

ZLG Series Vibrating-Fluidized Bed



PRINCIPLE

Raw material is feed into the machine from equipment inlet and move forward continuously along with the horizontal direction under vibratory power. The hot air passes through fluidized-bed and exchange with raw materials'damp, then the wet air is dusted by cyclone separator and exhausted from air outlet, the dried material is discharged through finished material outlet.

FEATURES

- ⊙ Raw material is heated uniformly, heating exchange is sufficient, drying capacity is high.
- ⊙ Compared with ordinary drier, it can save energy up to 30%.
- ⊙ The vibration is driven by vibratory electric device, it has those benefits: stable operation, convenient maintenance, low noise and durable.
- ⊙ Fluidized state is stable, no dirty corner and broken out situation.
- ⊙ Easy regulation and wide suitability. Inside the machine, raw material's thickness, moving speed and amplitude change can be adjusted.
- ⊙ Small damage to raw material's surface, this equipment can be applied for drying easy broken materials; raw material's anomaly shape can not affect drying effect,operation environment is clean.
- ⊙ Raw material and air Cross Pollution are effectually prevented by using fully sealed structure. Drying environment is very sanitary.

TECHNICAL PARAMETERS

Model	Area of fluidized-bed (m ²)	Temperature of air inlet (°C)	Temperature of air outlet (°C)	Capacity to vappor moisture (kg/h)	Vibration motor	
					Model	Power (Kw)
ZLG3 × 0.30	0.9	70-140	40-70	20~35	ZDS31-6	0.8 x 2
ZLG4.5 × 0.30	1.35	70-140	40-70	35~50	ZDS31-6	0.8 x 2
ZLG4.5 × 0.45	2.025	70-140	40-70	50~70	ZDS32-6	1.1 x 2
ZLG4.5 × 0.60	2.7	70-140	40-70	70~90	ZDS32-6	1.1 x 2
ZLG6 × 0.45	2.7	70-140	40-70	80~100	ZDS41-6	1.5 x 2
ZLG6 × 0.60	3.6	70-140	40-70	100~130	ZDS41-6	1.5 x 2
ZLG6 × 0.75	4.5	70-140	40-70	120~140	ZDS42-6	2.2 x 2
ZLG6 × 0.9	5.4	70-140	40-70	140~170	ZDS42-6	2.2 x 2
ZLG7.5 × 0.60	4.5	70-140	40-70	130~150	ZDS42-6	2.2 x 2
ZLG7.5 × 0.75	5.625	70-140	40-70	150~180	ZDS51-6	3.0 x 2
ZLG7.5 × 0.90	6.75	70-140	40-70	160~210	ZDS51-6	3.0 x 2
ZLG7.5 × 1.2	9	70-140	40-70	200~260	ZDS51-6	3.0 x 2

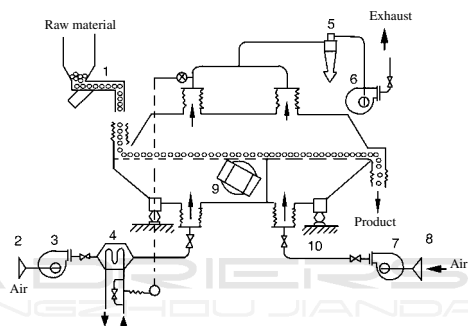
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APPLICATIONS

- ① Pharmacy and chemical industries: all kinds of granular tablet and granule, boric acid, borax, hydroxybenzene, malic acid, malay acid.
- ② Foodstuff and construction industries: lees, monosodium glutamate, edible sugar, edible salt, mine residue, bean, seeds.
- ③ It can also be applied for raising material damp or cooling raw material.

TECHNOLOGICAL PRODUCTS

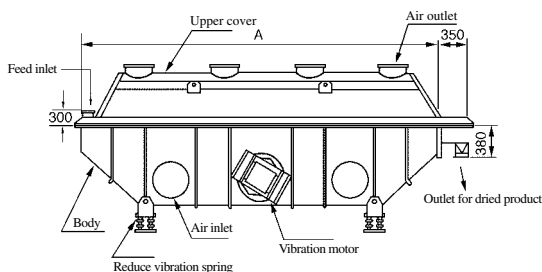
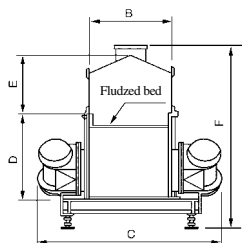
Fig of complete system for vibration bed drier



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|-----------------------|----------------------|
| 1. Air filter | 6. Exhaust fan |
| 2. Fan for air fed | 7. Blast fan |
| 3. Heat exchanger | 8. Filter |
| 4. Cyclone separator | 9. Vibration motor |
| 5. Fan of air exhaust | 10. Vibration spring |

SKETCH OF STRUCTURE

Model ZLG series vibration fluidized bed drier (cooler)



Model	3x0.30	4.5x0.3	4.5x0.45	4.5x0.60	6x0.45	6x0.60	6x0.75	6x0.9	7.5x0.60	7.5x0.75	7.5x0.90	7.5x1.2
A	3000	4500	4500	4500	6000	6000	6000	6000	7500	7500	7500	7500
B	300	300	450	600	450	600	750	900	600	750	900	1200
C	1350	1350	1550	1650	1650	1700	1850	2000	1850	2000	2100	2500
D	900	900	950	950	950	1000	1000	1000	1000	1000	1000	1150
E	430	430	430	430	430	500	600	600	600	600	600	800
F	1650	1650	1700	1700	1700	1700	1850	1850	1850	1850	1850	2050
Weight (kg)	1250	1560	1670	1910	2100	2410	2340	3160	3200	3600	4140	5190