



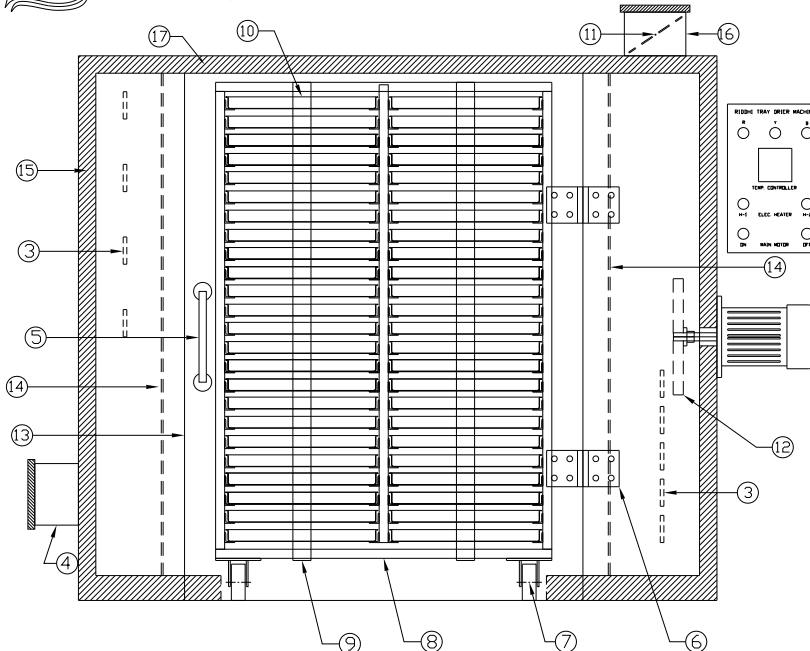
PHARMA MACHINERIES



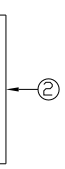
TRAY DRYER-
6,12,24,48,96,192 TRAY MODEL AVILABLE







OVERALL DIMENSIONS : 86"(L) x 42"(W) x 72"(H)



S.N.	Part Name	Qty.
01	1 HP Main Motor	1
02	Control Panel	1
03	Electric Heaters	9
04	Air Inlet with Filter	1
05	Door Handle with Lock	1
06	Door Hinges	2
07	Castor Wheels	4
08	Trolley	1
09	Tray Support	2
10	Trays	48
11	Air Outlet Damper	1
12	Blower / Fan	1
13	Main Door	1
14	Safety Grill	2
15	Insulation	1
16	Air Outlet with Filter	1
17	Limit Switch at Door	1



RIDDHI 24 TRAY DRIER GMP MODEL (RDTD – 24) MACHINE

- **APPLICATION :**

RIDDHI Tray Driers are used for the best drying results in conventional process. Drying oven is specially designed for Bulk Drug, Pharmaceuticals, Chemicals, Food, Paints, Textiles & other industries. It is well accepted for economical drying of powder, granules, food material & chemicals.

- **CONSTRUCTION :**

Drying oven is fabricated out of rigid angle iron frame with double walled panels insulated with best quality compressed fiber glass and with a rigid door fitted with strong hinges and best chosen locking arrangement. A control panel is fixed in front of the oven to facilitate the operation. It is manufactured from SS304 quality from inside & outside & polished to the mirror finish in the inside & matt finish on the outside.

One no. door is provided at the front side of the Drier. Door lips are lined with rubber gasket to prevent leakages. Suitable robust locking arrangement and hinges are provided on the door.

- **HEATING :**

The drying oven will be provided with heating mode as electrically heated. In electrically heated model, digital temperature controller is provided with digital timer.

- **AIR HANDLING UNIT (AHU) AT INLET :**

A highly effective Air Handling Unit at Air Inlet will be provided wherein Blower and AHU with filters, heater and dehumidifier are housed separately in the service zone to avoid sound pollution as well as to avoid interference of the maintenance people in the production zone. The construction of unit from internal is of SS 304 quality and M.S. duly painted from external side. It has 25mm thick insulation between two different metal bodies to which ensures heat / temperature loss.

The air intake section has a full face external flange for attachment of angle intact, or and extended inlet air duct. Inlet system comprising of 20 Micron Pre-Filter followed by De-humidifier unit. De-humidifier unit comprising of chilling coil for maintaining the proper humidity. The configuration of dehumidifier shall be Shell and Tube type (Extended area), Multipass, fixed head type having Chilled water inlet & outlet connections completed with bonnets, pass participation plates and entrainment separator duly mounted on structural support.

Further it passes through Heaters designed for multi pass providing adequate heat transfer area to ensure the temperature of air.

Further it passes through Fine Filter of 5 Micron then through HEPA Filter of 0.3 Micron.



- **CONTROL PANEL :**

Semi-automatic & Non FLP Type control panel is fitted on the side of the Drier. It consists of Starters, contactors, safety relays, circuit breakers, indicating lamps, push buttons, timers, controllers etc.

Digital Temperature Controller with Timer is supplied to facilitate uninterrupted working from batch to batch.

Note : FLP Type Control Panel can be provided at an extra cost.

- **TRAYS :**

S.S. 316 Trays of 22 SWG. (as standard supply) of jointless construction and mirror polished can be provided at an extra cost. We can also provided 18 SWG.

Note : Tray of 20 SWG. / 18 SWG. can be provided at extra cost as per requirement.

- **SHELVES :**

Fixed type shelves made from S.S. 304 quality angle section is provided within the chamber.

Note : Trolley can be provided at extra cost as per requirement.

- **TECHNICAL SPECIFICATIONS :**

1. Model No. : RDTD – 24
2. Type : GMP
3. Capacity : 24 Trays
4. Temp. Range : 70 to 100 ° C
5. Elec. Load : 12 kW
6. No. of Door : One
7. Tray Arrang. : on Fixed Type Shelves.
7. Insulation : 75mm Thick with Glass Wool / Rock Wool.
8. Blower : 1 or higher / 2800 RPM / 3 ϕ AC Supply Non FLP – Depending upon distance between AHU and Tray Drier Chamber.
9. MOC : S.S. 304 Inside & Outside
10. Finish : Internal – Mirror Polished & External – Matt. Polished.
11. M/c. Dmns. : 1350 x 530 x 940(H) – in mm. Approx.

RIDDHI 48 TRAY DRIER
GMP MODEL (RDTD – 48) MACHINE



1.0 TECHNICAL SPECIFICATIONS :

1.	Name of Machine	48 Tray Drier GMP Model Machine
2.	Model No.	RDTD – 48 GMP
3.	Capacity of Trays	48 Nos.
4.	Temperature Range	Operating - 30°C to 140 °C
5.	Working Pressure	Atmospheric Pressure
6.	Trays	
6a.	MOC	S.S. 304 / 316 of 22G./18G./16G.
6b.	Size	32" (L) x 16" (W) x 1.1/4"(H)
6c.	No. of Trays	48
6d.	Finish	Mirror Polished
7.	Trolley	
7a.	MOC	S.S. 304 / 316
7b.	No. of Trolley	1 No.
7c.	Capacity	48 Nos. Trays each Trolley
7d.	Size of Trays	32" (L) x 16" (W) x 1.1/4"(H)
8.	Castor Wheels	
8a.	No. of Wheels	4 Nos.
8b.	Type of Wheels	Fixed Type – 2 Nos. & Swivel Type – 2 Nos.
8c.	Diameter of Wheels	4"
8d.	MOC of Wheel Bracket	S.S. 304
9.	Drying Chamber	
9a.	MOC	Inside – S.S.316 – 14 SWG. & Outside–S.S.304 - 14 SWG.
9b.	Size / Overall Dimensions	80" (L) x 44" (D) x 83"(H)
9c.	Construction	Double Walled Type
9d.	Type of Insulation	Glass Wool / Rock Wool
9e.	No. of Doors	Total 1 No.
9f.	Outside Body	Fully Welded and duly Matt. Finished
9g.	Inside Body	Fully Welded and duly Mirror Finished
9h.	Edges	Rounded / Non-Sharp Edges
10.	Doors	
10a.	Inside MOC	S.S. 304 / 316
10b.	Outside MOC	S.S. 304
10c.	No. of Doors	1
10d.	Insulation Type	Glass Wool / Rock Wool
10e.	Locking	Through Spring Loaded Hinges
10f.	Handle	On each Door for Opening
10g.	Handle MOC	S.S. 304
10h.	Gasket MOC	High Temperature Resistant
10i.	Outside Finish	Matt. Polished
10j.	Inside Finish	Mirror Polished



11.	Air Recirculation	
11a.	Type	Fan
11b.	MOC of Fan	S.S. 304 / 316
11c.	MOC of Shaft	S.S. 304
11d.	No. of Fans	1
11e.	Type of Fans	Coaxial
11f.	Driving System	Electric Motor
11g.	Motor Capacity	1 HP – 1 No.
11h.	RPM / Rating	1440 RPM / 415 V / 50 Hz. 3 Phase Non FLP
12.	Filter	
12a.	Filter for Inlet Air	Will be Provided
12c.	Filter Type	Cloth Filter
13.	Exhaust	
13a.	Means	Dampers
13b.	MOC	S.S. 304
13c.	Numbers	1 No.
13d.	Mode of Operation	Manually Operated
14.	Control Panel	
14a.	Switch	Rotary Switch for Heater ON-OFF (Tecknic)
14b.	Indicating Lamps	R-Y-B will be provided (Sumo Make)
14c.	Temperature Controller	Digital Type (Multispan Make)
14d.	Temperature Indicator	Digital Type (Multispan Make)
14e.	Starters (For Fans)	Push Buttons (Tecknic Make)
14f.	Cover MOC	S.S. 304
14g.	Type of Panel	Non FLP
15.	Heating Element	
15a.	Mode of Heating	Steam Radiator
15b.	Type	Finned Tube Type
15c.	Size of Tubes	OD-19mm x 18G. Thk.
15d.	No. of Radiator Zones	2 Nos.

2.0 SALIENT FEATURES :

1. Safety Grill in front of Fan and Heat Exchanger will be provided.
2. Safety cover for drive assembly will be provided.
3. All contact parts will be mirror polished.
4. All Non-contact parts will be matt. Polished.



RIDDHI PHARMA MACHINERY LTD.

Manufacturer & Exporters of Pharmaceutical Machineries

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