

BF Flotation Machine



[Introduction]: A mechanical agitation type floatation cell unit with air suction and combination of slurry suction/no slurry suction

[Capacity]: 0.15~ 24m³/min

[Improvement]: The BF flotation cell is divided into type I and type II. Type I is improved as suction tank referring to model SF; type II is improved as direct-flow tank referring to model JJF. Both are briefly called model BF.

Description:

When the impeller is revolving, the pulp in the impeller cavity can be swing out at the centrifugal force by the impeller blades and be negative pressure zone in the impeller cavity. Meanwhile, the pulp in the top of the cover can be inhaled

to the impeller cavity through the circulatory hoses on the cover and then the pulp can be circulating upward. The pulp in the bottom of the impeller can be swing out and supplement to the center so it forms the circulating downward. Air is inhaled from the inhalation pipe and center pipe to impeller cavity and mix with the pulp and then arise a lot of small bubbles. The bubbles go through the cover and evenly disperse in the cells and form the mineral bubbles. Mineral bubbles float to the forth section and be scraped out to be forth product.

BF series flotation machine has I type and II type. I type is referred and designed by SF flotation machine and II type is referred and designed by JJF flotation machine. I type is sucked cell and II type is direct cell and normally called as BF series. The features and performances please check the SF series and JJF series flotation machines.

FEATURE:

- 1: Large air suction volume, low energy consumption;
- 2: Each tank with air suction, slurry suction, and floatation can form its flotation circuit without any auxiliary equipment;
- 3: The configuration is easy to change the process;
- 4: The reasonable slurry circulation minimizes coarse sand sediments;
- 5: Auto-control device of slurry volume, convenient adjustment.

Main Technical Parameters

Model	Effective Volume (m ³)	L*W*H (mm)	Diameter of impeller (mm)	Impeller speed (m/s)	Air inhalation (m ³ /m ² .min)	Power (Kw)	Capacity (m ³ /min)
BF-0.15	0.15	550×550×600	200	6	0.9-1.05	2.2	0.06-0.16
BF-0.25	0.25	650×600×700	250			1.5	0.12-0.28
BF-0.37	0.37	740×740×750	286	7.2			0.2-0.4
BF-0.65	0.65	850×950×900	300	7.35	0.9-1.10	3	0.3-0.7
BF-1.2	1.2	1050×1150×1100	450	7.02		5.5 4	0.6-1.2
BF-2.0	2	1400×1450×1120	500	7.5		7.5	1.0-2.0
BF-2.8	2.8	1650×1650×1150	550	8.06		11	1.4-3.0
BF-4.0	4	1900×2000×1200	650	8		15	2.4-4.0
BF-6.0	6	2200×2350×1300	700	7.5		18.5	3.0-6.0

BF-8.0	8	2250×2850×1400	760			22	4.0-8.0
BF-10	10	2250×2850×1700					7.52
BF-16	16	2850×3800×1700	850			37 45	8.0-16
BF-20	20	2850×3800×2000					8.7
BF-24	24	3150×4150×2000	920			45	12.0-24