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浙江特盈低温液化装备有限公司
Zhejiang Tewincryo Liquefy Equipment Co., Ltd.

公司简介

Company Profile

浙江特盈低温液化装备有限公司是一家专业从事研发、设计、销售、制造和成套工业气体分离、液化及工业排放废气回收利用装置的高新技术智造企业。公司的衢州智造基地建筑面积为 48000㎡。

公司核心制造产品包括——外压缩空分装置、内压缩空分装置、氧（氮）液化装置、液体空分装置、单塔（双塔）制氮装置以及氩回收提纯装置、二氧化碳回收提纯装置、PSA 制氮装置、VPSA 制氧装置、制氢装置等。

经过多年的沉淀和发展，特盈低温已跻身行业核心供应商之列，为中国 30 多个省、市、自治区以及全球几十个国家和地区的客户提供超过 500 套装置。

Zhejiang Tewincryo Liquefy Equipment Co., Ltd is a high-tech intelligent manufacturing enterprise specializing in R&D, design, sales, manufacturing and assembly of industrial gas separation, liquefaction and industrial exhaust gas recovery plants. The company's Quzhou Manufacturing Base has a floor area of 48000m².

Our flagship offerings include external compression air separation plants, internal compression air separation plants, oxygen (nitrogen) liquefaction plants, liquid air separation plants, single-column (two-column) nitrogen plants, argon recovery plants, CO_2 recovery plants, PSA nitrogen plants, VPSA oxygen plants, hydrogen production plants etc.

Through years of accumulation and development, Tewincryo has solidified our position as one of the key players in the industry and we have successfully delivered over 500 sets of plants to customers around the world.



空分氧氮氩装置

Air Separation Plant (O_2, N_2, Ar)

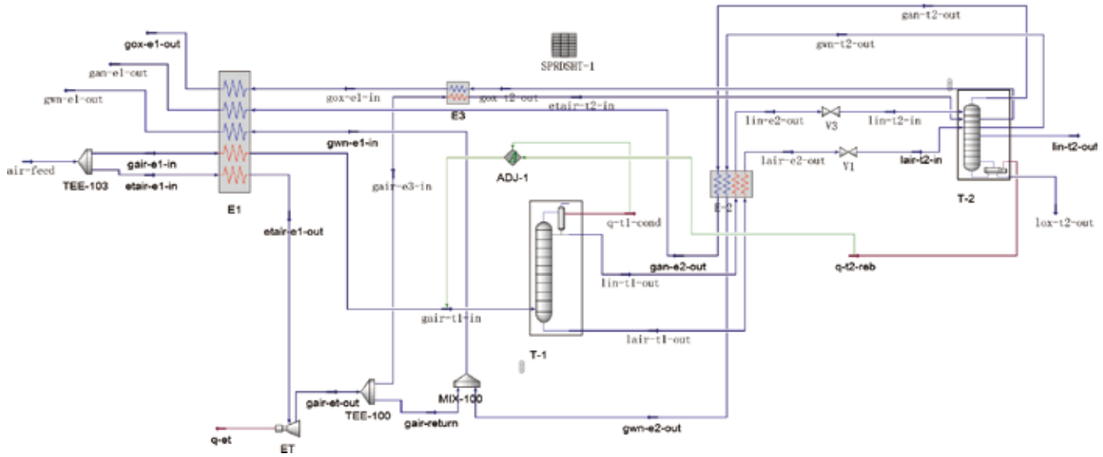
通过氧气压缩机、氮气压缩机等产品压缩机对来自冷箱的常压产品气体进行增压，以达到用户装置所需压力。

The product gas from the coldbox will be compressed by product compressors such as oxygen compressors and/or nitrogen compressors to reach the pressure required by the User.

流程特点 Process Features

采用膨胀空气进上塔流程，液体量较少，产品压力一般在 3.0MPa 以内。

Expanded air enters the upper column, with limited liquid products and the product pressure generally within 3.0MPa.



典型案例 Typical Cases

项目地点 Location	设备型号 Plant Model	用户名称 Client
中国湖南 Hunan China	KDONAr-12000(3500Y)/4000Y/500Y	湖南白银（中科富海） Hunan Silver(Fullcryo)
出口海外 Export overseas	KDON-7000/3500(100Y)	北京华福工程有限公司 Beijing Huafu Engineering Co., LT
出口朝鲜 Export to North Korea	KDON-5000/10000	丹东金杭贸易有限公司 Dandong JinHang Trade Co., Ltd.
中国浙江 Zhejiang China	KDON-3000/1500	浙江天能电源材料有限公司 Zhejiang Tianneng Power Supply Material Co., Ltd.
中国四川 Sichuan China	KDON-2500/5000	四川侨源气体股份有限公司 Sichuan Qiaoyuan Gas Stock Co., Ltd.

高纯氮装置

Nitrogen Plant

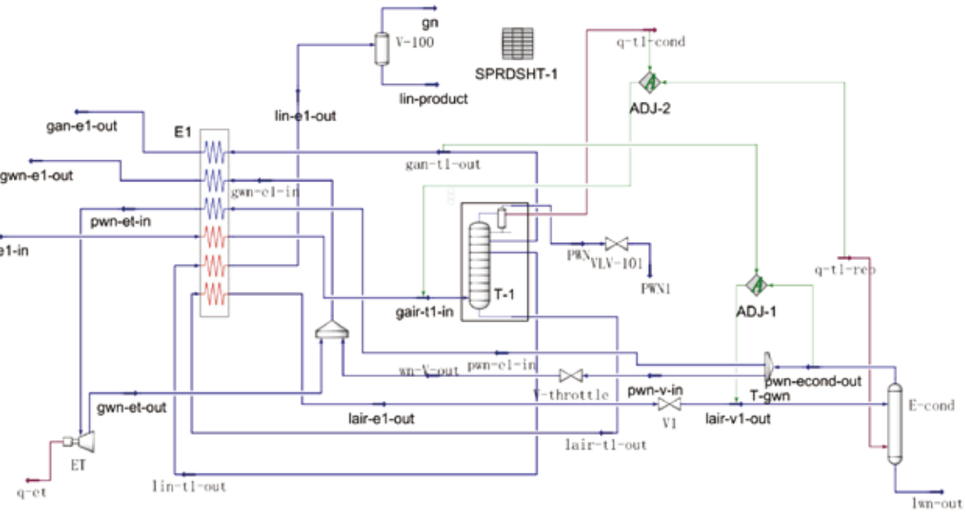
高纯氮装置主要制取氮气及液氮，也可以少量生产氧气或液氧。

按照对纯氮产品压力、装置能耗等级的不同要求，高纯氮装置流程主要有：

Nitrogen gas and liquid nitrogen are the main products of Nitrogen plant and the plant can also produce a small amount of oxygen gas or liquid oxygen. As per special requirements from the User such as product pressure and energy consumption level, there are several processes for selection such as:

- 空气正流膨胀流程 Air expansion process
- 单塔流程 Single-column process
- 污氮气（或氮气）返流膨胀流程 Waste nitrogen (or nitrogen) backflow expansion process
- 双塔流程等 Two-column process etc

流程特点 Process Features



典型案例 Typical Cases

项目地点 Location	设备型号 Plant Model	用户名称 Client
中国浙江 Zhejiang China	KDN-22000/200Y	衢州极电新能源科技有限公司 Quzhou Jidian New Energy Technology Co., Ltd.
中国湖北 Hubei China	KDN-18000/150Y	湖北锂源新能源科技有限公司 Hubei Liyuan New Energy Technology Co., Ltd.
中国四川 Sichuan China	KDN-16000	四川协盘锂能新材料有限公司 (海格金谷) Sichuan GCL Lithium Energy New Materials Co., Ltd (Haige Jingu)
中国江苏 Jiangsu China	KDN-12000/80Y	华天科技（南京）有限公司 Huatian Technology (Nanjing) Co.,Ltd.
印尼 Indonesia	KDN-10000/100Y	PT LBM Energi Baru

液体空分装置

Liquid Air Separation Plant

液体空分装置可看作是常规空分装置和液化装置的结合体，其制冷系统和换热系统与相应产量等级的液化装置是一样的。需要根据不同的产量来选择合适的制冷循环，典型流程有以下4种：

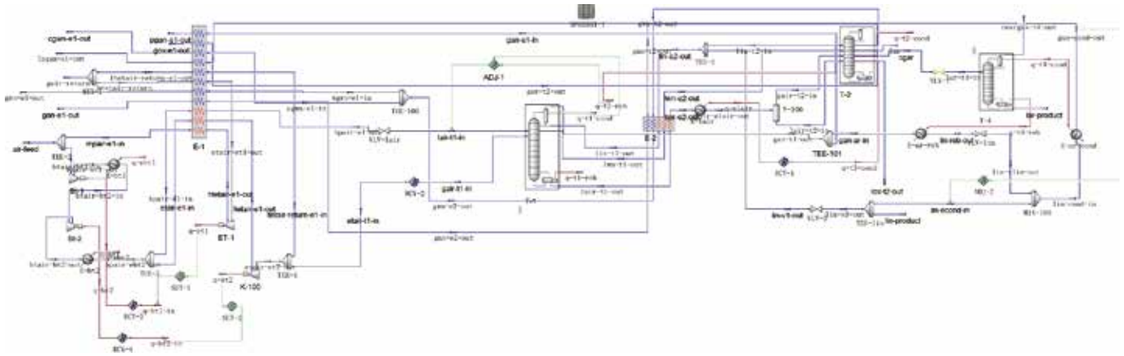
The liquid air separation plant can be seen as a combination of air separation plant and liquefaction plant, and its refrigeration system and heat exchange system are the same as those of liquefaction plant of corresponding capacity level. Appropriate refrigeration cycle shall be selected as per the capacity required, and 4 typical processes are as follows:

- 低压循环流程 Low pressure cycle
- 带低温冷冻机的低压循环流程 Low pressure cycle with cryogenic freezer
- 中压循环流程 Medium pressure cycle
- 中压双膨胀流程 Medium pressure double expansion process

流程特点 Process Features

产品一般为全液体产品，可副产部分气体产品。

Generally produce liquid products; can produce some gas products as by-products.



典型案例 Typical Cases

项目地点 Location	设备型号 Plant Model	用户名称 Client
中国四川 Sichuan China	KDONAr-4000Y/4200Y/140Y	遂宁源晗能源技术有限公司 Suining Yuanhan Energy Technology Co., Ltd.
中国江苏 Jiangsu China	KDONAr-3000Y/1400Y/100Y	海安县建荣制氧厂 Haian County Jianrong Oxygen Making Co., Ltd.
中国浙江 Zhejiang China	KDONAr-3000Y/1300Y/100Y	杭州电化集团有限公司 Hangzhou Electrochemical Group Co., Ltd.
印尼 Indonesia	KDO-1500Y	PT.ANDALAS JAYA PERKSASA
出口海外 Export overseas	KDON-700Y-2200Y	中国航空技术杭州有限公司 AVIC INTERNATIONAL HANGZHOU COMPANY LIMITED

小型内压缩装置

Small-size Internal Compression Air Separation Plant

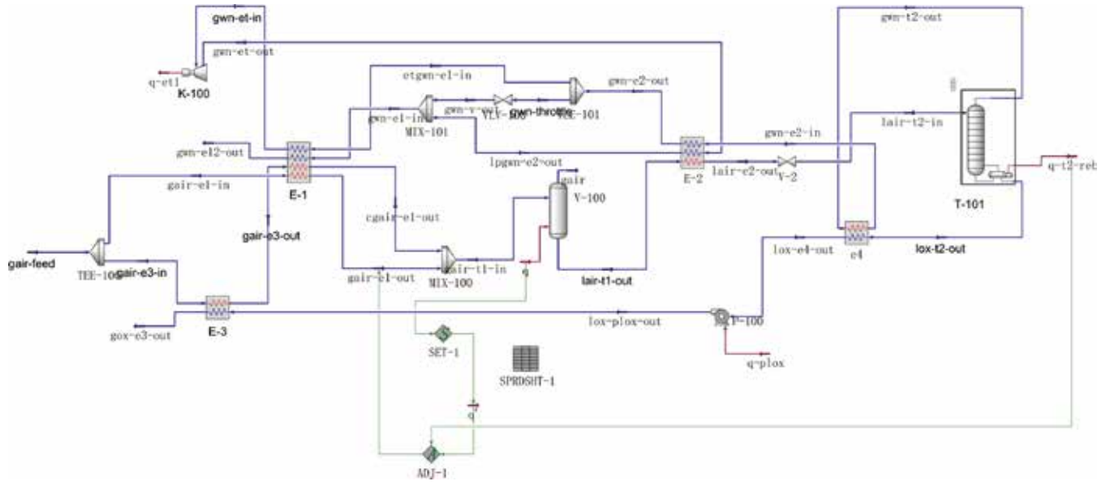
冷箱内的液氧（液氮）经低温液氧泵（液氮泵）增压到用户所需压力后进入主换热器复热，复热到常温的产品气体直接进入用户管网。

The liquid oxygen (liquid nitrogen) in the coldbox is pumped via the cryogenic liquid oxygen pumps (cryogenic liquid nitrogen pumps) to the pressure required by the User. Then it will enter the main heat exchanger to be vaporized and reheated to the normal temperature before entering the User's pipe network.

流程特点 Process Features

采用膨胀空气进下塔流程，液体量大，产品压力一般在10.0MPa以内。

Expanded air enters the lower column, with a large amount of liquid products and the product pressure generally within 10.0MPa.



典型案例 Typical Cases

项目地点 Location	设备型号 Plant Model	用户名称 Client
孟加拉国 Bangladesh	KZO-350	Sunny Foils and Polymer Industries Ltd.
孟加拉国 Bangladesh	KZO-350	VSL OXYGEN LTD.
埃塞俄比亚 Ethiopia	KZO-250 *2 Sets	AMAGA PRIVATE LIMITED COMPANY
印度 India	KZO-200 *2 Sets	Shyam Seland Power Ltd.
菲律宾 Philippine	KZO-100	Gensan Shipyard and Machine Works, INC

液化装置
Liquefaction Plant

通过循环压缩机、膨胀机的循环增压膨胀产生的充足冷量来液化氧气、氮气、LNG、CNG及特殊气体等产品。
根据装置规模的不同，通常有3种工艺流程：

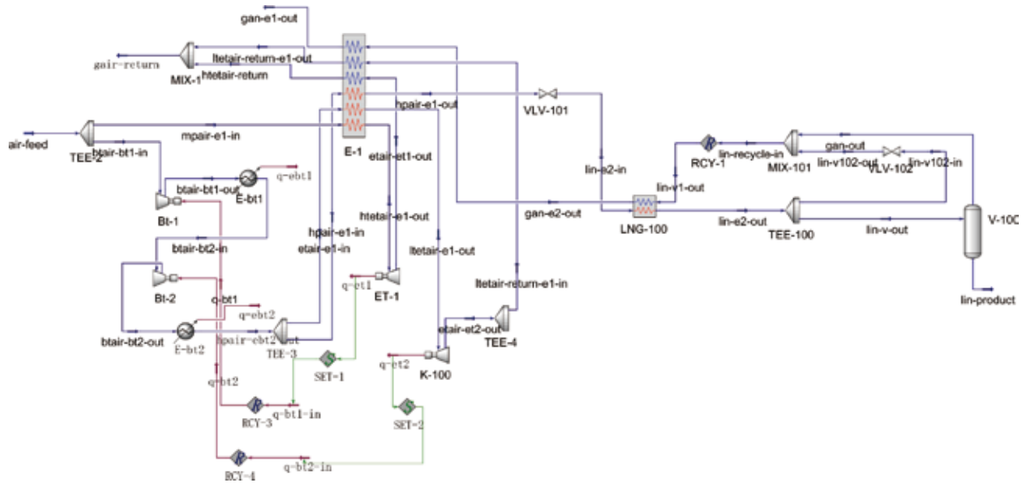
Oxygen, nitrogen, LNG, CNG as well as special gases are liquefied by sufficient cold generated by cyclic boosting expansion process via recycle compressors and expanders.

- 低压循环流程 Low pressure cycle
- 带低温冷冻机的低压循环流程 Low pressure cycle with cryogenic freezer
- 中压循环高低温膨胀流程 Medium pressure cycle with warm and cold expansion turbines

流程特点 Process Features

可以单独生产液氧、液氮，也可同时生产液氧、液氮。

Can produce liquid oxygen or liquid nitrogen separately or at the same time.



典型案例 Typical Cases

项目地点 Location	设备型号 Plant Model	用户名称 Client
中国江苏 Jiangsu China	YPON-6450/5200	常熟盈德气体有限公司 Changshu Yingde Gases Co., Ltd.
中国山东 Shandong China	YPON-6000/5500	淄博盈德气体有限公司 Zibo Yingde Gases Co., Ltd.
中国广东 Guangdong China	YPON-6000/5500	珠海盈德气体有限公司 Zhuhai Yingde Gases Co., Ltd.
中国江西 Jiangxi China	YPON-4550/3250	新余中邦工业气体有限公司 Xinyu Zhongbang Industrial Gas Co., Ltd.
中国山东 Shandong China	YPON-4400/4100	莱芜盈德气体有限公司 Laiwu Yingde Gases Co., Ltd.

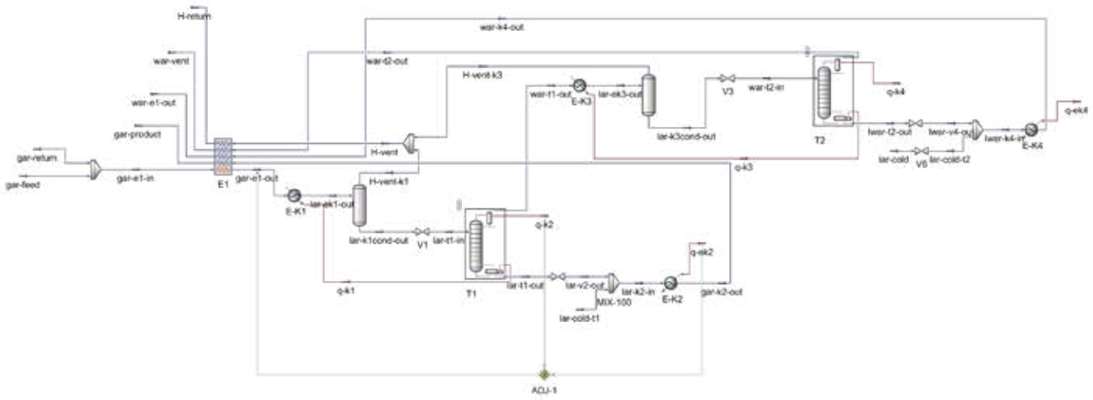
氩回收装置
Argon Recovery Plant

氩回收装置是对氩气进行回收再利用，采用该系列装置是一项降低生产成本，节约能源，提高经济效益的有力措施。

Argon recovery plant is used to recover and reuse argon. And this series of plants can effectively reduce production cost, save energy and improve economic benefits.

- 安全可靠 Safe and Secure
- 纯度更高 High Purity
- 回收率高 High Recovery Rate
- 安装简单 Easy Installation
- 性价比高 Cost-effective

流程特点 Process Features



典型案例 Typical Cases

项目地点 Location	设备型号 Plant Model	用户名称 Client
中国新疆 Xinjiang China	ARR-4500 * 2 Sets	北京晶鸿节能科技有限公司（哈密基地） Beijing Jinghong Energy Conservation Technology Co., Ltd. (Hami)
中国内蒙古 Inner Mongolia China	ARR-4500	北京晶鸿节能科技有限公司（包头基地） Beijing Jinghong Energy Conservation Technology Co., Ltd. (Baotou)
中国内蒙古 Inner Mongolia China	ARR-4300	北京晶鸿节能科技有限公司（包头基地） Beijing Jinghong Energy Conservation Technology Co., Ltd. (Baotou)
中国河北 Heibei China	ARR-1200	河北邢台晶龙新能源有限责任公司 Xingtai Jinglong New Energy Co., Ltd.
中国内蒙古 Inner Mongolia China	ARR-220	中核北方核燃料元件有限公司 China North Nuclear Fuel Co., Ltd.

天然气制氢装置

Natural Gas Hydrogen Production Plant

该技术以天然气为原料，经脱硫、重整、变换及变压吸附提纯，得到合格的产品氢气。

This technology makes pure hydrogen from natural gas (methane) through Desulfurization, Reforming, Shift Conversion and Pressure Swing Adsorption (PSA) purification.

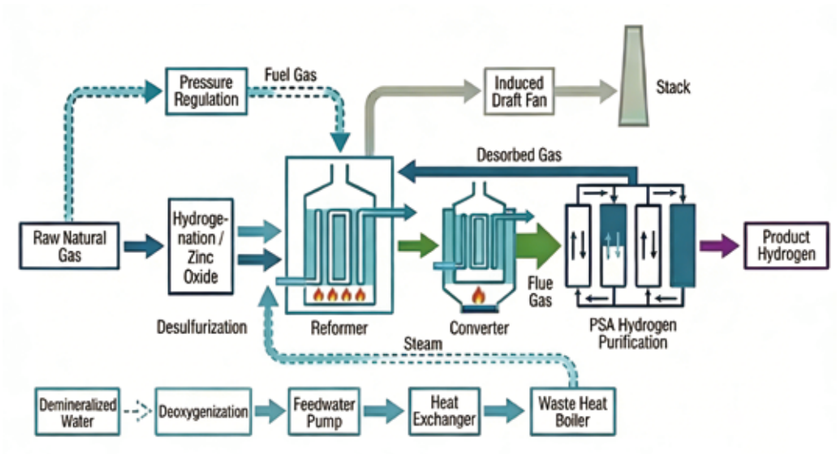
- **流量：100～200,000 Nm^3/h　Flow rate : 100~200,000 Nm^3/h**
  纯度：99% ～ 99.999%　Purity : 99% ~ 99.999%
  压力：0.8 ～2.5 MPa　Pressure : 0.8 ~2.5 MPa

- **技术成熟，运行可靠**
  Mature technology and reliable operation

- **自动化程度高，成本低**
  High degree of automation and low cost

- **PSA解析气及余热回收降低能耗和废气排放**
  The recovery of PSA desorbed gas and waste heat reduces energy consumption and exhaust emissions

流程特点　Process Features



典型案例　Typical Cases

项目地点 Location	设备流量 Plant Capacity	用户名称 Client
中国天津 Tianjin China	2000 Nm^3/h	天津新宇彩板有限公司 Tianjin Xinyu Color Plate Co., Ltd.
中国河北 Hebei China	1200Nm^3/h	霸州市三钢科技有限公司 Bazhou Sangang Technology Co., Ltd.
中国浙江 Zhejiang China	1000Nm^3/h	杭州贝斯特气体有限公司 Hangzhou BestGas Co., Ltd.
中国重庆 Chongqing China	1000Nm^3/h	重庆万达薄板有限公司 Chongqing Wanda Steel Strip Co., Ltd.
中国山西 Shanxi China	700 Nm^3/h	山西建龙实业有限公司 Shanxi Jianlong Industrial Co., Ltd.

甲醇裂解制氢装置

Methanol Cracking Hydrogen Production Plant

甲醇裂解变压吸附制氢技术是一种以甲醇、脱盐水为原料，在一定温度和压力下经催化剂转化成混合气体，然后通过变压吸附提纯氢气的一种技术。

Methanol cracking-pressure swing adsorption hydrogen production is a technology that uses methanol and desalted water as raw materials, converts into mixed gas by catalyst under certain temperature and pressure, and then purifies hydrogen by pressure swing adsorption (PSA).

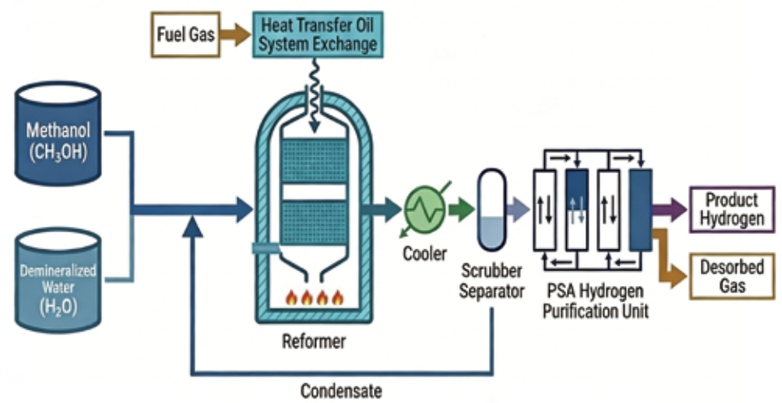
- **流量：30～100,000 Nm^3/h　Flow rate : 30~100,000 Nm^3/h**
  纯度：99% ～ 99.999%　Purity : 99% ~ 99.999%
  压力：0.8 ～2.5 MPa　Pressure : 0.8 ~2.5 MPa

- **技术成熟，运行可靠**
  Mature technology and reliable operation

- **原料运输便利**
  Convenient transportation of raw materials

- **占地面积小，投资低**
  Small footprint and low investment

流程特点　Process Features



典型案例　Typical Cases

项目地点 Location	设备流量 Plant Capacity	用户名称 Client
中国内蒙古 Inner Mongolia China	35000 Nm^3/h	内蒙古庆华集团乌斯太精细化工有限公司 Inner Mongolia Qinghua Group Wusitai Fine Chemical Co., Ltd.
中国山东 Shandong China	8000 Nm^3/h	中国化学工程第十三建设有限公司 No. 13 Construction Co., Ltd. of China National Chemical Engineering Group
中国浙江 Zhejiang China	5000 Nm^3/h	舟山华康生物科技有限公司 Zhoushan Huakang Biotechnology Co., Ltd.
中国河北 Hebei China	350Nm^3/h	唐山瑞丰钢铁（集团）有限公司 Tangshan Reafon Steel (Group) Co., Ltd.
中国湖南 Hunan China	250Nm^3/h	中南大学 Central South University

二氧化碳回收提纯装置

CO_2 Recovery & Purification Plant

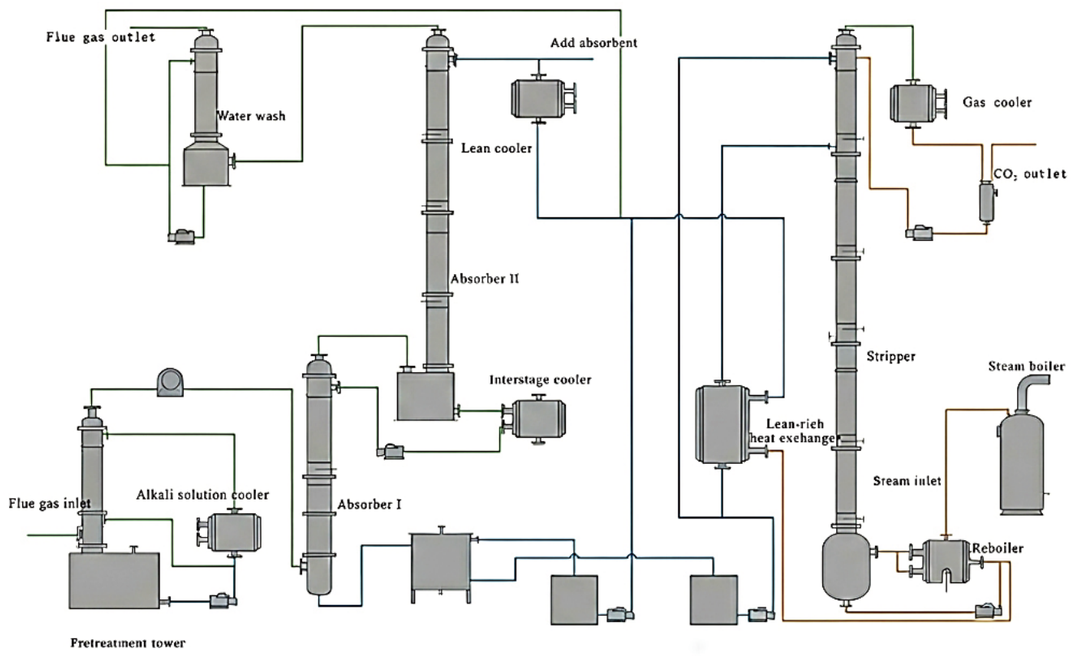
有机胺化学吸收法利用胺溶液在低温下吸收原料气中的二氧化碳，在高温下又逆向解吸出二氧化碳，通过贫富液循环实现二氧化碳的连续分离提纯。

The organic amine chemical absorption method utilizes an amine solution to absorb carbon dioxide from the feed gas at low temperatures and desorb it at high temperatures, achieving continuous separation and purification through a lean-rich solution cycle.

- **纯度：大于99%　Purity : > 99 %**
  二氧化碳捕集率：大于90%　CO_2 capture rate : > 90 %
- **化学吸收法是近阶段大规模烟气CO_2捕集的主要技术路线，技术相对成熟，已有工业示范运行**
  Chemical absorption is the prevailing route for large-scale flue-gas CO_2 capture at present; the technology is relatively mature and has already been demonstrated in commercial-scale operations.
- **吸收速率快，选择性强，效率高**
  Fast absorption rate, high selectivity and efficiency
- **设备简单，投资较低**
  Simple equipment with low capital investment
- **综合能耗低**
  Low overall energy consumption



流程特点 Process Features



Alita 快速部署装置

Alita Rapid Deployment Plant

- **流量：300~3000 Nm^3/h　Flow rate : 300~3000Nm^3/h**

极速部署零等待　Rapid Deployment

出厂已氦检和装填珠光砂，现场免裸冷，节约能耗及调试时间

Factory-completed helium leak detection and perlite filling. Eliminates the need for on-site bare cooldown, saving energy and commissioning time.

独创圆形“微真空冷箱”　Proprietary Circular "Micro-Vacuum Cold Box"

超低冷损，能耗优化

Ultra-low cold loss, optimized energy efficiency









独创全户外仪电控一体柜　Proprietary Outdoor Integrated Instrument and Electrical Control Cabinet

便捷安装，操控灵活

Easy installation, flexible operation

自动切换启用加热器备用芯　Automatic Switching of Backup Heater Core

有备无患，省心安心

Worry-free and at ease

领创自动启用后备制冷压缩机　Pioneering Automatic Activation of Backup Refrigeration Compressor

降低风险，放心运用

Reliable operation with less risk

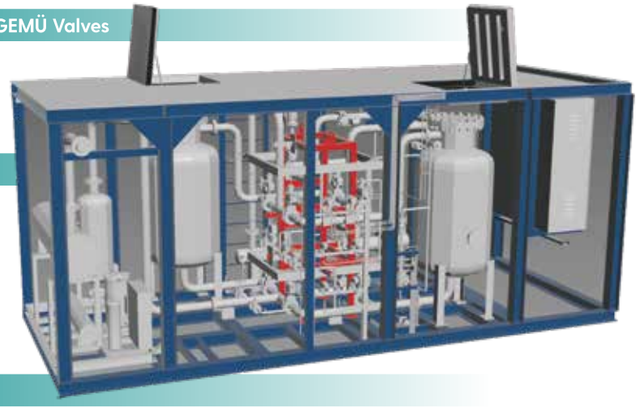
独创艺术化工业设计理念　Innovative Artistic Industrial Design

提升观感，美学精工

Enhanced aesthetics, engineering excellence

核心部件的设计和制造
Design and Manufacturing of Core Components

撬装一体化设计的分子筛纯化系统
Purification System with Skid-mounted Design



美国博雷或德国盖米阀门 US Bray or German GEMÜ Valves

10 万次不泄露，性能可靠，经久耐用

Reliable and durable, withstanding 100 thousand times of open and close without risk of leakage.

铝皮保温 Aluminum Skin Insulation

出厂管道优质铝皮保温，内部采用优质矿渣棉，一次到位，免除了出厂后的保温

High quality aluminum skin insulation is used in ex-factory pipelines with high-quality slag cotton interior; all insulation work is done in workshop with no ex-factory insulation work required.

电控柜 Electric Control Cabinet

模块撬装，仪电控显示，仪表预制完全

Modular skid mounted, instrument & electric control display, fully prefabricated instrument.

三维设计软件 Auto CAD Plant 3D

我司以设计为先导和基础，对工厂模型进行协同设计，从而使设计周期缩短，预制材料现场组装更加精确。

Design is the guide and foundation of all work;
Design lead time can be shortened by collaborations of different disciplines on the plant model;
On-site assembly work will be more accurate via prefabricated materials.



标准化管理制度 Standardized Management System

- 良好的工作环境 Good working environment
- 先进的生产线 Advanced production line
- 遵守工艺规范，确保产品质量 Strictly adhere to process specifications to ensure product quality
- 按标准进行严格操作 Strictly operate as per industrial standards







全自动上料的数控激光切割机 Automatic Feeding CNC Laser Cutting Machine





数控弯管机
CNC Pipe Bending Machine



自动化立体仓库
Automated Storage and Retrieval System (ASRS)

Alita® 天网运维中心

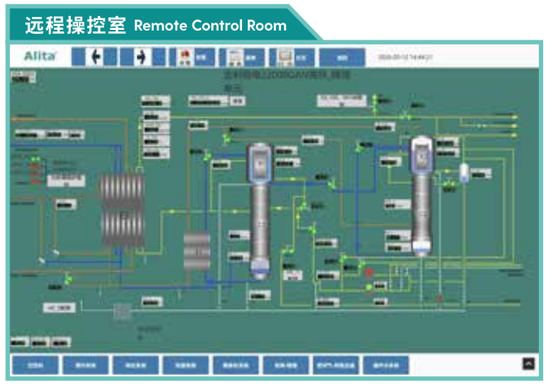
Alita® Remote Control Center

随着近年来互联网、云计算、大数据等新一代信息技术的出现，空分装备自动化技术正向数字化、网络化、智能化发展。目前，工厂综合信息集成平台技术、新一代主控系统技术、远程监控及远程维护技术、大型装备智能故障诊断技术等创新技术已经在国内空分行业取得重大突破，并蓬勃发展。

为此，我们在杭州总部创建了 Alita® 平台，一个管家式的大型空分远程监控及维护诊断中心。该诊断中心由现场控制网、数据采集网、办公局域网三层网络结构组成，实现了空分运行的信息化和网络化，可以为空分装置提供多维度、全生命周期的远程运维服务。

With the rise of IT technologies such as Internet, cloud computing and big data in recent years, the automation technology of ASU is also developing towards digitalization, networking and intelligence. This era has witnessed major breakthroughs and continuous flourishing of new technologies in the domestic ASU industry, such as factory information integration platform, new generation main control system, remote monitoring and maintenance, intelligent fault-diagnosis technology for large equipment etc.

Alita®, a remote monitoring, maintenance and diagnosis center for Large-scale ASU has been established in our Hangzhou headquarters. This integrated data center consists of three layers network structure of on-site control network, data acquisition network and office LAN. It enables the informatization and networking of ASU operation, and it also provides multi-dimensional and life-cycle remote operation & maintenance services for ASU plants.



Control and guidance of plants through Remote Contrli Room

通过远程操控室对设备进行操控和远程指导

Trend View
趋势查看

Alarm Prompt
报警提示

Multi-dimensional
多维度

Life-cycle
全生命周期





工程实绩

Project Reference

湖南白银(中科富海)空分设备 Hunan Fullcryo ASU Plant



江苏海安建荣空分设备 Jiangsu Haian Jianrong ASU Plant



浙江吉利极电高纯氮设备 Zhejiang Jili Jidian Nitrogen Plant





山西一道新能源高纯氮高纯氧设备 Shanxi DAS Solar High Purity Nitrogen and Oxygen Plant





杭州电化液体设备 Hangzhou Electrochemical Liquid ASU



阿根廷液体设备 Argentina Liquid ASU



内蒙古晶澳太阳能氩回收项目 Inner Mongolia JA Solar Argon Recovery Plant



内蒙古庆华甲醇裂解制氢设备 Inner Mongolia Qinghua Methanol Cracking to Hydrogen Plant



山东汇东天然气制氢装置 Shandong Huidong Natural Gas to Hydrogen Plant



陕西国华锦界CO_2捕集装置 Shaanxi Guohua Jinjie CO_2Capture Unit



泰州电厂CO_2捕集装置 Taizhou Power Plant CO_2Capture Unit



我们的脚步

Our Footprint

30+

我们的足迹遍布中国30多个省、市、自治区以及亚洲、非洲、美洲30几个国家。

Our company’ s reach spans across more than 30 provinces, municipalities, and autonomous regions in China, as well as over 30 countries in Asia, Africa, and the Americas.

500+

为海内外的客户提供了超过 500 套装置

Together we have proudly provided over 500 sets of plants to clients both domestically and internationally.

