

FZ Series – Fluid-bed



It is multi-functional FBD which has functions of top spray, bottom spray and side spray. It is widely used in pharmaceutical, chemical and foods industries for mixing, drying, granulating, coating and pelletizing.

Fluid-bed granulator is to putting the material powder into a container, suspending the powder with air to make it fluidized, then atomizing and spraying the binder through spray gun to agglomerate with powder into particles.

After granulation, the material is agglomerated into particles, which has the following features:

- The internal porosity of the particles is improved, easy to disintegrate and dissolve.
- The bulk density of material is reduced, which is better for tablet pressing.
- Uniform particle size, can reduce the weight difference and improve the surface finish of pressed tablet.
- No more dust generation, more in line with the sanitary requirements of pharmaceutical factory.
- The fluidity is improved for easy transportation.

Features

- Follow the regulations of c Gmp, PIC/S GMP,
- FDA Movable design
- Filter cartridge
- PID Precision control
- High processing efficiency

Parameters

Name	Unit	Parameter			
		FZ10	FZ20	FZ30	FZ60
Dia. of granulating container	mm	800	1000	1000	1200
Volume of granulating container	L	29	59	86	166
Granulating capacity	kg/batch	4~10	7~20	10~30	20~60
Yield	%	98	98	98	98
Inlet air flow	m ³ /h	1000	2000	2000	3500
Fan power	kw	11	11	11	18.5
Steam pressure	MPa	0.4~0.6	0.4~0.6	0.4~0.6	0.4~0.6
Steam consumption	kg/h	62	123	123	215
Chilly water temp. (Option)	°C	6~8	6~8	6~8	6~8
Chilly water temp. (Option)	t/h	4.5	9.3	9.3	15.8
Compressed air pressure	MPa	0.4~0.7	0.4~0.7	0.4~0.7	0.4~0.7
Compressed air consumption	m ³ /min	1.7	1.7	1.7	1.7
Weight	kg	1400	1500	1500	1900

Name	Unit	Parameter			
		FZ120	FZ200	FZ300	FZ500
Dia. of granulating container	mm	1400	1600	1800	2000
Volume of granulating container	L	370	634	870	1504
Granulating capacity	kg	40~120	70~200	100~300	170~500
Yield	%	98	98	98	98
Inlet air flow	m ³ /h	5500	7000	8500	10000
Fan power	kw	30	30	45	55
Steam pressure	MPa	0.4~0.6	0.4~0.6	0.4~0.6	0.4~0.6
Steam consumption	kg/h	339	429	521	600
Chilly water temp. (Option)	°C	6~8	6~8	6~8	6~8
Chilly water temp. (Option)	t/h	24.1	30.8	37.2	43.7
Compressed air pressure	MPa	0.4~0.7	0.4~0.7	0.4~0.7	0.4~0.7
Compressed air consumption	m ³ /min	1.7	1.8	1.8	2.4
Weight	kg	2400	2800	3200	3600