

Bainasen Technology Company Introduction



Realize energy saving in air processing for **buildings** and **spaces**



- The Cost Of Fossil Fuels Is Rising.
- The Energy Consumption For Air Treatment In Buildings And Spaces Is Extremely High.

Frost-free Cold Storage Fundamentally Solves The Problem Of Cold Storage

In the field frost-free cold storage, Bainesen has conducted long-term research and product development.

Addressing the pain points in cold storage operation—frost formation and energy consumption.

BUAISEN has developed a Frost-free cold storage system to help global users in the food, pharmaceuticals, and other industries overcome frost-related issues.

This system significantly reduces energy consumption at the physical level, reducing the operational energy consumption of cold storage.



In The Future In The Fields Of Residential And Commercial Buildings

In humid environments, over half of the energy consumed by air conditioning is used for dehumidification rather than cooling the air.

Air conditioning accounts for 10% of global energy consumption and 20% of the energy used in buildings.

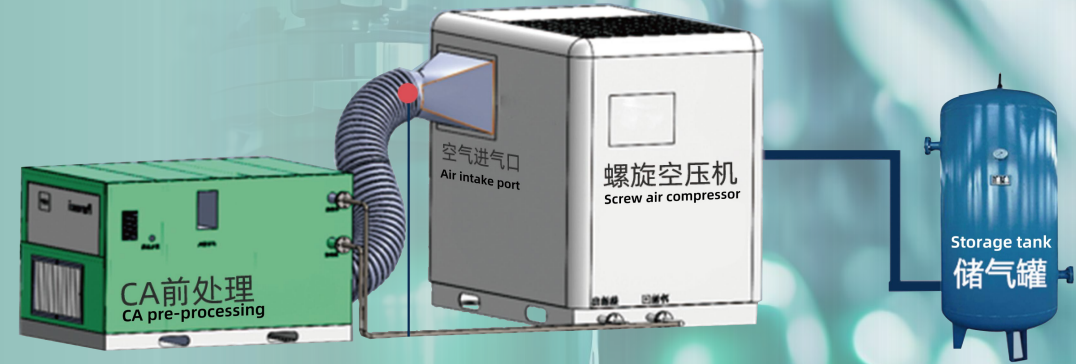
How to make cooling systems more efficient?

BUAISEN integrates with high-temperature chilled water systems(15-20°C), efficiently utilizing both the cooling capacity (15-20°C) and heating capability (40-45°C) of the system.

It fundamentally resolves long-term energy consumption challenges in residential and commercial buildings during summer. The chilled water system can operate at exceptionally high COP(8-11).

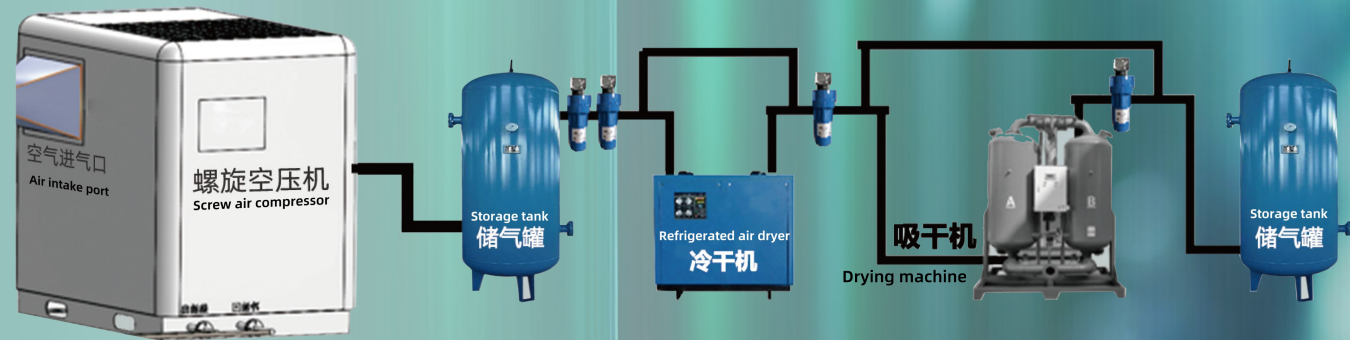


Bainasen Creatively Transforms Post-compression Air Treatment Into Pre-compression Air Processing.



Bainasen's innovative pre-compression air treatment system significantly reduces the intake air's temperature, humidity, and density, enabling:

- Water-free compressor operation
- Elimination of post-treatment systems
- Stable lubrication performance
- Increased air compression capacity
- Substantial energy savings



Scientific Principles And Experimental Matrices

We are based on the underlying air humidity processing technology

Refrigeration Temperature Control Technology
Air fluid control technology
Multivariable logic control system
Calculation and design software
AI remote service and diagnostic software platform

Through integrated solutions to create high efficiency and maximum energy savings for numerous air handling applications and industry fields.

Laboratory

15 Years Of R&D Experience | 7+ Dedicated Research Laboratories

Baikal Lab 1

Applied Engineering Research & Cutting-Edge Development

Solving the Most Critical Challenges for Customers and Industries

Baikal Lab 2

Applied Engineering Research & Cutting-Edge Development

Solving the Most Critical Challenges for Customers and Industries

De-carbon Lab

More Rigorous Testing Process

High-Purity Gas Capture

CO₂

Saver Lab

Higher Efficiency Energy Utilization

Thermo-Hygrometric Dynamic Simulation Model

Antarctic Ocean Lab

Higher-Fidelity Data

Thermo-Hygrometric Dynamic Simulation Model

Disinfection and Sterilization Lab

Higher-Purity Environment

Multi-Zone Air Sanitization Modules & Solutions

Mariana Laboratory

Materials Research & Development and Microstate Engineering

Deep Exploration of Material Properties and Limits

Kilimanjaro Laboratory

Hyper-Realistic Environment

Thermo-Hygrometric Dynamic Simulation Model

Honers And Qualifications

Two global invention patents | Two national standards



知识产权
Intellectual
Property

全球发明专利2项
2 Patents for Inventions

授权实用新型专利35项
35 Patents for Utility Models

PCT专利1项
1 Patents for PTC

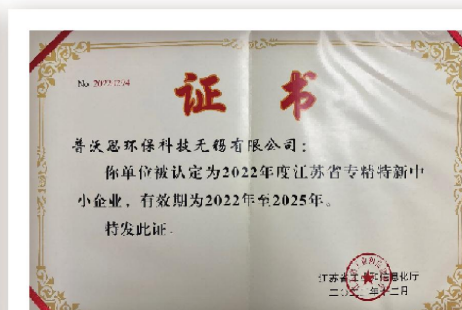
外观专利5项
5 Patents for Models

软件著作权4项
4 Software Copyright

国家标准2项
2 National Standards

团体标准2项
2 Group Standard

高新技术产品8项
8 High-tech Products



资质
Qualifications

专精特新中小型企业
Specialized, Special and New

无锡市科技研发机构
Wuxi Science and Technology R&D Institution

高新技术企业
High-tech enterprises

ISO9001质量管理体系认证证书
ISO9001 Quality Management System Certification

ISO45001职业健康安全管理体系认证
ISO45001 Occupational Health and Safety Management System Certification

ISO14001环境管理体系认证证书
ISO14001 Environmental Management System Certification

知识产权管理体系认证证书
Intellectual Property Management System Certification



World-Class Production Capacity

Annual production capacity: **100,000+**

Factory area: **50,000m²**



Bainasen Gene

Professional investment institutions
+ industry experts
+ Strategic partner

Together constitute



Global service

