



# PHARMA MACHINERIES

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



## RIDDHI PHARMA MACHINERY LTD.

CIN: U33112GJ1995PLC028504

**Manufacturer & Exporters of Pharmaceutical Machineries**

**MUMBAI OFFICE:** Om-shivam soc., Tarun Bharat Bldg. No.2, Opp. Cigarette Factory, Sahar Road, Andheri (East), Mumbai - 400 099. Maharashtra, India Tel.: +91-22-28321332 / 28382479  
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**REGD. OFFICE & FACTORY :** Riddhi Estate, Gulab Nagar, Opp. AEC, Amraiwadi, Ahmedabad - 380026. India.





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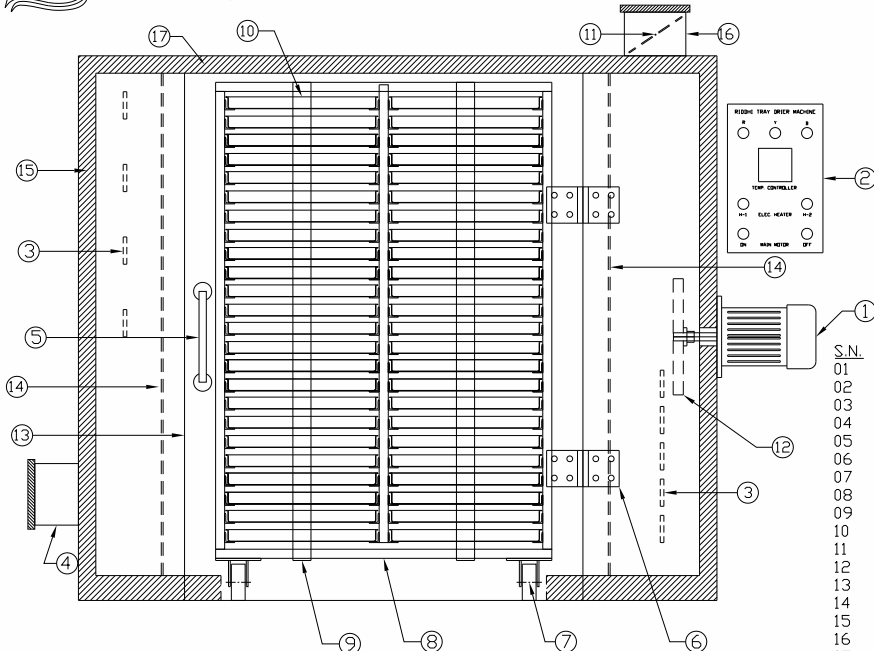




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OVERALL DIMENSIONS : 86"(L) x 42"(W) x 72"(H)

| 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 0 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 :

|            |                           |   |
|------------|---------------------------|---|
| <b>1.</b>  | <b>Name of Machine</b>    | 48 Tray Drier GMP Model Machine                           |
| <b>2.</b>  | <b>Model No.</b>          | RDTD – 48 GMP   |
| <b>3.</b>  | <b>Capacity of Trays</b>  | 48 Nos.   |
| <b>4.</b>  | <b>Temperature Range</b>  | Operating - 30°C to 140 °C                                |
| <b>5.</b>  | <b>Working Pressure</b>   | Atmospheric Pressure                                      |
| <b>6.</b>  | <b>Trays</b>              |   |
| 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   |
| <b>7.</b>  | <b>Trolley</b>            |   |
| 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)                             |
| <b>8.</b>  | <b>Castor Wheels</b>      |   |
| 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  |
| <b>9.</b>  | <b>Drying Chamber</b>     |   |
| 9a.        | MOC                       | Inside – S.S.316 – 14 SWG. &<br>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                                 |
| <b>10.</b> | <b>Doors</b>              |   |
| 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   |

|            |                          |   |
|------------|--------------------------|---|
| <b>11.</b> | <b>Air Recirculation</b> |   |
| 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 |
| <b>12.</b> | <b>Filter</b>            |   |
| 12a.       | Filter for Inlet Air     | Will be Provided                          |
| 12c.       | Filter Type              | Cloth Filter                              |
| <b>13.</b> | <b>Exhaust</b>           |   |
| 13a.       | Means                    | Dampers                                   |
| 13b.       | MOC                      | S.S. 304                                  |
| 13c.       | Numbers                  | 1 No.                                     |
| 13d.       | Mode of Operation        | Manually Operated                         |
| <b>14.</b> | <b>Control Panel</b>     |   |
| 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                                   |
| <b>15.</b> | <b>Heating Element</b>   |   |
| 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.





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