

Nauta Conical Vacuum Dryer

Shiv Shakti's Nauta conical vacuum dryer, an industry-leading solution for efficient and versatile drying of a wide range of materials. Our state-of-the-art Nauta conical screw dryer is specifically designed to handle heat-sensitive, solvent-laden, and potentially toxic or explosive products, ensuring optimal drying performance while maintaining safety and product integrity.

Technical Specifications

Size : From 10 to 20000 Liters

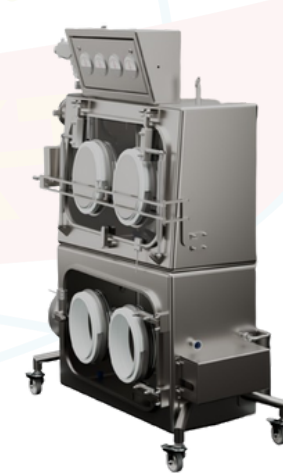
M.O.C : AISI 304, AISI 316L, AISI 316, AISI 904L, Hastelloy C22, Titanium.

Coating: Halar (ECTFE), Teflon (PFA), Rubber Lining, FRP Lining etc

MODEL	GROSS VOLUME (Liters)	WORKING VOLUME (Liters)	SCREW MOTOR (HP)	SWING ARM (HP)	SCREW RPM	DIMENSIONS (Dia x Height in mm)
SS-NCVD-10	10	7	0.25	0.25	60	300 x 400
SS-NCVD-25	25	17.5	0.5	0.25	60	400 x 600
SS-NCVD-50	50	35	1	0.5	60	500 x 700
SS-NCVD-100	100	70	1	0.5	60	600 x 825
SS-NCVD-200	200	140	3	1	60	775 x 1060
SS-NCVD-500	500	350	5	1	60	920 x 1400
SS-NCVD-750	750	525	5	1	60	1024 x 1684
SS-NCVD-1000	1000	700	7.5	1.5	60	1395 x 1895
SS-NCVD-1500	1500	1050	7.5	1.5	60	1550 x 2100
SS-NCVD-2000	2000	1400	10	2	60	1675 x 2280
SS-NCVD-2500	2500	1750	10	2	60	1985 x 2700
SS-NCVD-3000	3000	2100	12.5	2	60	2000 x 2735
SS-NCVD-4000	4000	2800	15	3	60	2120 x 2285
SS-NCVD-5000	5000	3500	15	3	60	2265 x 3080
SS-NCVD-7500	7500	5250	20	3	60	2595 x 3535
SS-NCVD-10000	10000	7000	25	3	60	2890 x 3935
SS-NCVD-15000	15000	10500	40	6	60	3295 x 4485
SS-NCVD-20000	20000	14000	50	6	60	3500 x 5000



Pilot - Kilo Lab - Skid Mounted Models



Customised Integrated Isolator Optional



Skid Mounted System



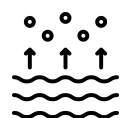
Pilot - Kilo Lab Scale Up Model

Key Advantages of the NCVD

The Nauta conical vacuum dryer is renowned for its innovative design and exceptional drying capabilities. Here are some of its key features:



Versatility: Capable of drying powders, granules, pastes, and viscous slurries.



Heat Sensitivity: Ideal for drying materials that are sensitive to heat, thanks to its vacuum operation which allows vapours to be removed at low temperatures.



Efficiency: The dryer's heated jacket, which can use steam, hot oil, or water, ensures rapid and efficient heat distribution to the product.



Advanced Mixing: The rotating cantilevered mixing screw, suspended from an orbital arm, provides convective mixing and shear, enhancing drying efficiency.

Features

- ▶ Fully closed, contained system
- ▶ High containment: ~100% solids & solvent recovery
- ▶ Operator-safe, product & environment-friendly
- ▶ Multi-product/multi-process flexibility
- ▶ Drying, mixing, homogenizing, re-wetting
- ▶ Gentle product handling
- ▶ Optimized CIP with full liquid drainage
- ▶ Short drying times: minimal screw-to-wall clearance
- ▶ Heated mixing screw: improved quality & faster drying
- ▶ 100% gravity product discharge
- ▶ ATEX compliant
- ▶ Cleanroom installation (feed/discharge area) with Integrated Isolator
- ▶ Skid Mounted System



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