

Sample Copy to Boost You on Another Way



Mango Powder Drinks - What?

Starring:

Mango Powder Drinks is basically a type dry powder mix, which can provide a fluid replacement against dehydration after getting water mixed and after drinking. The composition of mango powder drinks is near about saline or tasty saline, but only the differences is the added permitted natural identical color, permitted artificial flavor.



Figure: Mango Powder Drinks

Mango powder drinks is a thirst quenching product. The product is provided in dried condition which is convenient to carry everywhere as well as while in travelling. During summer or while exercising body gets dehydrated. In this situation, only dry powdered saline can provide a quicker relief against dehydration as well as the thirst. Mango powder drinks is instant tasty and healthy solution against dehydration after sweating.







Why Industry performs or produces Mango Powder Drinks:

Mango Powder Drinks is a powder mix performs a quick, convenient solution while heavy sweating and thirst quenching. A mini pack is also convenient for carrying and very much easier to find out while necessary.

Based on the objectives, the industries are rendering their service to produce mango powder drinks in mini pack for consumer conveniency.







Sample Copy to Boost You on Another Way



Mango Powder Drinks Production Process:

Mango Powder Drinks is a dried powder mix, where moisture controlling is a must. Apart of this, the Mango powder drinks production process can be described as follows.

- Initial Mixing for the ingredients
- Drying of the initial mixed items
- Final Mixing for the ingredients
- Packing

A] Initial Mixing for the ingredients

All the ingredients according to the recipe has weighted properly and accurately. Then the ingredients are placed in a cone mixer or in a ribbon mixer. The mixer is ongoing for a certain period of time based on the guideline of quality.

A 01] Cone Mixer

There can be various types of cone mixer. The figure shows a common type of cone mixer. Some company are using "V" type cone mixer also.

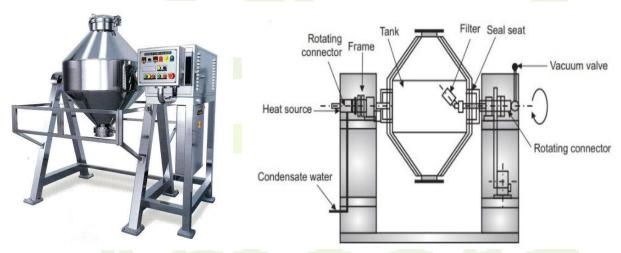


Figure: Cone Mixer Unit

Cone blender is an efficient and versatile machine for mixing of dry powders and granules homogeneously. All the product contact parts are made of stainless steel.



Sample Copy to Boost You on Another Way



A 02] Ribbon Mixer

There are some processing industries, where ribbon mixer is used instead of cone mixer. The ribbon mixer is horizontal mixing process for the dried ingredients. Ribbon mixer is designed for consistent, homogeneous batch or continuous blending of powders and granules.

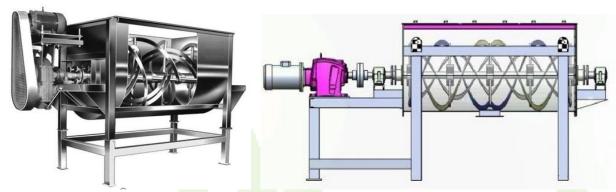


Figure: Ribbon Mixer Unit

The performance of ribbon mixer varies from gentle blending to high intensity mixing. Ribbon Mixing Machine is a very popular choice of mixer as it has wide range capacity of powders and bulk solids mixing. Based on the processing conveniency, the producer can choose ribbon mixer also.









B] Drying of the initial mixed items

Drying is the essential part for dry powder production process. Drying is the process by which the optimum level of moisture is controlled for the final products.

B 01] Fluid Bed Dryer:

Fluid Bed Dryer is an equipment which is used extensively in food processing industries and pharmaceutical industries to reduce the moisture content of powder and granules. The equipment works on a principle of fluidization of the feeding materials.



Figure: Fluid Bed Dryer

The principle of fluid bed dryer: If air is allowed to flow through a bed of solid powdered material in upward direction with the velocity greater than the settling rate of particles, then the solid particles will be blown up and become suspended in the air stream. Thus the moisture is reduced to the desired level.





Sample Copy to Boost You on Another Way



An internal diagramatic figure is shown here to understand the all unit related to a Fluid Bed Dryer.

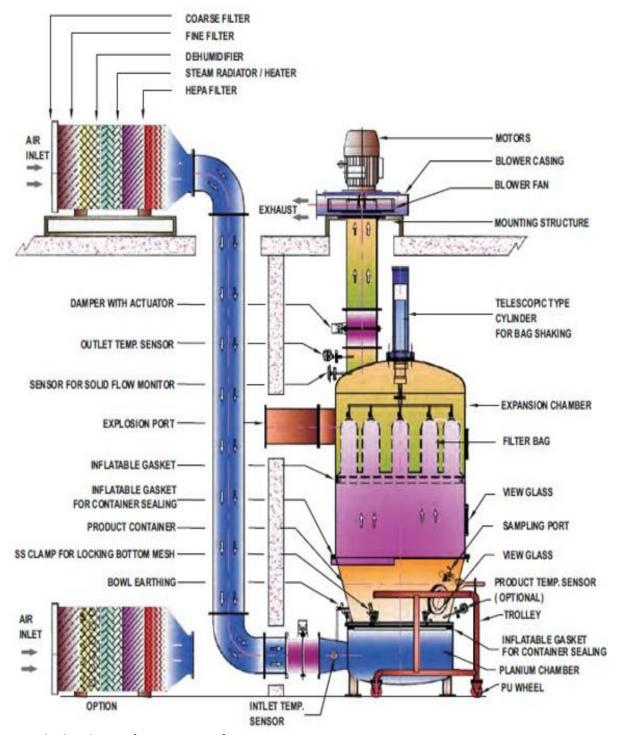


Figure: Fluid Bed Dryer [Inner Diagram]







B 02] Tray Dryer:

A tray dryer is a heated chamber used to remove moisture and other solvents from the powder and granules. The oven dryer typically has a fan or turbine which sparks the convection process that provides heats and thus inside material gets dried.

Tray drying is a batch process used to dry materials at desired level. The loaded materials are batched and placed into trays for drying.

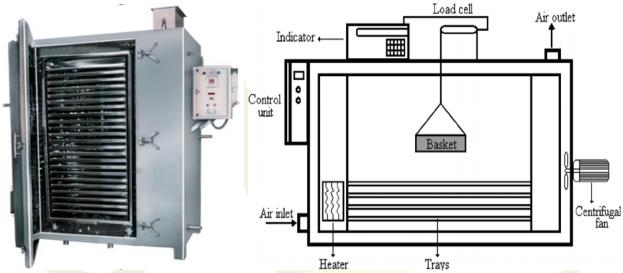


Figure: Tray Oven Dryer [Single Chamber]

The term tray drying is normally referring to small amount of industrial drying. The heating is done in form of air heater and a fan that helps to pass the air over the product

C] Final Mixing for the ingredients

In case of final mixing, the cone mixer can be used.









D] Packing Machine:

The dried product is filled in a VFFS machine. The full meaning of VFFS is **Vertical Form Filling & Sealing**. This is such kind of filling system, where the products are packed vertically.

VFFS is a method of packaging system where the bag is created while the filling process is running. Both vertical seal and horizontal seal can be done in this machine.



Figure: Sachet Filling Machine [Single]

Figure: Sachet Filling Machine [Multi]

The packaging material is inserted through the mechanism so that the machine can form pouch. After that the product is filled and sealed immediately after filling.

Different types of pack can be produced by VFFS machine.

