



2027 Shanghai International Heat Pump Distillation and Energy Saving Optimization Exhibition

Date: June 3-5, 2027

**Venue: Shanghai New International Expo Centre
Host**

Zhenwei International Exhibition Group Co., Ltd

Supporting Organizations

Russian Chlor-Alkali Industry Association	Hebei Pipeline Equipment Manufacturing Association
Kazakhstan Chemical Industry Union	Jingjiang Pump & Valve Industry Chamber of Commerce
Kazakhstan Oil Enterprise Service Association	Nanjing Energy Saving & Environmental Protection Industry Association
Egyptian Plastics Export & Manufacturing Association	Jiaxing Port Area Environmental Protection Association
Shanghai Chemical Industry Association	Jiaxing Port Area Petroleum & Chemical Industry Association
Shanghai Coatings & Dyes Industry Association	Jiaxing Port Area Special Equipment Safety Management Association
Shanghai New Materials Association	Ningbo Rubber Chamber of Commerce
Shanghai Instrument Industry Association	Wenzhou Pipe Fitting Industry Association
Shanghai Energy Conservation Association	Wenzhou Wanzhou Chamber of Commerce
Jiangsu Valve Industry Association	Wenzhou Food & Pharmaceutical Machinery Industry Association
Jiangsu Petrochemical Equipment Industry Association	Huizhou Petroleum & Chemical Industry Association
Shandong Chemical Information Association	Xinxiang Vibration Engineering Society
Shandong Chlor-Alkali Industry Association	Xinxiang County Vibration Machinery Industry Association
Shandong Daily Chemical Industry Association	Dongying Special Equipment Association



Organizer

Guangzhou Zhenwei International Exhibition Co., Ltd.

【RMB 2 Trillion Blue Ocean: Heat Pump Distillation Becomes a Must for Chemical Green Transformation】

Guided by the "Dual Carbon" goals, heat pump distillation and energy-saving optimization technology is becoming the core driver of the chemical industry's green transformation. In 2024, six ministries including the National Development and Reform Commission jointly issued the "Action Plan for Promoting High-Quality Development of the Heat Pump Industry," explicitly listing heat pump technology as a key energy-saving equipment and setting the goal of achieving independent and controllable heat pump supply chains and full coverage of application scenarios by 2030, providing top-level policy support for industrial heat pump applications.

As the world's largest producer, China has built a complete heat pump supply chain, and demand for industrial heat pumps in energy-intensive industries such as chemicals and pharmaceuticals continues to rise—the global potential market is expected to exceed RMB 2 trillion by 2030. The chemical industry, with its waste heat recovery needs in distillation and drying, has become a key growth market for heat pump energy-saving technology. Heat pump distillation is shifting from an "optional solution" to a "must-have," providing a deterministic pathway for chemical enterprises to reduce energy consumption by 30%-70% and cut carbon emissions.

【Gathering Leaders in Heat Pump Distillation Equipment, Presenting Full-Chain System Solutions】

The 2027 Shanghai International Heat Pump Distillation and Energy Saving Optimization Exhibition, as a featured themed exhibition of the

"2027 China International Chemical Technology and Equipment Fair," is hosted by Zhenwei International Exhibition Group Co., Ltd. and supported by multiple industry associations including the Shanghai Chemical Industry Association, Shanghai Coatings & Dyes Industry Association, and Shanghai New Materials Association. The exhibition will be held June 3-5, 2027 at the Shanghai New International Expo Centre, with an expected exhibition area of over 70,000 square meters, gathering over 1,000 renowned enterprises from more than 20 countries and regions worldwide, and attracting over 100,000 professional visitors.

To date, the exhibition has attracted leading domestic and international enterprises including Disney Co., Iceberg Cooling, Shaangu Power, Piller (Germany), Hebei Leheng, Shanghai Minjie, Zhejiang Tianlian, Yinlun Co., Hiconics, Tianhao Energy Saving, Dewert Turbine, Tianrui Heavy Industry, Shandong Henghui, Shandong Tuodun, Ningbo Lehui, Lanwang Energy Saving, Huannuo Energy, Hedun Environmental, Weihai Runlan, Anhui Ruitike, Datong Baofu, SWEP, Wuxi Jialong Electromechanical, Hairun Environmental, Haomu Energy Saving, Jiangsu Feiyue, Maande Energy Saving, Jiema Energy Saving, Huashijie Environmental, Yuanfang Power, Ruidin Environment, Boxu New Energy, and others—showcasing full-chain innovation achievements across heat pump units and system integration, heat exchange and evaporation/crystallization equipment, key components and specialty materials, manufacturing/inspection and intelligent control, and energy-saving optimization and supporting services.

【Precisely Inviting Professional Visitors, Covering Core Application Sectors】

The organizer precisely grasps exhibitor needs, locks in key industries, and organizes core buyer groups. Through multiple channels including phone, email, SMS, online promotion, self-media, big-data marketing, media releases, ground promotion, on-site visits, domestic and international

exhibition participation, conference sponsorship, media cooperation, and industry association partnerships, comprehensive professional visitor invitations are conducted to effectively guarantee exhibition results.

Petroleum and coal chemical: ExxonMobil, Rongsheng Petrochemical, Hengli Petrochemical, Shell, Saudi Aramco

New chemical materials: Covestro, Wanhua Chemical, BASF, Huntsman, Dow Chemical

Pharmaceuticals and biomanufacturing: Asymchem, United Laboratories, CSPC Pharmaceutical, Bloomage Biotech, COFCO Technology

New energy and electronic chemicals: LG Chem, Gotion High-tech, Huayou Cobalt, Xiamen Tungsten New Energy, Shida Shenghua

Environmental resource recovery: Dongjiang Environmental, GaoNeng Environment, Zhenfu Holdings, Feinan Resources, GEM

Chemical design institutes and EPC contractors: Wood China, TOYO Engineering (Shanghai), Linde Asia Pacific Engineering, China Tianchen Engineering, Saiding Engineering

Chemical parks and EMC energy-saving services: Shanghai Chemical Industry Park, Shanghai Jinshan Carbon Valley Lvwan Economic Park, China New Chemical Materials (Jiaxing) Park, Ningbo Petrochemical Development Zone, Jiangsu Huaian Industrial Park

【High-End Industry Summits, Empowering Industry Development】

Linking global chemical equipment, accelerating domestic and international trade, and building the industry of the future. CTEF2027 features 10+ high-end forums and themed events across specialized sectors, focusing on core chemical energy-saving processes, green chemical cutting-edge technologies and intelligent manufacturing implementation pathways.

We invite national ministry leaders, CAS/CAE academicians, top university professors, industry association authorities, as well as international chemical leaders and domestic backbone equipment enterprise representatives to gather on site. Through three core formats—policy trend interpretation, hard-core technical discussions, and benchmark case sharing—we directly address industry pain points and deliver actionable systematic solutions for high-quality industry development.

◆ China International Chemical Technology and Equipment Innovation and Development Conference

◆ 2027 China Heat Pump Distillation and Energy-Saving Optimization Technology Application and Innovation Forum

◆ 2027 Chemical Enterprise Intelligent O&M and Energy Efficiency Improvement Seminar

◆ 9th Chemical Wastewater Advanced Treatment and Resource Utilization Technology Seminar

◆ 2027 Chemical Material Handling and Conveying Technology Application and Innovation Forum

◆ CTEF2027 International Procurement Matching Meeting

◆ Overseas Chemical Enterprise Procurement Exchange Matching Day

◆ Provincial/Municipal International Procurement Matching Sessions

◆ Local Government Investment Promotion Special Briefing

◆ 4th China Chemical Technology and Equipment Golden Gear Award Ceremony

※ Partial forum schedule

【2027 China Heat Pump Distillation and Energy-Saving Optimization Technology Application and Innovation Forum】

The forum will invite academicians, experts and technical leaders from the Chinese Academy of Sciences, Chinese Academy of Engineering, Tsinghua University, Tianjin University, Zhejiang University, China Energy Conservation Association Heat Pump Professional Committee, Chemical Industry Energy Conservation Professional Committee of the Chemical Industry and Engineering Society of China, China General Machinery Industry Association Heat Pump Branch, as well as heat pump and chemical industry leaders including Haier, Highly, Binglun Environment, Shenling Envicool, Nuent, to deliver keynote reports, promoting the deep integration and industrial implementation of heat pump energy-saving technology with chemical distillation processes. Through cutting-edge technology sharing and in-depth industry dialogue, the forum will build a high-end industry-academia-research-application integrated exchange platform for heat pump distillation and energy-saving optimization, accelerating the transformation of innovation results into productive forces for the chemical industry's green transformation.

Specialized discussion sessions:

Heat pump system efficiency improvement and engineering application

Low-grade waste heat recovery and heat pump coupling technology

Heat pump carbon reduction pathways under carbon neutrality

New heat pump equipment and adaptation to specialty chemical operating conditions

Industrialization challenges and solutions for heat pump technology

【Omni-Media Matrix Promotion, Enhancing Exhibitor Brand Influence】

Over 100 domestic and international mainstream and professional media including People's Daily Online, Xinhua Net, CCTV.com, China News Service, China Economic Net, Science and Technology Daily, Process Industry, American Chemical Net, Chemical 707, Haichuan Chemical, Evaporation Crystallization Net, GuideChem, China Chemical Instrument Net, will provide full-coverage reporting of the exhibition, helping exhibitors promote their corporate brands and enhance their reputation.

■ If you are a supplier of the following products and services, please book your booth now:

Heat Pump Units and System Integration

- Industrial heat pump units: high-temperature vapor compression heat pumps, absorption heat pumps, magnetic bearing centrifugal heat pumps, air-source/ground-source/water-source industrial heat pump units.
- Heat pump distillation integrated systems: MVR distillation systems, heat pump-multi-effect distillation coupling units, azeotropic distillation heat pump energy-saving systems, skid-mounted heat pump distillation complete equipment.

Heat Exchange and Evaporation/Crystallization Equipment

- High-efficiency heat exchange equipment: plate/shell-and-tube/spiral plate heat exchangers, microchannel heat exchangers, graphite/titanium/zirconium corrosion-resistant heat exchangers, falling film evaporators/reboilers/condensers.
- Evaporation crystallization systems: MVR mechanical vapor recompression evaporation crystallization systems, external heating/forced

circulation evaporators, vacuum crystallizers/OSLO crystallizers, high-salinity wastewater zero-discharge evaporation systems.

Key Components and Specialty Materials

- Heat pump core components: high-pressure ratio centrifugal compressors/screw compressors, high-temperature electronic expansion valves/corrosion-resistant valves, high-efficiency heat exchange tubes/corrugated tubes/threaded tubes.
- Power and transmission equipment: Roots blowers/centrifugal fans, industrial PCs and PLC control systems, variable frequency technology and drive systems.
- Specialty materials and accessories: titanium/Hastelloy/duplex stainless steel materials, fluoroplastic-lined anti-corrosion equipment, high-performance sealing and insulation materials.

Manufacturing, Inspection and Intelligent Control

- Manufacturing and processing equipment: laser welding equipment/automatic tube expander, tube end forming machines/tube benders, automated heat exchanger production lines.
- Inspection and monitoring systems: online performance monitors (real-time COP monitoring), PHM fault prediction and health management systems, sealing performance test benches.
- Intelligent control systems: heat pump distillation AI energy-saving controllers, multi-variable predictive control algorithm modules, cloud-edge collaborative energy efficiency management platforms.

Energy-Saving Optimization and Supporting Services

- Waste heat recovery systems: low-grade waste heat upgrading heat pump systems, flue gas/wastewater deep waste heat recovery units, phase change energy storage tanks/high-temperature heat storage systems.

- Environmental synergistic equipment: wastewater treatment and reuse units, falling film condensate recovery systems, online carbon emission monitoring systems.
- Engineering service solutions: thermal energy system optimization design services, energy-saving retrofitting and energy performance contracting, full-lifecycle O&M support.