUM DRYER WITH APPLICATOR ROLLS

The Drum Drying Resources single drum dryer with product slurry applicator rolls is a simple and effective machine for removing water from a product slurry, in order to produce a dry flake or powder product. Slurry is metered by a pump to one of three slurry applicator rolls for an even application of slurry to the dryer drum, for uniform drying. The applicator rolls are adjustable while the machine is in operation, to control the dry sheet thickness. Each applicator roll is driven and synchronized to the drying drum speed. Drying takes place on 330° of the drum-drying surface, for maximum productivity.

Dry product is removed with a doctor knife and deposited in an accumulation screw conveyor, which discharges the dryer production to a point for transfer to the dry processing operation. (Please see Drum Drying Resources Bulletin DDR-18).

Steam vapors released by the drying process are captured and exhausted by a stainless steel hood. The hood is hinged to provide open access to the dryer for cleaning and sanitation. The drying drum is driven by a shaft mounted speed reducer, which eliminates chains and sprocket drive components. The dryer is configured and conforms to the following specifications:

Specifications:

- 60" X 144" chrome plated dryer drum
- 10" Spherical roller drum bearings (2)
- 2" Johnson rotary steam and condensate joint. Includes drum adaptor and siphon pipe
- Drum drive, 5 H.P., shaft mounted. Includes shaft adaptor and hanger frame
- 6" X 6" Stainless steel lower end frames (2)
- ½" Stainless steel upper end mounting plates (2)
- Applicator rolls, 8" diameter, stainless steel (2). Includes clearance gap adjusters and bearings
- Includes synchronized electric roller drive. Includes Teflon wipers to contain product slurry
- 6" Stainless steel knife holder assembly. Includes bearing mounts, pneumatic pressure cylinders and control
- Flexible loading doctor knife. Includes stainless steel adjustable knife holder
- 8" Stainless steel ribbon screw conveyor. Includes 2 H.P. drive and product containment panels
- Vapor hood, stainless steel. Includes hinged access covers. Includes 16" vapor extraction duct
- Electric control panel

Drum Drying Resources supplies new, rebuilt, and retrofitted Double Drum Dryers to the drying industry. Each dryer is configured to specific designs, specifications, and systems to produce your product at maximum quality, sanitation, and productivity levels.

Check our Technical Bulletin section often in order to learn more about how our products and services can help you become more productive.