



**PROCESSALL**

# U-Max Dryer

The Processall U-Max Dryer® expands the uses of the mechanically induced fluidized bed agitation principle beyond mixing to include drying

## Achieving the drying function

The vessel is equipped with a heating jacket affixed to the outside of the vessel shell. The jacket can be used with hot water, steam, or hot oil. The jacket will raise the temperature of product contact surfaces inside the vessel. The baffles in the jacket assure turbulent flow to maximize heat transfer. Because of the intense agitation imparted to the material, coupled with the fact that it is in constant axial and radial motion, the material is continually exposed to the heated surface of the vessel. Contact of the material with the heated surface is long enough to allow heat transfer to take place, but short enough to prevent the material from being thermally degraded. Resulting in high "U" factors (overall coefficient of Heat transfer). The vessel jacket can also be used to cool the product.

Use of vacuum will allow the product temperature to be low during the drying phase. Dryer efficiency is enhanced when drying under vacuum

With the fast agitational speeds the drying time is typically shorter than other types of dryers. The mechanical fluidized mix action of the plows can be assisted by the high-speed choppers which will break up agglomerates to expose more surface area to increase the drying efficiency.



## Typical Applications

- Stearates
- Pharmaceutical Intermediates
- Pigments
- Filter Cakes
- Ceramic & Semi-Conductor Material
- Starch Modification
- Food Products
- Chemical Products
- Metal Powders
- Contaminated Soil Treatment

Contact us today

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