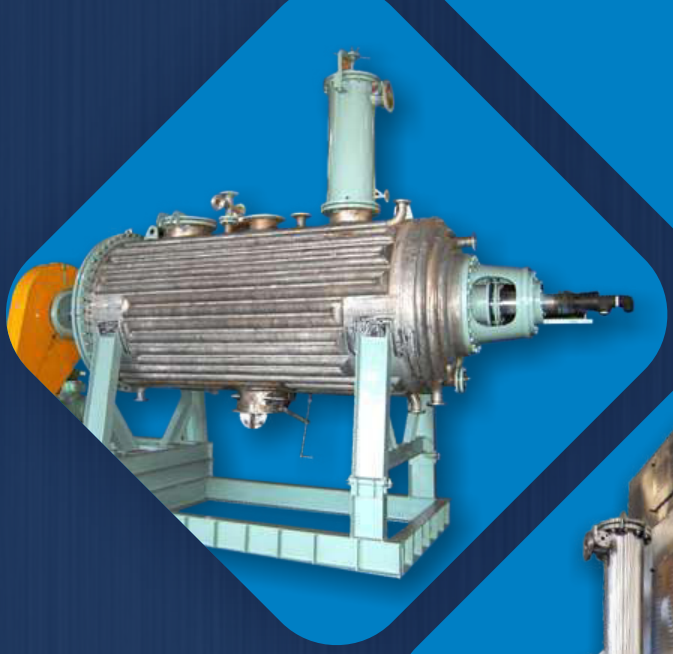








For Chemical

Pharmaceutical

Petrochemicals

Agrochemical

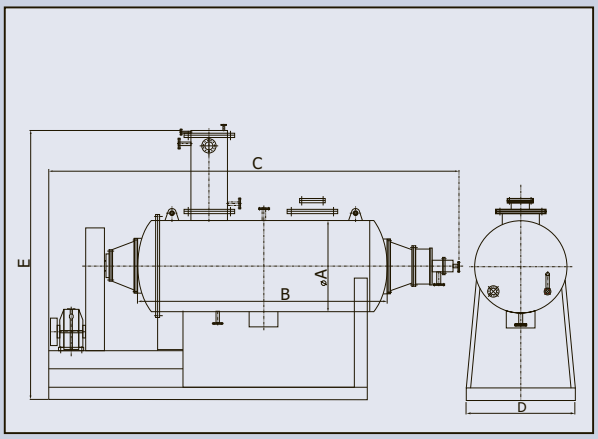
Fine Chemicals

System
Engitech Pvt. Ltd.

AN ISO 9001 : 2008 Company

Rotary Vacuum Paddle Dryer





Model	Gross Volume List	Working Volume List	A	B	C	D	E	HP	H.T.A M^2
SE D-1	500	200	600	1600	2900	900	2300	5	3
SE D-2	1000	400	800	2180	3800	1100	3000	7.5	7.5
SE D-3	1500	600	915	2420	4500	1200	3200	10	9
SE D-4	2000	800	1000	2950	5000	1300	3400	15	10
SE D-5	2500	1000	1100	2950	5000	1400	3800	20	14
SE D-6	3000	1400	1200	3250	5400	1500	3900	20	17
SE D-7	4000	1600	1250	3600	5700	1600	4000	25/30	20
SE D-8	5000	2000	1350	3800	6000	1700	4200	25/30	25
SE D-9	7500	3000	1600	4300	6500	1900	4500	30/40	30
SE D-10	10000	4000	1700	4950	7500	2000	4900	40/60	38

Rotary Vacuum Paddle Dryer

Vacuum Drying is the most-efficient way to obtain a dry powder starting from filter or centrifuge cake. Rotary vacuum paddle Dryer may be is one of this type. it is a closed System in which hot water, steam or hot fluid is used as a heating medium in the jacket, in the hollow Paddle and in the hollow shaft. dust collector, condenser, Receiver and vacuum pump are Part of the system The continuous agitation by means of heated rotating paddles and minimum clearance between scrapers and heated walls provide a good heat transfer to the wet feed. This results in the solvent/moisture evaporating off and renders the wet material dry to the required degree. The vapours formed are removed by means of vacuum. absence of Large air flows virtually eliminates dust problem and also the energy consumption remains low.

Process Advantages

- These Dryers gives optimum performance with very high heat transfer rates.
- These Dryers have been successfully used for reaction, crystallization and extraction Operations in addition to the primary function of drying.
- Low temperature drying for heat sensitive product is possible.
- Complete solvent recovery is possible with this rotary vacuum paddle dryer.

Special Designs

- Very sturdy and high powered rotary paddle dryer is designed for slummy and viscous Material.
- Breaker bars are incorporated in the Rvpd to break the lumps where the product forms lumps during drying.
- Pilot plant is available for trials at our works.

Technical Features

Drying optimization, which is done by means of external and internal heating. External heating is by means of a jacket or limpet coils, while internal heating is through a hollow Shaft and a set of hollow paddles. Hollow paddles are provided with scrapers having very Low gap from wall to maximize heat transfer. scrappers move material to all parts of the dryer and also help in discharging the material. Superior discharge valve design whose leverage provide as air tight closing when the Material is be in processed and a special arrangement lever gives you quick opening and Closing when the dried product is being discharged and packed .

- The vessel is designed to take temperature stresses during vacuum drying. low power Consumption by helical evelgear box Special floating bearing design to combat temperature stressed the shaft in the stuffing box is stellited and ground for long and trouble free operation of stuffing box.
- To remove the condensate formed by steam heating in the hollow shaft, online continuous Pumping is incorporated which is unique to this machine. Special rotary joints are also designed to introduce heating media in the hollow shaft.
- A large area of dust collecting system is incorporated with the system. Special arrangement Is made for cleaning dust collecting bags by gas pulsation.

