NLG Series Inner Heating Fluid Bed Dryer

Inner heated fluid bed dryer is developed based on normal fluid bed dryer and indirect heated dryer. Immerse the heat exchanger in the material that is fluidized and dried. The heat required for dewatering is provided by tube heat exchanger and fluidizing hot air. The air velocity required for to dry the material is less. The main heat is provided by the heat exchanger inside, the hot air is mainly for fluidization of material, so the hot air velocity required is much less compare to normal fluid bed dryer, power consumption and heat lost with the tail gas are sharply reduced.

Applications

Applicable materials: Hydrogenated amines, ammonium nitrate, calcium chloride, calcium format, calcium gluconate, calcium sulfate, cellulose derivatives, ammonium phosphate, calcium phosphate, fertilizer granule, Hydroquinone, ferric sulfate, ethylene, propylene, polystyrene ethylene, potassium carbonate, potassium chloride, potassium nitrate, potassium phosphate, sodium potassium tartrate, sodium chloride, PVC sodium bicarbonate, sodium bromide, sodium formate, sodium perborate, sodium sulfate, tartaric acid, terephthalic acid, urea, vitamins. Barium sulfate, magnesium sulfate, zinc sulfate, aluminum sulfate, nickel sulfate, ammonium sulfate, salt, sodium fluoride, titanium dioxide, potassium bromide, ammonium bromide, sodium carbonate, basic nickel carbonate, basic zinc carbonate, basic chromium carbonate, calcium carbonate, sodium met silicate, sodium dichromate, potassium acetate, potassium sodium benzene, formaldehyde acryloyl monomer, polyacrylamide amine, 1010, polypropylene resin, polyester chips, polytetrafluoroethylene, phenolic resin, soil neomycin, tetracycline, anhydride cool factors, hemic acid, hemic acid sodium, lysine.

Features

- High energy saving, low running cost
- The amount of drying air is less; the power consumption is low.
- The drying capacity is high; the volume of equipment is small; the area occupied is less.
- The operation flexibility is high; the operation of system is steady.
- To avoid leakage of material, and it's good for discharging material of big particles
- By adopting special air distributing borad.
- To meet exhaust requirements of environment by adopting two grades of dust filter.

Parameter

Item / spec	fluidized area	power	steam pressure	steam consumption	Tem. of inlet air	overall diemensions	occupying area
NLG2.0	2	50	0.2-1.0	400-1000	100-300	3000x1300x4500	45
NLG2.5	2.5	65	0.2-1.0	600-1200	100-300	3500x1300x4500	55
NLG3.0	3	85	0.2-1.0	1400-2200	100-300	3600x1400x4500	65
NLG3.5	3.5	95	0.2-1.0	1000-2000	100-300	4000x1500x4500	80
NLG4.0	4	110	0.2-1.0	1200-2000	100-300	4600x1600x5000	90
NLG5.5	5.5	130	0.2-1.0	1400-2200	100-300	5000x1650x5000	100
NLG6.0	6	140	0.2-1.0	1600-2800	100-300	6000x1700x5000	110
NLG7.0	7	165	0.2-1.0	1800-3200	100-300	6600x1750x5000	120
NLG8.0	8	170	0.2-1.0	2000-2800	100-300	7500x1800x5000	130
NLG10	10	210	0.2-1.0	2400-3600	100-300	10000x1850x6000	140
NLG15	15	300	0.2-1.0	3200-4400	100-300	15000x1900x6500	200
NLG20	20	320	0.2-1.0	4000-6000	100-300	20000x2000x7000	240