

**Product Name :**  
Food Drying Tower System

**Product Code :**  
EQUP-MC20077-0009



### 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?kg/h?                 | 70      | 100     | 200     | 250     | 350     |
| Feed moisture content???                | 40-60   |         |         |         |         |
| Material handling capacity?kg/h?        | 119-182 | 170-260 | 340-520 | 425-650 | 595-910 |
| Feed temperature (?)                    | 55-68   |         |         |         |         |
| steam pressure (Mpa)                    | 0.7-0.9 |         |         |         |         |
| Into the air temperature (?)            | 160-170 |         |         |         |         |
| Tower negative pressure (Pa)            | 100-200 |         |         |         |         |
| Exhaust air temperature (?)             | 75-85   |         |         |         |         |
| Finished product temperature content??? | 2-5     |         |         |         |         |

|   |       |      |      |      |      |      |
|---|-------|------|------|------|------|------|
| Drying tower effective volume (m <sup>3</sup> ) |       | 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 |



## Equipments Machines Manufacturers