

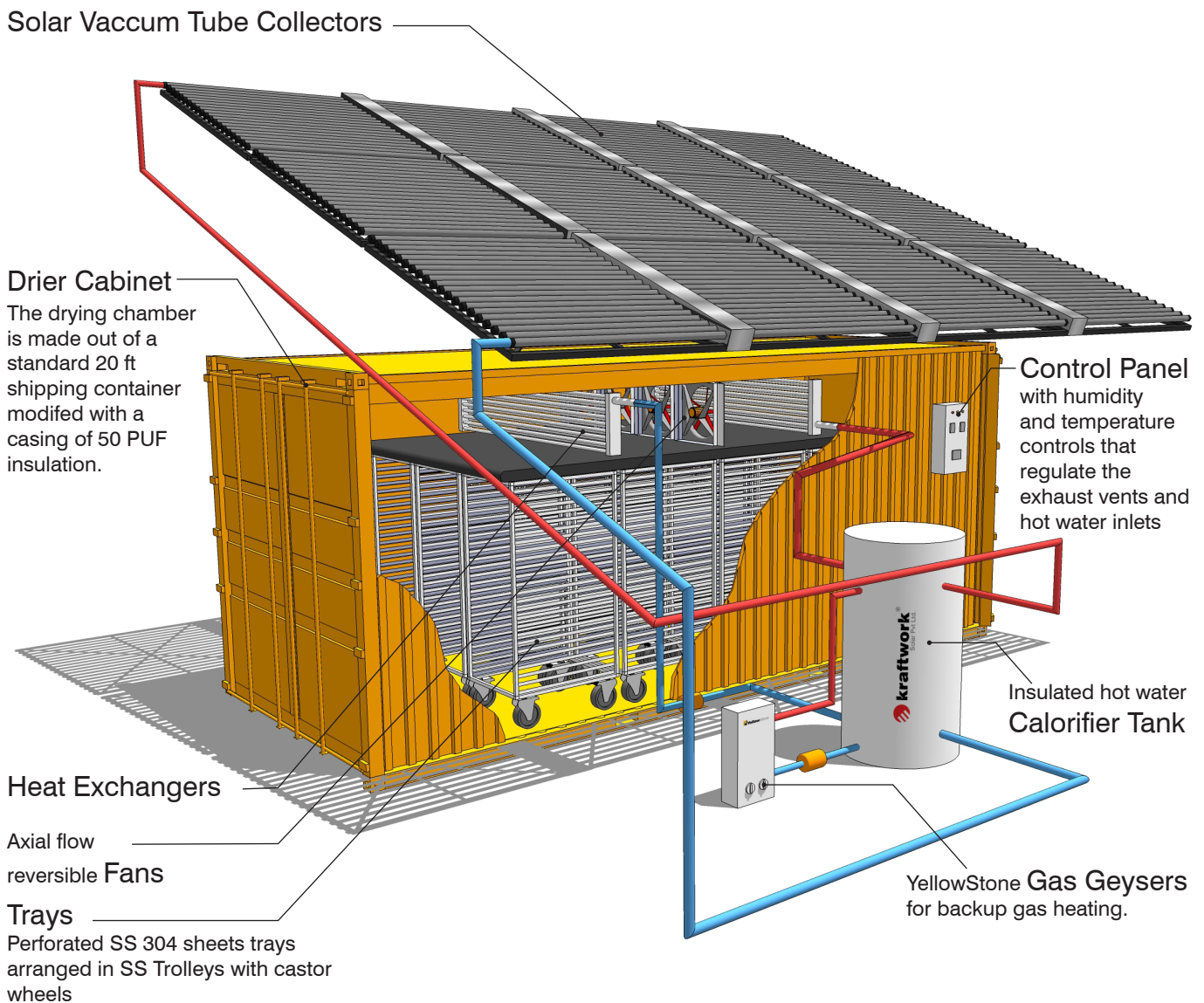
SOLAR DRIER *KSD 1000*

'smart solutions for small enterprises'

Kraftwork is proud to present KSD 1000 - 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.

Kraftwork KSD 1000 is built of a modified standard 20 ft shipping container thereby achieving ease of transportability throughout the globe and great economy in the cost of construction. All the equipment will be enclosed within the container and will be shipped to the location from the factory and will be then taken out and assembled on site. The overhang of the solar panels can be utilized as an additional shelter on site.



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

Description of Dryer

Casing (Drying chamber) : The drying chamber is made of out of 20ft standard shipping container modified, and with 50 mm PUF insulation. Inner wall of casing is made of SS 304 and outer wall with M.S. painted finish.

Size of inner chamber : 6000 L x 2400 W x 2400 H

Trays : Perforated SS 304 sheets or SS wire mesh – size 600 x 900 x 25
Quantity - 300 Nos (25 Nos in each trolley with 12 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 Circulation : Four Axial flow fans of 6000 cfm/hr capacity provides the air circulation inside the chamber. The fans are reversible in direction and are made of fiberglass cast Aluminium impellers driven by 2 HP ,class H insulated Three Phase motors. Fans rotation will be reversed periodically to change airflow through the trays.

Inlet and Outlet air dampers : Motorized dampers actuated manually or automatically by sensing the humidity inside the chamber.

Humidity and Temperature sensors : Installed inside the chamber and connected to automatic climate controller to actuate the fans, dampers and hot water pumps. The automatic temperature climate controller is optional and the operation can be manual also.

Inlet air quality : The air can be de-humidified by regenerative type dehumidifiers to supply dry air into the chamber. The efficiency of the drier will be enhanced by the dehumidifier. In humid atmospheres, the dehumidifier will be ideally suited to improve the efficiency of the drier.

SPECIFICATION OF KSD1000 TUNNEL DRIER

1	Size of the chamber	Length - 6000 mm Width - 2400 mm Height - 2400 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	4Nos of 2 HP each
5	Power Supply	240V Single Phase / 440 V Three Phase.
6	Number of trolleys	12 Nos.
7	Charge Per Tray	3 Kg to 4 Kg.
8	Tray material	SS 304
9	Tray size	600 x 900 x 25
10	Solar Collectors	600 Vaccum tubes of 47 x 1400 mm arranged in 12 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.

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