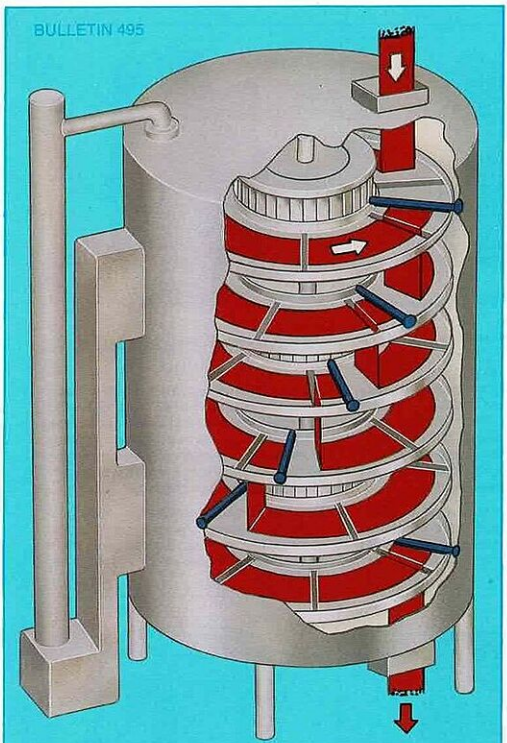
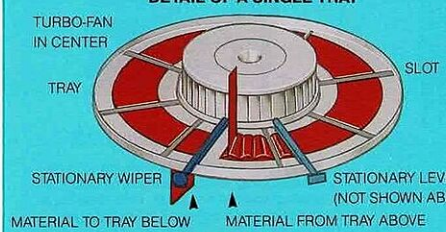
BULLETIN 495



DETAIL OF A SINGLE TRAY



HOW IT WORKS

The TURBO-Dryer® consist of a stack of slowly rotating circular trays. Material is fed onto the top tray. After one revolution the material is wiped onto the next lower tray where it is mixed, leveled, and then after one revolution is wiped to the next tray where the operation is repeated. The trays are contained in an enclosure in which heated air or gas is circulated by internal fans.

Why the Wyssmont TURBO-Dryer™ is best

EVEN, THOROUGH, AND RAPID DRYING

Delivers very uniformly dried product because material is intermittently redistributed with plug-flow operation. Uniform temperature or zoned temperature regions. The closest product temperature control of any dryer. Can give the lowest residual moisture of any dryer.

PRODUCT QUALITY

Gentle handling. Little dust, fines. Little product degradation, even with fragile flakes, crystals and pellets. Provides a free-flowing product when other dryers produce material that cakes or sets-up in containers, silos, or railcars.

UNIQUE FEATURES

Continuous automatic operation with little operator attention.
Precisely controlled temperature and residence time.
Easily adjusted and automatically maintained drying conditions.
Automatically adjusts for varying feed rates.
Can handle sticky products without backfeeding.
Can operate with inert atmosphere recirculation with solvent recovery.
Operates as a dryer, cooler, reactor, heat treater, calciner, humidifier, agglomerator, sublimer, roaster, in combination if required.
Environmentally sealed, and explosion-proof models.
The self-cleaning wiping action often eliminates the need for manual cleaning at product changeovers.
Easy startup and operation.
Low energy costs. Low labor costs.
Low maintenance costs because of its unparalleled reliability.
Can use any heating medium: steam, gas, electricity, oil, high temperature oil or waste gas from other operations.
Low temperature drying as low as 60°F without vacuum.
Drying or heat treating up to 1200°F.
Available in laboratory sizes, package units, and large field erected sizes.
Manufactured in a wide range of materials.
Vertical construction. Little space requirements. Outdoor or indoor installations.
Accurate scale-up from tests on a few pounds.

MATERIALS HANDLED

Powders, pastes, crystals, sludges, granules, slurries, beads, filter and centrifuge cakes, pellets, flakes.