

Product Name :
Food Drying Tower System

Product Code :
MACHEQ-F-M8801009



Description :

Food Drying Tower System

Technical Specification :

Include a spray drying tower, fluidized bed drying system, vibration sieve, a blower, an air filter, an air heater, atomizer, a cyclone, exhaust fan, a concentrated milk tank, high pressure pump or the like, Milk spray drying principle is concentrated milk Borrow mechanical force, i.e., a method of pressure, through the sprayer milk dispersed mist of the emulsion droplets (having a diameter of 10-15um), greatly increasing its surface area, and hot air simultaneously fed under the droplet and the hot air contact, the steam is hot air away from the exhaust outlet of the drying chamber discharge the entire drying process takes only 10 ~ 30s, it is especially suitable for drying heat sensitive materials, is still the protein denaturation rarely, whey protein maintain a good solubility, the activity of the enzyme are not lost. Has high solubility and reconstituted to maintain its original nutrients and color, smell and taste.

Water evaporation $\frac{1}{4}$ kg/h $\frac{1}{4}$ %	70	100	200	250	350
Feed moisture content $\frac{1}{4}$ % $\frac{1}{4}$ %	40-60				
Material handling capacity $\frac{1}{4}$ kg/h $\frac{1}{4}$ %	119-182	170-260	340-520	425-650	595-910
Feed temperature ($\hat{a}_{,,f}$)	55-68				
steam pressure (Mpa)	0.7-0.9				
Into the air temperature ($\hat{a}_{,,f}$)	160-170				
Tower negative pressure (Pa)	100-200				
Exhaust air temperature ($\hat{a}_{,,f}$)	75-85				
Finished product temperature	2-5				

content						
Drying tower effective volume (m ³)		13.3	19.2	38.1	47.8	67.3
Steam consumption (kg/h)		158	230	460	580	820
Motor Power (kw)		34.4	36.2	55.6	67.1	83.8
The required plant size	long	11	12	13	13.5	14
	width	7	7.5	8	9	9.5
	high	14	15.5	18	19.3	21.5



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