

Bottom Discharge Centrifuge TM model



For the efficient separation of solids and liquids in a single sealed environment
Fine chemicals – Active Pharmaceutical Ingredients (API)



Fully inspectable
version (TM/GMP)

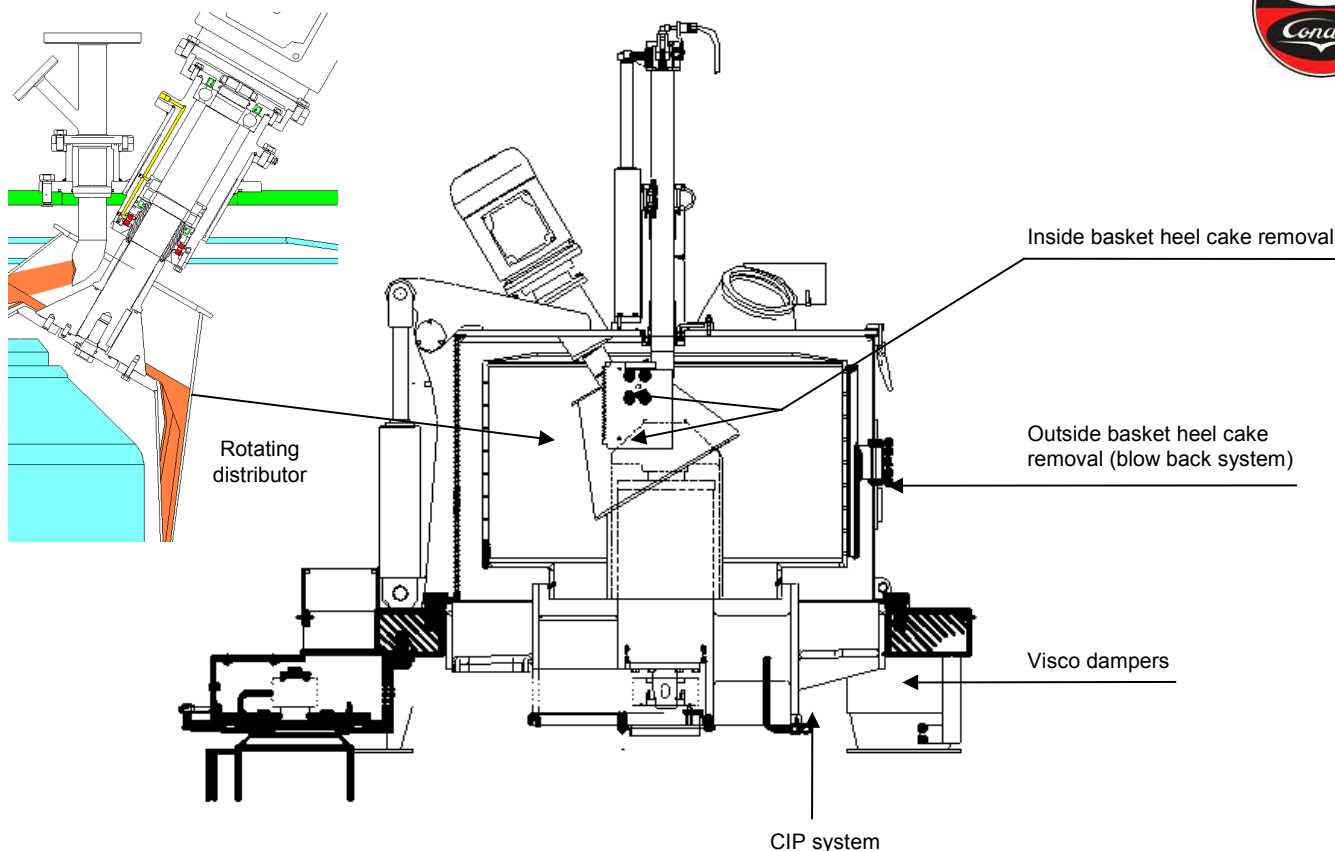
COMI CONDOR S.p.A. -

Centrifuge technology since 1920

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Bottom Discharge Centrifuge Design & Specifications



FIELD OF APPLICATION AND CHARACTERISTICS

- production of chemical and bulk pharmaceutical products from synthesis processes
- product requiring a large filtering area
- suitable for toxic and flammable products, where avoidance of contacts between product and operator is mandatory
- the centrifuge may be constantly kept under inert atmosphere with a small overpressure, as per DIN 24400, 400 mm WC
- filter cloth mounted into the basket by rings; replacement is very easy and quick
- rotating distributor for feeding and washing allowing a uniform cake distribution which avoids unbalance
- construction materials: aisi 316L(DIN 1.4404), Hastelloy C, Titanium, 904L, or others
- surface coating: Halar, ETFE
- mirror like or electrochemical polishing are also available
- relatively limited horizontal space required
- suspension can be on three columns or on inertia base on elastic dampers, which transfer low dynamic loads to the foundations

- actuation of the basket and of the optional rotating cone by electric motors with frequency converters. Knife and cover opening are hydraulically operated
- the lubrication is by grease for every model
- high level FDA qualification documentation to complete the plant FDA qualification book

CONTROL OPTIONS

- complete PLC controls with touch screen interface
- switch between automatic and manual operation
- variable frequency drive (VFD) speed control
- ATEX electrical enclosures
- optional instrumentation integrated into the control system including oxygen monitoring, temperature, pressure, liquid feed flow, N₂ purge flow, effluent particle detection and fluid clarity



AFTER-MARKET SUPPORT

- field service & technical support available 24/7
- mechanical and electrical parts
- process control and maintenance manuals
- certifications and construction documentation
- mechanical and electrical upgrades



Centrifuge Model	Units	800/250	800/400	1000/500	1000/630	1250/700	1250/800	1600/800	1600/1000	1700/1100	1700/1350
Basket diameter	mm	800	800	1000	1000	1250	1250	1600	1600	1700	1700
Basket length	mm	250	400	500	630	700	800	800	1000	1100	1350
Filtering surface	m ²	0.63	1.01	1.57	1.98	2.75	3.14	4.02	5.03	5.87	7.2
Cake volume	dm ³	63	100	200	250	400	500	800	1000	1270	1560
Slurry density	kg/dm ³	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25
Maximum load	kg	79	125	250	312	500	625	1000	1250	1587	1950
Maximum speed	RPM	1650	1500	1200	1200	1000	1000	900	900	800	800
G-factor xg	G	1216	1006	805	805	700	700	724	724	608	608
Centrifuge weight	kg	1500	2000	4100	4250	6400	6700	12,000	13,000	14,500	16,500