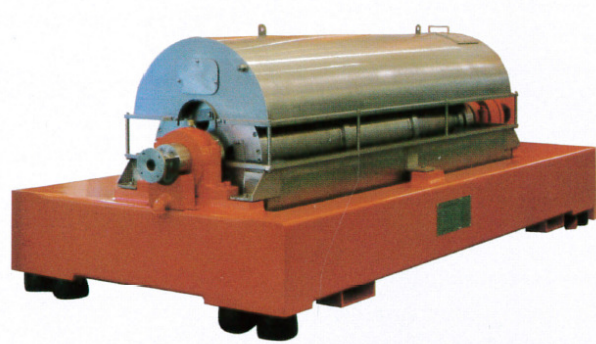


Pioneer Centrifugal Decanter

Principle



The centrifugal decanters are used to separate two or more phases having different specific gravities.

The solid and liquid separation takes place inside a conical-cylindrical revolving bowl. The heavier solid phase is deposited on the internal walls of the bowl, being constantly scraped off and expelled through the orifices located at the end of the conical section.

The liquid phase is collected from the other end of the bowl.



Pioneer Environmental Technology Pte Ltd

52 Tuas Avenue 9, Singapore 639193
 Tel: +65-62102725 Fax: +65-68616919
 HP: +65-90302293
 Email: general@pioneerenv.com.sg
 Website: www.pioneerenv.com.sg

Technical Data and External Dimensions of Centrifugal Decanter

		LW220	LW300	LW400	LW450	LW530	LW650	LW760	LW900
Max input capacity (m³/h)		3-5	3-15	5-30	5-45	10-80	20-105	30-120	40-180
Max sludge output (m³/h)		0.4	0.8	2.0	2.5	5.0	8.0	12.0	16.0
Water content in sludge (%)		65-85							
Drum speed (1000 rpm)		4.8-5.4	4.2-4.6	3.2-3.9	3.0-3.7	2.7-3.45	2.4-3.1	2.2-2.9	1.8-2.6
Drum diameter (mm)		220	300	400	450	530	650	760	900
L/D		3.0-5.0							
Separation factor (G)		2000-3500							
Power (kw)	Main motor	11	11-15	18.5-30	22-37	30-55	37-90	55-135	75-160
	Auxiliary motor	4-5.5	5.5-7.5	7.5-11	11-15	11-22	15-37	22-45	30-55
Dimensions	L	1600	2470	2950	3300	3730	4300	5000	6500
	W	1100	1230	1400	1500	1600	1900	2500	2700
	H	850	850	850	920	1100	1350	1500	1500
Weight (kg)		760	1500	2600	3200	5200	8200	12000	18000