

VACUUM TRAY DRYER



APPLICATION

PRS Technology Vacuum Tray Dryers are widely used in the Pharmaceuticals, Foods & Chemical Industries for the drying of pastes, liquids and powders which are:

- Heat sensitive
- High Value
- Toxic in Nature
- Requires Sterile Handling
- Prone to Oxidation
- Flammable
- Fragile
- Dried in small batches

FEATURES

- Hollow heating shelves which are easily removable for maintenance.
- Fully welded skirt on VTD body for flush mounting through the wall.
- Validation ports and nitrogen purge nozzles provided.
- External Insulation provided.
- Fluid heating & circulation systems provided.
- Can be designed to customer specific requirements.

WORKING PRINCIPLE & CONSTRUCTION

PRS Technology VTD's are either cylindrical or rectangular shaped and provided with heated shelves one above the other. The product to be dried is placed on these heated shelves in trays. The heating media which is either steam / hot water or thermic oil is circulated in the shelves and outer body. Once all the trays reach the same temperature Vacuum is applied and the drying process starts. The shelves can be used to cool the product after drying.



PRS Technology can supply accessories for the Dryer system comprising of various units :

- Hot Water Tank system with pump.
- Control Panel in FLP construction.
- Condensor Receiver for Recovery of Solvents
- High Vacuum Pump.



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