



WUXI ZHANGHUA
PHARMACEUTICAL EQUIPMENT CO.,LTD
Since 1976

WUXI ZHANGHUA PHARMACEUTICAL EQUIPMENT



Agitated Nutsche Filter Dryer (fast-opening)

www.filter-dryer.com



Wuxi Zhanghua
PHARMACEUTICAL
 Equipment

Wuxi Zhanghua was established in 1976, having an area of 21000 M² for 11 workshops and 5000 M² for office buildings.



Since the establishment for nearly 50 years, we have been committed to the technological development of reaction, crystallization, filtration and drying equipment.

For inflammable, explosive, toxic and corrosive products in pharmaceutical, fine chemical, pesticide and new energy industries, we customize the technology and equipment solution and provide high airtight, high vacuum, fully automatic equipment for clients, to ensure safety, energy conservation and environmental protection of the production process.

We are uniquely capable to provide solutions to meet the complex requirements of the API and fine chemicals markets. Our equipment complies with CGMP, FDA requirements and has obtained ASME, NB, CE, PED, ATEX, MOM certificates.



Airtated Nutsche Filter Dryer



Co-operation with EU company



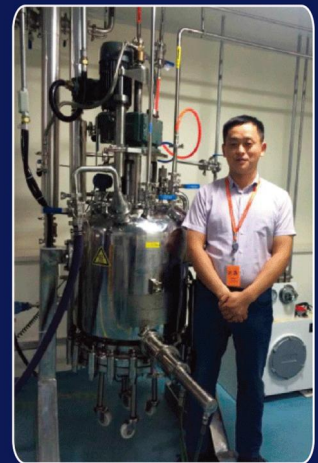
ANFD Installation in clean room



Double Conic Rotary Dryer



Industrial ANFD



Maintenance for the user





Agitated Nutsche Filter Dryer

The Agitated Nutsche Filter Dryer can be made from SS304, SS316L, Ti, Hastelloy, PTFE lined or other materials. It can replace the filtering and drying equipments at the same time (such as: vacuum filter, pressure filter, Double-cone Drying machine and drying box...etc.). It completes the whole process of filtering, washing, drying, solid discharging in the same equipment. It is widely applied in the industries, such as pharmaceutical, chemical engineering, agrochemical, food, etc. It is the most ideal equipment for filtering and drying. What's more, it can realize the continuous operation without air, and even more suitable for producing sterile and poisonous products.

Filtering: the separation of filter cake and mother liquid. The thickness of filter cake can reach 500 mm.

Washing stage: further purification of filter cake, rinse and dehydration of mother liquid remained. Mix the lotion and the filter cake via up and down of agitator by layers to make the filter cake slurry finally, then the filter cake can get the full wash.

Drying stage: Dehydrating and drying the filter cake. Agitator will scrape filter cake loose by layers while the sidewall; the bottom of filter plate and agitator will heat the filter cake at the same time. Moreover, The vacuum inside the equipment will accelerate the evaporating speed; the entered hot nitrogen will take away the damp and accelerate the speed of desiccation.

Bottom plate structure:

Main material: SUS304L or 316L

Material of filter plate: sintered plate Wei Qisi network or filter cloth (from 5 um to 50 um according to the requirements of clients)

Dead angle of filter cloth: 25mm single side

Flatness degree of single plate: ~1mm/m

A: The fixed bottom plate is welded on the vessel and has heating system for heating and drying.

B: The removable bottom plate: clipping the two pieces of flanges with clamps in order to seal completely. The bottom plate can be removed and landed by hydraulic cylinder. Special C-shaped bolts or quick opening clamp can be used to lock the bottom plate and barrel tightly. There are wheels under the bottom plate to help to wash filtering board. The bottom plate has the heating system with two types: flowing heating and pipe heating. The filter plate is fixed with stud bolts under the bottom plate, which makes filter plate balanced. There is no stud bolt in the part of connecting with product.

Discharging section: The dried materials are automatically discharged from the side discharging vent under the reverse rotation by the S type mixing blade and enter into packaging directly.



Product Specification

Product specification	CapacityL	Filter areaL	Travel route of the mix blend (mm)	Electrical motor power (Kw)
800	0.6	0.5	250	4
1000	1.2	0.8	300	5.5
1200	1.5	1	300	5.5
1400	2.2	1.5	400	7.5
1600	3	2	400	7.5
1800	3.5	2.5	400	11
2000	4	3	400	11
2300	5.7	4	400	15
2400	6	4.5	450	15
2800	9.5	6	450	18.5
3000	10.2	7	500	22
3200	12	8	550	30
3600	18	10	550	45
4000	22	13	550	45
4200	25	14	550	55
4600	30	16	550	75



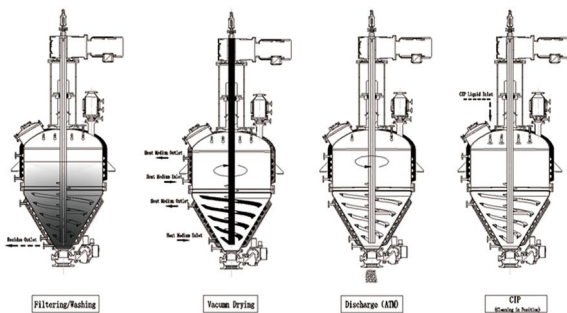
50 years Committed to R&D and manufacturing of reactor, crystallization, filtration, and drying equipment

Conical Agitated Nutsche Filter Dryer

The conical Agitator Nutsche Filter Dryer (as known as filtering, washing and drying equipment) is a stainless steel vertical container, mainly composed of tank body, mixing device, shaft end sealing device, lifting mechanism, hydraulic lifting device, heating device, transmission mechanism, discharge device, sampling device, washing device, electric control system, and others. Realizing the integration of machinery.

Features and Advantages

1. The spiral belt type stirring mechanism rotates forward to lift the material for turnover and comprehensive heat exchange. During the process, the drying process of the material can be monitored through a vacuum online sampler;
2. The entire equipment is designed as a suspension type, completely eliminating the possibility of material contamination.
3. High cleanliness level spindle mechanical seal ensures its sealing performance.
4. Large filtration area.
5. The discharge valve is an inflatable sealed hemispherical valve (optional), fast discharge, small blind angle, no residue, good tightness and long service life.



Multifunctional Drying Unit With Blades

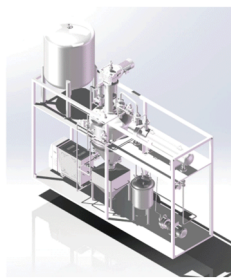
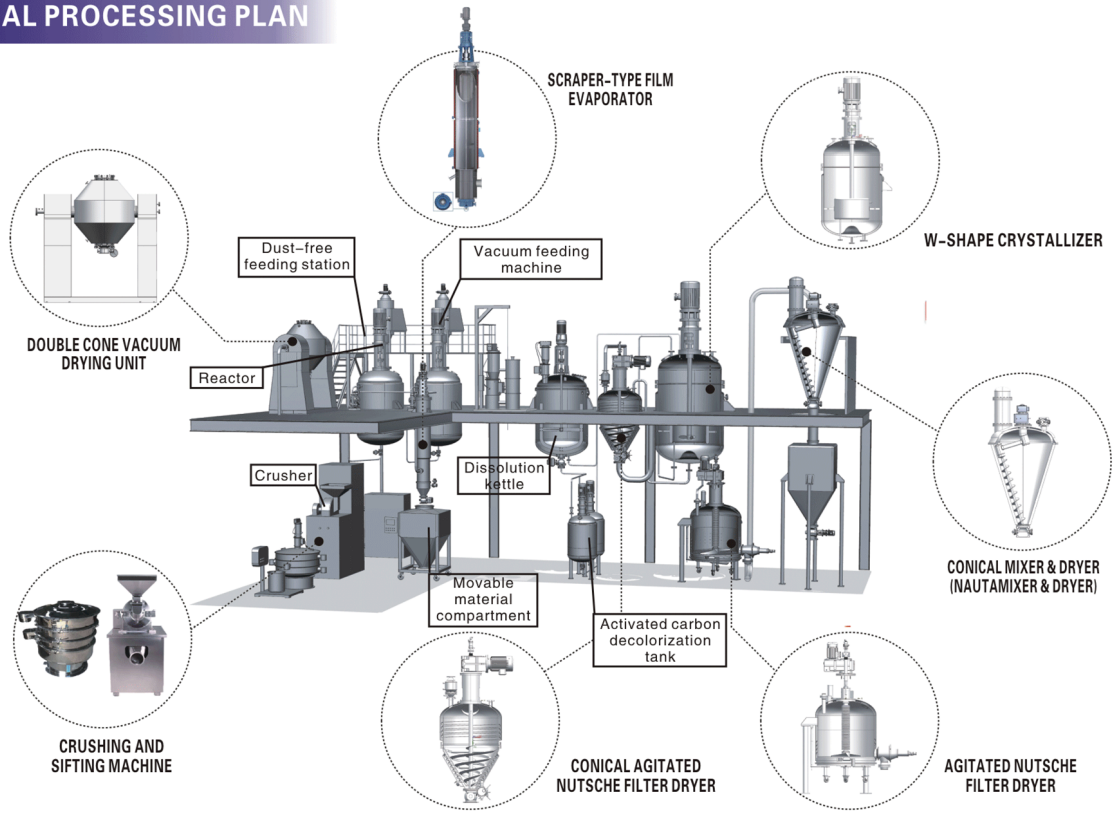
This unit is improved from basis of double-cone vacuum rotary dryer and added two blades at the diagonal position of cones which can help solve the pilling problem. It can be made from SS304, SS316L, Ti, Hastelloy, PTFE lined or other materials. It is a multifunctional unit with reaction, crystallization, condensing, filtering, cleaning, drying, crashing, etc. The biggest advantages of this unit are its multifunction, small covering area, small investment, simple operation, high efficiency, low labor strength, high safety, long service life, convenient installation, etc. The unit is suitable for pharmaceutical and chemical products with high additional valuable materials, or poisonous, flammable, explosive, little batch. It is even applicable for the material that must meet the GMP request.



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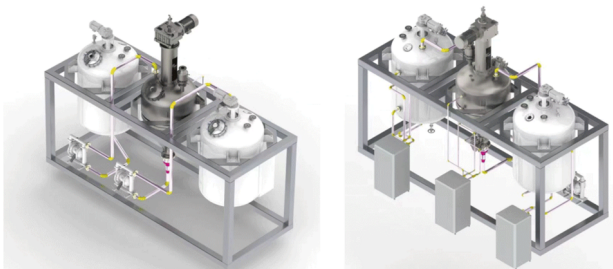
GENERAL PROCESSING PLAN



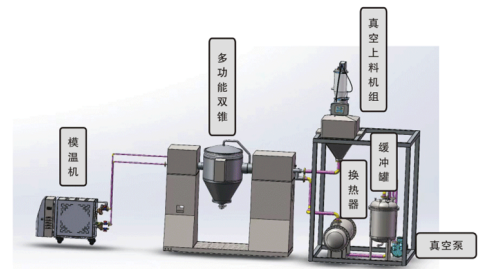
Skid Mounted Cylinder-cone washing, filtering and drying (three-in-one) system



Skid-Mounted Conical Mixer & Dryer



Skid Mounted Reaction decolorization and crystallization system

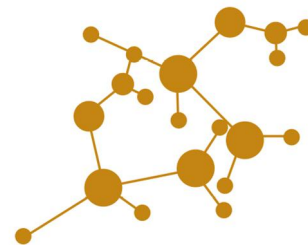


Skid Mounted Multifunctional double cone drying system

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Other Products



Pilot Agitated Nutsche Filter Dryer

Inflatable Sealing Hemispherical Valve

Nutsche Filter

U-shape Airflow Dryer

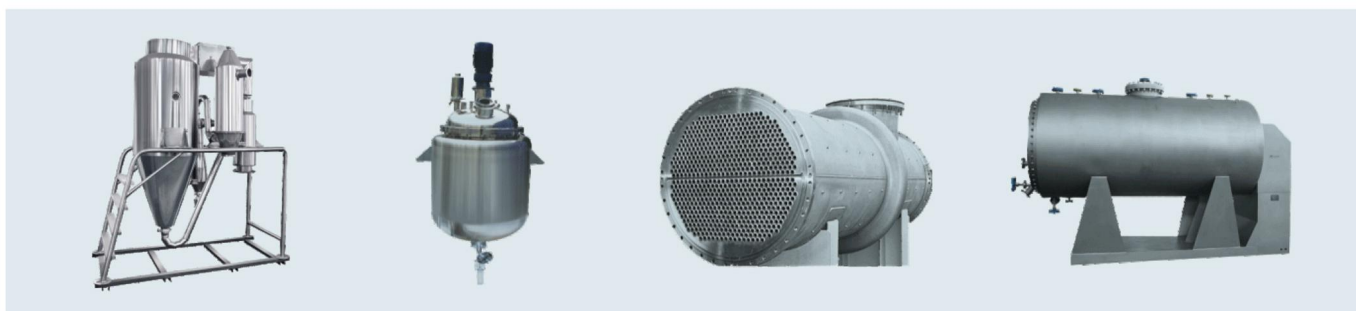


Vacuum Oven

Paddle Vacuum Dryer

Reactor

Single-effect And Multi-effect
Evaporating Concentrator



Low Energy Consumption
Aseptic Spray Dryer

Crystallizer

Condenser

Horizontal Static Crystallizer



Vertical Layout Reacting, Crystallizing,
Filtering, Washing and Drying System

Multifunctional
Drying Unit

Eccentric Powder Mixer

Sic Heat Exchanger



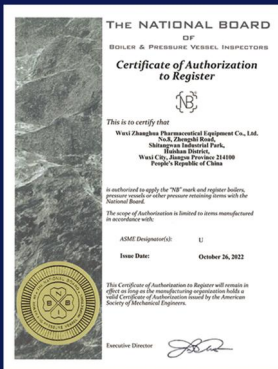
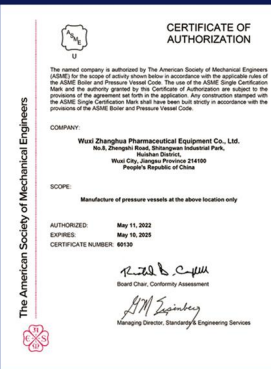
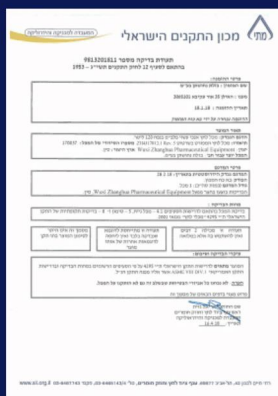
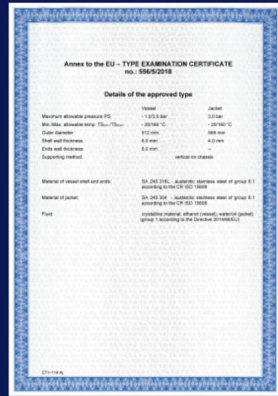
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PROCESSING EQUIPMENT

Perfect quality relies on advanced manufacturing equipment

Quality is the life of products and the foundation for enterprise development. The advanced automatic production equipment and standard production management ensure quality stability and reliability, giving the excellent quality of Zhonghua products into full play.





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since1976



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