

PLD Pull Action Filter Centrifuge with Scraper Bottom Discharge



Introduction

The PLD pull action filter centrifuge with scraper bottom discharge are developed on our own and have achieved invention patent. This solid-liquid separation centrifuge remains the main functions of LGZ series such as separation and scraper discharge. Our pharmaceutical centrifuge features pull action filter to offer more than 99% cake removal rate.

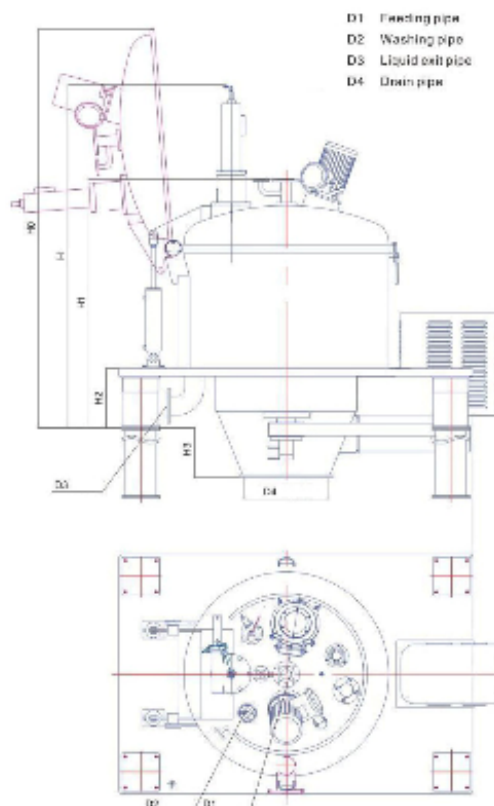
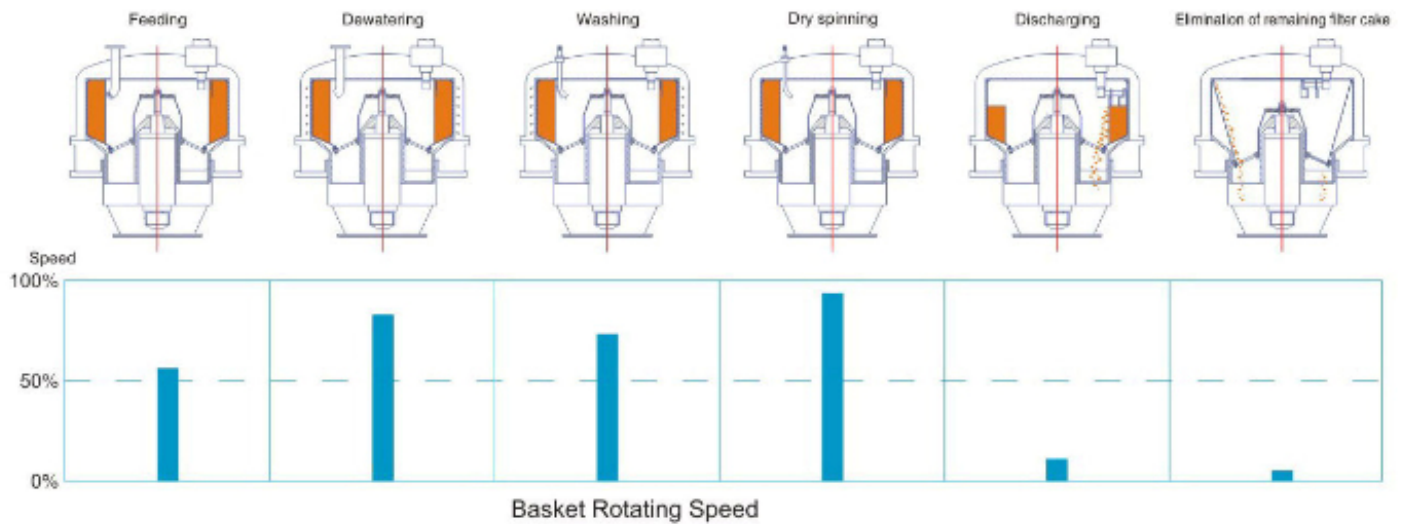
This food centrifuge bypasses batch cross among different products and the negative impacts on filtration efficiency caused by residual cake. Based on these advantages, our chemical centrifuge has been extensively applied to solid-liquid separations of crystallized materials for industries of pharmacy, food and chemical, etc.

Main Features of PLD Pull Action Filter Centrifuge

In addition to all features of LGZ series bottom discharge scraper centrifuge, our PLD pull action filter centrifuges also features following advantages

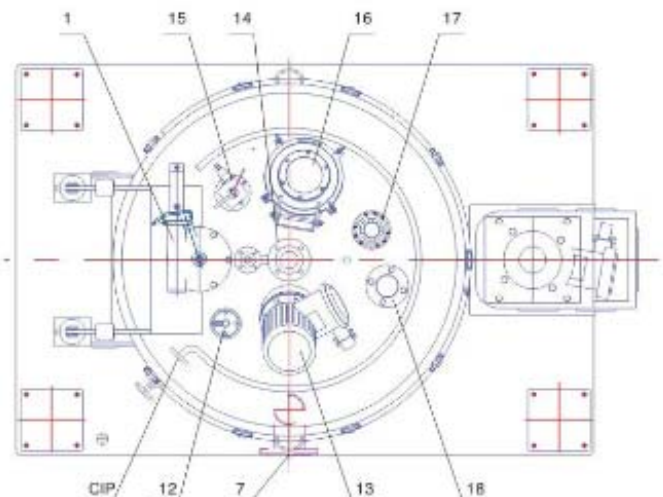
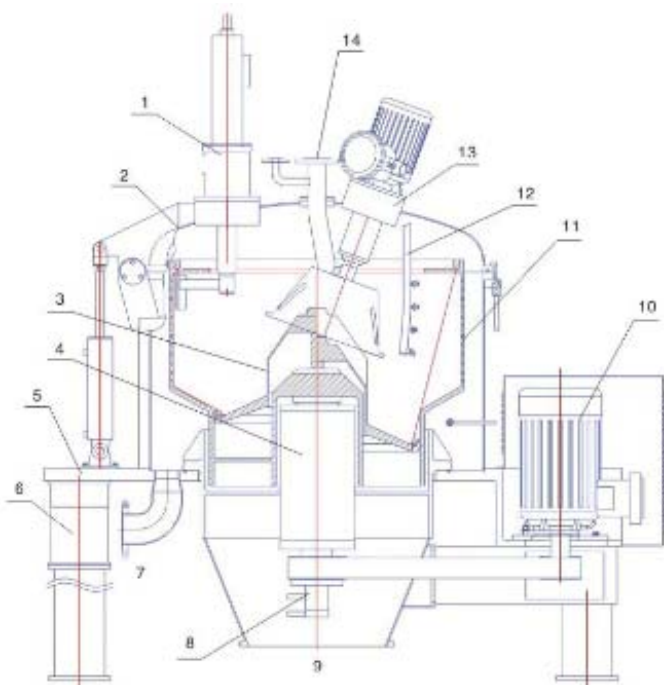
1. Residual cake remove is conducted by pulling the filter cloth using pneumatic device, thus offering complete discharge.
2. Removable liquid block plate is available in basket to provide reliable self-locking and easy replacement of filter cloth.
3. Built-in cylinder comes with more compacted structure.
4. Self-cooling rotary joint delivers more reliable performance.
5. Fully enclosed discharge hopper isolates products from driving components on this explosion-proof separation equipment.

Workflow of PLD Pull Action Filter Centrifuge



Optional Configuration of PLD Scraper Bottom Discharge Pull Action Filter Centrifuge

1. Cover: Large cover, full cover, flat cover
2. Feeding method: inclined feed tray, side feed tube, cake level detector
3. Scraper discharge: pneumatic, hydraulic, liquid-phase skimming disc
4. Motor drive: common motor, variable frequency drive motor, explosion-proof motor
5. Protection: nitrogen protection system, explosion proof, vibration protection, temperature protection, electric-mechanical interlocking, rotation monitoring and overload protection
6. CIP system: cleaning ball and spray pipe
7. Nitrogen protection system: automatic nitrogen supplier, hydraulic sealing device and gas-liquid separator



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|----------------------|--------------------|--------------------------|
| 1 Scraper assembly | 7 Liquid outlet | 13 Feeding device |
| 2 Lid assembly | 8 Pneumatic device | 14 Feeding pipe |
| 3 Bag-pulling device | 9 Solid outlet | 15 Cake layer controller |
| 4 Shaft assembly | 10 Motor assembly | 16 Sight glass |
| 5 Machine chassis | 11 Basket assembly | 17 Sight glass light |
| 6 Vibration isolator | 12 Washing pipe | 18 Vent nozzle |

Parameter

Technical Parameter of PLD Pull Action Filter Centrifuge with Scraper Bottom Discharge

Item	Model			
	PLD800	PLD1000	PLD1250	PLD1600
Basket Dia. (mm)	800	1000	1250	1600
Basket Volume (L)	100	175	380	775
Max. Load (kg)	125	235	380	1050
Max. Speed (rpm)	1200/1500	1050/1300	970	850
Centrifugal Force	1008	620/950	658	647
Motor Power (kW)	7.5/11	11/15	22	37
Dimension (L×W×H) (mm)	1900×1250×2300	2100×1500×2250	2450×1800×2047	3000×2200×2700
Weight (kg)	5500	8500	13000	20000

External Dimensions and Piping of PLD Pull Action Filter Centrifuge

Model	A	A1	B	B1	C	D	E	H	H0	H1	H2	H3	D1	D2	D3	D4
PLD800	1870	1750	1250	1200	1450	900	720	2100	2365	1650	290	250	40	25	80	500
PLD1000	2230	2040	1500	1450	1760	1170	910	2300	2430	1480	370	490	50	25	100	500
PLD1250	2700	2505	1700	1700	2200	1390	1183	2450	2860	1765	420	352	65	25	125	600
PLD1600	3000	2800	2155	2100	2100	1600	1110	2720	3625	2030	487	705	80	25	150	800