

Centpro Engineering Private Limited.

Agitated Thin Film Dryer (ATFD)

- ◆ ATFD is a modernized apparatus used for continuous processing of concentrated materials into dry solids. It consists of a shell with heating jacket and a rotor centrally placed inside the shell equipped with rows and pendulum blades of length of the dryer.
- ◆ The wet feed is evenly distributed over the heated walls with the help of hinged blades of the rotor. The high turbulence evaporates the water/solvent only to convert the liquid into a slurry form, a cake, dry powder/ flex.
- ◆ The vapour rises upwards and collected as a condensate in a condenser. The system operates under vacuum for temperature sensitive products and at atmospheric temperature for natural drying.

Features

- Our ATFD are designed to suit heat sensitive products
- It can also be used as a Vacuum Dryer
- Efftive for oxygen sensitive products
- Air free operation
- Excellent turndown capability
- Easy maintenance because of sophisticated bearings and shaft sealing parts
- Highly flexible to suit variation in industrial requirement
- Distillation of high-boiling substance under enhanced vacuum pressure
- To develop continuous dry powder material
- Removal of highly-volatile components from viscous products
- Enhance your product quality by reducing impurities and eliminating thermal degradation
- Improved product recovery.



Pilot Plant (ATFD)

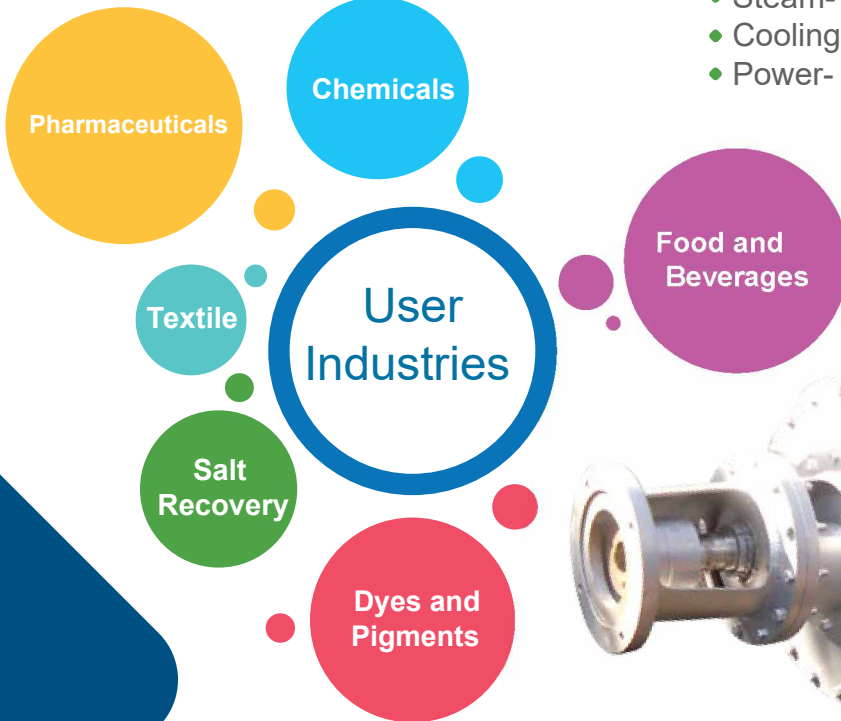
We Centpro Engineering Private Limited, provide Pilot Plant Agitated Thin Film Dryers (ATFD) for taking trials at customers place, which enable our clients to validate designed process. Also, we conduct a test of industrial effluent in our well-equipped Laboratory to study the behaviour of a process before using it on a large industrial scale and thus assuring the performance. This distinct view of satisfying customer's need makes us renowned solution provider.

Operating Parameters of ATFD Pilot Plant

- Feed- 50 kg/hr
- RPM- 0 to 150
- Operating Pressure- Atmospheric / Full Vacuum

Utilities

- Steam- 1 – 10 Bar(g)
- Cooling- upto 1m³/hr
- Power- 10KW



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