

**ROTOCONE
VACUUM DRYER**

PRs TECHNOLOGY

Process, Research, Solutions

We initiating Applied science with the Technology



INTRODUCTION

Double Cone Vacuum Dryers are highly successful for removal of water/solvents from wet powder after filtration units. They are used for a wide range of products (crystalline & also amorphous) in the Chemicals, Fine Chemicals, Intermediate & most importantly Pharmaceutical Industry.

WORKING PRINCIPAL & CONSTRUCTION

Double Cone Dryers consist of a bi-conical rotating chamber mounted on a robust pedestal. The raw material is charged as a batch & subjected to indirect heating through a jacket. The drying operation is conducted at a low temperature under Vacuum.

MATERIAL OF CONSTRUCTION

Double Cone Dryers are available in Stainless Steel grades of AISI 316/316L and AISI 304/304L. Other grades of Alloy such as Hastelloy C276/C22 can be supplied on request.

Double Cone Dryer are most versatile dryers due to the Low drying times achieved, Low working temperatures & extremely Low Final moisture levels of products. Dryers are built in compliance with cGMP & FDA standards.

Specially designed micro filters are installed in the dryer to prevent any solids escaping from the systems. Simultaneously, Nitrogen purging system is an integral feature of the dryer.

The discharge of the product is through a butterfly valve mounted at the outlet nozzle.

Lump breakers are installed in the dryer to increase the surface area of the product to evaporation, During the dryer rotation each Lump breaker goes alternatively in & out of the product. The use of Lump breaker is also required to reduce the drying time & ensure extremely low moisture levels in the product. The lump breaker shafts are provided with special mechanical seals ensuring a perfect vacuum in the system.

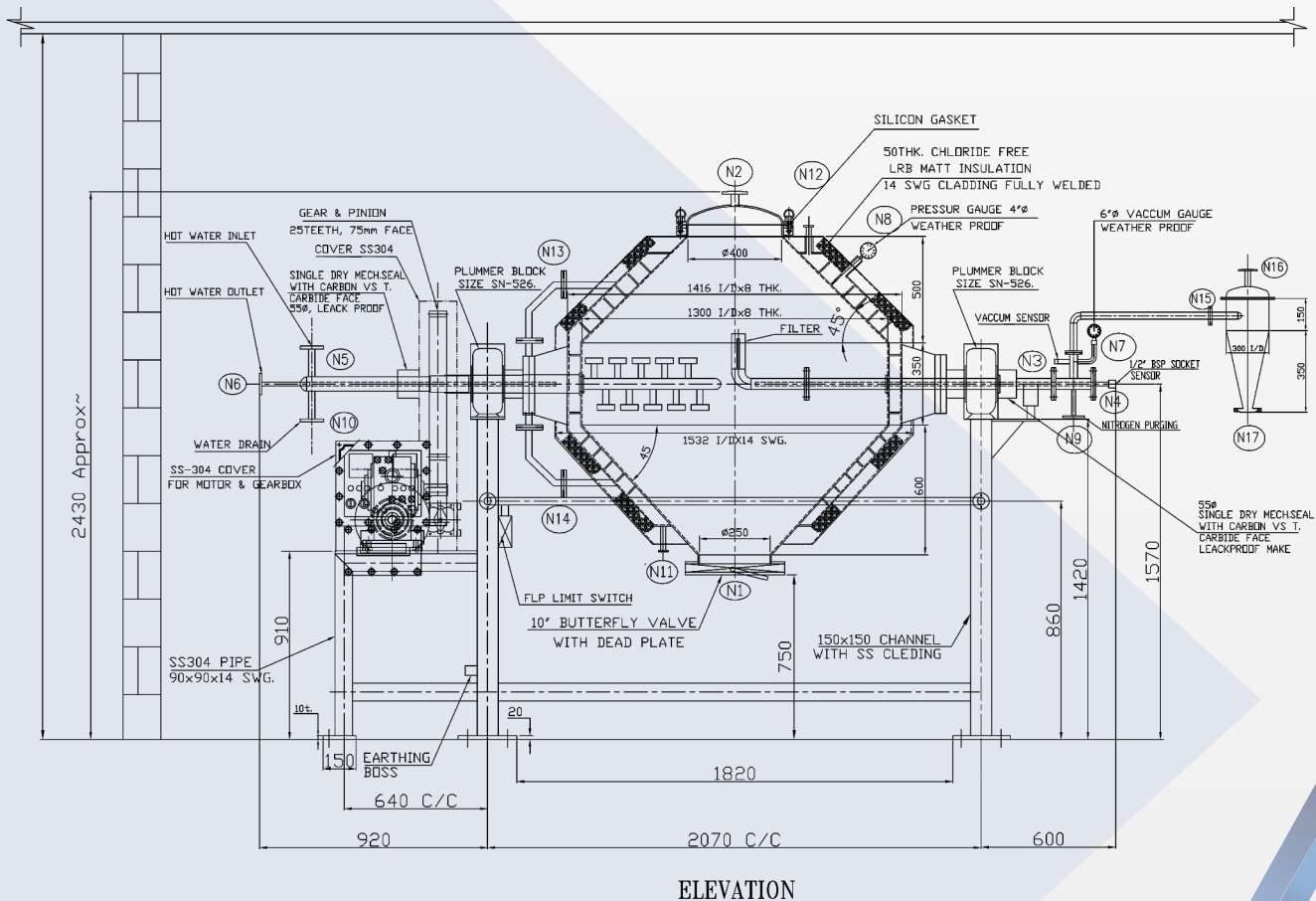


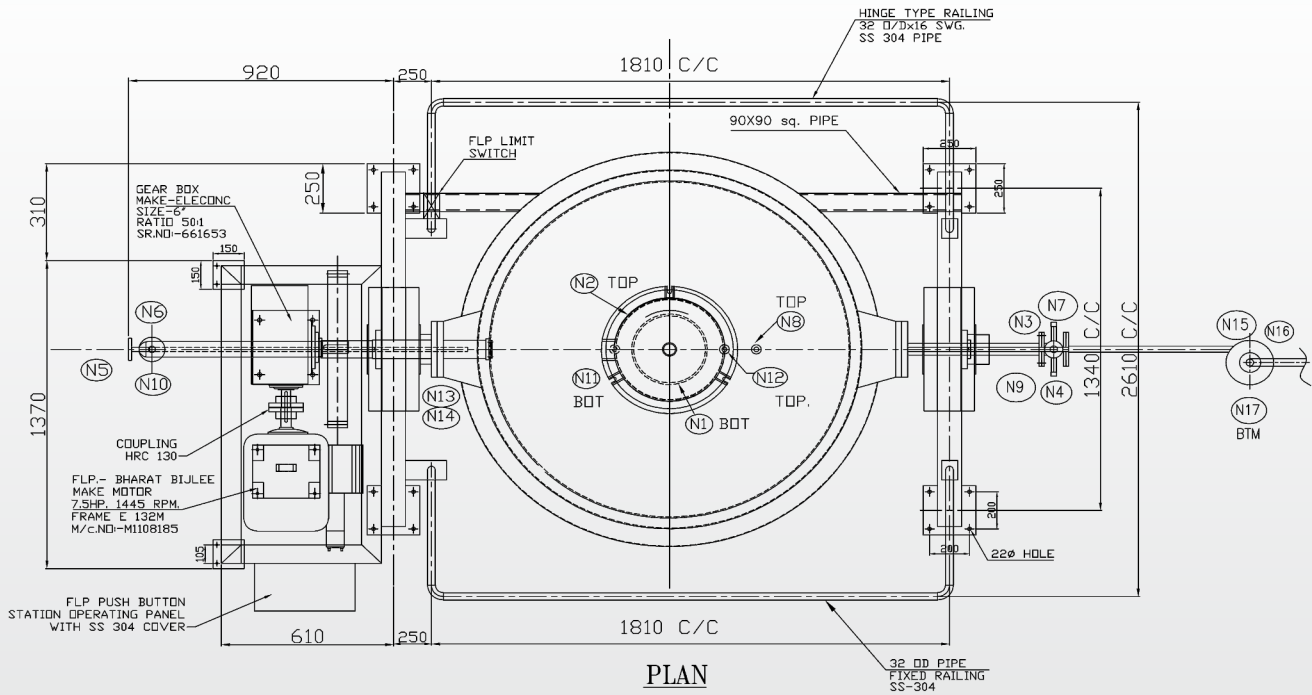
Advantages of Double Cone Vacuum Dryer

- Reduced drying times
- Uniformity & homogeneity of dried
- Products Maximum Operator & Environment Safety
- Total unloading of the product with least manpower
- Very low final moisture values in the dried products
- Low Working Temperatures
- Ease of Internal cleaning due to the shape of dryer body

Advantages of Double Cone Vacuum Dryer

- PRS Technology supplies all the units necessary for the complete dryer plant, efficiently designed to meet every batch size.
- Heating unit comprising of either Hot water or Hot Oil generation system.
 - Condensing Unit with appropriate Receiver for the recovered solvents.
 - High Vacuum Pump Unit of reputed make.
 - Control Panel with PLC & SCADA Software to ensure reproducibility of the various batches & also to connect to the DCS system





RCVD - ROTO CONE VACUUM DRYER OR DOUBLE CONE VACUUM DRYER											
Model		SAP -350	SAP -600	SAP -1000	SAP -1500	SAP -2000	SAP -3000	SAP -4K	SAP -6K	SAP -8K	SAP -10K
Gross Capacity	LTR	350L	600L	1000L	1500L	2000L	3000L	4000L	6000L	8000L	10000L
Working Capacity	LTR	210L	360L	650L	950L	1300L	1800L	1900L	4000L	5000L	6500L
	A	2250	2500	2600	2800	3150	3450	3700	4100	4400	4650
	B	1850	2150	2750	2950	3450	3850	3950	4250	4500	4900
	C	2050	2300	2350	2650	3050	3600	3900	4300	4650	5000
	D	300	300	300	350	400	400	450	500	550	550
Motor	HP	3	5	7.5	10	10	12.5	15	20	30	40
Output	RPM	6/12	6/12	6/12	6/10	6/10	6/8	6/8	6/8	6/8	6/8
Empty Weight	TONS	2.0	2.9	3.1	4.2	5.2	6.5	7.2	8.4	9.6	11.2

Our Clients



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