

▶ Disk Vacuum Filter

Principle

The filtering plate rotates slowly in the slurry tank, making the solid particles adsorbed on the filter cloth of the circular disc by the pressure difference formed by the vacuum pump, and forming the filter cake with a certain thickness. The filtrate will be discharged from the center shaft through the filter cake and filter cloth. The filter cake will fall into the unloading tank with the pressure air generated by the scraper and the blower.



Features

Electromagnetic stepless speed regulating motor—cycloidal-pin wheel reducer—Worm gear drive, which is easy for operation, and can improve efficiency, reduce noise, and cut down energy consumption.

With the sector plate of lattice type made of engineering plastics, the operation performance and service life is highly improved.

Application

It is used for the filtering and dewatering of suspension in coal dressing plants and mineral processing plants, and is also used for the solid-liquid separation in metallurgy, chemical, oil and sewage treatment.

Technical Parameters

Model	PG18-4	PG27-6	PG39-4	PG58-6	PG78-8	PG97-10	PG116-12	
Filter Area (m ²)	18	27	39	58	78	97	116	
Quantity of Filter Disc	4	6	4	6	8	10	12	
Diameter of Filter Disc (mm)	1800	1800	2700	2700	2700	2700	2700	
Rotating Speed of Filter Disc (r/min)	1	0.135~0.607	0.135~0.607	0.135~0.607	0.15~0.67	0.15~0.67	0.148~0.66	0.148~0.66
	2	0.254~1.14	0.254~1.14	0.254~1.14	0.254~1.14	0.254~1.14	0.285~1.285	0.285~1.285
	3						0.44~1.98	0.44~1.98
Rotating Speed of Agitator (r/min)	60	60	60	60	60	60	60	
Main Drive Motor	Model	YCTL132-4B	YCTL132-4B	YCT160-4A	YCT160-4B	YCT160-4B	YCTL180-4A	YCTL180-4A
	Power (kW)	1.5	1.5	2.2	3	3	4	4
	Rotating Speed (r/min)	1230~125	1230~125	1250~125	1250~125	1250~125	1250~125	1250~125
Drive Motor of Agitator	Model	Y90L-4	Y90L-4	Y90L-4	Y100L1-4	Y100L1-4	Y112M-4	Y112M-4
	Power (kW)	1.1	1.1	1.5	2.2	2.2	4	4
	Rotating Speed (r/min)	1440	1440	1440	1440	1440	1440	1440
Vacuum Pump	Model	SZ-4	2YK-27	SZ-4	SZ-4	SZ-4	2YK-110	2YK-110
	Quantity	1	1	1	2	2	1	1
Blower	Model	SZ-2	SZ-2	SZ-2	SZ-3	SZ-3	SZ-3	SZ-3
	Quantity	1	1	1	1	1	1	1
Weight (kg)	3500	4500	6000	8000	9000	10000	12000	
Overall Dimensions: (L×W×H) (mm)	2820×2355×2295	3820×2355×2295	3015×3275×3275	3930×3355×3275	4730×3355×3275	5530×3355×3275	6330×3355×3275	