



Automatic Fluid bed dryer TFD



This dryer is widely suitable for drying wet granule and powder material in pharmaceutical, chemical, foodstuff etc. industry, and especially suitable for drying the big granules and the small lumps etc. viscosity material after granulating from TVG Series Granulators.

Working Principle:

Cleaned heat air is fed to the product when drying in order to evaporate water or an organic solvent. Different temperature and times are required depending upon the product quality and the desired residual moisture. As the evaporation of the solvent cools the product, relatively high temperature can be used for drying without overheating the product. At the same time, it is important to mix the product well during drying.

Features:

- Material vessel adopts gasbag-style air seal.
- The fluid bed is round structure, there is no dead corner.
- There is the stirring device in the vessel, prevent the agglomeration of the wet material and forming
- Groove-flow during drying, which can make the material drying homogenization and quickly.
- The cloth bag filter at dryer top is made from anti-static special fiber; it is benefit for the safety operation.
- The operation is under the sealed and negative pressure. The design conforms to cGMP Standard.
- The drying is fast, just need 20-30 minutes for one batch.

Main Technical Specifications:

Model	TFD-60	TFD-120	TFD-200	TFD-300	TFD-500
Vessel Volume	200L	400L	650L	1000L	1500L
Capacity	60Kg	120Kg	200Kg	300Kg	500Kg
Fan Power	7.5Kw	11Kw	22Kw	30Kw	37Kw
Stirring Motor Power	0.55Kw	1.1Kw	1.1Kw	1.1Kw	1.5Kw
Stirring Speed	11 rpm	11 rpm	11 rpm	11 rpm	11 rpm
Steam Consumption	140Kg/h	170Kg/h	282Kg/h	366Kg/h	460Kg/h
Steam Pressure	0.4Mpa	0.4Mpa	0.4Mpa	0.4Mpa	0.4Mpa
Compressed Air Pressure	0.5Mpa	0.5Mpa	0.5Mpa	0.5Mpa	0.5Mpa
Compressed Air Consumption	0.6M3/h	0.6M3/h	0.9M3/h	1.2M3/h	1.2M3/h