

CHANGZHOU XINGGAN DRYING EQUIPMENT CO.,LTD

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DW Series Monolayer、Multilayer Belt Dryer



Description

DW monolayer belt dryer is a kind of continuous through-flow drying equipment, for drying of sheet, strip and granular materials in good permeability, especially suitable for those materials with high moisture content but allowing no high drying temperature, such as dehydrated vegetables and Chinese medicine decoction pieces. This series of dryer has such advantages: fast drying speed, high evaporation intensity and good product quality. It can also dry paste cake-shape materials after they are processed into granules or rod.

Application

Dehydrated vegetables, granule feedstuff, monosodium glutamate, coconut, organic pigments, synthetic rubber, synthetic fiber, medicines, crude drugs, small wooden products, plastic products, electronic devices without aging and curing.

Working Principle

The materials are put on the belt evenly by the feeder. Belt generally adopts 12-60 mesh stainless steel mesh, dragged by gear in the dryer. Dryer consists of several units, each unit with independent hot air circulation; some tail gas is discharged by specialized wet exhaust fan; exhaust is controlled by valve; hot air goes through screen covered with materials from bottom to top or from top to bottom, completes the process of heat and mass transfer and takes away moisture from materials. Belt moves slowly, with running speed freely adjusted according to the material temperature. After being dried, the finished products continuously fall into collector. Upper and lower circulation unit can be flexibly equipped according to user's needs, so is the number of units.

Features

- 1、 You can adjust the amount of air, heating temperature, residence time and feedingspeed to achieve the best drying results.
- 2、 Configuration of equipment is flexible; you can use network flushing system and material cooling system.
- 3、 Most air is cyclic utilization, highly saving energy.
- 4、 Unique air distribution devices make a more uniform hot air distribution, to ensure the consistency of product quality.
- 5、 Heating source can be steam, conduction oil, electricity or supported coal-fired (oil)hot blast heater.

Model Item	DW-1.2-8	DW-1.2-10	DW-1.6-8	DW-1.6-10	DW-2-8	DW-2-10	DW-2-20
Drying Unit(Qty)	4	5	4	5	4	5	10
Mesh Belt(m)	1.2		1.6		2		
Drying Length(m)	8	10	8	10	8	10	20
Material Thickness(mm)	10-80						
Drying Temperature (°C)	50-140						
Steam Pressure(MPa)	0.2-0.8						
Steam Consumption (kg/h)	120-300	150-375	150-400	180-500	180-500	225-600	450-1200
Drying Time (h)	0.2-1.2	1.25-1.5	0.2-1.2	0.25-1.5	0.2-1.2	0.25-1.5	0.5-3
Evaporation Capacity(kg/H ₂ O/h)	60-160	80-200	85-220	100-260	100-260	120-300	240-600
Total Power (kw)	11.4	13.6	14.6	18.7	19.7	24.5	51
Overall Dimensions	9.56x1.49x2.3	11.56x1.49x2.3	9.56x1.9x2.4	11.56x1.9x2.4	9.56x2.32x2.5	11.56x2.32x2.5	21.56x2.32x2.5
Total Weight (kg)	4500	5600	5300	6400	6200	7500	14000

Multilayer Belt Dryer

Model Item	DDW3-1.2-8	DDW3-1.2-10	DDW3-1.6-8	DDW3-1.6-10	DDW3-2-8	DDW3-2-10
Mesh Belt(m)	1.2		1.6		2	
Drying Length(m)	8	10	8	10	8	10
Material Thickness(mm)	10-50					
Drying Temperature (°C)	50-120					
Steam Pressure(MPa)	0.2-0.5					
Water Evaporation(kg/h)	80-220	100-320	90-300	120-380	130-400	180-500
Steam Consumption (kg/h)	≤2kg steam evaporates 1kg water (for vegetables and Chinese herbal)					
Total Power (kw)	21.2	21.2	21.2	22.7	22.7	22.7
Overall Dimensions	11×1.6×2	12.5×1.6×2	11×2.0×2	12.5×2.0×2	11×2.4×2	12.5×2.4×2
Total Weight (kg)	3000	4000	4400	4550	4300	6000

More Photos



