

MANUAL DE CONSTRUCCIÓN Y OPERACIÓN DE UNA SECADORA SOLAR

SECADORAS SOLARES

Los dos elementos básicos de una secadora solar son: el colector, donde la radiación calienta el aire y la cámara de secado, donde el producto es deshidratado por el aire que pasa. Estos elementos pueden diseñarse de diferentes formas para integrarse a diferentes equipos de secado solar.

Tipos de Circulación

El aire circula dentro del secador con el fin de eliminar la humedad evaporada del producto. Esta circulación se logra por dos métodos: circulación forzada y por convección natural.

Circulación forzada:

El aire es movido por un ventilador que consume energía mecánica o eléctrica. Este tipo de circulación facilita el diseño en el caso de los equipos de tamaño grande, además de facilitar el control del proceso de secado. Usando este tipo de circulación se pueden obtener velocidades de circulación de aire entre 0.3 y 1 m/s. La principal desventaja de la circulación forzada es el hecho de que se debe disponer de una fuente de energía eléctrica.

Circulación por convección natural:

El aire es movido por las diferencias de temperatura entre las distintas partes del equipo, que promueven la convección térmica del aire. Este tipo de circulación se hace más difícil de incorporar con equipos grandes. Para equipos pequeños o medianos se pueden lograr velocidades de aire de 0.4 a 1 m/s al interior de la cámara, pero en equipos grandes esta velocidad no sobrepasa los 0.1 a 0.3 m/s.

Tipos de Secadores Solares

Indirecto:

El colector y la cámara de secado están separados. El aire es calentado en el colector y la radiación no incide sobre el producto colocado en la cámara de secado. La cámara de secado no permite la entrada de la radiación solar. Este secador es esencialmente un secador convectivo convencional sobre el cual el sol actúa como fuente energética. Los secadores directos difieren de los indirectos en la transmisión de calor y la separación de vapor. A continuación se dan varias características de operación que definen a este tipo de secadores.

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