

- ◆ **ROTARY CONE VACUUM DRYER (RCVD)**
- ◆ **DOUBLE CONE DRYER**
- ◆ **TUMBLER DRYER**



**High-performance Drying Technology For
Pharmaceuticals & Chemicals**



GEO DRY TECH



www.geodrytech.com

OVERVIEW

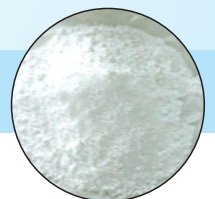
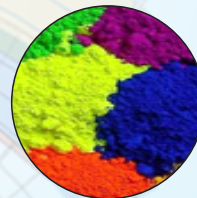
The Rotary Cone Vacuum Dryer (RCVD) is an advanced, energy-efficient drying solution designed for **SENSITIVE, HIGH-VALUE PRODUCTS**. With its unique double-cone geometry and vacuum-assisted low-temperature drying, the RCVD delivers exceptional uniformity, superior product quality, and safe solvent recovery. Ideal for **PHARMA, API, CHEMICAL INTERMEDIATES, HERBAL EXTRACTS, AND SPECIALTY MATERIALS**, it ensures gentle handling and complete discharge with minimal product retention.

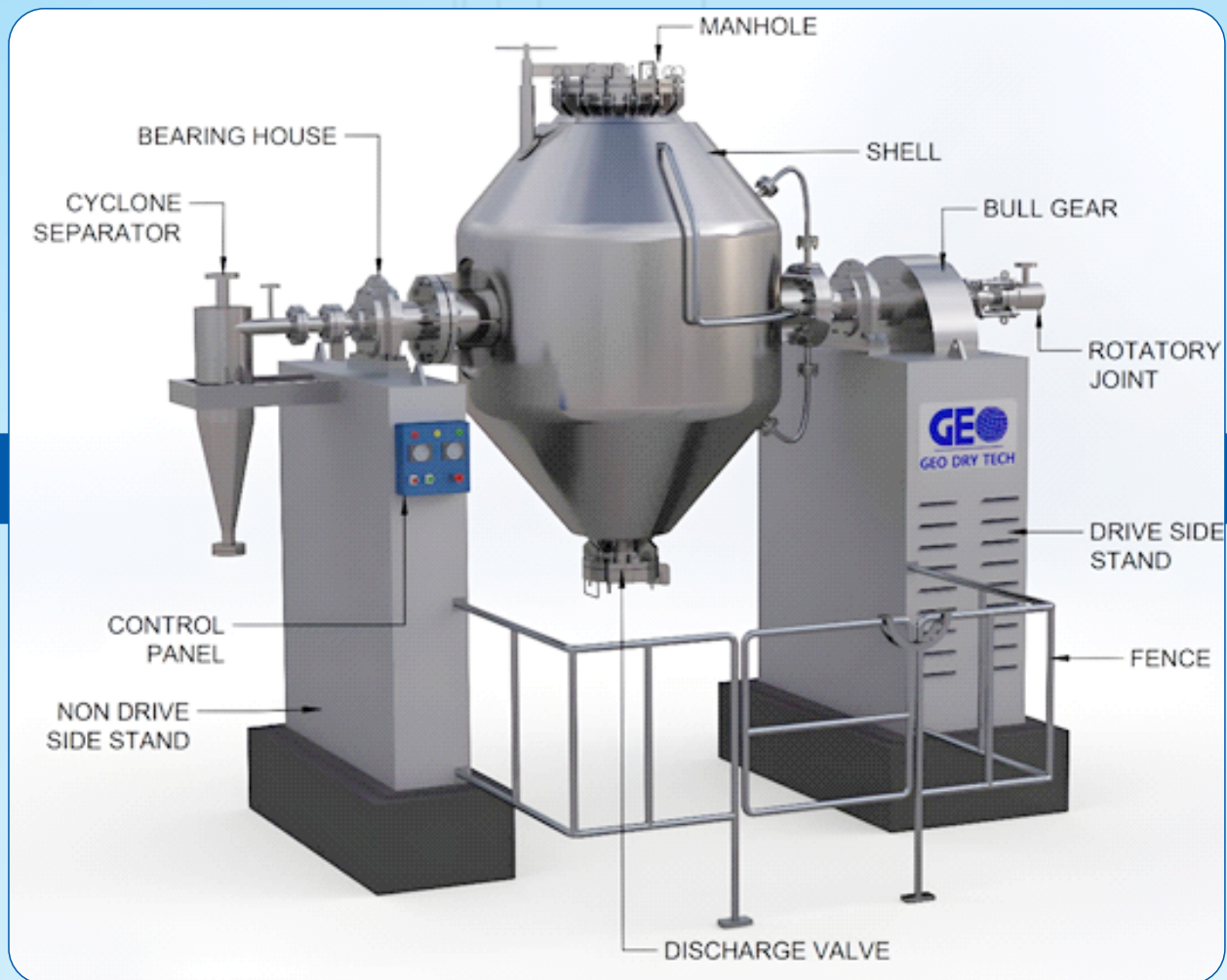
KEY HIGHLIGHTS

- **Double-Cone Design:** Ensures uniform mixing and high heat-transfer efficiency.
- **Vacuum Drying:** Enables low-temperature drying for heat-sensitive materials.
- **Gentle Tumbling Action:** Prevents product degradation and ensures lump-free output.
- **Solvent Recovery System:** Integrated condenser and receiver for efficient solvent collection.
- **GMP-Compliant Construction:** Smooth, crevice-free surfaces for hygienic processing.
- **Complete Discharge:** No dead zones; minimal material loss.
- **Low Maintenance:** Rugged design with long operational life.

APPLICATION AREAS

- **ACTIVE PHARMACEUTICAL INGREDIENTS (API)**
- **FINE & SPECIALTY CHEMICALS**
- **NUTRACEUTICALS & HERBAL EXTRACTS**
- **PIGMENTS, DYES, AND INTERMEDIATES**
- **FOOD & AGRO-CHEMICAL PRODUCTS**
- **HEAT-SENSITIVE & MOISTURE-SENSITIVE MATERIALS**





WHY CHOOSE OUR RCVD?

- **Shorter Drying Cycles** compared to traditional dryers
- **Low Operating Temperature** preserves product characteristics
- **High Purity Output** with contamination-free drying
- **Energy Efficient & Cost Effective**
- **Safe Handling of Solvents** ensuring operator and environmental safety
- **Fully Customizable** to suit process requirements

CONSTRUCTION OPTIONS

SS304 / SS316 / SS316L | HASTELLOY / ALLOY MATERIALS (ON REQUEST)

GMP / CGMP / FLAMEPROOF MODELS AVAILABLE

HEATING OPTIONS: STEAM, HOT WATER, OR THERMAL OIL

OPTIONAL ATTACHMENTS

LUMP BREAKER | VACUUM PUMP SET | PLC/HMI AUTOMATION WITH SCADA

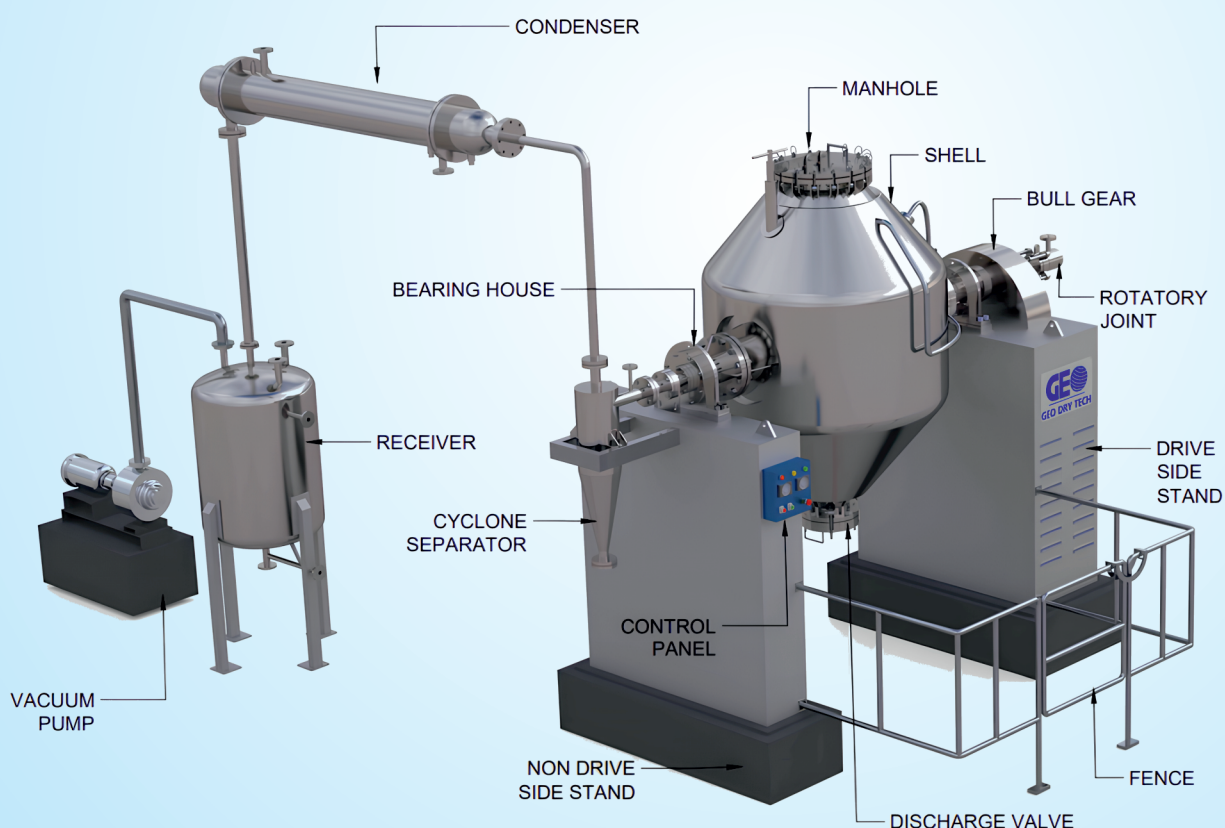
CONDENSER & RECEIVER TANK | VFD FOR ROTATION SPEED CONTROL

SPRAY NOZZLES / SAMPLING PORTS

AVAILABLE CAPACITIES

• 50 Litres to 10,000 Litres (Custom sizes available as per process requirement)

RCVD 100	RCVD 200	RCVD 300	RCVD 500	RCVD 750	RCVD 1000	RCVD 1500	RCVD 2000	RCVD 2500	RCVD 3000
Total Volume (Ltr.)	100	200	300	500	750	1000	1500	2000	3000
Working Volume (Ltr.)	60	120	180	300	450	600	900	1200	1400
Heat Transfer Area (m ²)	3.5	4.5	5	6	7	8	9.5	11	12.5
Cyclone Separator (Ltr.)	5	7	10	15	20	25	30	40	50
Condenser (m ²)	0.5	0.75	1	1.5	2	2.5	3	4	5
Receivers (Ltr.)	20	40	50	75	100	150	200	250	350
Charging Size (mm)	150	250	300	400	400	400	400	450	450
Discharging Size (mm)	100	125	150	150	175	200	200	250	250
Main Motor (HP)	2 HP	3 HP	3 HP	5 HP	5 HP	7.5 HP	10 HP	10 HP	10 HP



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