



EKATO-VST

**EKATO-VST  
Vertical Dryer  
for Solids**



**EKATO SYSTEMS**

920-01-395/2.000/1.06



# VST Vertical Dryer for Solids



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## Design features:

- 1 Vacuum contact dryer for free-flowing bulk materials
- 2 Cantilevered shaft with no product contact at bearings
- 3 Close clearances between agitator and vessel wall prevent product building up and reducing heat transfer
- 4 Standardized agitator drives ensure reliable operation and low maintenance costs
- 5 Appropriate shaft seal systems for every application. Installing the shaft seal away from the product enables the tried-and-tested EKATO standard agitator seals to be used
- 6 GMP-compliant design of equipment featuring special O-ring geometries, high quality surface finishes and the absence of dead spaces
- 7 CIP concepts thought out to the last detail guarantee validatable cleaning procedures
- 8 Product fines are separated from the offgas in the vacuum dust filter. EKATO offers bag filters with coated surfaces or metallic filter cartridges. The fines drop back into the vessel when the filter cake is loosened
- 9 Chopper tools prevent lumps forming
- 10 EKATO offers package drying systems complete with heater, solvent recovery unit and control system, all from a single source



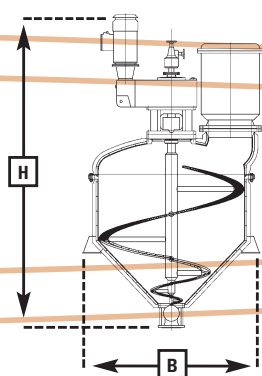
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TYPE	EFF. VOLUME (l)	HEIGHT H (mm)	WIDTH B (mm)	WEIGHT (kg)
VST 100	106	2000	1100	1000
VST 250	256	2500	1300	1500
VST 400	432	2700	1500	2000
VST 630	674	3100	1700	3000
VST 1000	1107	3400	1900	4000
VST 1600	1711	3800	2100	5000
VST 2500	2500	4200	2300	6000
VST 4000	4088	4800	2700	9000
VST 5000	5454	5000	2700	10 000
VST 6300	7093	5600	3400	12 000
VST 10000	10 077	6200	3600	14 000
VST 16000	16 836	6900	4100	16 000
VST 20000	20 216	7400	4800	18 000
VST 25000	26 091	8000	5200	20 000
VST 32000	33 007	8500	5600	25 000

All dimensions approximate

**Function:**

Vacuum contact dryer with heated walls (contact surfaces) supplying heat of evaporation to product

Intensive heat transfer through product circulation

Continuous renewal of the surface layer through the sweeping action of the agitator

Reduced boiling points under vacuum speed the drying process

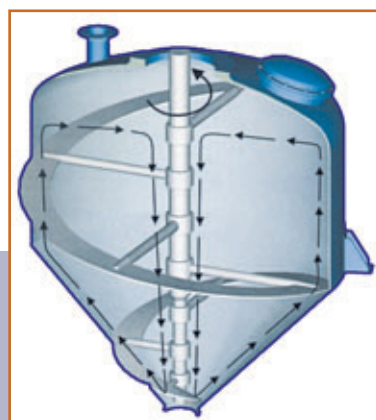
**Application:**

Drying of free-flowing products such as filter cake moist from the centrifuge, shear-sensitive powders or crystals, and pharmaceutical active ingredients

Minimum residual amounts of product remain clinging to the conical bottom of the dryer

The equipment design (agitated vessel) lends itself well to the typical layout concept in chemical plants

At low circumferential speeds also suitable for hazardous zones





EKATO SOLIDMIX Research and Development facility

- Application-oriented testing
- Development of special agitator impellers
- Engineering studies

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