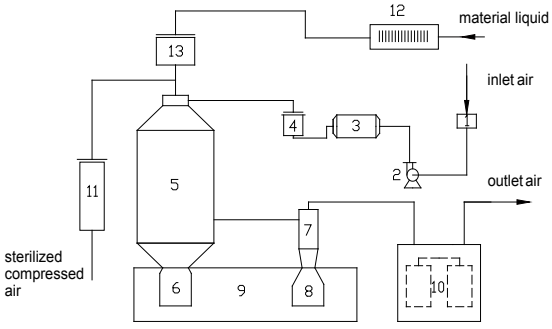
WPG Asepsis Spray Dryer



Ⅰ. Description

1. Air filter
2. Blast fan
3. Heater
4. HEPA filter
5. Drying tower
6. Product collecting bucket
7. Cyclone
8. Product collection bucket
9. Clean room
10. Cloth bag filter
11. HEPA filter
12. Sterilizer
13. Feeding tank

Asepsis spray drying device is the main equipment applied for powder for injection production in pharmaceutical industry. Most antibiotic drugs need to be produced by the WPG asepsis spray dryer, such as Streptomycin sulfate, Gentamicin sulfate, and Kanamycin sulfate etc.

In the asepsis drying system, all the air and raw material must be sterilized first. The products must be collected in sterile room, so the liquid materials can be transported to atomizer only after filtration and sterilization. The compressed air also needs to be purified before use (provided by the user).

The drying air is purified after pre, post and HEPA filter, and then sent to spray drying room after heating. Finished product and air will be separated by cyclone separator. The dry products are collected and packed at the sterile working station and tail air will be exhausted after bag filter.

Ⅱ. Feature

The equipment adopts dual-flow atomizer, with structure is simple, good contacts in area, uniform atomizing, which could meet the requirement of sterile spray.

A tower sweeping device is installed in the tower for easy cleaning of the powder stick onto the wall.

Pre, post and HEPA filters are used for hot air purification to get high quality purified air and achieve GMP requirements.

Ⅲ. Note for Inquiry

1. Liquid material name and physical properties: solid contents (or moisture contents), viscosity, surface tension, PH value, etc.

2. Product characteristics: final moisture content required, the range of particle size, and heat sensitive temperature etc.

3. Working capacity (kg/h or ton/h). If the capacity is based on per day, per month or per, please also indicate the working hours.

4. Heat source: it could be the pressure of steam, electricity, coal, oil, natural gas, LPG and other combustible materials.

5. Fines collection type: depending on the product characters and environment protection requirements, we have following options, cyclone, bag filter and their combinations.

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