

Company Introduction

ENCONPUNE ENERGY AND AIR SOLUTIONS is a consultancy and Project Company for all kind of Thermal Engineering Projects (Specifically in Waste Heat Recovery solutions), Thermal Engineering, Flow and Noise Control. We undertakes "Design Consultancy" as well as "Turnkey projects". We have proven Thermal designs as well as Mechanical designs which are in working at various industries.

Mr. Shrikant Pawar, Director Technical is associated with heat transfer field from last two decade and have a versatile experience specially in the field of **Waste Heat Recovery (WHR), Thermal Projects, Mini Steam & Hot Air / Gas Generators, Drying equipments (Tray, Rotary and Vacuum Dryers), Air Dryers**, Noise control equipments (Mufflers and Silencers), Flow Switches, Level Controllers, Flow Meters **Food Preservation systems**.

Under Engineering Services we do Air and Thermal Audits, Furnace performance testing, Indoor / Outdoor Air quality testing, Flue Gas Analysis and Sound Level Testing. We Undertakes Furnace efficiency improvement program and Conducts Thermal Audits. We also organize "**Industrial Training Programs**" on Energy Conservation and Performance Calculations for various thermal equipments.

Our Focus

Our Focus is Thermal and Energy Conservation needs. Our motive is "Waste Heat Recovery" and "to design and supply heat transfer equipments for right specifications, to appropriate cost with innovative technology for customer delight". Our prime goal is to recover all kind of waste Energy and to reuse it again for some useful work.

We request you to Visit our Web Site "**www.enconpune.com**" for more details....

Tray Dryer



ENCON

saves

A tray Dryer is an enclosed insulated chamber in which trays are placed on top of each other in trolleys. Tray Dryer are used where heating and drying are essential parts of manufacturing process in industries such as Chemicals, Dye stuff, Pharmaceutical, Food Products, Colors etc. The material to be dried either wet or solids are placed in the trays. Heat transfer is by circulation of hot air by electric heaters, Thermic fluid heaters or steam in radiator coils. Blower fans are installed inside to ensure proper circulation and transfer of heat. A control panel to control the temperature and other parameters is fixed outside the dryer. These dryers are available in Mild Steel, Stainless Steel or construction. Tray dryer is used for drying of pigments, food, bakery, electrodes, chemical and plastic powders.

Construction

The external frame work is made of thick gauge M. S plates both the exterior made of thick gauge CRCA sheets or AISI 304 sheets. in between the space, resin bonded special quality fiber glass or Ceramic wool heat insulation slabs are provided. Safety guards for fan blade & heaters are provided. The carbon steel parts are painted with heat resistant aluminum paint. Inner Chamber mostly of AISI 304, Outer Chamber - CRCA or AISI 304 as per client requirement.

Fan & Motor

According to models doors are provided with smooth moving hinges, latch catch & sealing gaskets. Well balanced large propeller type fan (S) fitted inside the chamber with suitable shaft & dual bearing with Electric motor (S) drive.

Heaters

'U' type tubular heaters are provided inside the chamber for maximum heat transfer. Steam heated or Thermic Fluid heated models are fitted with finned type steam radiators.

Controls Panel

Control Panel box consists of contactor assembly, On & Off switch, Digital Controller neon lamps, operating push buttons are incorporated in the control Box.

Available Models

Model	SS-06	SS-12	SS-24	SS-48	SS-96	SS-192
Capacity (in trays)	6	12	24	48	96	192
Motor (HP)	0.5	0.5	1	1	2	4
Trolley	1	1	1	1	2	4
Temperature (°C)	Heating Load (KW)					
100	1.5	3	6	9	18	36
150	2	4	7.5	10	20	39
200	3	5	9	12	22	42

Technical Specifications:

Model	Fan Motor (HP)	No. of Fan	Tray Size	Tray Material
SS-06	0.5	1	16"x 32"x 1.25"	Aluminum/ SS304/ SS316
SS-12	0.5	1		
SS-24	0.5	1		
SS-48	1	1		
SS-96	1	2		
SS-192	1	4		

All required electrical switch gears are of L&T / Siemens / BCHL make.

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