



# PharmaChem Cosmetics Industries

WE MANUFACTURERS MACHINERY & EQUIPMENTS FOR PHARMACEUTICAL, BIO PHARMA, BULK DRUG, FORMULATION, API, AYURVEDIC, HERBAL, FOOD, COSMETIC, CHEMICAL & BEVERAGES INDUSTRIES.

9 B / 14, RAM NAGAR, PREMSAMBANDH CHS, NEAR ASHOK NAGAR ROAD, BHANDUP - EAST, MUMBAI 400 042

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## ROTOCONE VACUUM DRYER

Roto Cone Vacuum Dryer is suitable for drying of materials which cannot resist high temperature, material which are easily oxidized, volatile materials which should be retrieved, materials strong irritant and poisonous in nature. The roto cone dryer with improved technology integrates during operation under vacuum. The roto cone dryer facilitates enhanced drying efficiency, low temperature operation and economy of process by total solvent recovery. It helps cGMP-based working by achieving optimum dust control, while offering advantages of efficient charging and discharging of materials. The drying unit equipped with lump breakers initially breaks large lumps and subsequently powders them (in single cone). The rotary action of the dryer together with mechanical action of the breakers cuts down drying time and gives a lump free product.

- Inner shell/Cone and contact parts in SS 316.
- Steam/HW water Jacket and Insulation in SS 304
- Cyclone separator in SS 316
- Dry Mechanical Seal for vacuum side
- Digital Temperature Indicators (FLP) at Hot Water inlet and outlet
- Provision for Nitrogen purging/Vacuum release with interlocking to isolation valve
- Gear Box & Motor Direct Coupled
- Extended shaft (drive side) so that drive unit can be kept in service zone (if required)
- Vacuum loading system of wet material into the Cone
- Internal 320 Grit Mirror Polish and Outer 180 Grit Mat Finish
- Reduces drying time Eliminates need for re-drying of lumps
- Handling and exposure of final product is avoided Gives uniformity size dry product
- System can process crystalline or amorphous powders which are prone for lumps
- Optimum and continuous vacuum maintenance during process
- Cantilever (One side base) construction. VFD for Drive Motor with RPM indicator
- Lump breakers with FLP motor, Mechanical seals and electrical slipping joint
- Auto Bin loading mechanism with timer control and Bins. Vacuum pump with FLP motor
- Hot water system (steam heated) with tank and circulation pump



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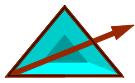
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## TECHNICAL DETAILS :

MODEL	PCI-RCVD	PCI-RCVD	PCI-RCVD	PCI-RCVD	PCI-RCVD	PCI-RCVD	PCI-RCVD	PCI-RCVD	PCI-RCVD	PCI-RCVD
	15	100	200	300	500	750	1000	1500	2000	5000
Total Volume in Ltrs	15	100	200	300	500	750	1000	1500	2000	5000
Working Volume in Ltrs	9	60	120	180	300	450	600	900	1200	3000
Capacity in Kg (max)	5	30	75	100	175	250	350	500	700	1700
RPM	6	6	6	6	6	6	6	6	6	6
Heat transfer area in m2	0.5	3.5	4.2	5	6	7	8	9.5	11	20
Cyclone Separator in Ltrs	1	5	7	10	15	20	25	30	40	75
Condenser in m2	0.1	0.5	0.75	1	1.5	2	2.5	3	4	6
Receiver in Ltrs	3	20	40	50	75	100	150	200	250	500
charging Ht in mm	700	1350	1500	1650	1800	2000	2300	2500	2650	3500
Discharging Ht in mm	300	600	650	650	700	650	750	750	750	750
Charging lid dia in mm	Φ 150	Φ 250	Φ300	Φ300	Φ350	Φ400	Φ400	Φ450	Φ500	Φ600
Discharge valve dia mm	Φ75	Φ125	Φ150	Φ150	Φ175	Φ200	Φ200	Φ225	Φ250	Φ300
Gear Box	2"	2.5"	3"	3"	4"	4"	5"	6"	6"	10"
Main drive motor	0.5HP	2HP	3HP	3HP	5HP	5HP	7.5HP	10HP	10HP	20HP
Lump Breaker motor	NA	NA	NA	0.25 HP	0.25	0.5 HP	0.5 HP	0.5 HP	1 HP	2 HP



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