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GJ Series Air Current Dryers

The Required Moisture Percentage For Pellet Production

Before pellet fuel can be produced, the raw material used must have a suitable and consistent moisture content. On average to produce quality pellets, with a good mechanical durability, requires a raw material moisture content of around 15%. To put this into perspective virgin wood residues usually contain around 60-70% moisture. Therefore the biomass raw material may require drying, before pellet compression in the pellet mill can take place.

Particle Size Reduction Necessary for Biomass Drying Solutions

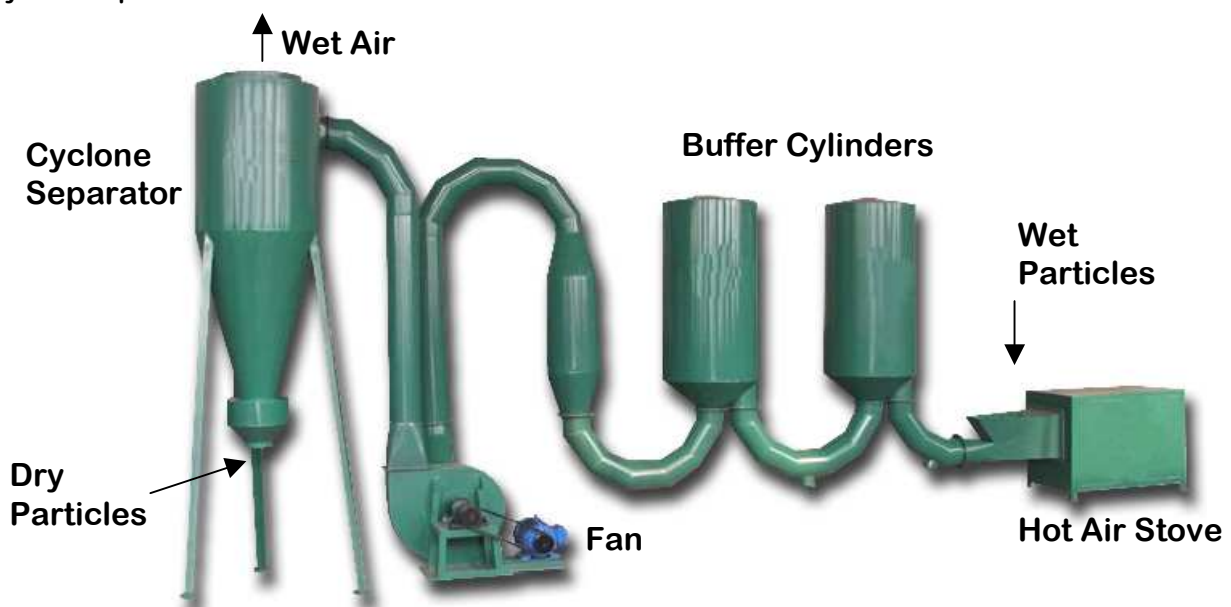
Before the biomass can be dried down to the necessary 15% for pellet production, it must also be reduced to a small particle size if required. A suitable particle size of 5mm or below is required to achieve an efficient and accelerated drying process ready for pellet production.

Hot Air Current Dryers

On a small scale, the simplest and most cost effective way to dry biomass particles is with hot air current dryers, which are also commonly referred to as pipe dryers. At the start of the dryer is the hot air stove. The stove can use waste wood, logs, briquettes or pellets to generate the hot air required for drying. A fan is used to create the required suction through the pipe network. The raw material particles are entered at the start of the pipe work system, and the fan pulls the hot air and particles, which are suspended in the hot air stream, from the stove through the pipe network to the cyclone separator.

GJ Series Hot Air Current Dryer Features

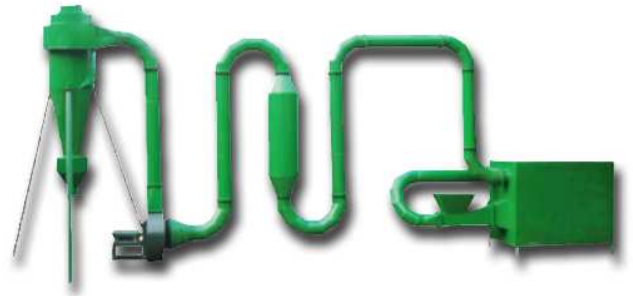
The GJ series come in 4 models, with various features and productivities. Each model features a hot air stove, feeding hopper, buffer cylinders, fan and cyclone separator. As the raw material particles are suspended in the hot air stream, the heat transfer between the hot air and particle is rapid. This ensures efficient moisture removal, even with a short transfer time of 3-5 seconds. Once the moist hot air and particles reach the cyclone separator, the particles leave through the base of the cyclone separator, and moist hot air leaves through the top of the cyclone. The buffer cylinders positioned in the pipe network are to increase particle resonance time in the hot air stream. The biomass particles are now ready for the pellet mill.



GJ 4 / 6

The GJ 4 and GJ 6 are the smallest air current dryers. Both feature a single hot air stove, and are suitable to dry biomass particles with a moisture content below 30%, with a 8-12% reduction in moisture per pass.

Model Number	GJ 4	GJ 6
Power (Kw)	4.75	6.25
Productivity (Kg/h)	180-300	200-400
Hot Air Temp (°C)	180-250	180-250
Fuel Usage (Kg)	30	40
Particle Size (mm)	5	5
Dimensions (m)	9x1.3x2.5	12x1.3x2.5
Gross Weight (Kg)	950	1100
FOB Price USD	3,529	4,235



GJ 8

The GJ 8 features two hot air stoves and a longer pipe network with buffer cylinders. The GJ 8 can achieve a 12-30% reduction in moisture per pass.

Model Number	GJ 8
Power (Kw)	6.25
Productivity (Kg/h)	200-400
Hot Air Temp (°C)	180-250
Fuel Usage (Kg)	50
Particle Size (mm)	5
Dimensions (m)	15x1.3x1.7
Gross Weight (Kg)	1200
FOB Price USD	8,412



GJ 9

The GJ 9 features a single hot air stove, however also features a small rotary drum.

The GJ 9 can therefore dry biomass with a moisture percentage up to 50% per pass.



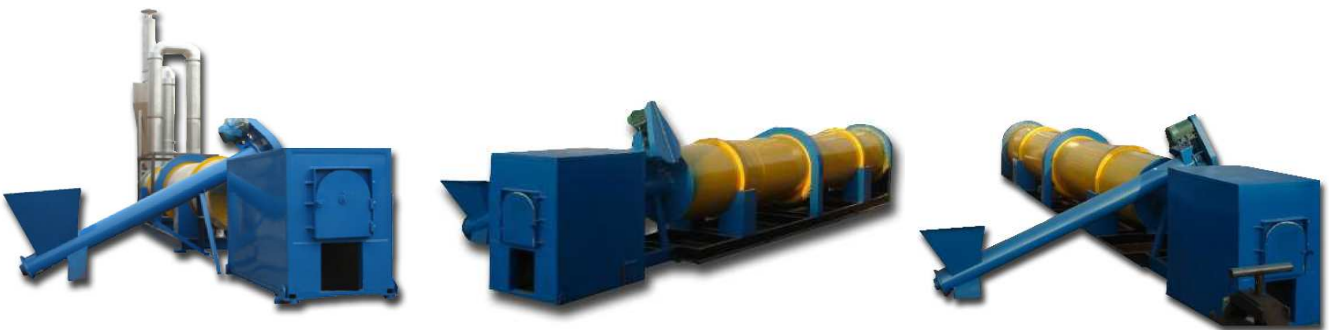
Model Number	GJ 9
Power (Kw)	6.25
Productivity (Kg/h)	250-400
Hot Air Temp (°C)	180-250
Fuel Usage (Kg)	50
Particle Size (mm)	5
Dimensions (m)	15x1.3x1.7
Gross Weight (Kg)	1200
FOB Price USD	9,894

GJ 200 / 250

The GJ 200 and 250 are large automated rotary dryers. The speed of the drying process can be adjusted depending on raw material moisture content. A moisture meter is also included.

Both the GJ 200 and 250 come complete with: Screw Conveyer, Heat Stove, Rotary Drum, 10m Pipe Work, Cyclone Separator, Fan, Air Lock and Electrical Control Cabinet.

Model Number	GJ 200	GJ 250
Power (Kw)	8.25	16.75
Productivity (Kg/h)	200-500	400-800
Hot Air Temp (°C)	180-250	180-250
Fuel Usage (Kg)	50	70
Particle Size (mm)	5	5
FOB Price USD	18,718	26,953



FOB Price USD

The FOB price does not include shipping

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