

关于洁维生物

About JEWELBIO

江苏洁维生物设备股份有限公司（以下简称：洁维生物）是一家以技术创新为驱动，高端装备制造为核心的高新技术和专精特新企业。公司深耕生物医药领域，精准聚焦抗体药物、疫苗、无菌注射剂、吸入制剂及多肽药物等关键制药场景，并前瞻布局以医美原料与注射剂为代表的新消费市场。致力于为全球制药企业提供从工艺开发、装备制造到工程落地的全生命周期一站式解决方案。

Jiangsu Jewel Biopharmaceutical Equipment Co., Ltd (hereinafter referred to as "JEWELBIO") is a high-tech and specialized, refined, distinctive and innovative enterprise driven by technological innovation and focused on high-end equipment manufacturing. The company focus on the biopharmaceutical sector, precisely on critical pharmaceutical scenarios such as antibody drugs, vaccines, sterile injections, inhalation preparations, and peptide drugs, while also proactively expanding into new consumer markets represented by cosmetic ingredients and injections. The company is committed to providing global pharmaceutical companies with integrated one-stop solutions spanning from process development and equipment manufacturing to engineering implementation across the entire lifecycle.

服务目标客户

Target Clients



生物制药
Biologics



复杂注射剂
Complex Injections



化药/原料药
Chemical Drugs/Active
Pharmaceutical Ingredients



研发机构
R&D Institutions



食品及食用香精香料
Food and Food Flavorings

行业典型案例

Industry Benchmark Cases



圣诺生物
Sanyo Biotech



康龙化成
PHARMARON



其胜生物
Jishi Biotech



Dr.Reddy's



海创生物
HAI CHUAN BIO TECH



万盛制药
WANSHENG PHARMACEUTICAL



其胜生物
Jishi Biotech



Dr.Reddy's

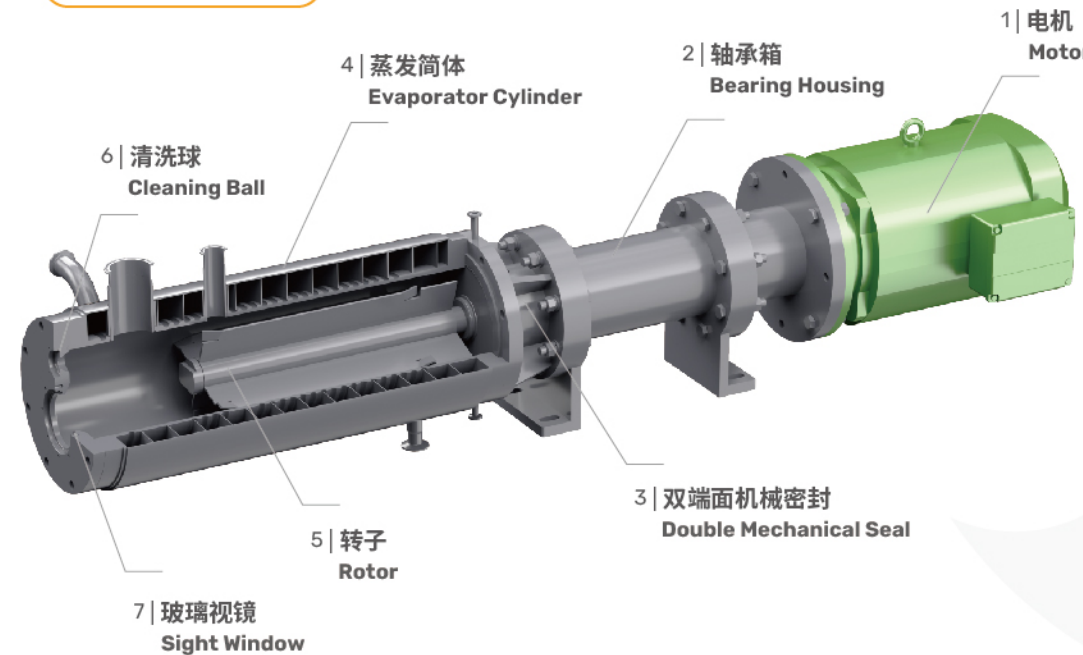
- 为多肽创新研发及商业化企业 提供多套FILTRIX™无菌薄膜蒸发系统
Provides aseptic thin-film evaporation systems for peptide innovative R&D and manufacturing enterprises
- 为国际领先的生命科学研究服务企业 提供多套FILTRIX™无菌薄膜蒸发系统
Provides aseptic thin-film evaporation systems for world-leading life science R&D service enterprises

产品全景呈现

Product Overview

洁维生物制定企业标准《Q/JEWEL 001.2-2024》

结构 Structure



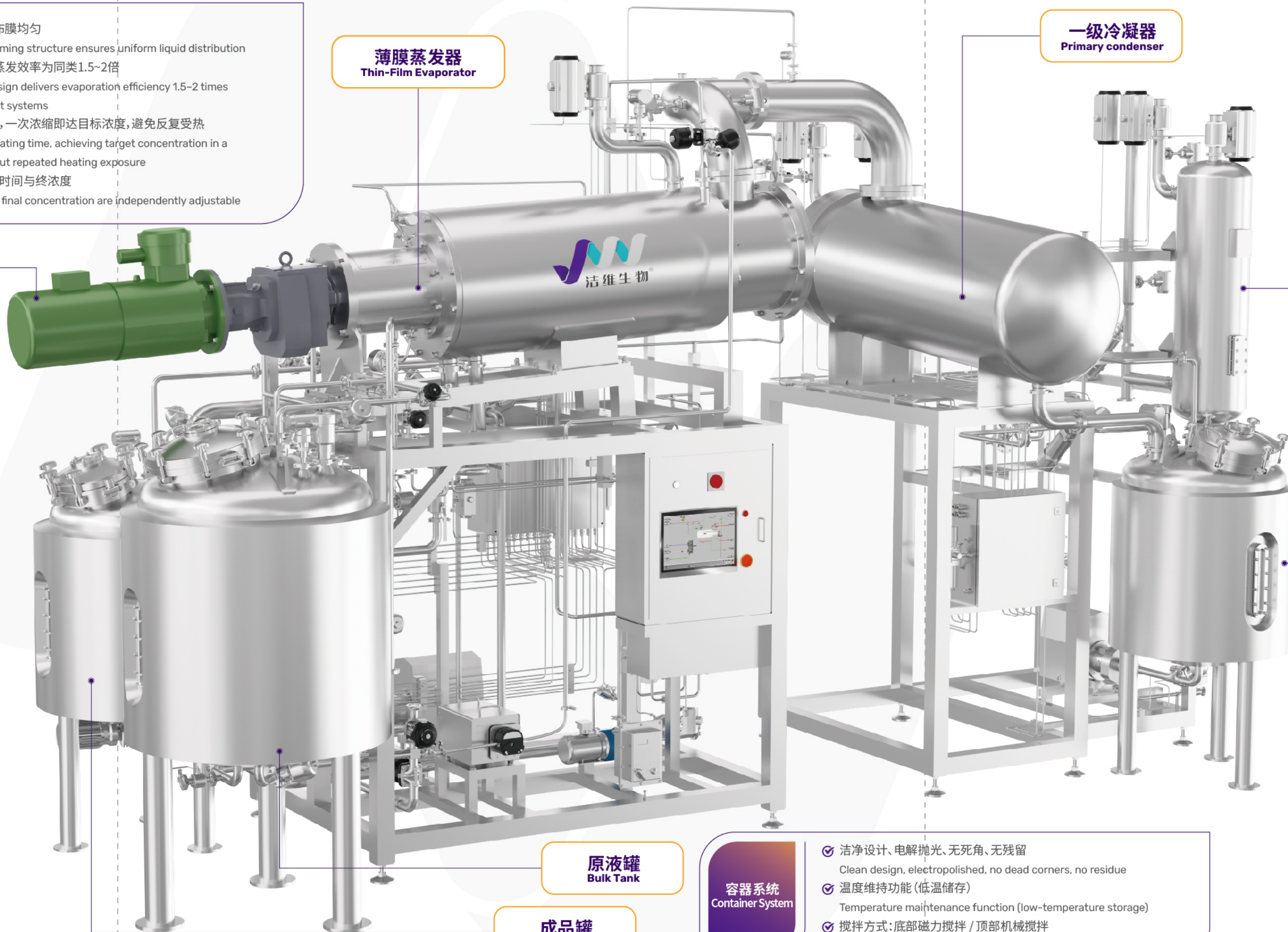
当蒸发温度33℃，处理的乙腈浓度50-60%
When evaporation temperature is 33℃, treated acetonitrile concentration is 50-60%

型号 Model	处理能力（水）Kg/h Processing Capacity (Water), Kg/h	处理能力（乙腈）Kg/h Processing Capacity (Acetonitrile): Kg/h	蒸发面积m² Evaporation Area: m²
FILTRIX-0.5	25~30	~50	0.5
FILTRIX-1.0	50~60	~100	1.0
FILTRIX-1.5	75~90	~150	1.5
FILTRIX-2.0	100~120	~200	2.0

薄膜蒸发器主机 Thin-Film Evaporator Main Unit

- ✓ 专利成膜结构，布膜均匀
Patented film-forming structure ensures uniform liquid distribution
- ✓ 特殊夹套设计，蒸发效率为同类1.5~2倍
Special jacket design delivers evaporation efficiency 1.5~2 times that of equivalent systems
- ✓ 物料受热时间短，一次浓缩即达目标浓度，避免反复受热
Short material heating time, achieving target concentration in a single pass without repeated heating exposure
- ✓ 可自主调节受热时间与终浓度
Heating time and final concentration are independently adjustable

薄膜蒸发器 Thin-Film Evaporator



原液罐 Bulk Tank

成品罐 Finished Product Tank

容器系统 Container System

- ✓ 洁净设计、电解抛光、无死角、无残留
Clean design, electropolished, no dead corners, no residue
- ✓ 温度维持功能（低温储存）
Temperature maintenance function (low-temperature storage)
- ✓ 搅拌方式：底部磁力搅拌 / 顶部机械搅拌
Agitation method: bottom magnetic stirring / top mechanical stirring

一级冷凝器 Primary condenser

无菌薄膜蒸发 Aseptic thin-film evaporation

状态变化 State change	相变(液 → 气) Phase Transition (Liquid → Gas)
规模 Scale	适合连续化大生产 Suitable for Continuous Large-Scale Production
核心优势 Core Advantages	效率高、处理量大 High efficiency large processing capacity

冷凝系统 Condensation system

- ✓ 冷凝器配置合理，有机溶剂回收率高
Well-configured condenser for high organic solvent recovery.
- ✓ 结构可耐受低温及结冰影响
Structure resistant to low temperature and freezing effects.

二级冷凝器 Secondary condenser

凝液罐 Condensate tank

自控系统 Control system

- ✓ 软件基于ISA-88标准架构开发，兼具成熟稳定性与高度柔性
ISA-88-based software architecture enables flexible manufacturing.
- ✓ 严格遵循FDA CFR Part 11法规，全面保障数据完整性
FDA 21 CFR Part 11 compliant for assured data integrity.



扫码观看产品视频



扫码开启工艺解决方案

江苏洁维生物设备股份有限公司
Jiangsu Jewel Biopharmaceutical Equipment Co., Ltd.

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Technology Center:
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www.jewelbio.com

JEWEL-2611-CE800-20260730

诚信 协同 精工 创新
INTEGRITY · COLLABORATION · PRECISION · INNOVATION

洁维生物®

优势转化升级 Advantage Transformation and Upgrade

卫生级设计 Hygienic Design

支持CIP在线清洗（无菌）、可选SIP，无死角设计，满足GMP洁净要求。
Supports CIP online cleaning (aseptic), optional SIP, with dead-corner-free design to meet GMP cleanliness requirements.

温和处理 Gentle Processing

低剪切、短停留、成膜均匀，最大程度保留热敏性物料活性与特性。
Low shear, short residence time, and uniform film formation, maximizing the activity and characteristics of heat-sensitive materials.

高效浓缩 Efficient Concentration

高真空、低温运行，适配高粘度物料，回收率高，可实现最低10ppm溶剂残留。
Operates under high vacuum and low temperature, suitable for high-viscosity materials, with high recovery rate and a minimum solvent residue of 10 ppm.

连续化生产 Continuous Production

可24小时连续稳定运行，适配中试到规模化生产全流程。
Supports 24-hour continuous and stable operation, adaptable to the entire process from pilot-scale to full-scale production.

标准化+定制化 Standardization + Customization

采用模块化标准化设计，同时可根据用户工艺、物料特性及厂房条件提供定制化解决方案。
Modular standardized design is adopted, while customized solutions are provided based on user processes, material characteristics, and facility conditions.

合规与追溯 Compliance and Traceability

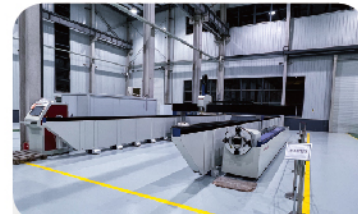
依托ISO9001质量管理体系，提供全套GMP验证文件；配备ISA88标准控制系统，生产数据全程可追溯。
Relying on the ISO9001 quality management system, a full set of GMP validation documents is provided; equipped with an ISA88 standard control system, production data is fully traceable throughout the process.

全生命周期服务 Full Lifecycle Service

从工艺设计、设备制造、安装调试到验证、运维，提供一站式专业服务。
From process design, equipment manufacturing, installation and commissioning to validation and operation & maintenance, we provide one-stop professional services.

精工智造实力 Precision & Intelligent Manufacturing Prowess

强大的生产能力：具备年产1200套工艺罐及相关模块
Robust Production Capacity: Capable of producing 1,200 sets of process vessels and related modules annually.



自动激光下料
Automatic Laser Cutting



欧式行车
European Overhead Crane



普通车床
Conventional Lathe

权威技术认证 Authoritative Technical Certification



江苏省高新技术企业
Jiangsu High-Tech Enterprise



上海市高新技术企业
Shanghai High-Tech Enterprise



江苏省专精特新中小企业
Jiangsu Specialized, Refined, Distinctive, and Innovative SME



上海市专精特新中小企业
Shanghai Specialized, Refined, Distinctive, and Innovative SME



江苏省双创人才奖励
Jiangsu Innovation and Entrepreneurship Talent Award

自研核心技术 Self-Developed Core Technologies



拥有50余项专利及软件著作权



压力容器特种设备生产许可证
Special Equipment Production License for Pressure Vessels



GC2级压力管道安装许可证
GC2 Pressure Piping Installation Permit



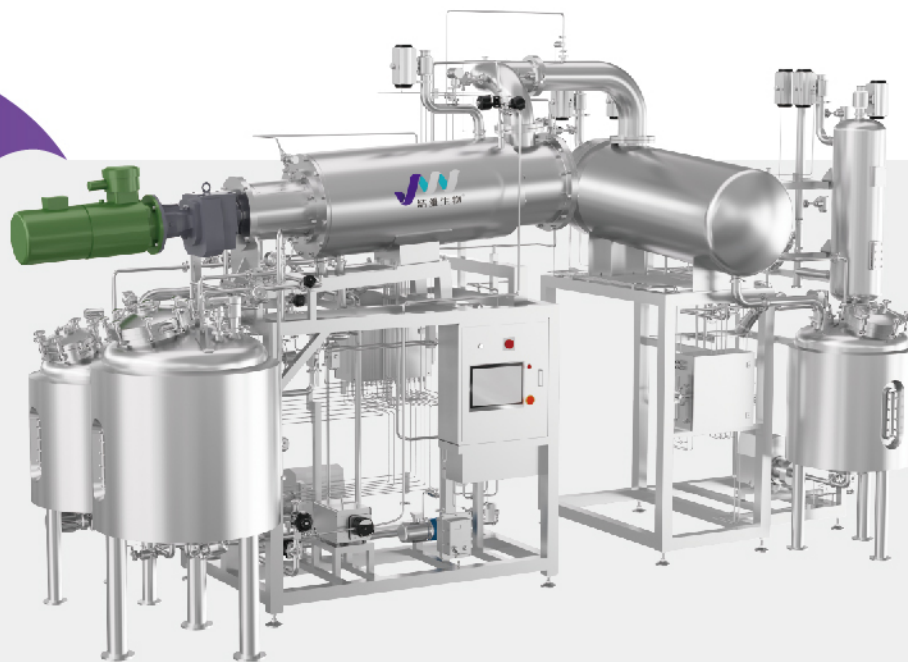
ISO 9001体系认证
ISO 9001 Certification

洁维生物®

FILTRIX™

Aseptic Thin-Film Evaporation System

无菌薄膜蒸发系统



国产首创突破瓶颈
蒸发效率遥遥领先

Domestic Pioneering Breakthrough
Industry-leading Evaporation Efficiency