

科技创新 技术制胜
Scientific and technological innovation
and technology win

燕加隆机械科技(江苏)有限公司 Yanjialong Machinery Technology (Jiangsu) Co., Ltd

地址:常州市天宁区郑陆镇焦溪工业园区	Address: Jiaoxi Industrial Park, Zhenglu Town, Tianning District, Changzhou City
手机:137-7510-0691	Mobile: 137-7510-0691
电话:0519-88900958 88910958	Tel: 0519-88900958 88910958
传真:0519-85853090 88912691	Fax: 0519-85853090 88912691
网址:www.yjlgz.cn	Website: www.yjlgz.cn
邮箱:sales@yjlgz.cn	Email: sales@yjlgz.cn

本公司对此产品手册所涉及内容拥有版权, 未经授权, 不得翻印, 违者必究;
The company owns the copyright of the contents involved in this product manual. Without authorization,
it is not allowed to reprint, and those who violate it will be prosecuted;
本公司保留对产品手册改进的权利, 恕不另行通知。本手册内容仅供参考。
The company reserves the right to improve the products and manuals without prior notice.
The contents of this manual are for reference only.
警告:对于易燃易爆物料的干燥, 未经本公司许可, 本公司不承担相关责任
Special Notes: Please ask for special permission from us if to dry any explosive product.
Otherwise, we shall not bear any responsibility.



燕加隆机械科技(江苏)有限公司
Yanjialong Machinery Technology (Jiangsu) Co., Ltd

企业简介 COMPANY PROFILE

燕加隆机械科技(江苏)有限公司是一家整合多家优势资源而成立的致力于MVR蒸发、多效蒸发、低温蒸发、连续结晶设备的研发、生产、销售于一体的高新技术企业。公司致力于打造成为一流的多效蒸发系统及MVR蒸发系统、工艺设计、运行管理的服务供应商。

公司具有完善的质量管理体系，取得ISO9001质量管理体系认证，具有A安全生产标准化三级企业证书，是江苏省高新技术企业、江苏省民营科技企业、江苏省环保理事会成员单位，荣获江苏省AAA级资信企业、重合同守信用企业等荣誉。国家高新企业在申报中，多项实用性，发明型专利陆续成功应用。

公司主要产品有MV多效蒸发器、连续蒸发结晶机组、母液干化一体机、污泥干化设备、内置循环蒸发器、多效浓缩器等四十余种产品，广泛应用于原料药、生物药、中药提取、化工、环保等领域。

目前公司拥有比较大的蒸发器研发生产基地，有自己的生产车间和化验试验设备，可以及时为客户进行物料分析。包括从物料研究，制定专属设计方案，产品生产以及安装调试包括处理售后问题。

公司秉承“科技为本、人才为本、质量为本、服务为本”的经营理念，追求完美的产品质量和高效贴切的服务，公司拥有完善的内部组织结构，现公司下设开发部、技术部、生产部及市场部，为客户提供周到的技术支持和售前、售中、售后服务，解决客户的后顾之忧，把效率留给客户，真诚守信是我们服务的宗旨，合作共赢是我们的目标，共同发展是我们的目标。

Yanjialong Mechanical Technology (Jiangsu) Co., Ltd. is a high-tech enterprise that integrates the research, development, production, and sales of MVR evaporation, multiple effect evaporation, low-temperature evaporation, and continuous crystallization equipment. The company aims to become a first-class supplier of multiple effect evaporation systems, MVR evaporation systems, process design, and operation management.

The company has a sound quality management system and has obtained the ISO9001 quality management system certification. It also holds the A-level standardized safety production certificate and is recognized as a high-tech enterprise in Jiangsu Province, a private technology enterprise in Jiangsu Province, and a member unit of the Jiangsu Provincial Environmental Protection Council. The company has been honored with the AAA-level credit enterprise in Jiangsu Province, contract-abiding and trustworthy enterprise, and has successfully applied for multiple practical and invention patents in the process of national high-tech enterprise declaration.

The main products of the company include MV multiple effect evaporators, continuous evaporative crystallizers, mother liquor drying integrated machines, sludge drying equipment, built-in circulating evaporators, and multi-effect concentrators, totaling more than 40 varieties. These products are widely used in various industries such as pharmaceuticals, biopharmaceuticals, traditional Chinese medicine extraction, chemical engineering, and environmental protection.

Currently, the company has a large-scale evaporator research and production base, with its own production workshops and laboratory testing equipment, which can provide timely material analysis for customers. This includes material research, tailored design proposals, product production, installation and commissioning, and after-sales support.

The company adheres to the business philosophy of "technology-oriented, talent-oriented, quality-oriented, and service-oriented," pursuing perfect product quality and efficient and appropriate services. With a well-organized internal structure, the company has development, technical, production, and marketing departments to provide comprehensive technical support and pre-sales, in-sales, and after-sales services to customers, solving their concerns and leaving efficiency to them. Sincerity and integrity are our service principles, win-win cooperation is our goal, and common development is our aim.

部分合作伙伴 Some Partners



天祝宏达环保科技有限公司
辽宁博翔环保科技有限公司
零八一电子集团有限公司
江苏立群精密钢管有限公司
扬州地平线新能源环境技术有限公司
浙江糖能科技有限公司
无锡腾跃特种钢管有限公司
艾坚蒙(安庆)科技发展有限公司
上海亿际化工有限公司
宁夏伟创药业有限公司
丹阳启盛新材料科技有限公司
千红药业股份有限公司
浙江三元电子科技有限公司
深圳市睿维盛环保科技有限公司
中国航发集团有限责任公司(常州分公司)
江苏瑞声科技有限公司
江苏银环精密钢管股份有限公司(宝钢分公司)
沈阳国泰飞机制造有限公司
湖北省宏源药业科技股份有限公司
成都生物制品研究所
诺维信(中国)生物技术有限公司
山东世纪阳光科技有限公司
江苏雷利电机股份有限公司
新疆汇和瀚洋环境工程技术有限公司
沈阳联盛化工有限公司
南阳普康恒旺药业有限公司
常州今创集团股份有限公司

内蒙古万祥危险品货物运输有限公司
陕西神木煤业能源化工有限公司
山东轩德医药科技有限公司
白银市伊博化工科技有限公司
天津厚德致远科技发展有限公司
南京汇合环境工程技术有限公司
烟台宁远药业有限公司
沈阳有研矿物化工有限公司
山东亿福金业珠宝股份有限公司
内蒙古京能康巴什热能有限公司
盐城海普润膜科技有限公司
江苏诺恩作物科学股份有限公司
海油化工有限公司
宜丰旭锂矿业有限公司
江苏诚信制药有限公司
青岛新世纪环境工程有限公司
中水六局华浙开原管业有限公司
大连三荣环境工程有限公司
张家港富瑞重型装备有限公司
核工业北京化工冶金研究院
广州洁明水处理设备有限公司
青岛金鹿金属制品有限公司
昆山亚竟铜业有限公司
广州珠海伯轩医疗科仪有限公司
无锡锡隆金属制品有限公司
东莞市疆江环保科技有限公司
恩彻尔(天津)环保科技有限公司

我们致力于打造一个高科技智能企业，用心制造优秀品牌，并实现“科技智造、中国制造”的目标。我们的目标是不断提升技术水平，建设社会认可、客户信任的品牌。

We are committed to building a high-tech intelligent enterprise, dedicated to creating excellent brands and achieving the goals of "technological innovation, Made in China." Our objective is to continuously enhance our technological capabilities and establish a brand that is recognized by society and trusted by our customers.

企业荣誉 Corporate honors

多年来，公司秉承“诚信、品质、服务”的经营理念，现已取得ISO9001资格，并取得蒸发器，MVR蒸发器等多项专利权利。坚持以质量为企业的生命，坚持变革创新确保企业永远充满活力，给未来发展创造更多机会，也得到社会各界认可。

Over the years, the company has adhered to the business philosophy of "integrity, quality, and service". Currently, the company has obtained ISO9001 qualification and holds multiple patents for evaporators, MVR evaporators, and other technologies. We insist on quality as the lifeblood of the company and strive for constant innovation to ensure the perpetual vitality of the enterprise, creating more opportunities for future development, and gaining recognition from all sectors of society.

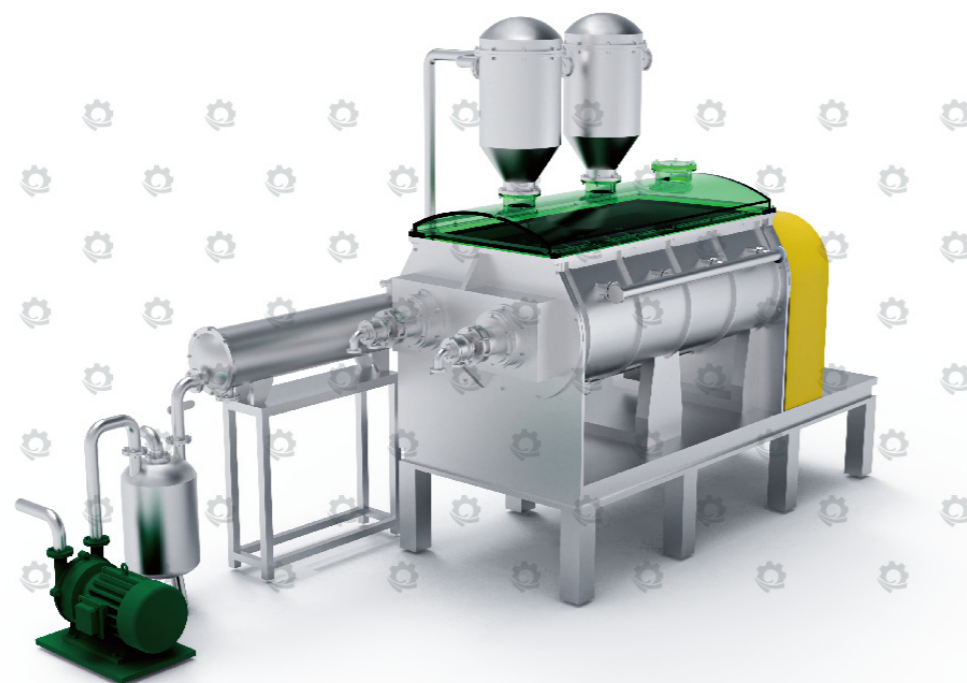


燕加隆机械科技(江苏)有限公司
Yanjialong Machinery Technology (Jiangsu) Co., Ltd



母液干化一体机

Mother Liquor Drying Integrated Machine



产品概述

母液干化一体机是一种卧式以热传导为主的新型浓缩设备。该设备广泛适用于MVR多效蒸发器的浓缩液、高盐、高COD、废液以及电镀等重金属废液、化工业废液盐化结晶、切削液、研磨液、离心机下的浓缩液、油泥、污泥干燥等领域。

该设备热传导部分主要是由主机内壁与圆盘组成。该设备采用夹套和空心圆盘热传导方式，可以对物料进行加热或冷却，可以根据不同的工艺要求选用真空或常压操作，且排放的气体非常少，所需的热量非常低，非常适用于需要溶剂回收或尾气处理的物料。经过内部特殊设计的夹套式螺旋可以精准的控制物料流动状态和物料在设备内部的停留时间，从而可以连续生产，也可以批次生产。该产品打破了以往设备单一功能的局限性，是一种多功能的创新型节能环保型设备。

Product Overview

The mother liquor drying integrated machine is a new type of horizontal concentration equipment mainly focused on heat conduction. This equipment is widely used in MVR multi effect evaporators for concentrated liquids, high salinity, high COD, waste liquids, as well as heavy metal waste liquids such as electroplating, chemical industry waste liquids for salt crystallization, cutting fluids, grinding fluids, concentrated liquids under centrifuges, oil sludge, sludge drying, and other fields.

The heat conduction part of the device mainly consists of the inner wall of the host and the disk. This equipment adopts a jacket and hollow disc heat transfer method, which can heat or cool materials. It can be operated under vacuum or atmospheric pressure according to different process requirements, and emits very little gas, requiring very low heat. It is very suitable for materials that require solvent recovery or tail gas treatment. The specially designed jacketed spiral can accurately control the flow state of materials and the residence time of materials inside the equipment, allowing for continuous production or batch production. This product breaks the limitations of previous single function devices and is a multifunctional, innovative, energy-saving, and environmentally friendly device.

工作原理

母液干化一体机传导部分有：主轴（空心）、圆盘（空心）、壁面（半管式）等几个部分。根据物料要求可以选用不同的媒介进行加热。物料可以一次性加注，然后关闭进出口，这样形成批次性生产。也可以连续的进料，再从出口口连续的排料，操作是通过转速来控制物料的停留时间，从而达到干燥的要求。

Operational Principle

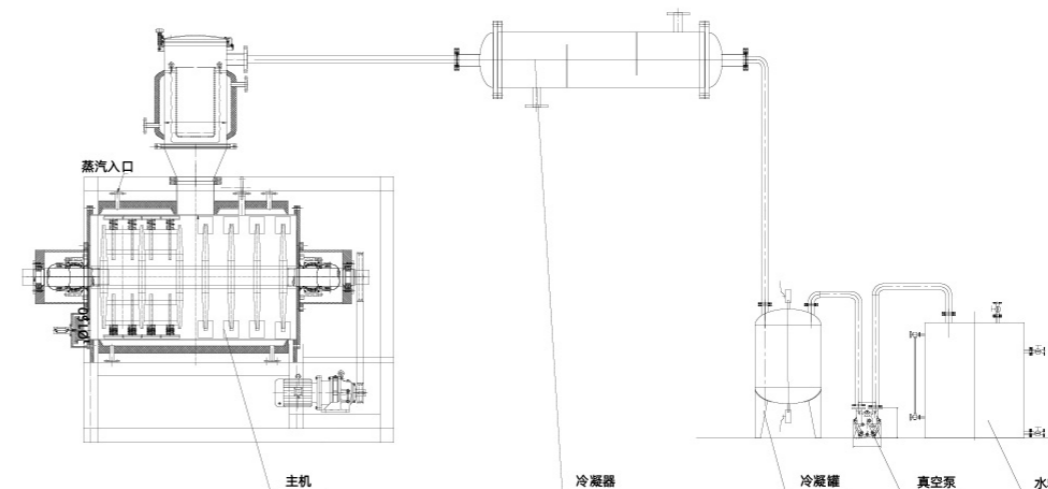
The conductive part of the vacuum scraper dryer includes several parts, such as the main shaft (hollow), the disk (hollow), and the wall surface (semi tubular). Different media can be selected for heating according to material requirements. Materials can be added at once, and then the inlet and outlet ports can be closed, forming batch production. It is also possible to continuously feed and then discharge the material from the discharge port. The operation is to control the residence time of the material through the rotation speed to achieve the drying requirements.

性能特点

- 1、节能：由于间接传导，大部分的能量都被物料吸收利用。
- 2、环保：真空下没有外界空气携带，排放全部为溶剂，溶剂又可以通过换热器回收，基本可以达到零排放。
- 3、干燥机系统造价低：单位有效容积内拥有巨大的传热面，就缩短了处理时间，设备尺寸变小。就极大地减少了建筑面积及建筑空间。
- 4、处理物料范围广：使用不同热介质，既可处理热敏性物料，又可处理需高温处理的物料。常用介质有：水蒸汽、导热油、热水、冷却水等。
- 5、操作费用低：该设备正常操作，低速搅拌及合理的结构。磨损量小，维修费用很低。
- 6、操作稳定：由于螺旋叶片特殊的压缩--膨胀搅拌作用，使物料颗粒充分与传热面接触，在轴向区间内，物料的温度、湿度、混合度梯度很小，从而保证了工艺的稳定性。7、采用机械密封，确保轴封的有效密闭，极大提高使用寿命。

Performance Characteristics

1. Energy saving: Due to indirect transmission, most of the energy is absorbed and utilized by materials.
2. Environmental protection: Under vacuum, there is no external air to carry, and all emissions are solvent. The solvent can also be recovered through a heat exchanger, basically achieving zero emissions.
3. The cost of the dryer system is low: it has a huge heat transfer surface per unit of effective volume, which shortens the processing time and reduces the size of the equipment. This greatly reduces the building area and space.
4. Wide range of material processing: using different thermal media, it can handle both heat-sensitive materials and materials that require high-temperature treatment. Commonly used media include: steam, heat transfer oil, hot water, cooling water, etc.
5. Low operating cost: The equipment operates normally, with low speed mixing and a reasonable structure. Low wear and tear, low maintenance costs.
6. Stable operation: Due to the special compression expansion stirring effect of the spiral blades, the material particles fully come into contact with the heat transfer surface. Within the axial range, the temperature, humidity, and mixing gradient of the material are very small, thus ensuring the stability of the process. 7. Adopting mechanical seals ensures effective sealing of the shaft seal, greatly improving its service life.



螺旋真空干燥机

Spiral vacuum dryer



产品概述

螺旋真空干燥机采用卧式设计，以传导方式加热，物料在传输过程中不断加热，根据物料停留时间可采用多轴联动方式进行物料加热，主机转速根据物料在设备运行当中调节物料流动速度，当物料达到干燥要求时经过出料口出料，排出的水蒸气或者溶剂气体可进行冷凝回收。

Product Overview

The spiral vacuum dryer adopts a horizontal design, heated by conduction, the material is continuously heated during the transmission process, the material can be heated by multi-axis linkage according to the residence time of the material, the speed of the host adjusts the material flow speed according to the material in the operation of the equipment, and when the material meets the drying requirements, the discharged water vapor or solvent gas can be condensed and recovered.

适用范围

设备可根据工艺要求，采用自动化流水线生产。

Scope of application

The equipment can be produced by automatic assembly line according to the process requirements.

工作原理

设备采用空心螺旋叶片与主轴加热方式，设备箱体采用夹套式加热，根据物料要求可采用不同的加热方式：蒸汽、导热油、热水，物料通过加料口进入，经过螺旋输送方式进行流动加热，干燥结束后物料到达出料口进行出料，从而达到连续干燥要求。

Operational Principle

The equipment adopts hollow spiral blades and spindle heating, the equipment box adopts jacket heating, and different heating methods can be used according to the material requirements: steam, heat conduction oil, hot water, the material enters through the feeding port, and the flow heating is carried out through the spiral conveying mode, and the material arrives at the discharge port for discharge after drying, so as to meet the requirements of continuous drying.

性能特点

高效：该设备采用空心叶片螺旋方式结构，增加设备加热面积，热能被物料充分吸收。

节能：采用热传导方式加热，热能损耗极小，大大提高干燥效率，螺旋输送过程中电机功率大大降低，比普通干燥设备能耗低。

设备占地面积小，整体出厂、安装方便。

Performance Characteristics

High efficiency: The equipment adopts a hollow blade spiral structure, which increases the heating area of the equipment, and the heat energy is fully absorbed by the material.

Energy saving: Heating by heat conduction mode, heat energy loss is very small, greatly improving drying efficiency, motor power is greatly reduced in the process of spiral conveying, and energy consumption is lower than that of ordinary drying equipment.

The equipment occupies a small area, and the overall factory is convenient for installation.

技术参数 Technical parameter

规格型号	总容积(L)	传热面积(m ²)	电机功率(kw)	主轴转速(rpm)	夹套、叶片设计压力(Mpa)	蒸发量(kg/h)	长(mm)	宽(mm)	高(mm)
200	200	2.4	2.2	~15	<1.0	25-50	2400	1050	2200
500	500	6	6	~15	<1.0	50-130	2700	1200	2400
1000	1000	12	5.5	~13	<1.0	120-250	3200	1500	2600
1500	1500	18	7.5	~13	<1.0	250-400	3500	1650	2850
2000	2000	24	1	~12	<1.0	250-450	3800	1800	2900
2500	2500	30	11	~12	<1.0	350-400	4000	1900	3100
3000	3000	36	15	~10	21.0	350-620	4200	2000	3200
3500	3500	42	15	~10	<1.0	400-750	4500	2100	3400
4000	4000	46	15	~10	<1.0	450-900	4800	2200	3600
5000	5000	60	18.5	~10	<1.0	500-1200	5500	2300	3600
6000	6000	70	22	~8	<1.2	600-1400	6100	2400	3700
7000	7000	82	22	~7	<1.4	700-1600	6800	2500	3800

ZYG圆盘干燥机

Disc dryer

产品介绍

该产品可对膏状、颗粒状、粉状、浆状物料间接加热或冷却，可完成干燥、冷却、加热、灭菌、反应、低温燃烧等单元操作。设备中特殊的搅拌传热圆盘具有较高的传热效率和传热面自清洁功能。

Product introduction

The product can indirectly heat or cool paste, granule, powder and slurry materials, and can complete unit operations such as drying, cooling, heating, sterilization, reaction and low temperature combustion. The special heat transfer disk in the equipment has high heat transfer efficiency and self-cleaning function of heat transfer surface.



适应物料

圆盘干燥机已成功地用于食品、化工、石化、染料、工业污泥等领域。设备传热、冷却、搅拌的特性使之可以完成以下单元操作：燃烧(低温)、冷却、干燥(溶剂回收)加热(融化)、反应和灭菌。空心圆盘同时又是传热面，使单位有效容积内传热面积增大，缩短了处理时间。压缩-膨胀搅拌功能使物料混和均匀。物料沿轴向成“活塞流”运动，在轴向区内，物料的温度、湿度、混合度梯度很小。用导热油做热介质圆盘干燥机可完成低温燃烧工作。如：二水硫酸钙($\text{Ca}_2\text{SO}_4 \cdot 2\text{H}_2\text{O}$)燃烧转化为半水硫酸钙($\text{Ca}_2\text{SO}_4 \cdot 1/2\text{H}_2\text{O}$)。碳酸氢钠(NaHCO_3)经煅烧转化为纯碱(Na_2CO_3)等。通入冷却介质，如水、冷却盐水等即可用来冷却。如：用于纯碱行业的圆盘式凉碱机，取代老式的空气冷却凉碱机，节省了能源及尾气处理设备，降低了操作费用。

Adaptive materials

Disc dryer has been successfully used in food, chemical, petrochemical, dyestuff, industrial sludge and other fields. The characteristics of heat transfer, cooling and stirring make it possible to complete the following unit operations: combustion (low temperature), cooling, drying (solvent recovery), heating (melting), reaction and sterilization. The hollow disk is also a heat transfer surface, which makes the heat transfer area in unit effective volume increase and shortens the treatment time. Compression expansion mixing function makes the material mix evenly. In the axial region, the gradient of temperature, humidity and mixing degree is very small. The disc dryer with heat transfer oil as heat medium can complete low temperature combustion. For example, calcium sulfate dihydrate ($\text{Ca}_2\text{SO}_4 \cdot 2\text{H}_2\text{O}$) is converted into calcium sulfate hemihydrate ($\text{Ca}_2\text{SO}_4 \cdot 1/2\text{H}_2\text{O}$) by combustion. Sodium bicarbonate (NaHCO_3) is converted into soda ash (Na_2CO_3) by calcination. The cooling medium, such as water and cooling brine, can be used for cooling. For example, the disc type soda cooler used in soda industry replaces the old air cooling soda cooler, saves energy and tail gas treatment equipment, and reduces the operation cost.

KJG空心桨叶干燥机

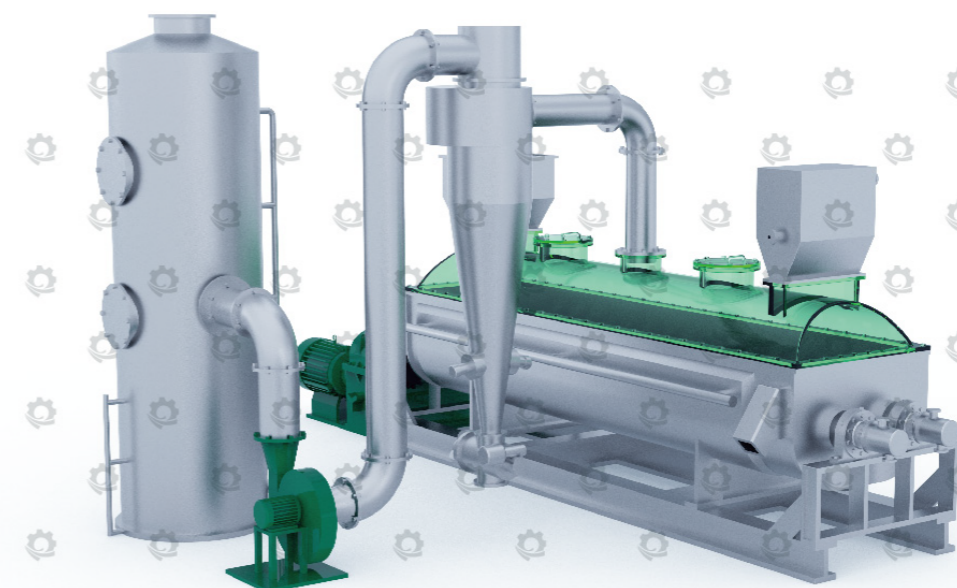
Hollow blade dryer

产品介绍

该产品可对膏状、颗粒状、粉状、浆状物料间接加热或冷却，可完成干燥、冷却、加热、灭菌、反应、低温燃烧等单元操作。设备中特殊的楔形搅拌传热桨叶具有较高的传热效率和传热面自清洁功能。

Product introduction

The product can indirectly heat or cool paste, granule, powder and slurry materials, and can complete unit operations such as drying, cooling, heating, sterilization, reaction and low temperature combustion. The special wedge-shaped agitator blade has high heat transfer efficiency and self-cleaning function.



工作原理

空心轴上密集排列着楔形中空桨叶，热介质经空心轴流经桨叶。单位有效容积内传热面积很大，热介质温度从-40℃到320℃，可以是水蒸汽，也可以是液体型：如热水、导热油等。间接传导加热，没有携带空气带走热量，热量均用来加热物料。热量损失仅为通过壳体保温层向环境的散热。楔形桨叶传热面具有自清洁功能。物料颗粒与楔形面的相对运动产生洗刷作用，能够洗掉楔形面上附着物料，使运转中一直保持着清洁的传热面。桨叶干燥机的壳体为Ω型，壳体内一般安排二到四根空心搅拌轴。壳体有密封端盖与上盖，防止物料粉尘外泄而充分发挥作用。传热介质通过旋转接头，流经壳体夹套及空心搅拌轴，空心搅拌轴依据热介质的类型而具有不同的内部结构，以保证最佳的传热效果。

Working Principle

Wedge shaped hollow blades are densely arranged on the hollow shaft, and the thermal medium flows through the blades through the hollow shaft. The heat transfer area per unit effective volume is very large, and the temperature of heat medium ranges from - 40 °C to 320 °C. It can be steam or liquid, such as hot water, heat transfer oil, etc. Indirect conduction heating, without air to take away heat, heat is used to heat materials. The heat loss is only the heat dissipation to the environment through the insulation layer. The heat transfer surface of wedge blade has self-cleaning function. The relative movement of the material particles and the wedge-shaped surface produces a scrubbing effect, which can wash away the attached materials on the wedge-shaped surface and keep a clean heat transfer surface during operation. The shell of the blade dryer is Ω The shell is generally arranged with two to four hollow stirring shafts. The shell is provided with a sealed end cover and an upper cover to prevent the leakage of material dust and give full play to the function. The heat transfer medium flows through the shell jacket and the hollow stirring shaft through the rotary joint. The hollow stirring shaft has different internal structures according to the type of heat medium to ensure the best heat transfer effect.