

SOLAR DRIER *KSD 250*

'smart solutions for small enterprises'

Kraftwork is proud to present KSD 250 - a novel and eco friendly way to address the needs of small scale food processing industries. The salient features include:

- Hygienic drying.
- No color degradation due to UV rays.
- Uninterrupted year round operations with bio gas or LPG backup.
- Lower running costs hence higher saving.

Control Panel with humidity and temprature controls that regulate the exhaust vents and hot water inlets

Heat Exchangers

Axial flow reversible Fans

Trays

Perforated SS 304 sheets trays arranged in SS Trolleys with caster wheels

Solar panels

Each air collector is of size 2 M x 1 M and 3 collectors are provided to per heat the inlet air.

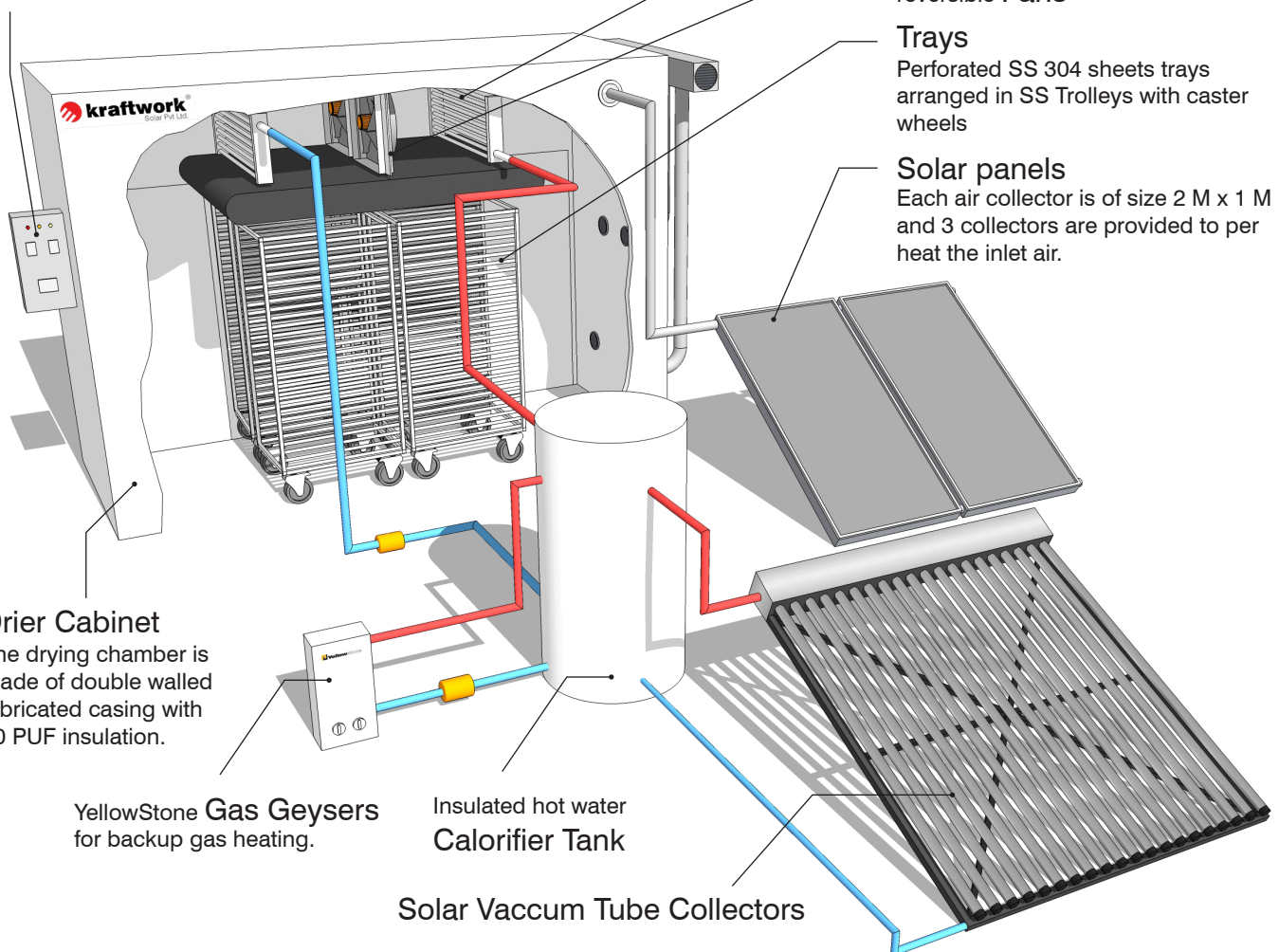
Drier Cabinet

The drying chamber is made of double walled fabricated casing with 50 PUF insulation.

YellowStone Gas Geysers for backup gas heating.

Insulated hot water Calorifier Tank

Solar Vaccum Tube Collectors



For current price please see attached price list or email info@kraftworksolar.com

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Solar Pvt Ltd.

Description of Drier

Casing (Drying chamber) : The drying chamber is made of double walled fabricated casing with 50 mm PUF insulation. Inner wall of casing is made of SS 304 and outer wall with M.S. painted finish.

Size of chamber : 4000 L x 1500 W x 2900 H

Trays : Perforated SS 304 sheets or SS wire mesh – size 600 x 900 x 25
Quantity - 108 Nos (27 Nos in each trolley with 4 trolleys.)

Heating : Hot water from solar calorifier tank is circulated inside the chamber into two heat exchangers made of SS 304 finned tubes. The water from the calorifier tank will also be heated by LPG as a back up arrangement.

Air heater Collectors : Each air collector is of size 2 M x 1 M and 3 collectors can be arranged in parallel / series configuration as per availability of space. This hot air is taken as inlet air into the chamber.

Air Circulation : Two Axial flow fans of 6000 cfm/hr capacity provides the air circulation inside the chamber.

Electric Control System : The blower will have on / off control, the Gas backup heaters can controlled automatically by a temperature controller. The temperature can be measured in two or three points in the tunnel. The humidity inside the chamber is read in a digital controller that controls the exhaust fans.

Time of drying and output : The time of drying and specific weight of each product varies considerably. For eg: 2.5 to 3 Kg of material can be loaded in each tray and therefore capacity of the drier can be 250 to 300kg on a wet basis.

SPECIFICATION OF KSD 250 CABINET DRIER

1	Size of the chamber	Length - 4000 mm Width - 1500 mm Height - 2900 mm
2	Maximum temperature	70 deg. C
3	Heating	Hot water generated from solar collectors circulated into the casing through heat exchangers. Back LPG/ Bio gas heaters provided.
4	Blowers	2Nos of 2 HP each
5	Power Supply	240V Single Phase / 440 V Three Phase.
6	Number of trolleys	4 Nos.
7	Charge Per Tray	2.5 Kg to 3 Kg.
8	Tray material	SS 304
9	Tray size	600 x 900 x 25
10	Solar Collectors	400 Vacuum tubes of 47 x 1400 mm arranged in 8 collectors.
11	Gas Back up	6 Nos of YellowStone Gas geysers connected to calorifier tank by a 0.5 HP pump
12	Control Panel	Controls for hot water circulation pump, back up gas geysers, Humidity controls for exhaust fans.
13	Air heating panels	3 Nos of 2m x 1m hot air collectors for pre-heating inlet air.

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