

Vacuum Tray Dryers

Mitchell's Vacuum Shelf Dryers are widely used in the pharmaceutical, food and chemical industries for the drying of pastes, liquids and powders which are:-

- Dried in small batches
- Heat sensitive
- Liable to oxidation
- Toxic
- Fragile - requiring drying without attrition
- High Value
- Flammable
- Wetted by solvents
- Requiring sterile handling.

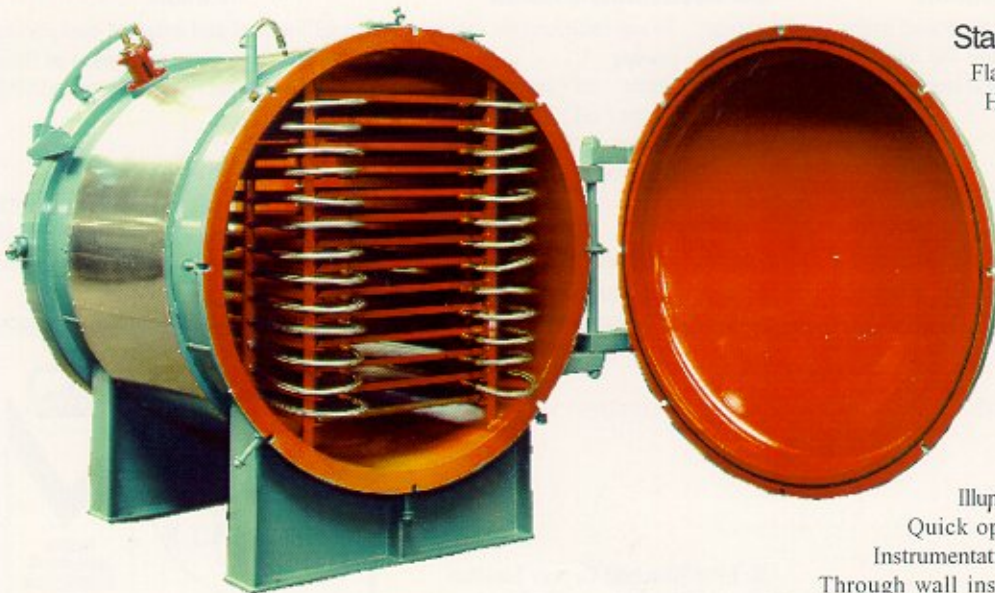
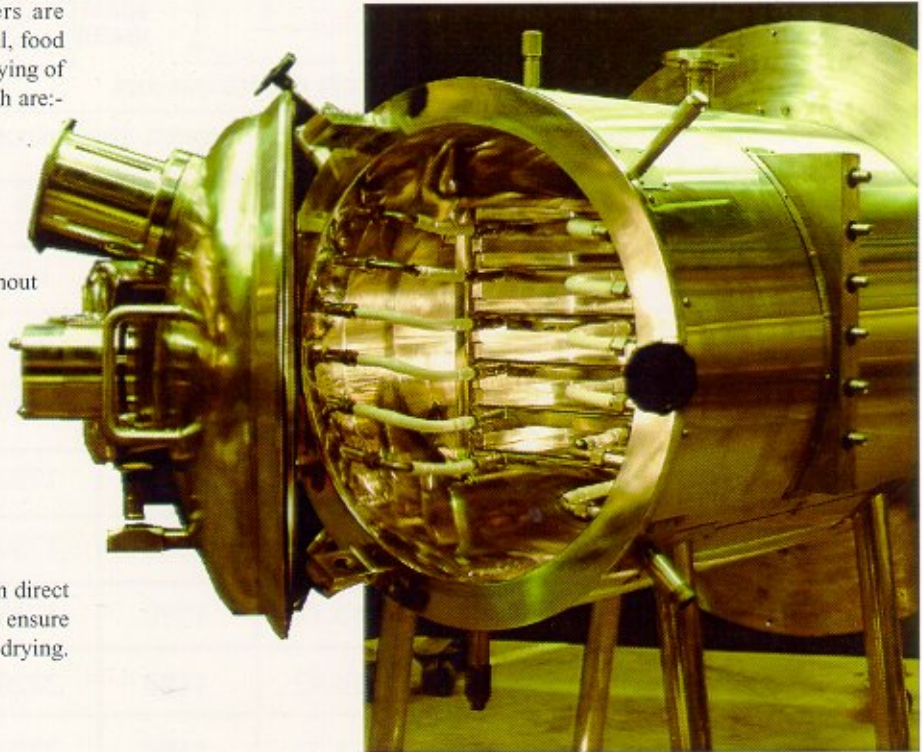
Heating

High efficiency heating platens in direct contact with the total tray surface ensure maximum heat transfer and even drying.

Heating options include

- Steam
- Hot water
- Hot oil.

Flexible service connections are used for easier maintenance.

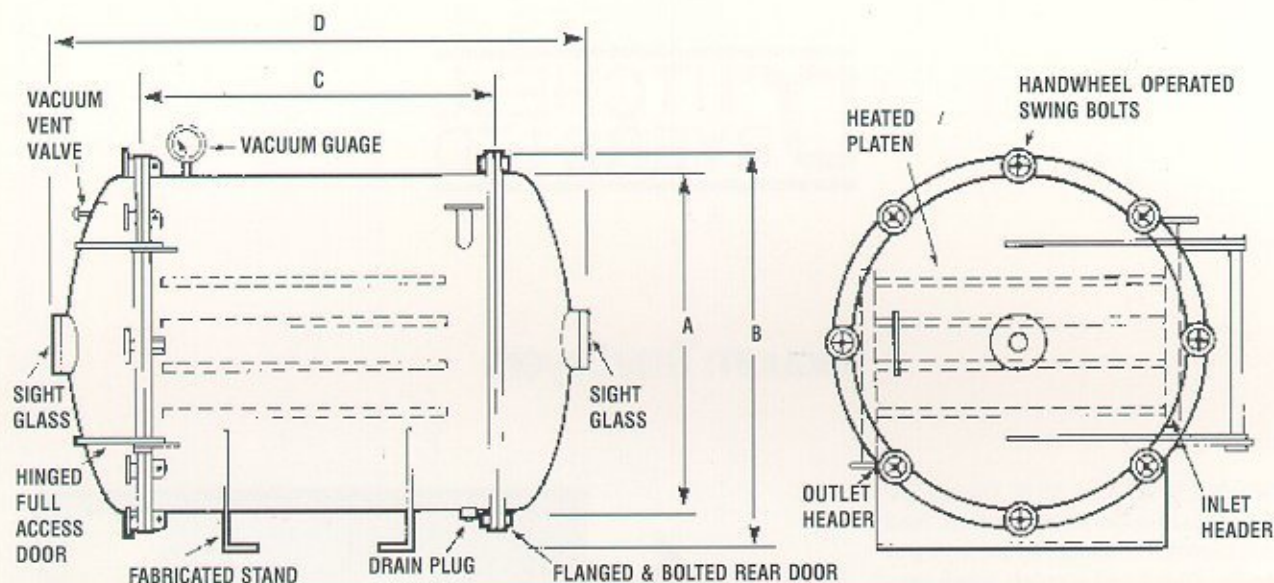


Standard Features

- Flanged bolted door at rear
- Hinged door at feed end
- Vacuum release valve
- Pressure bursting disc
- Inspection window
- Vacuum gauge

Optional Features:

- Vacuum pump
- Vapour condenser
- Exterior lagging
- Hinged door at back
- Illuminated inspection window
- Quick opening door mechanism
- Instrumentation to suit requirements.
- Through wall installation sealing flange
- External Thermal plates (to eliminate condensation)



Dryer No	Heating Platens	Trays	Tray Size mm	Tray Area m ²	Approx dimensions mm			
					A	B	C	D
1	6	6	460 x 460	1.25	660	820	620	820
2	6	6	813 x 406	1.97	660	820	1000	1730
3	7	14	813 x 406	4.61	1070	1270	1000	1730
4	10	20	813 x 406	6.58	1370	1730	1000	1530
5	10	30	813 x 406	9.87	1370	1730	1420	1830
6	10	40	813 x 406	13.15	1370	1730	1830	2290
7	15	45	813 x 406	16.42	1680	2220	1420	2040
8	15	60	813 x 406	18.72	1680	2220	1830	2490

Material of Construction

Carbon steel, stainless steel and other alloys are available to suit the application. Gasket materials are selected to suit the products handled.

Operating Range

Temperature: -10 to +150°C
 Vessel pressure: Full vacuum
 Heating platen pressure: up to 3.4 bar g.

Service Requirements

Electrical: To suit location (for vacuum pump)
 Heating: Water / oil / steam
 Cooling: Water / oil / brine
 Nitrogen: 1.0 bar g (for venting if required)

CIP agents: as required (for cleaning in place option).

Finish

Vessel internal and external components are available in varying degrees of finish to suit the process requirements and GMP standards.

Design Codes

Normal design is to BS 5500 or ASME VIII. Other codes can be accommodated. All equipment is built to GMP recommendations.

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LEADERS IN DRYING TECHNOLOGY

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