

Equipment	Solids Content ^a For Which Effective, Weight %	Particle-Size Range,* Microns	Relative Performance ^b			
			Cake Dryness	Cake Washing	Filtrate Clarity	Crystal Breakage
Centrifuges						
Basket	10 to 50	2 to 30,000	9	6	5	6
Conical screen (no scroll)	10 to 40	60 to 30,000	7	—	5	7
Disk, manual	0.005 to 0.08	0.1 to 100	—	—	6-7	—
Disk, nozzle	0.1 to 2	0.1 to 100	3	—	6-7	—
Disk, self-cleaning	0.08 to 1	0.1 to 100	3	—	6-7	—
Oscillating	40 to 70	60 to 30,000	7-9	5	4	3
Pusher	20 to 80	40 to 70,000	9	5	4	4
Scraper	10 to 50	2 to 30,000	9	6	5	5
Screen-bowl decenter	9 to 40	30 to 30,000	6	5	4	5
Scroll decenter	7 to 50	1 to 30,000	4	3	4	—
Scroll screen	30 to 60	100 to 20,000	9	5	4	4
Gravity Filters						
Drum	0.08 to 0.8	50 to 6,000	6	—	6-7	—
Flat bed	0.05 to 5	1 to 90,000	—	7	7-8	—
Rotating screen	0.009 to 0.1	100 to 10,000	—	—	6	—
Sand	0.002 to 0.01	0.1 to 50	—	—	7-9	—
Table/pan	5 to 70	50 to 80,000	5-7	9	7	8
Traveling screen	0.009 to 0.1	100 to 10,000	—	—	6	—
Vibrating screen	0.1 to 1	30 to 100,000	5	5	6	—
Compression Filters						
Automatic filter press	0.2 to 40	1 to 200	7	7	7-8	—
Press pan	10 to 60	1 to 200	7	7	7-8	—
Screw	10 to 70	1 to 200	6	—	—	—
Pressure Filters						
Cartridge	0.002 to 0.02	0.6 to 50	5	7	7-9	8
Drum	0.7 to 8	5 to 200	5-6	7	7-8	8
Edge	0.002 to 0.1	1 to 200	5	7	7-8	8
Filter press	0.002 to 30	1 to 100	6	7	7-9	8
Leaf, horizontal	0.002 to 0.06	1 to 100	5	8	8-9	8
Leaf, vertical	0.008 to 0.4	1 to 110	5-6	6	7-8	8
Sand	0.002 to 0.02	0.2 to 60	—	—	7-9	—
Strainers	0.002 to 0.02	4 to 600	—	—	7	—
Tubular element	0.002 to 0.1	0.5 to 100	5	7	7-8	8
Vacuum Filters						
Band/pan	8 to 50	20 to 80,000	5-7	9	7	8
Disk	4 to 40	1 to 700	2-3	2	6	8
Drum	5 to 70	1 to 600	4-5	7	7-8	8
Leaf	0.07 to 2	1 to 500	4-5	9	7	8
Precoat drum	0.01 to 0.1	0.6 to 100	—	—	8	—
Suction strainers	0.02 to 0.09	50 to 200	—	—	7	—
Table/pan	8 to 50	20 to 80,000	5-7	9	7	8
Tubular element	0.08 to 2	1 to 150	2-3	—	7	—

^aApproximate values.

^bPerformance rating: 9 = highest.