

Names:

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Name of Project:

Two way axis tracking solar dehydrator

Working Principle :

Two axis tracking solar dehydrator is a way to preserve fruits, vegetables, dry fruits, animal proteins after harvest. Food dehydrator is used to remove moisture from the food and increase the life span of the food.

This dehydrator has a tracking system in order to track rays from the Sun and utilize the maximum energy.

It has two way tracking system X and Y axis. This works on solar geometry. Solar geometry helps us understand the path of the sun.

Solar dehydrator was used in the ancient times for drying fish. It helps in distillation of water.

The present invention refers to a food solar dehydrator, which consists of a solar collector, a dehydrating chamber and a dismountable base, where the collector has the function of heating the air, and since it is coupled to the dehydrating chamber, it injects the air therein so as to be passed through the food to be dehydrated. The air being subsequently flown out from the chamber by two way fans along with the humidity extracted there from.

Figure:**Applications:**

Dehydration of food materials. Food Industry
Home -makers
Seasonal Stores

Approximate Cost:

Rs 20000/-

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