

VTC centrifuge as mobile turnkey System

This special design combines centrifuge, control system, drive components and inertisation unit in one system. The operator is provided with a mobile turnkey unit suitable for Ex-Zone 1. Suitable for pilot plants as well as small quantities production in the fine chemicals and the pharmaceutical industry.

Design features

- Mobile turnkey system
- Suitable for Zone 1 (according to RL 94/9/EG)
- Including control system, drive components and inertisation unit
- Simple operation and handling
- Robust design according to the latest GMP guidelines
- Optimally designed functional devices for efficient and reliable process cycles with low vibrations
- CIP system
- Compact dimensions

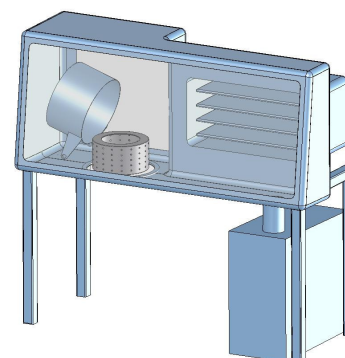


VTC isolator centrifuge

The VTC isolator centrifuge is designed especially for the use in an isolator. This allows the operator contamination-free transport of toxic active pharmaceutical ingredients (HAPI) from the centrifuge to the next process step (e.g. vacuum dryer). The solids are discharged from the basket either manually or by means of a lifting device. Suitable for pilot plants as well as small production quantities in the pharmaceutical industry.

Design features

- Optimally designed operation components for simple and efficient handling within the isolator
- Separation from the process area of the isolator using membrane connection
- Robust design according to the latest GMP guidelines guarantee reliable process cycles with low vibrations.
- CIP system
- Compact dimensions
- Suitable for Zone 1 (according to RL 94/9/EG)



VTC	320/160	400/200	500/250	500/350	
Basket diameter	320	400	500	500	[mm]
Basket opening	224	280	350	350	[mm]
Basket height	160	200	250	350	[mm]
Filter surface	0.16	0.25	0.39	0.55	[m ²]
Useful volume (100%)	6.6	12.8	25	35	[l]
Max. load (100%, ρ 1'250 kg/m ³)	8.2	16	31.3	43.8	[kg]
Max. rotor speed	3'000	2'700	2'400	2'400	[min ⁻¹]
Max. G force	1'610	1'630	1'610	1'610	[g]
Centrifuge weight (without load)	200	300	400	420	[kg]
Motor power for main drive	1.5	2.2	3	3	[kW]

VTC 320-500

Basic equipment

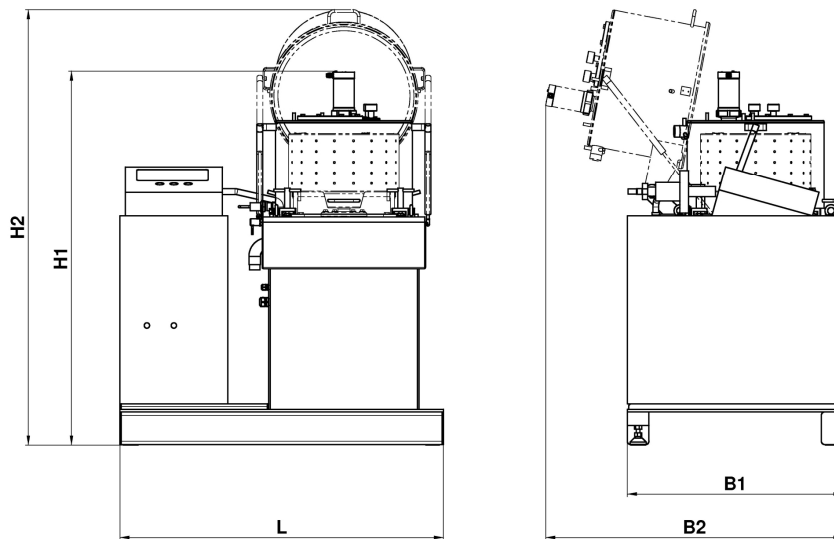
Vibration dampers. Bearing (temperature monitored). Drive with frequency controlled three-phase asynchronous motor. Welded swivel open housing. Pressure relief valve and siphon. Basket. Lifiable filter bag. Feed pipe. Wash pipe.

Optional equipment

CIP. Inertisation system InertoSafe® (Basic, ATEX). Oxygen analysers. Lifting device (basket).

Automation

See separate data sheets



VTC	320/160	400/200	500/250	500/350	
L	1'200	1'200	1'350	1'350	[mm]
B1	800	800	900	900	[mm]
B2	1'000	1'100	1'300	1'300	[mm]
H1	1'300	1'390	1'450	1'550	[mm]
H2	14'70	1'620	1'700	1'800	[mm]
Design pressure	300 ¹				[mbarg]
Operating pressure	4 – 20				[mbarg]
Gas tightness	40 mbarg according to DIN 24400				[mbarg]
Product temperature range	0 - 80				[°C]
Max. allowable bearing temperature	95				[°C]
Ambient temperature	0 - 40 ²				[°C]

¹ Other pressure ranges upon request

² Other temperature ranges upon request