



逆势增长 | 粤东冷链产业整合和升级技术研讨会

Eastern Guangdong Cold Chain Logistics Industry Integration and Upgrade Technical Workshop

2019年8月23日 中国·汕头

August 23, 2019 Shantou, Guangdong

联合举办

美国贸易发展署
美国驻广州总领事馆商务处
广东省冷链协会

承办及协办单位

汕头市制冷行业协会 | 广东南方冷链物流发展促进中心
美国国家标准化协会

支持企业:

约克(中国)商贸有限公司 | 惠众达(深圳)实业有限公司
科朗叉车商贸(上海)有限公司 | 益美高(上海)制冷设备有限公司
福德泰克(北京)工程技术咨询有限公司

Organizers

U.S. Trade and Development Agency
Foreign Commercial Service, U.S. Consulate in Guangzhou
Guangdong Cold Chain Association

Co-organizers

Shantou Cold Chain Association | Southern China Cold Chain & Logistics Development Center
American National Standards Institute

Supporting Organizations

York (China) Commercial Co., Ltd. | Huizhongda (Shenzhen) Industry Company
Crown Lift Trucks Commercial (Shanghai) Co., Ltd. | Evapco (Shanghai) Refrigeration Equipment Co., Ltd.
Food Tech Inc



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Agenda

会议议程



Agenda

Eastern Guangdong Cold Chain
Logistics Industry Integration and Upgrade Technical Workshop
August 23, 2019 | Shantou, Guangdong Province

Venue: Shantou International Hotel
No. 52 Jinsha Road, Jinping District, Shantou, Guangdong Province

9:00am-9:30am	Guest Registration
9:30am-10:05am	Welcome remarks <i>Reinaldo J. Garcia, Commercial Officer, U.S. Consulate General in Guangzhou</i> <i>Jian Huali, Founding President, Guangdong Cold Chain Association</i>
10:05am-10:35am	Introduction of safe management of refrigeration <i>Weng Dongsheng, President, Shantou Refrigeration Industry Association</i>
10:35am-10:45am	Coffee break
10:45am-11:15am	Refrigeration technology and case study <i>Herbert Tang, Johnson Controls – York (China) Commercial Co., Ltd.</i>
11:15am-11:45am	Problems, reform activities and current state of ammonia storage <i>Chen Kuntang, Senior Engineer</i>
11:45am-12:00pm	Q&A
12:00pm-12:10pm	Group photo
12:10pm-13:15pm	Lunch
13:30pm- 15:30pm	Site visit to local cold chain companies



粤东冷链产业整合与升级技术研讨会 活动日程

时间：2019年8月23日 上午9:00 – 下午15:30
地点：广东省汕头市金平区金砂路52号 汕头国际大酒店

- 9:00 – 9:30 会议签到
- 9:30 – 10:05 欢迎致辞
美国驻广州总领事馆商务处商务领事 葛瑞南
广东省冷链协会创会会长 李健华
- 10:05 – 10:35 冷库安全管理重在规范
汕头市制冷行业协会会长 翁冬生
- 10:35 – 10:45 茶歇
- 10:45 – 11:15 约克冷冻技术特点及典型用户分享
约克（中国）商贸有限公司系统应用工程师 唐恒博
- 11:15 – 11:45 近年氨库存在的问题及整改过程和现状
高级工程师 陈鸱棠
- 11:45 – 12:00 互动环节
- 12:00 – 12:10 参会者集体合影
- 12:10 – 13:15 午餐
- 13:30 – 15:30 实地考察当地冷链企业

Hosts and Supporting Agencies Overview

主办单位介绍

(排序不分先后)



U. S. Trade and Development Agency (USTDA)

The U.S. Trade and Development Agency (USTDA) has the mutually beneficial mission of linking U.S. businesses to export opportunities by funding project preparation and partnership building activities that develop sustainable infrastructure and foster economic growth in partner countries.

USTDA promotes economic growth in emerging economies by facilitating the participation of U.S. businesses in the planning and execution of priority development projects in host countries. The Agency's objectives are to help build the infrastructure for trade, match U.S. technological expertise with host country development needs, and help create lasting business partnerships between the United States and emerging economies.

USTDA's Program Activities

Project Development

Project identification and investment analysis generally involve technical assistance, feasibility studies and pilot projects which support large investments in infrastructure contributing to host country development. USTDA's program in China includes the transportation, energy, agriculture, and healthcare sectors.

Trade Capacity Building and Sector Development

Trade capacity building and sector development assistance support the establishment of industry standards, rules and regulations, market liberalization and other policy reform. In China, USTDA has supported activities to enhance the protection of intellectual property rights, fair and transparent government procurement practices, science-based agricultural biotechnology regulations, and standards across a range of sectors.

Cooperation Programs

USTDA's success in China is due in large part to the public-private cooperation programs that the Agency supports in-country. These programs provide a forum for government agencies and private companies from both countries to share technical, policy, and commercial knowledge to advance shared goals. USTDA has successfully established programs based on this model in the aviation, energy, healthcare, and agriculture and food sectors.

By adapting to the evolving needs of China's market and closely coordinating with decision-makers in both countries, these public-private partnerships have achieved long-term success, providing continued trade opportunities.

Reverse Trade Missions

Through the Agency's reverse trade missions (RTMs), USTDA has increased its support for programs designed to bring procurement officials to the United States to witness U.S. technologies, equipment, and ingenuity firsthand. These visits also facilitate new partnerships with U.S. companies needed to spur commercial cooperation. Related, USTDA also supports technology demonstrations, training, and specialized sector-specific workshops and conferences.



美国贸易发展署 (USTDA)

美国贸易发展署(USTDA) 致力于在新兴经济体推动经济发展和美国的商业利益。美国贸易发展署通过对项目前期，试点项目以及反向代表团赴美考察等形式的资金资助，达到在合作伙伴国家推动可持续性基础设施和经济增长的同时帮助美国企业寻找出口机会。

美国贸易发展署鼓励美国公司积极参与新兴经济体项目所在国重点发展领域里的项目规划和实施过程中的机会。目的是帮助美国有技术优势的公司配合项目所在国的发展寻求契机，并建立长期持久合作关系。

美国贸易发展署的项目活动

项目开发

美国贸易发展署支持的项目确认和投资分析通常为了支持项目所在国大型基础设施项目投资决策前以所需要的技术援助，可行性研究分析和试点项目等。在中国的项目集中在交通，能源和医疗卫生领域。

能力建设和行业发展

能力建设和行业发展是为了帮助推动建立行业标准，法规等相关政策需求的活动。在中国，美国贸易发展署支持过的项目内容涉及知识产权，公平透明政府采购，以科学为基础的农业生物技术规范，以及涉及其他更宽泛领域涉及行业标准的内容。

国际商业伙伴关系项目

通过国际商业伙伴关系项目，美国贸易发展署加大资金投入力度，组织更多灵活多样的赴美考察团，技术交流/研讨会和培训等，选择特定的一些行业，帮助中方人员了解美国技术，掌握第一手资料，加深对美国企业的了解并能推动潜在的商务合作。

政府企业合作平台

美国贸易发展署在中国取得成功的部分原因是与其他相关机构共同支持了政府企业合作项目的平台。在这个平台上，美国和中国的政府机构和私营企业均可以共享在特定领域的技术、政策和商业知识。美国贸易发展署已经成功地在航空、标准合格评定、能源和医疗保健等行业推动了该模式。

通过适应中国市场变化的需求，和中国决策者的密切配合，这些公私伙伴关系企业积累了一些长期合作的成功经验，提供持续的贸易机会，并推动中国支柱产业的发展。



U.S.-China Standards and Conformity Assessment Cooperation Program

Sponsored by the U.S. Trade Development Agency (USTDA) and coordinated by the American National Standards Institute (ANSI), the U.S.-China Standards and Conformity Assessment Cooperation Program (SCCP) provides a forum through which U.S. and Chinese industry and government representatives can:

- Cooperate on issues relating to standards, conformity assessment, and technical regulations;
- Foster the relationships necessary to facilitate U.S.-China technical exchange on standards, conformity assessment, and technical regulations; and
- Exchange up-to-date information on the latest issues and developments relating to standards, conformity assessment, and technical regulations.

In 2018, ANSI will coordinate 20 workshops over a 3-year period in China under Phase V of the SCCP. The workshops will cover a wide range of sectors, as proposed by interested U.S. private-sector organizations. Workshop topics will be chosen in coordination with relevant industry associations, ANSI, and USTDA.

To learn more about the U.S.-China SCCP or to express interest in sponsoring or participating in a workshop, please visit our website at:

www.standardsportal.org/us-chinasccp

FOR MORE INFORMATION

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中美标准与合格评定合作项目

由美国贸易发展署 (USTDA) 提供资助、美国国家标准化机构 (ANSI) 负责协调的中美标准与合格评定合作项目 (SCCP) 在以下几个方面 为中国和美国的相关行业和政府代表提供了一个论坛:

- 标准、合格评定以及技术法规等领域的合作;
- 为促进中美在标准、合格评定以及技术法规等领域的技术交流建立必要的联系;
- 及时交流关于标准、合格评定以及技术法规等领域的最新议题和发展情况的相关信息

未来三年, ANSI 将在中国协调举办 20 场研讨会。根据美国民间业界相关机构组织的建议, 研讨会内容将覆盖不同的行业和领域。研讨会的主题将由相关行业组织、ANSI 以及 USTDA 协调选定。欲了解该项目的更多情况或有意赞助或参与该项目, 请访问下列网站:

www.standardsportal.org/us_chinascpp

欲了解其他信息, 请联系

Mr. Henry Yuan

项目经理

美国国家标准化机构 (ANSI)

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American National Standards Institute (ANSI)

As the voice of the U.S. standards and conformity assessment system, the American National Standards Institute (ANSI) empowers its members and constituents to strengthen the U.S. marketplace position in the global economy while helping to assure the safety and health of consumers and the protection of the environment.

The Institute oversees the creation, promulgation and use of thousands of norms and guidelines that directly impact businesses in nearly every sector: from acoustical devices to construction equipment, from dairy and livestock production to energy distribution, and many more. ANSI is also actively engaged in accrediting programs that assess conformance to standards – including globally-recognized cross-sector programs such as the ISO 9000 (quality) and ISO 14000 (environmental) management systems.

ANSI has served in its capacity as administrator and coordinator of the United States private sector voluntary standardization system for the past hundred years. Founded in 1918 by five engineering societies and three government agencies, the Institute remains a private, nonprofit membership organization supported by a diverse constituency of private and public sector organizations.

Throughout its history, ANSI has maintained as its primary goal the enhancement of global competitiveness of U.S. business and the American quality of life by promoting and facilitating voluntary consensus standards and conformity assessment systems and promoting their integrity. The Institute represents the interests of more than 270,000 companies and organizations and 30 million professionals worldwide through its office in New York City, and its headquarters in Washington, D.C.



美国国家标准协化机构（ANSI）

作为美国标准和合格评定体系的发言人，美国国家标准化机构授权其会员强化美国市场在全球经济中的地位，同时协助保障消费者的安全和健康以及环境保护事宜。

机构对数以千计的标准和指导方针的制定、颁布、实施进行监督，而这些标准和指导方针几乎直接影响商业的每个领域：从声呐设备到建筑设备，从乳制品及家禽产品到能源分配等等。美国国家标准化机构也积极参与评估合格到标准的委托项目——包括诸如 ISO9000(质量)和 ISO14000（环境的）管理系统等全球认可的跨领域项目。

在过去的一个世纪中，美国国家标准化机构担任美国私营部门自愿性标准化体系的管理者及协调者。自 1918 年由五家工程师协会和三个政府部门成立以来，本机构一直是一个民间、非营利性质的会员制组织，得到来自私营和公共部门的多元化支持。

纵观历史，美国国家标准化机构的首要目标一直是强化美国商业的全球竞争力，通过推进自愿性标准及合格评定体系并对它们进行完善从而提高美国人民的生活质量。机构总部设在华盛顿特区，并在纽约设有办公地点，代表全球超过 27 万家公司及组织和三千万专家的利益。



Guangdong Cold Chain Association (GDCCA)

Guangdong Cold Chain Association (GDCCA) was founded in January 2016. Since its establishment, we have made a very successful effort for the rapid development of cold chain supply chain. The achievements we made have been widely recognized by the membership enterprises, Industry Authorities, the government functional departments and relevant institutions domestic and oversea. Meanwhile, our self-construction has also developed very rapidly.

Members in Association

The members in GDCCA include the cold storages, the 3rd party cold chain logistics, production process, import trade, distribution agents, retail terminal, cold chain equipment, and relevant service, etc.

And, with products cover full category circulation in the cold chain. Such as vegetables, fruits, meats, eggs, poultries, aquatic products, frozen processed food, package cooked food, ice cream and dairy products, fast food group meal ingredients, flower products, medicine...

Main Achievements

1. Promoting Industry Standardization

In 2017 ~ 2018, GDCCA took the lead to formulate below projects:

- Specification of Safety Management for Cold Storage.
 - A request of Cold Chain Logistics Management for Cross-Border E-Commerce
- Both of the above documents were passed by the Experts Review Committee and would be published soon.
- Monitoring and Management of Refrigerated Trucks – it's scheduled to be completed by end of 2019.

At present, the GDCCA has obtained the group standard qualification. We are the first implementing unit identified by the Guangdong Commercial Dept. to set up standard projects for the Great Bight District of Canton, Hong Kong, and Macao.

2. Information Management and Industry Statistics

The Guangdong Cold Chain Public Service Management Platform was formally launched in 2018. It's a 3rd party integrated service platform with 143 enterprises entered, 1419 refrigerated trucks under the real-time monitor, 95 on-line cold storages. It's the only provincial cold chain platform identified by the Guangdong Commercial Bureau, which could dock data with the National cold chain circulation platform of agriculture products.

3. Industry Activities

The GDCCA has hosted industry theme conferences and related activities, such as:

- Meeting Business Opportunities, Breakthrough of Cold Chain Logistics
- Collect Cold Chain Elites, Develop Cold Chain Economy, Helps Ease Canton to Rise Rapidly
- The Summit of Guangdong Cold Chain Distribution

- Guangdong Intelligent Cold Chain Logistics Industry Conference
- New period, New Cold Chain, New Direction
- New Age of Wisdom, New Journey for Cold Chain
- Exchange Meeting on New Electric Device for Refrigeration System of Refrigerated Trucks

In order to introduce the advanced cold chain technology and service standard abroad, we have hosted below activities as well.

- Meeting of Sino-US Cold Chain Industry
- Exchange Meeting on Sino-US Logistics Supply Chain System Exploration
- Friendship Seminar on Best Standard for Cold Chain Operation
- Centennial Excellence, Reliance Inheritance, Road Show of Johnson Controls York Food Freezing Series in 2018.

4. International Intercourse

GDCCA has established regular contact with many business institutions of countries and areas.

Including:

- Commercial Office of US Consulate General in Guangzhou
- Agriculture Trade Office of the US Consulate General in Guangzhou
- Commercial Office of Canadian Consulate General in Guangzhou
- International Trade Investment Office of BC in Canada
- Commercial Office of Chilean Consulate General in Guangzhou
- Economic and Commercial Office of Spanish Consulate General in Guangzhou
- Australian Trade Commission
- Commercial Office of Brazilian Consulate General in Guangzhou
- Guangzhou Representative Office of Japan Trade Promotion Agency

We have co-operated with them in many aspects such as trade circulation, business promotion, and business inspection. With an advantage in external relations, we organize the enterprises and members to investigate and visit abroad perennially.



广东省冷链协会（GDCCA）

广东省冷链协会（Guangdong Cold Chain Association，缩写 GDCCA）于 2016 年 1 月成立。为推进广东冷链产业化发展，特别是冷链供应链快速发展作了大量卓有成效的工作，受到广大会员企业，行业主管部门、政府职能部门和海内外有关机构的广泛认同，自身建设也得到较快发展。

协会会员

会员企业涵盖冷库、第三方冷链物流、生产加工、进口贸易、经销代理、零售终端、冷链设备和服务等多个领域，会员企业服务产品覆盖蔬菜、水果；肉、禽、蛋；水产品；加工食品速冻食品；禽、肉、水产等包装熟食；冰淇淋和奶制品；快餐团膳原料；花卉产品；药品等冷链流通全品类。

协会主要业绩

一、推动行业标准化

2017-2018 年，广东省冷链协会牵头制定《冷库安全管理规范》、《跨境电商冷链物流管理要求》、《冷藏车监控管理》等 3 项标准已经立项。其中，《冷库安全管理规范》、《跨境电商冷链物流管理要求》已经获得专家评审会通过，即将公开发布。《冷藏车监控管理》标准计划于 2019 年底完成。

目前，协会已获得团体标准资质备案，具备制订团体标准的资格，并成为广东省商务厅认定粤港澳大湾区首个标准项目的实施单位。

二、信息化管理与行业统计

2018 年，广东冷链公共服务管理平台正式上线，定位为第三方综合服务型管理平台。目前平台已进驻企业 143 家，实时监控冷藏车 1419 辆，在线冷库 95 个，是广东省商务厅唯一认可数据对接国家商务部全国农产品冷链流通监控平台的省级冷链平台。

三、行业活动

协会先后主办“遇见商机·冷链物流突围之路”、“集结冷链精英 发展冷链经济 助力粤东腾飞”、“广东冷链配送高峰论坛”、“广东智慧冷链物流产业大会”、“新时期·新冷链·新导向”、“智慧新时代，冷链新征程”、“冷藏车制冷系统电装新品交流会”等行业主题会议。

协会积极引进国外先进冷链技术及服务标准，举办“中美冷链产业链”会议、“中美物流供应链体系探索交流会”、“冷链操作最佳标准的联谊讨论会”、“百年精湛-信赖传承—2018 年江森自控约克食品冷冻系列路演活动”等活动。

四、国际交往

协会与美国驻广州总领事馆商务处、美国驻广州总领事馆农业贸易处、加拿大驻广州总领事馆商务处、加拿大 BC 省国际贸易投资办公室、智利驻广州总领事馆商务处、西班牙驻广州总领事馆经济商务处、澳大利亚贸易委员会、巴西驻广州总领事馆商务处、日本贸易振兴机构广州代表处等国家和地区的商务机构建立了经常性联系，双方在中外两地商贸流通交流、业务拓展、商务考察等多方面进行合作。协会还发挥对外联系优势，常年组织企业和会员赴国外考察和访问。



U.S. Commercial Service China

The U.S. Commercial Service China assists U.S. companies with U.S. exports to China, emphasizing help for U.S. SMEs. We have seven offices in China- Beijing, Shanghai, Shenyang, Chengdu, Wuhan, Guangzhou, and Hong Kong – offerings customized solutions to help U.S companies enter and expand in the China market.

The U.S. Commercial Service is one of the eight trade-related bureaus represented in the Embassy's Commercial Section. The U.S. Commercial Service is the trade promotion arm of the U.S. Government, our main objectives is promoting U.S. exports, encouraging foreign investment into the U.S., and protecting U.S. business interests. By facilitating exports of U.S. products to China we also are fostering easier access to U.S. products and services for Chinese buyers.

In addition to our strong presence in China, we have offices in 76 other countries around the world and over 100 offices - U.S. Export Assistance Centers, or USEACS – throughout the U.S. The USEACs serve as convenient contact points for U.S. companies looking to export. Our U.S. and China offices work closely to help U.S. companies understand their products' potential in China, and to introduce appropriate Chinese buyers and partners. Our services cover many areas, including:

- 1) Business consulting and advocacy - CS staff in the U.S. and China counsel U.S. clients daily on issues such as market sector growth and potential, industry standards, IPR protections, and market entry barriers. Moreover, we help companies that face trade disputes, non-payment issues, and regulatory anomalies. We also advocate for U.S. companies competing for foreign government contracts.
- 2) International partnering - We understand that one of the biggest hurdles U.S. companies face when doing international business is locating an appropriate, reliable and honest partner with whom to work. Whether it is a distributor, sales representative or customs agent, we help U.S. companies find the right partner in China. Our trademark Gold Key Matching Service introduces U.S. companies to these potential Chinese partners. To help U.S. companies export we also have other services, that include tailored marketing facilitation and due diligence on potential partners.
- 3) Trade events - International trade shows provide an excellent platform to introduce U.S. suppliers to foreign buyers. CS staff facilitates U.S. exhibitors at trade shows around the world to meet with foreign buyers attending the show. In addition, we organize a number of industry-specific trade missions every year, bringing delegations of U.S. companies to China and other countries around the world to get a first-hand look at the local market and meet key industry players.
- 4) Assistance to Chinese companies — We also provide help to Chinese buyers looking to source quality U.S. products and services. Our Access America program provides Chinese companies looking to do business in America easy access to U.S. services. Through this program, U.S. service providers are listed in a directory, posted in Chinese on the CS China website. These listings provide a great resource for Chinese firms seeking to sell to, or invest in, in the U.S.



美国驻华使领馆商务处

美国驻华使领馆商务处旨在协助美国公司与中国贸易。商务处在中国共有七个办公室，分别是：北京、上海、沈阳、成都、武汉、广州和香港。他们负责为美国公司进入、拓展中国市场提供具体方案。

美国商务部驻外商业服务处是美国使馆商务处所代表的八个有关贸易的单位之一。美国商业服务处是美国政府的贸易促进机构。主要工作目的是促进美国的出口，帮助和吸引外资，保护美国企业在海外的利益。在协助美国对华出口的同时，我们也帮助中国买家了解和接触美国的产品和服务。

在中国以外，美国商务部在世界的 76 个国家和地区的使领馆设有海外商务处，和遍及美国各地的 100 余个美国出口服务中心办公室。这些办公室为美国公司寻求出口商机提供方便、直接的服务。我们在中美两地的办公室密切合作，共同帮助美国公司了解、分析中国市场对其产品的需求，介绍合适的中国买家、商业合作伙伴等。我们的服务种类多，范围广，包括：

1) 商务咨询和支持-我们的商务专家们在中美两地为美国公司提供日常咨询服务，包括各地、各类市场的增长速度、发展潜力、行业标准、知识产权的保护、市场准入及障碍等。此外，我们还对遇到贸易纠纷的美国公司，例如拖欠付款，异常的规章制度等，提供帮助，为美国公司介绍合适而有潜力的中国伙伴。我们还根据公司的情况，提供有针对性的市场助长、潜在伙伴的背景调查等，以促进美国出口。

2) 国际伙伴-美国公司在进行国际商业运做上，面临的最大困难是找到合适的、可信任的、诚实的外国合作伙伴，我们帮助他们寻找合适的批发商、销售和客户服务代理等。我们的代表性服务——“金钥匙”配对服务，将美国公司介绍给这些合适而有潜力的中国伙伴。我们还根据公司的情况，提供有针对性的市场助长，潜在伙伴的调查等，以促进美国进口。

3) 贸易展会-国际贸易展会是把美国的供应商介绍给外国买家的优秀平台。海外商务处在世界各地的贸易展会上为美国参展商和前来观展的外国买家安排洽谈会。另外，我们每年都组织专门行业的贸易代表团，把美国企业带到中国和其他国家，帮助美国的企业家了解和掌握第一手有关当地市场、行业及重要本地企业的信息。

4) 服务中国企业-我们帮助中国企业寻找高质量的美国产品和服务。我们的“进入美国”项目专为寻求美国市场服务的中国企业而设立。该项目将美国的服务公司信息发布在我们的中国网站上，为中国企业在美国开拓市场，和投资提供丰富的信息。类似的服务还有“商业服务公司指南”和“特色美国出口商”等，皆在帮助中国企业接触和了解美国的供应商。



Refrigeration Industry Association of Shantou

In early 2014, the preparatory work for the Refrigeration Industry Association of Shantou was taken the lead by Mr. Weng Dong. Mr. Weng is the GM of Ice Peak Refrigeration Equipment Co. Ltd., the Senior Engineer and the Labor Model of Guangdong Province. He worked with 8 enterprises together for the declaration formalities according to the regulation and procedures. On Jan 9th, 2015, it obtained the approval from the Civil Affairs Bureau for establishment.

The 8 enterprises including:

- Guangdong Golden Navigation Food Co. Ltd.
- Shantou Long Sheng Aquatic Food Co. Ltd.
- Shantou Rich Dragon Frozen Co. Ltd.
- Shantou Jin Tai Aquatic Industry Co. Ltd.
- Overlord of Sea (Shantou) Food Co. Ltd.
- Guangdong More Benefit Food Co. Ltd.
- Guangdong Ba Ji Food Co. Ltd.
- Shantou Qiao Feng Group Co. Ltd.

On Jun 9th, 2015, the Founding Conference of Shantou Cold Chain Association was held at Shantou Dragon Lake Hotel. The leaders from the Civil Affairs Bureau, Security Supervision Bureau and Quality Supervision Bureau were presented for congratulation.

On Mar 26th, 2016, at Shantou Dragon Lake Hotel, the 2nd Membership Conference and Seminar of Cold Chain Refrigeration Technology was held.

On Feb 27th, 2017, at Shantou Tong Heng Hotel, the Management Meeting of East-Canton Cold Chain Refrigeration Equipment of Shantou Refrigeration Industry Association convened.

On Apr 21st, 2018, at Shantou Tong Heng Hotel, the Technology Seminar on “Improving Quality and Efficiency, Achievement Again” convened.

On Jun 22nd, 2018, at Shantou Dragon Lake Hotel, the 3rd Meeting for Cold Chain and Founding Assembly for “Emergency Voluntary Rescue Service Team” was convened.

The Association locates on the 8th floor, No. 2 North Alley in Jin Tai Street, Xin Jin Avenue, Dragon Lake District, Shantou. With 94 membership units. Most of them are the large-and-middle size enterprises of food, aquatic products, and cold chain industry, with strong representativeness in the industry.

Because of the particularity of this industry, the Association founded “Emergency Voluntary Rescue Service Team”. All members in the team are the elites with good team spirit, strong sense of responsibility and good safety awareness. Meanwhile, they are healthy, enthusiastic, with professional foundation and operation experience



汕头市制冷行业协会

汕头市制冷行业协会筹备工作于 2014 年初，由汕头市冰峰制冷设备有限公司总经理，广东省劳动模范、高级工程师翁冬生先生发起，牵头组织劳动发起单位（广东金航食品有限公司、汕头市龙胜水产食品有限公司、汕头市富龙冷冻有限公司、汕头市锦泰水产实业有限公司、海霸王（汕头）食品有限公司、广东添利食品有限公司、广东八记食品有限公司、汕头市侨丰集团有限公司）8 家企业共同组成筹备工作小组。按照有关法规和程序进行组建、完善各项申报手续，于 2015 年 1 月 9 日获市民政局正式批准登记。

2015 年 6 月 9 日在汕头市龙湖宾馆召开成立大会。市民政局、安监局、质监局领导到会祝贺。

2016 年 3 月 26 日，在汕头市龙湖宾馆召开第一届二次会员会议暨冷链制冷技术研讨会。

2017 年 2 月 27 日在汕头市同亨大酒店召开汕头市制冷行业协会粤东地区冷链制冷设备管理人员店谈会。

2018 年 4 月 21 日下午，在汕头市同亨大酒店召开“提质增效，再创佳绩”技术交流研讨会。

2018 年 6 月 22 日下午，在汕头市龙湖宾馆召开第一届三次会议暨“应急志愿救援服务队”成立大会。

协会会址设于汕头市龙湖区新津街道金泰居委金泰街北一巷 2 号 8 楼，现有会员单位 94 家，相当部分本市大中型的食品、水产、冷链企业，在行业中有很强的代表性。

协会面对行业的特殊性，拥有一支由热心本行业工作，身体健康，有一定理论专业基础及实操经验，安全意识高，责任心强，团队精神好的精英们，组成的协会应急救援队伍。



广东南方冷链物流发展促进中心
Southern Cold-chain & Logistics Development Center

Southern Cold Chain & Logistics Development Center

Southern Cold Chain & Logistics Development Center was founded in June 2012 with approval by the Guangdong Provincial Civil Affairs Bureau. Since the Center founded, outstanding results have been achieved by given full play to the advantage of government, industry institution and enterprises. We have become one of the most powerful Cold Chain service organizations in South China.

We have a team of experts that all are professional and technical personnel with middle or senior titles. We have participated in more than 100 items on industry surveys, standard-setting, project research, and policy advice.

As the service organization for the cold chain industry, we always regard it as a mission to service for the enterprises and industrial innovation and to build up connection between the government and enterprises, promote the rapid, healthy and sustainable development of modern cold chain industry. And, we also do the best the provide full range consultancy services for the government, enterprises, and institutions.

Business Scope

- Compiling and formulating industry standards.
- Holding logistics industry forum, seminar, training, exhibition and other activities.
- Making data statistics, market survey, investigation and analysis.
- Engaging in public or non-profit activities of cold chain logistics, providing consultancy service.

Service Qualification

In February 2013, with approval by the Guangdong Provincial Civil Affairs Bureau, we have become the organization that “the second batch with qualification to undertake the transfer of government function and purchase services”.

In March 2016, the Center was appraised by the Guangdong Provincial Affairs Department and passed the AAA evaluation.

In February 2018, the Center obtained the qualification for the Food Safety Administrator Examination Organization of Guangdong Provincial Food and Drug Administration.

In June 2018, the Center obtained the qualification as the Food Safety Administrator Training Organization of Guangdong Provincial Food and Drug Administration.



广东南方冷链物流发展促进中心
Southern Cold-chain & Logistics Development Center

广东南方冷链物流发展促进中心

广东南方冷链物流发展促进中心经广东省民政局审批通过，于 2012 年 6 月正式成立。中心成立后，通过资源整合，积极为社会提供冷链物流行业的理论研究和技术支持，取得了突出的成效，已建设发展成为华南地区最具实力的冷链物流服务机构之一。

中心作为冷链物流行业服务机构，始终把为企业服务、为行业的创新服务，搭建政府与企业、企业与企业之间的桥梁和纽带、促进现代冷链行业持续、快速、健康地发展作为我们的重要使命，致力于为政府、企业单位、院校提供全方位的咨询服务。

业务范围

- （一）编写及制定行业标准；
- （二）物流产业论坛、研讨会、培训、展览等活动；
- （三）数据统计、市场调查、调研分析；
- （四）从事冷链物流公益性或者非营利性活动，提供咨询服务。

服务资质

2013 年 2 月，中心获得广东省民政局审批“第二批具备承接政府职能转移和购买服务资质”的社会组织。

2016 年 3 月，中心获得广东省民政厅评审通过 AAA 级社会组织评估。

2018 年 2 月，中心获得广东省食品药品监督管理局食品安全管理员考试机构资格。
2018 年 6 月，中心获得广东省食品药品监督管理局食品安全管理员培训机构资格。



EVAPCO

EVAPCO for LIFE

EVAPCO is more than a name. We are the global innovator in heat transfer solutions for the commercial HVAC, industrial refrigeration, power, and industrial process markets. We pledge to make everyday life easier, more comfortable, more reliable and more sustainable for people everywhere.

OUR COMMITMENT

We never stop innovating. We set out to find groundbreaking solutions that transform the way the world works for the better. It's why we have more than 48 active U.S. Patents and 144 foreign counterparts. We also guarantee performance and put every solution through rigorous research and testing to ensure maximum efficiency and reliability.

PROTECTING THE ENVIRONMENT

Innovation and environmental sustainability go hand-in-hand at EVAPCO. Our industrial heat transfer equipment not only conserves natural resources and helps reduce noise pollution, but also features recycled steel content in construction. Our stainless steel units are constructed of panels that contain up to 75% of recycled content and our galvanized units contain over 80%. From sound reduction to water conservation to chemical elimination, we are developing new technologies that deliver ultimate operating advantages to our clients while protecting the planet for every generation to come.

FULL SPECTRUM GLOBAL SOLUTIONS

EVAPCO provides a full spectrum of global product solutions for the Commercial HVAC, Process Cooling, Industrial Refrigeration and Power Generation markets.

From the smallest factory-assembled cooling tower to the largest field-erected air-cooled steam condenser, we offer heat transfer products designed to meet the water and energy requirements for any project. We are committed to providing solutions that are energy-efficient and conserve water.

Our latest heat transfer solutions are the eco-Air™ Series dry coolers, eco-Air Series air-cooled condensers, and eco-Air Series adiabatic coolers and condensers. The eco-Air Series completes our successful eco-family of closed-circuit coolers and condensers with water-saving dry and hybrid technology.

As an industry leader in independent, third-party performance certifications, our fully-rated products enable you to operate your cooling systems efficiently and with complete peace of mind.



益美高

美国益美高公司位于马里兰州，创建于 1976 年，专业生产制造工、商业使用的蒸发式冷却设备及其它制冷设备，是目前全世界最大的冷却塔制造商。益美高公司在全球拥有十七个生产制造基地（中国有两家），始终以优异的质量、完善的服务和独一无二的设计而闻名世界。

位于益美高总部 1860 平方米的研究测试中心是冷却设备制造业中最大最先进的研究测试中心之一，包括：有室内可控环境实验室、氨制冷试验台、低温试验台等。

所有部件和材料都经过益美高严格的挑选和测试以此保证其使用寿命长和操作简便的特点。益美高对性能上的保证是基于：所有型号都在益美高位于美国马里兰州的测试中心进行 5000 小时试验的结果。

益美高公司在中国的发展始于 1995 年，先后在上海和北京建立了全外资生产厂，并已成为生产开式冷却塔、闭式冷却塔、蓄冰盘管和蒸发式冷凝器的世界级先导。2006 年 1 月，益美高在上海宝山工业园区内投资新建的现代化工厂正式运营，同时益美高亚太地区总部也搬迁至此。

益美高（上海）制冷设备有限公司承诺为整个中国及亚太地区客户提供高质量的产品和一流的服务。6400 平方米的现代化生产车间拥有益美高全球最先进的生产设备，其中包括最新技术的连续制管机可以生产出连续钢管，用于益美高专利的高效换热盘管。

益美高上海工厂通过 ISO9001 质量管理体系认证、ISO14001 环境体系认证以及 ASME 认证，冷却塔产品通过 CTI 认证和 FM 认证。1100 平方米的现代化办公室欢迎中国和亚太地区的客户前来参观。在这里，益美高（上海）制冷设备有限公司可向您提供产品介绍、工厂参观以及产品维护和售后服务的培训，您还可以对您所订购的设备进行出厂前的检查。

另外，益美高亚太地区总部设在北京的生产厂—北京益美高制冷设备有限公司，为中国北方地区提供高质量的产品。

益美高产品广泛应用于以下行业的冷却及制冷系统中：

*商用空调 *工业制冷 *工艺加工 *蓄冷 *电力

益美高财政支持和技术精英强有力的结合使得公司成为全球公认的业界领导者。益美高的产品非常环保，在噪音及水处理方面的先进技术得到公认。

益美高拥有极强的研发能力及现代化的工厂，公司在技术革新和提升产品品质方面享有声誉，益美高产品的运行优势如下：

*系统效率高 *环保 *年运行成本低 *可靠、简便的运行和维护



Crown

Crown is one of the world's largest material handling companies with a reputation for award-winning product design, advanced engineering and technology, and superior after-sale service. The company's global headquarters is located in New Bremen, Ohio, USA, with regional headquarters in Australia, China, Germany, and Singapore, with 19 manufacturing facilities over the world.

Crown has an extensive global sales and service network to meet customer needs anytime, anywhere. Our strategic locations worldwide offer reliable, flexible and responsive support including sales, service, regional training centers and much more. Crown operates a service and distribution network that exceeds 500 retail locations in 84 countries, with more than 16,100 employees worldwide and revenue up to \$3.48 Billion in 2018.

Since its entry into the material handling equipment industry, Crown has earned a reputation as a leading innovator in world-class forklift and material handling equipment. Crown has earned over 100 international awards recognizing its ability to produce innovative products that set new standards for design excellence.

Crown's history in China started in 2006 with the establishment of its manufacturing plant and retail company in Suzhou and Shanghai. Now Crown has 7 commercial branches in Shanghai, Suzhou, Tianjin, Guangzhou, Hangzhou, Chengdu and Hong Kong, and over 17 dealers all over China to provide professional lift truck and material handling equipment consultancy, sales and after service.

Crown produces a broad range of forklifts from pallet trucks, counterbalanced trucks to VNA trucks, as well as automation and fleet management technologies.

Crown's business philosophy utilizes vertically integrated processes to design, manufacture and distribute forward-thinking, innovative solutions that improve customers' productivity and operating efficiency. Crown has earned numerous awards recognizing its ability to produce innovative products that set new standards for design excellence.



科朗

Crown-科朗是全球排名前列的物料搬运设备制造商。公司于 1945 年成立，总部设在美国俄亥俄州新不来梅镇。Crown-科朗的制造工厂遍布全球，在北美洲、墨西哥、德国、中国等 11 个地区，建有 19 个生产基地，并且在美国俄亥俄州新不来梅、中国苏州、德国慕尼黑、澳大利亚悉尼以及新加坡设立了地区总部。

同时，Crown-科朗强大而分布广泛的全球销售及服务网络，为客户提供各种各样的优质物料搬运设备、仓储解决方案以及售后服务支持。至 2018 年，Crown-科朗在全球 84 个国家和地区设立了超过 500 家分支机构，总员工人数超过 16,100 名，覆盖了美洲、欧洲、澳洲、中东和非洲以及包括中国的亚太地区。2018 年的年收入超过 34.8 亿美金。

Crown-科朗叉车屡获奖项的叉车产品系列因其杰出的产品设计、技术应用和整体式制造工艺而享誉全球，至 2018 年为止，获得的国际性奖项超过 100 个。在提供全系列叉车以及自动化和车队管理技术的同时，Crown-科朗叉车也致力于为用户带来前沿的构想和创新的产品，以提高叉车的应用性能并降低营运成本。

Crown-科朗中国的历史始于 2006 年，Crown-科朗分别在苏州和上海成立了制造工厂和销售服务公司，以更好地服务中国客户。至 2018 年，Crown-科朗在上海、苏州、天津、广州、杭州、成都以及香港均设立了 7 家分公司，和 17 家经销商，销售和服务网络覆盖全国，旨在为客户提供全面的服务和技术支持。

Crown-科朗提供从手动托盘搬运车、平衡重叉车到 VNA 特窄通道三向叉车以及 Wave™多功能拣选车的全球系列电动叉车，还包括自动化和车队管理技术等。

我们的解决方案更关注您的实际需求、符合政府标准以及特殊工况要求，实现操作员作业舒适度、操控性以及工作效率的同步提高。同时，Crown-科朗关注技术变革，通过将模块化、可升级、自动化和互联理念融入叉车设计过程来更好地满足客户当前和未来的需求，成为客户与时俱进的合作伙伴。尽管物料搬运行业将继续发展变化，但 Crown-科朗致力于帮助客户成功的决心永远不会变。



约 克

York Refrigeration origin starts back to 1853, it includes YORK, FRICK, SABROE, GRAM, STAL, and other famous refrigeration brands all over the world. Over 150 years, York Refrigeration always works hard to creative develop refrigeration technology and product, has becomes a global industry Refrigeration Market leader undisputed. In 2005, York Refrigeration has become the member of Johnson Controls Inc, which belongs to top 500 enterprises in the world. After strong cooperation, its integration advantage impressed the community. In Johnson Controls Inc, York refrigeration business has own factories in Wuxi City, and located in Asia Technology research and development Center in Wuxi, located in Asia Study and Development Center in Shanghai, Asia-Pacific component product Center and Cold Chain project engineering center, and located in great engineering and technological center in Beijing, and the Global Second Headquarter in Shanghai. It effectively been guaranteed Johnson Controls Inc to provide great competitive strength advanced product and electronic, also excellent service personnel.

约克冷冻的起源可追溯到 1853 年，旗下包括 YORK, FRICK, SABROE, GRAM 和 STAL 等多个全球著名的冷冻品牌。150 多年来约克冷冻一直致力于不断创新发展制冷技术与产品，已无可争议地成为全球工业冷冻市场的领导者。2005 年，约克冷冻成为世界 500 强企业江森自控的一员，强强联手后的整合优势令业界瞩目。

江森自控旗下约克冷冻业务在无锡设有工厂，再加上位于无锡的亚洲技术研发中心、位于上海的亚洲学习和发展中心、亚太零件产品中心和冷冻项目工程中心，以及位于北京的优秀工程技术中心和上海全球第二总部，有效保障了江森自控为客户提供极具竞争力的先进产品、技术以及一流的服务人才。

Speaker Biographies

演讲人介绍

Reinaldo J. Garcia

Commercial Office, U.S. Consulate Guangzhou



Reinaldo is a Commercial Officer at the U.S. Consulate in Guangzhou, China as of July 2018. He previously did a tour as a Trade Specialist in Northern Virginia and Washington D.C. Export Assistance Center (NoVA USEAC), where he actively worked in advancing the organizational vision of the U.S. Commercial Service.

Prior to joining the Foreign Commercial Service, Reinaldo worked as an independent franchise consultant specializing in expanding U.S brands in Latin America. His experience is full-spectrum, to include legal services, operations, and business development strategy. He also worked for several years for Coldwell Banker Latin America, expanding the brand into nine countries throughout the region. Before entering franchising, Reinaldo worked in the financial sector where he specialized in banking oversight and regulation.

葛瑞南

美国驻广州领事馆商务官员

葛瑞南先生自 2018 年 7 月就任美国驻广州总领事馆商务官员。此前，他曾在美国北弗吉尼亚区与华盛顿特区的美国出口援助中心（简称 NoVA USEAC）担任贸易专家，积极践行美国商务部的组织愿景。

在加入美国商务部海外商务处之前，葛瑞南先生是一名独立的特许经营行业顾问，致力于在拉丁美洲扩展美国品牌。他在该行业拥有全方位的经验，包括法律服务、运营和业务发展战略。他也曾在科威国际不动产有限公司工作数年，将品牌扩展到拉丁美洲的九个国家。在进入特许经营行业之前，葛瑞南先生曾在金融领域工作，专门从事银行监管和法规。

Steven Winkates

Director of Program Management, East Asia Region
U.S. Trade and Development Agency (USTDA)



Steven Winkates is the Director of Program Management for the East Asia Region at USTDA, based at the U.S. Embassy in Beijing, China. He is responsible for managing USTDA's activities in China and Mongolia, directing business development efforts, coordinating with relevant stakeholders in both the region and the United States, and marketing USTDA services to potential partners in both countries.

Prior to this position, Mr. Winkates worked in Beijing for a consulting firm that specializes in developing transportation infrastructure projects. He also previously served as a Country Manager at USTDA, covering China and Southeast Asia during his tenure, and as a Policy Analyst at the

U.S. Department of Commerce.

Mr. Winkates holds a Master of Public Policy from Georgetown University and a Bachelor of Arts from Rhodes College.

温凯时

美国贸易发展署东亚区项目主任

Steven Winkates 是美国贸易发展署东亚地区项目管理主任，常设办公地在美国驻中国大使馆。他负责管理美国贸易发展署在中国和蒙古区域的项目，包括指导业务发展工作、协调该地区和美国利益相关方的关系、并向两国的潜在合作伙伴推广美国贸易发展署的活动及相关服务。

在此之前，**Winkates** 先生曾任职于一家专门从事交通基础设施项目开发的咨询公司。他曾担任美国贸易发展署中国和东南亚地区发展负责人和美国商务部政策分析师等相关职位。

Winkates 先生先后获得罗德学院的文学学士学位和乔治城大学的公共政策硕士学位。

Hebert Tang

System Application Engineer, York

Hebert Tang graduated from the University of Shanghai for Science and Technology with a master's degree. At the same time, he joined Johnson Controls as a Systems Application Engineer. He had participated in the national science and technology support plan, Participate in Shanghai natural science foundation. He has published many papers in HVAC and Chemical Engineering Journal etc. Since joining York refrigeration PEC, he has been engaged in the application design and research of large and medium-sized food and industrial refrigeration system. Responsible for refrigeration system design and project management. He received the Merit Award of Johnson controls in 2017 and 2018.



唐恒博

约克（中国）系统应用工程师

毕业于上海理工大学，制冷及低温工程硕士，上海市优秀毕业生研究生。曾参与国家科技支撑计划一项，上海市自然科学基金一项；曾在《暖通空调》、《化工学报》等期刊发表论文多篇；加入约克中国冷冻工程技术中心，一直从事大中型食品及工业冷冻系统应用设计及研究。负责制冷系统方案设计和项目管理等工作。 2017 和 2018 年获得江森自控集团 Merit Award。

Weng Dongsheng

President

Shantou Refrigeration Industry Association

Mr. Weng was graduated from Changchun Institute of Technology, majoring in refrigeration and air conditioning. He also pursued his graduate degree from the South China Agricultural University. In the past 30 years, he has been engaged in design, installation and system management of refrigeration and engineering projects. He held different assignments and job titles, including design institute engineers and the vice president of state-owned enterprises. He developed training curriculum of “Energy Conservation, Environmental Protection and Safe Operation of Refrigeration Systems,” and has been conducting training to refrigeration management personnel assisting the government.

翁冬生

汕头市制冷行业协会会长

毕业于长春工程学院，制冷空调专业，后继续就读并毕业于华南农业大学“机电一体化工程”。30年来，从设计院工程师，到国有企业副总，到创办自己的公司，一直从事制冷工程的设计、安装及系统管理工作，有较高的专业理论水平及丰富的实际经验。编制《制冷系统节能环保与安全运行》培训教材发送到各企业，个人出资全程对行业制冷管理人员进行培训，协助政府相关部门编制各种培训教材。

Presentations

演讲材料

广东冷链公共服务管理平台简介

Introduction of Guangdong Cold Chain
Public Service Management Platform



2019年8月



广东冷链公共服务管理平台简介



一、平台简况 Brief Overview

“广东冷链公共服务管理平台”是由广东省冷链协会规划设计，受国家商务部专项资金扶持建设的省级冷链专业公共服务管理平台，是一个服务企业，服务政府，服务社会，“一平台、多功能”的第三方综合服务管理平台。

“Guangdong Cold Chain Public Service Management Platform” is a provincial cold chain professional public service management platform launched and designed by the Guangdong Cold Chain Association and supported by the special funds of the Ministry of Commerce. It is a service enterprise, serving the government and serving the society. The platform is a multi-functional third-party integrated service management platform.





广东冷链公共服务管理平台简介



广东省商务厅目前唯一认可与国家商务部“全国农产品冷链流通监控平台”对接的省级冷链公共平台。

The Guangdong Provincial Department of Commerce is currently the only provincial-level cold chain public platform that recognizes the “National Agricultural Products Cold Chain Circulation Monitoring Platform” managed by the Ministry of Commerce.

平台企业 Platform enterprise

 增益冷链 增益供应链仓储物流(东莞)有限公司	 珠海强克农业有限公司	 燕塘 广东燕塘乳业股份有限公司	 广州市安俊物流有限公司	 江南海味批发市场经营管理有限公司	 广东羽威农业集团有限公司
 汕头市海源冷链配送有限公司	 中国外运长航 上海中外运冷链运输有限公司广州分公司	 炜迥 广州炜迥贸易有限公司	 广州交通集团长运冷链物流中心	 光明乳业 广州光明乳品有限公司	 广东大昌行储运有限公司

支持单位：广东省商务厅 广东省交通运输厅 广州市商务局 广州市交通运输局

位：广东南方冷链物流发展促进会

友情链接：广东省发展和改革委员会 广东省工业和信息化厅 广东省药品监督管理局 广东省市场监督管理局

接：广州市发展和改革委员会 广州市工业和信息化局 广州市市场监督管理局 [查看更多](#)

地址：广州市荔湾区陈家祠道48号五行科技园创意园6号楼三楼304 电话：020-83377017 83377027

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关注微信公众号





广东冷链公共服务管理平台简介



平台可以基本实现省内冷链产业相关数据信息的**采集、认证、查询、溯源和过程管理**等综合服务功能，实现对**产品储存、运输、销售**等过程中**温、湿度的跟踪、监测与预警**，为政府部门监控市场提供技术手段。

The platform can basically realizes the comprehensive service functions of collecting, accrediting, inquiring, tracking and processing management of data related to the cold chain industry.

It will realize tracking, monitoring and providing the early warning of temperature and humidity for product storage, transportation and sales. The department monitors the market to provide technical assistance and support.





广东冷链公共服务管理平台简介



平台
主要
功能
Core
Function

企业基础信息管理

Enterprise basic information management

冷库温湿度实时监控

Cold storage temperature and humidity real-time monitoring

冷藏车温湿度实时监控

Refrigerated car temperature and humidity real-time monitoring

温湿度统计分析报告

Temperature and humidity statistical analysis report

温湿度异常统计报告

Temperature and humidity anomaly statistical report

首页门户——法规查询

Home Portal - Regulatory Enquiry

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Home Portal - Industry News





广东冷链公共服务管理平台简介



广东冷链
公共服务管理平台

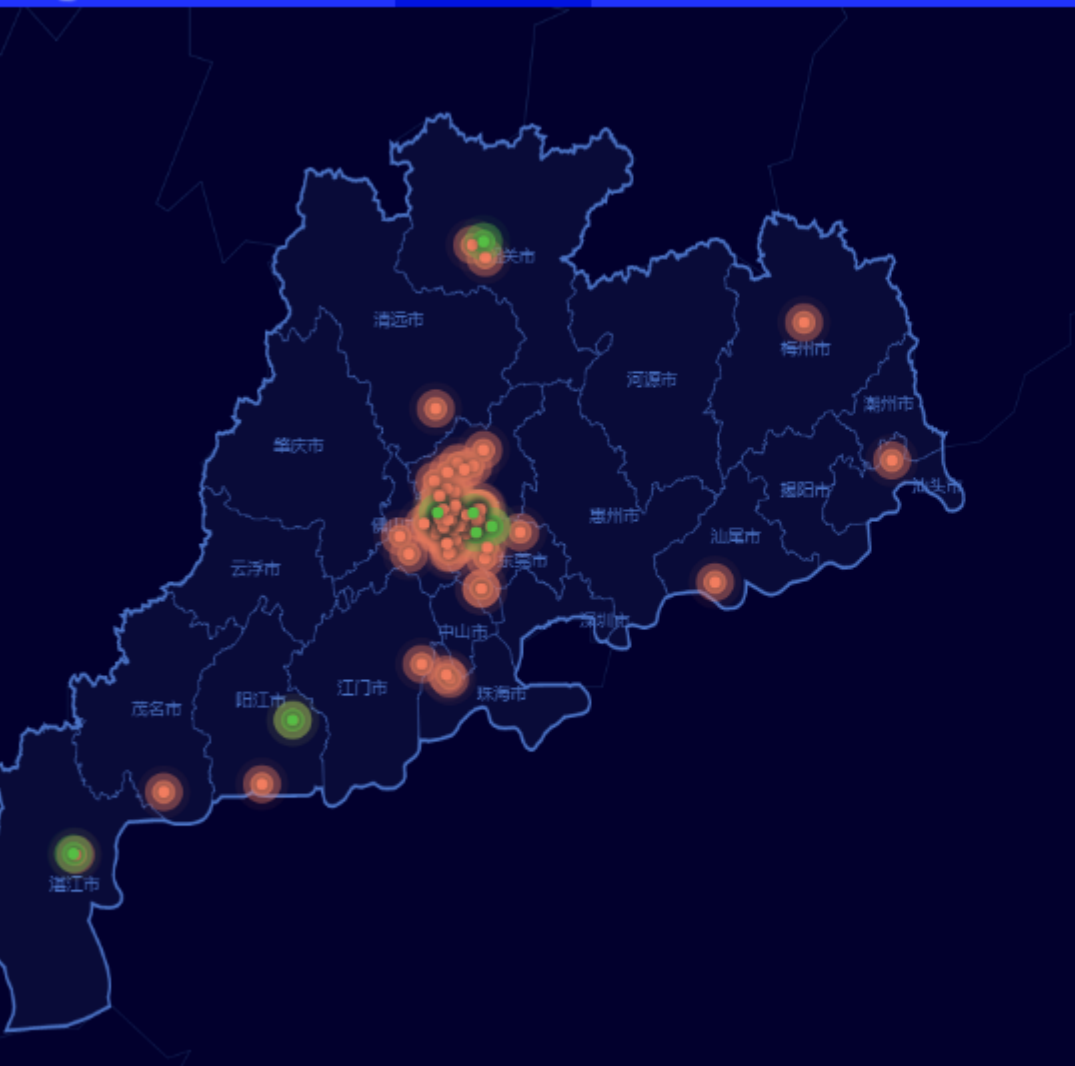
首页

基础信息管理

监控中心

统计分析

scclcd



省内统计数据

企业总数

145 家

车辆

1425 台

冷库

92 个

冷柜

0 个

地市统计数据

广州市

企业113家

车辆1288台

冷库51个

冷柜0个

佛山市

企业4家

车辆51台

冷库6个

冷柜0个

深圳市

企业2家

车辆47台

冷库0个

冷柜0个

东莞市

企业4家

车辆12台

冷库9个

冷柜0个

珠海市

企业3家

车辆10台

冷库3个

冷柜0个

韶关市

企业3家

车辆6台

冷库2个

冷柜0个

清远市

企业1家

车辆4台

冷库0个

冷柜0个

湛江市

企业1家

车辆3台

冷库1个

冷柜0个

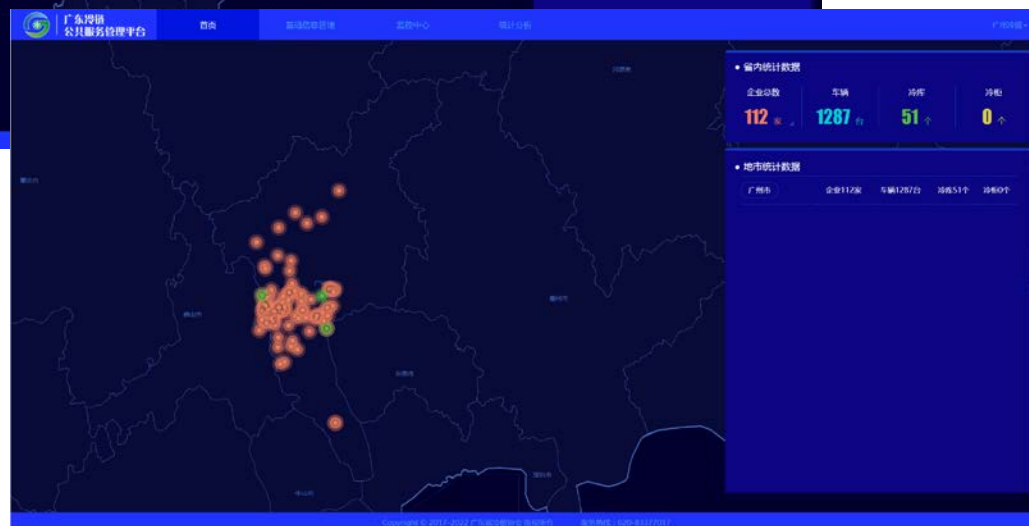
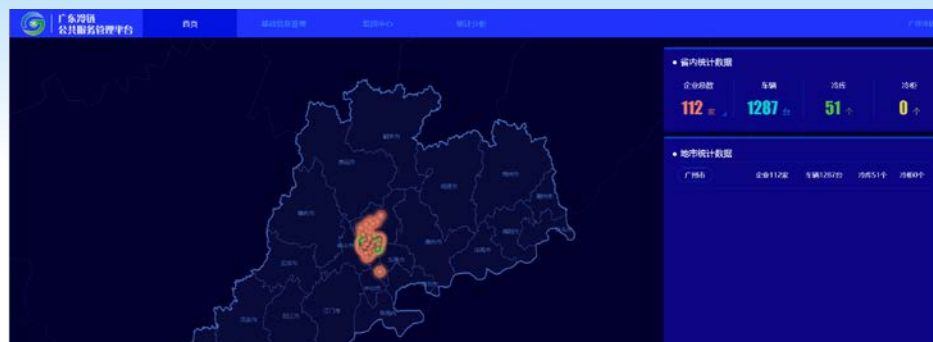


广东冷链公共服务管理平台简介



平台根据各企业所在市设立相应的区域板块，将各地所属的企业、冷藏车辆及冷库分别划分到相应板块中，实现省、市数据联动。

The platform establishes corresponding regional sections where each enterprise is located, and categorizes the enterprises, refrigerated vehicles and cold storages belonging to each locality into corresponding sections, and promotes the linkage of provincial and municipal data.





广东冷链公共服务管理平台简介



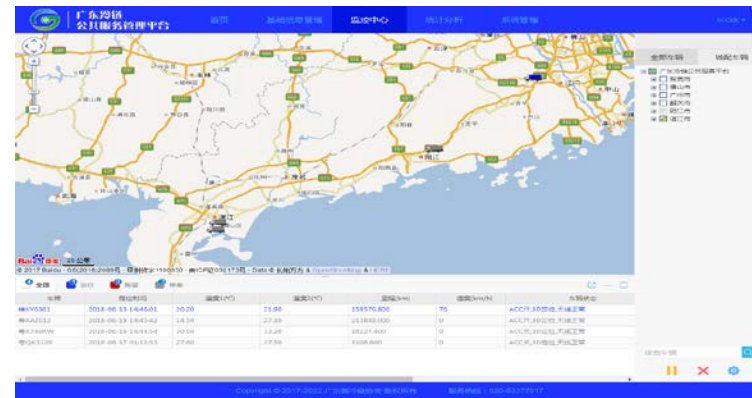
除广州板块以外，平台还将围绕广东省内各市开设专属板块。目前已开通上线的板块包括：**佛山板块、东莞板块、韶关板块、阳江板块、湛江板块、江门板块、深圳板块、汕头板块、汕尾板块、茂名板块、梅州板块、清远板块、珠海板块、潮州板块**等共15个地级市板块。

按照规划，平台还将继续积极引进更多广东省内各地区具有代表性的冷链企业进驻平台将平台的服务对象以及范围覆盖得更多、更广，提供更加精准的对接服务。

In addition to the Guangzhou area, the platform will also open exclusive sections around the cities of Guangdong Province. Currently, the data is available on the platform include: Foshan, Dongguan, Shaoguan, Yangjiang, Zhanjiang, Jiangmen, Shenzhen, Shantou, Shanwei, Maoming, Meizhou, Qingyuan, Zhuhai, Chaozhou, etc. A total of 15 prefecture-level municipalities.

According to the plan, the platform will continue to actively introduce more leading cold chain enterprises in various regions of Guangdong Province, and it will cover more and wider service targets and more accurate docking services.

粤西板块车辆



Western Guangdong Mapping of Transit System



粤西板块冷库

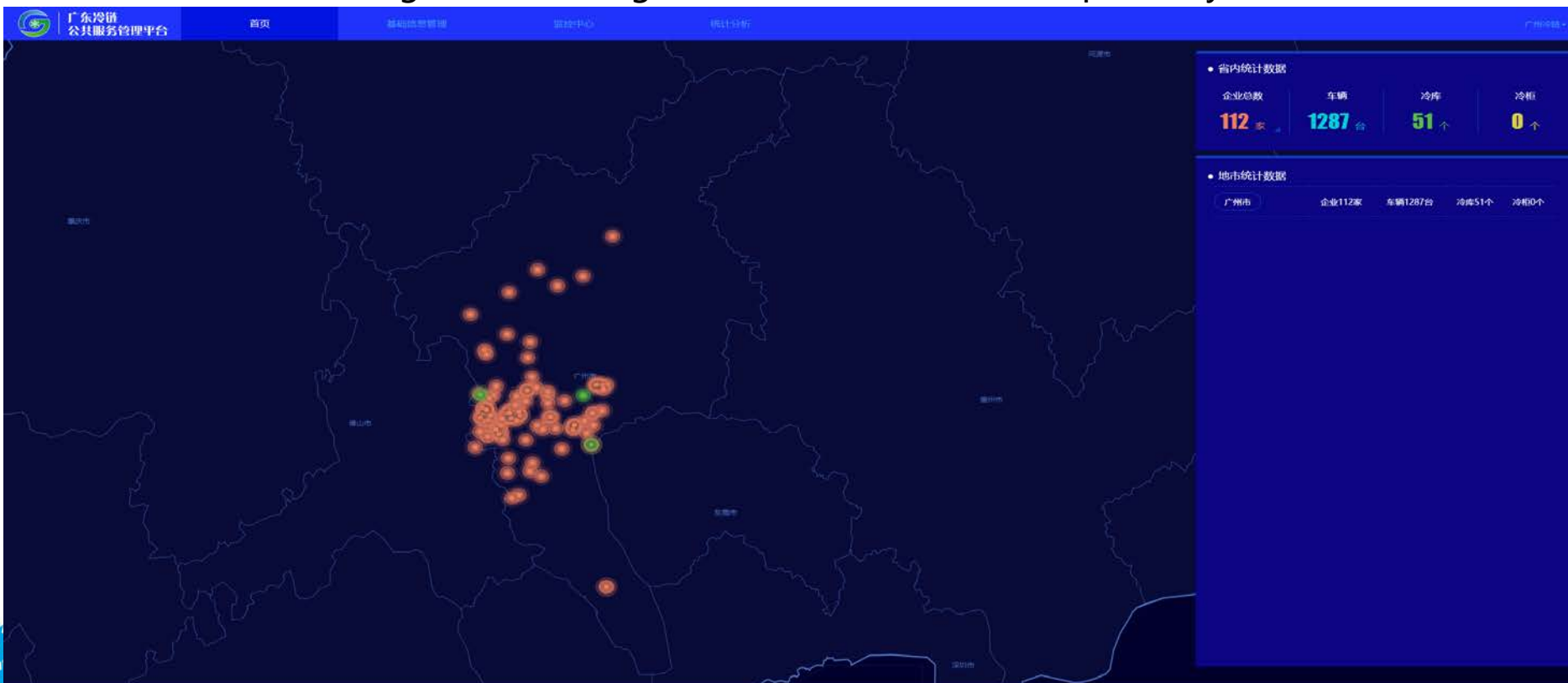
Western Guangdong Mapping of Refrigerated Storage



二、广州板块 Guangzhou Outlook

目前已进驻平台的试点企业中，广州市企业112家，共计冷藏车辆1287台，冷库51个，三者分别占比为78%、90%和58%。

Among the pilot enterprises that have entered the platform, there are 112 enterprises in Guangzhou, with a total of 1,287 refrigerated vehicles and 51 cold storages, accounting for 78%, 90% and 58% respectively.





广东冷链公共服务管理平台简介



通过平台的在线监控以及获得的数据、报表，政府职能部门或企业管理人员可对企业车辆的利用率、车辆在途温湿度数据等进行有效的监控。

Through the online monitoring of the platform and the obtained data and reports, the government agencies and enterprise management personnel can effectively monitor the utilization rate of the enterprise vehicles and the temperature and humidity data of the vehicles in transit.

广东冷链公共服务管理平台

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全部车辆 城际车辆

- 广东冷链公共服务平台
- 东莞市
- 佛山市
- 广州市
- 江门市
- 茂名市
- 梅州市
- 清远市
- 汕头市
- 汕尾市
- 韶关市
- 深圳市
- 阳江市
- 湛江市
- 珠海市

车牌	定位时间	速度(km/h)	企业	里程(km)	温度1(°C)	温度2(°C)	温度3(°C)	温度4(°C)	位置
苏BW1529	2019-06-16 22:06:00	0	广州汇益物流有限公司	0.000	-21.50(06-16 22:06)				广东省河源市连平县5341东43米(停)
粤B3S3M0	2019-06-16 21:50:26	0	深圳市深粮冷链物流有...	297319.800	29.30(06-16 21:50)				广东省深圳市南山区创德路北44米(
粤AC09W8	2019-06-16 21:50:25	0	美心西饼(广州)有限...	16473.700	22.10(06-16 21:50)	22.10(06-16 21:50)			广东省广州市黄埔区莲土三街东63
粤A6C121	2019-06-16 21:50:24	0	广州小田冷链物流有限...	184225.400	11.00(06-16 21:50)				广东省东莞市东莞市进港南路北92
粤A310RD	2019-06-16 21:50:24	31	广州优迪物流有限公司	0.000	-6.00(06-16 21:50)				广东省广州市天河区中山立交桥(高)
粤A6H2L8	2019-06-16 21:50:23	11	广州优迪物流有限公司	0.000	8.00(06-16 21:40)				广东省佛山市禅城区紫坊一街(普通)



广东冷链公共服务管理平台简介



广东冷链
公共服务管理平台

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- 佛山市
- 广州市
- 广东侨丰实业股份有限公司
- 广东新供销天业农产品有限公司
- 广州奥昆食品有限公司
- 广州拜尔空港冷链物流中心
- 广州宝丰冷冻仓储有限公司
- 广州格朗圣贸易有限公司
- 广州江南果菜批发市场经营
- 广州迈翔通讯科技有限公司
- 广州市穿梭物流有限公司
- 广州市瑞天物流有限公司
- 广州市伟添冷链物流有限公司
- 广州市星洲源果品市场经营
- 广州松洋冷链物流有限公司
- 广州炜滔贸易有限公司
 - 炜滔冷库
 - 炜滔冷库2号冷库(远郊)
 - 炜滔冷库3号冷库(远郊)
 - 炜滔冷库4号冷库
- 江门市
- 茂名市
- 梅州市
- 清远市
- 汕头市
- 汕尾市
- 韶关市
- 深圳市
- 阳江市
- 湛江市
- 珠海市

1 冷库总数 1 正常冷库数 0 超标冷库数

冷库名称	冷库所属企业	温度1(°C)	温度2(°C)	温度3(°C)	温度4(°C)	采集时间	经度	纬度	地址
炜滔冷库	广州炜滔贸易有限公司	-18.00(06-16 21:...	-18.40(06-16 21:...	-17.50(06-16 21:...	-17.90(06-16 21:...	2019-06-16 21:09:54	113.245016	23.058900	

搜索冷库

⏪ ⏩

⏹ ⏴ ⏵ ⚙



广东冷链公共服务管理平台简介



广东冷链
公共服务管理平台

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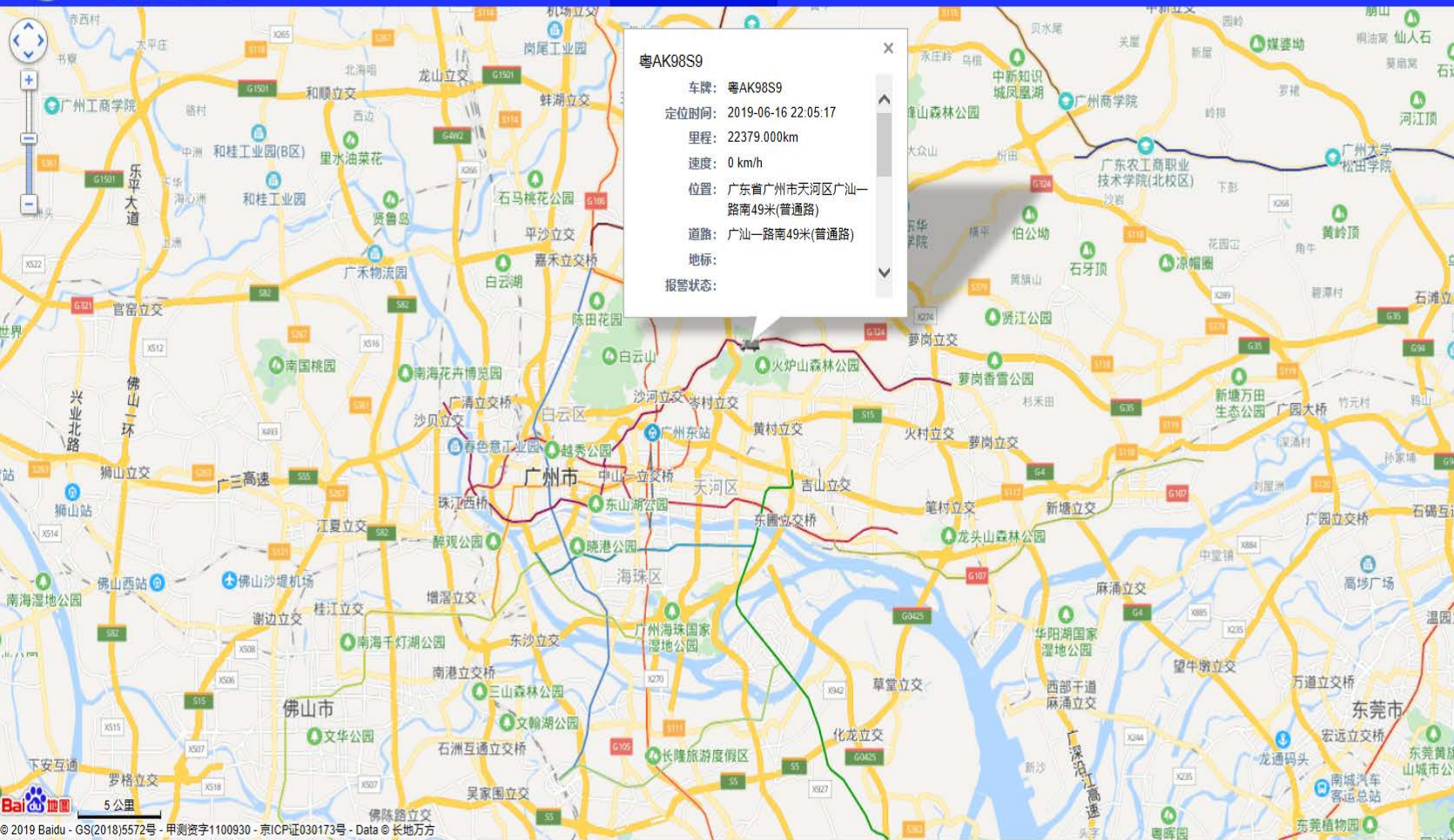
基础信息管理

监控中心

统计分析

系统管理

平台项目组



全部车辆 城配车辆

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- 佛山市
- 广州市
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 - 广东大昌行储运有限公司
 - 广东广丰实业股份有限公司
 - 广东太古冷链物流有限公司
 - 广东拓弘食品贸易有限公司
 - 广东燕塘冷冻食品有限公司
 - 粤A5T7N9
 - 粤AK53Y9
 - 粤AK59P7
 - 粤AK66D4
 - 粤AK98S9
 - 广东燕塘乳业股份有限公司
 - 广州奥昆食品有限公司
 - 广州拜尔冷链物流
 - 广州保事达物流有限公司
 - 广州昌瑞农产品有限公司
 - 广州长运全程物流有限公司
 - 广州大进贸易有限公司
 - 广州风行乳业股份有限公司
 - 广州富马物流有限公司
 - 广州光明乳品有限公司
 - 广州广马物流有限公司
 - 广州广裕仓码有限公司
 - 广州浩益贸易有限公司
 - 广州华农大食品科技有限公司
 - 广州皇上皇集团股份有限公司
 - 广州汇益物流有限公司
 - 广州金城达物流有限公司
 - 广州九龙维记牛奶有限公司
 - 广州酒家集团利口福食品
 - 广州骏涛物流有限公司
 - 广州骏佳物流有限公司
 - 广州楷立贸易有限公司
 - 广州来安冷链物流有限

全部 运行 报警 停车

车牌	定位时间	速度(km/h)	企业	里程(km)	温度1(°C)	温度2(°C)	温度3(°C)	温度4(°C)	位置
粤AK98S9	2019-06-16 22:05:17	0	广东燕塘冷冻食品有限...	22379.000	4.70(06-16 22:05)	4.30(06-16 22:05)			广东省广州市天河区广汕一路南49米(普通路)

搜索车辆



广东冷链公共服务管理平台简介



“广东冷链公共服务管理平台”已经与“商务部·全国农产品冷链流通监控平台”对接数据。广东省冷链协会被授予委托承担“农产品冷链流通标准化工程”申报及初审的工作。

目前，共有21家企业，16台冷藏车，8个冷库获得了“商务部·全国农产品冷链流通监控平台”项目组颁发的试点冷库及试点车辆数据采集合格证书，为推动国家商务部、广东省商务厅以及冷链行业的规范化、科学化、公平化管理起到了标杆作用。



The “Guangdong Cold Chain Public Service Management Platform” has been connected to the “Ministry of Commerce and National Agricultural Products Cold Chain Circulation Monitoring Platform.” The Guangdong Cold Chain Association was awarded to undertake the declaration and preliminary review of the “Agricultural Cold Chain Circulation Standardization Project.”

Currently, a total of 21 enterprises, 16 refrigerated trucks and 8 cold storages have obtained the certificate of pilot cold storage and pilot vehicle data collection issued by the “Ministry of Commerce and National Agricultural Products Cold Chain Circulation Monitoring Platform.” The standardized, scientific and fair management of the Provincial Department of Commerce and the cold chain industry has played a benchmark role in achieving the objectives designed by the Ministry of Commerce and Guangdong Province.

全国农产品冷链流通监控平台

用户名

密码

请输入用户密码

记住密码

登 录

京ICP备17048188号



首页

监控中心

统计查询

标准设置

用户管理

APP管理

地图监控



冷库列表

库区名

全部

广东省

广州市

广州炜洵

炜洵冷库

首页

监控中心

统计查询

标准设置

用户管理

APP管理

轨迹回放



司机 卢新熙

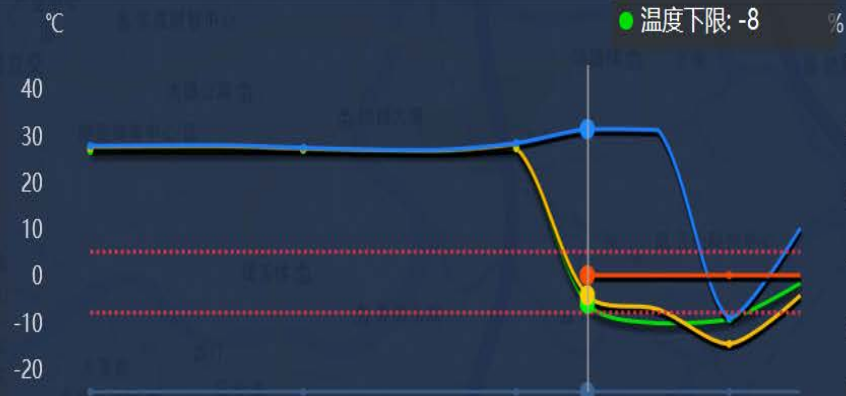
回风口温度(°C) -1.7

车厢前部温度(°C) -4.3

车厢中部温度(°C) 0.0

车厢后部温度(°C) 10.1

湿度(%) 64.6



车辆列表

车牌号码 | 粤A0YX75

开始时间 | 2018-07-30

结束时间 | 2018-07-30

粤A0YX75

2018-07-30 00:00

2018-07-30 16:50

2018-07-30 16:50



广东冷链公共服务管理平台简介



广东冷链公共服务管理平台以打造行业诚信，建立行业认证标准，保障易腐食品供应链体系健康运作为目标，通过设置 *企业诚信等级、行业失信经营黑名单、行业资质认证、商品溯源查询、行业指数发布、经营数据分析、业务风险预警、撮合交易以及供应链管理* 等综合服务功能，为冷链企业和行业持续健康发展提供服务，为政府相关职能部门及行业机构提供准确的信息数据。

The Guangdong Cold Chain Public Service Management Platform aims to build industry integrity through establishing industry certification standards while ensuring the healthy operation of the perishable food supply chain system. By setting the enterprise credit level, industry blackmail management blacklist, industry qualification certification, product traceability inquiry, industry comprehensive service functions such as index release, business data analysis, business risk warning, matching transaction and supply chain management provide services for the sustainable development of cold chain enterprises and industries, and provide accurate information data for relevant government functional departments and industry organizations.





全力以赴打造 广东冷链公共服务管理平台

**谢谢观看！
Thank you !**





冷库安全管理重在规范

Standardization Is the Key to Safety
Management of Refrigeration

汕头市制冷行业协会会长 翁冬生

Mr. Weng Dongsheng, President of Shantou
Refrigeration Industry Association

一、标准的编制原则和思路

(一) 编制原则

《冷库安全管理规范》编制的原则主要包括以下几方面：

一是坚持以市场需求与发展为导向原则，全面提高标准的市场适用性；

二是坚持与时俱进、适度超前；

三是兼顾广东省范围内库容量为5000立方米及以上的氨制冷、氟利昂制冷及其他冷媒系统制冷的冷库，以及冷库库容量5000立方米以下的冷库的利益。



1. Principle and Thoughts of Standard Compilation

a. Principle of Compilation

- Adhere to the market demand and development-oriented principle, and comprehensively improve the market applicability of standards
- Keeping pace with the times
- Consider the interests for refrigerators with different capacity in Guangdong, including the refrigerators with storage capacity 5000 cubic meters for ammonia-based refrigeration systems, freon and other refrigerant

2. 编制思路

本标准的编制思路是：对冷库设计、建设与施工安全管理，设备设施及配套工程安全管理，现场作业安全管理，应急管理，以及安全监督管理等提出相应要求,并督促广东省内冷库运营者加强内部规范化管理，全面提升冷库安全管理水平。



2. Ideas for Compilation

Primary objectives include:

- Raise requirements on safety management of design, construction, equipment and facilities, supporting project, on-site operation, emergency and safety supervision.
- Supervise the refrigerator operators in Guangdong to strengthen internal standardization management.
- Make overall promotion for the safety management level of the refrigerators.

二、标准的主要内容

(一) 关于标准的适用范围



结合《冷库设计规范》(GB 50072)的规定,标准提出:适用于广东省范围内库容量为5000立方米及以上的氨制冷、氟利昂制冷及其他冷媒系统制冷的冷库进行安全管理。冷库库容量5000立方米以下的安全管理可参照本标准执行。

2. Primary Coverage

a. Scope of application

Combining with the Regulations of Code for Design of Refrigerator (GB50072), the local standard is applicable to safety management of refrigeration in Guangdong, which has capacity of 5000 cubic meters for ammonia-based refrigeration systems, freon and other refrigerant. Per the ones with capacity less than 5000 cubic meters, it is necessary to consider to reference the local standard.

(二) 关于设计、建设与施工安全管理



强调冷库的安全设施
以及职业病防护设施必须
与主体工程同时设计、同
时施工、同时投入生产和
使用。

b. Safety Management of Design, Construction and Operation

It emphasizes on the safety facilitation and occupational disease protection facilities of refrigerators, must be designed, constructed, put into production and use at the same time with the main works.



(三) 关于设备设施及配套工程安全管理

本章节包括设备设施、特种设备、配套工程、安全标识和安全设施等五方面内容，其中，主要亮点体现在对冷库用冷媒的安全管理、对自动控制系统的中央级监控管理系统的规定，以及凸显了安全标识的设置和执行。



对人体有害，请注意防护		
氨	危害信息	理化特性
	侵入途径：吸入、食入。 健康危害：吸入后对鼻、喉和眼有刺激性，引起咳嗽、气短和哮喘等；可因喉头水肿而窒息死亡。可发生肺水肿，引起死亡。氨水溅入眼内，可造成严重伤害甚至导致失明；皮肤接触可引起灼伤。慢性影响：反复低浓度接触，可引起支气管炎，皮肤反复接触，可致皮炎，表现为皮肤干燥、痒、发红。	溶于水、醇。 无色透明液体，有强烈的刺激性臭味
急救处理		
 当心有毒	皮肤接触：立即用水冲洗至少15分钟。若有灼伤，就医治疗。 眼睛接触：立即提起眼睑，用流动清水或生理盐水冲洗15分钟，或用3%硼酸溶液冲洗，立即就医。 吸入：迅速脱离现场至空气新鲜处，保持呼吸道通畅，如呼吸困难，给输氧；如呼吸停止，立即进行人工呼吸，就医。 食入：饮足量温水，催吐，就医。 灭火方法：雾状水、二氧化碳、砂土。	
	防护措施	
呼吸系统防护：可能接触其蒸气时，应该佩戴防毒面具。紧急事态抢救或逃生时，建议佩戴自给式呼吸器。 眼睛防护：佩戴化学安全防护眼镜。防护鞋：穿工作鞋。手防护：佩戴化学用品手套。其他：工作现场禁止吸烟、进食和饮水。工作后，淋浴更衣，保持良好的卫生习惯。		
     		

c. Safety Management of Equipment, facility and supporting project

- Including five aspects: equipment and facility, special equipment, supporting project, safety identification and safety facility.
- The highlighted points including:
 - Safety management to the refrigerant used in refrigerators
 - Regulations on central monitoring and management system of automatic control system
 - Setting and execution of safety identification

重大危险源危险物质安全告知牌

(四) 关于现场作业安全管理

本标准对现场作业安全管理进行了细分，分别从安全组织机构与人员、现场作业、安全生产制度与档案、设备设施维修保养、安全隐患排查治理、重大危险源等六个方面规定。



ammonia 液氨 NH ₃	UN NO.1017	生产(或贮存)场所最大数量
	CN NO. 23002	60吨

危险

高毒
具有氧化性、强刺激性



危险性	泄露处置
-----	------

- 对眼、呼吸道粘膜有刺激作用
- 急性中毒：轻度者出现气管炎和支气管炎；中度发生支气管炎或间质性肺水肿；重者发生肺水肿、昏迷和休克
- 吸入极高浓度氨气，引起迷走神经反射性心跳骤停或喉头痉挛而发生“电击样”死亡
- 皮肤接触液氨或高浓度氨，暴露部位可有灼伤或急性皮炎
- 对环境有严重危害运载水体可造成污染

- 撤离现场无关人员至上风处
- 进行隔离，严格限制出入
- 戴自给自压式呼吸器、穿防毒服
- 切断泄漏源
- 合理通风，加速扩散
- 喷雾状水稀释、溶解
- 将泄漏物导入还原溶液

储运要求	急救
------	----

- 储运二阴凉、通风仓间内，仓温≤30℃
- 远离火种、热源，防止阳光直射
- 应与易燃或可燃物、金属粉末分开储运
- 储存区要低于自然地面的围堤
- 搬运时要轻装轻卸
- 勿在居民区和人口密集处停留

- 脱离污染环境至空气新鲜处，必要时人工呼吸和胸外心脏按压
- 脱去污染的衣着，大量流水冲洗
- 就医

灭火方法

- 切断气源，喷水冷却容器
- 雾状水、二氧化碳

防护措施



d. Safety Management of On-Site Operation



The local standard subdivides the safety management of on-site operation into 6 parts, including: organization and personnel, on-site operation, safety production system and record, maintenance of equipment and facilities, investigation and management of potential risks, and major hazards.

(五) 关于应急管理

本章节主要从应急机构和队伍，应急预案，应急物资，应急演练等四个角度进行切入，这为保障全省冷库应急安全管理提供了很好的支撑作用。



e. Emergency Management

Including emergency agencies and teams, emergency plans, emergency supplies, and emergency drills. This program provides an instrumental and good support to guarantee the implementation of emergency safety management of refrigerators throughout the province.



(六) 关于安全监督管理

本章节突出安全监督管理这一环节，明确提出企业应强化和落实其安全生产工作的主体责任，加强对冷库的安全管理工作；要积极发挥行业协会的管理作用，为企业提供安全生产方面的信息、培训等服务，促进冷库安全管理规范化、标准化。



f. Safety Supervision and Management

Emphasis on the responsibility of enterprises to implement the safety management. The Association should take the management role to provide information of safety production and training, promote the standardization of safety management of refrigerator.



A blue ribbon graphic with the text "Thank You!" written on it. The ribbon is curled at the ends, and the text is in a white, sans-serif font.

Thank You!

分享完毕



约克食品冷冻解决方案

——食品加工&冷藏物流

York Food Refrigeration Solution

——Food Processing & Cold Storage

唐恒博
制冷系统应用工程师

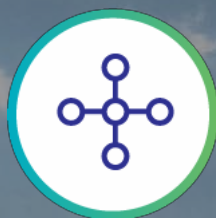
Herbert Tang
System Application
Engineer, York





Product Description
and Developments

产品概述
发展历程



Solutions

解决方案



Case Studies

案例介绍

品牌历史
Brand History



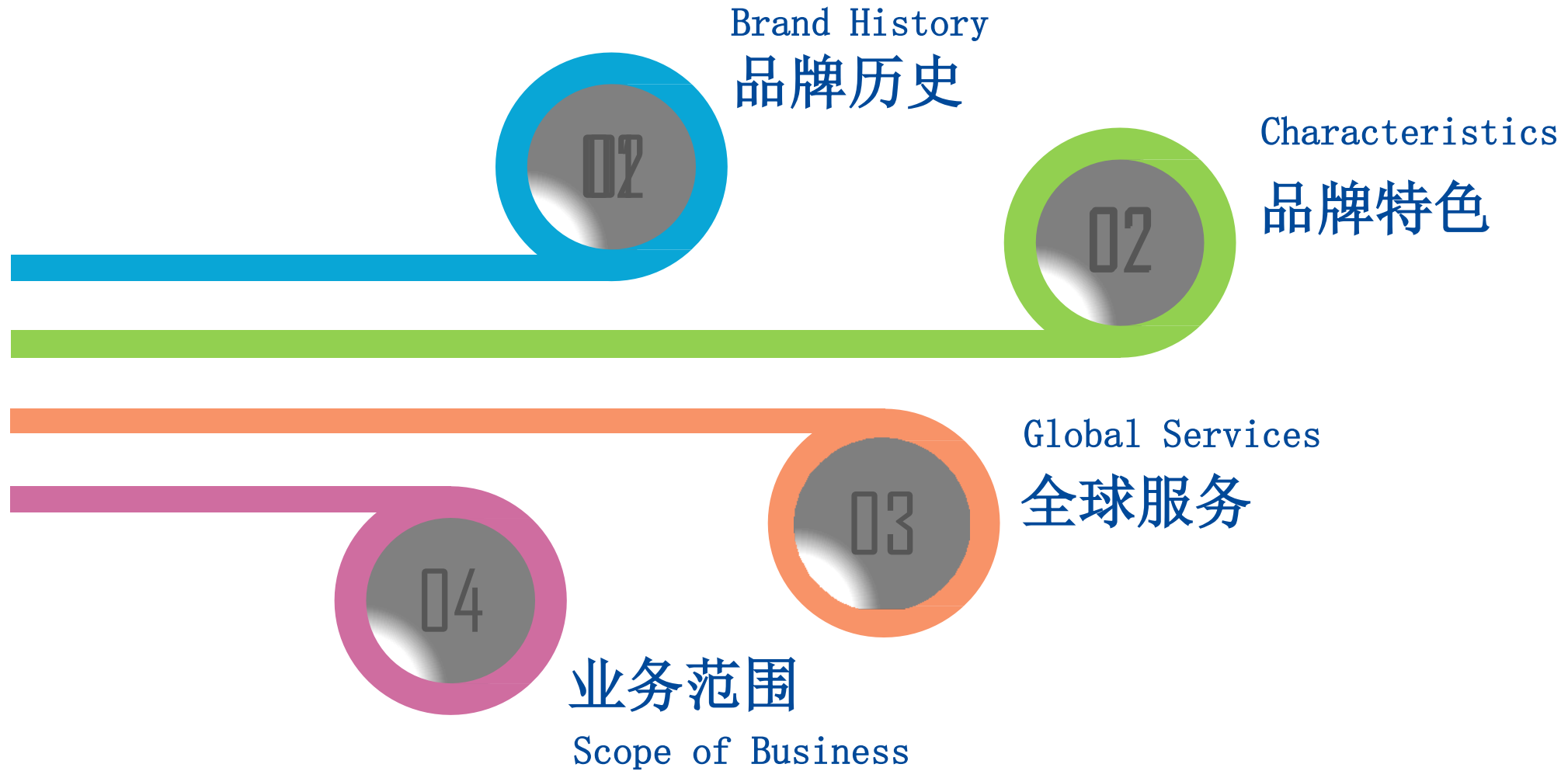
Product Type and
Applicability

产品类型
产品应用



变频控制
Frequency
Control







江森自控工业冷冻的起源可追溯到1853年，旗下包括YORK®，Frick，SABROE等多个全球著名的工业冷冻品牌，160多年来，江森自控工业冷冻一直致力于不断创新发展制冷技术与产品，已无可争议地成为全球工业冷冻市场的领导者。2005年，约克国际成为江森自控的一员，强强联手后的整合优势令业界瞩目。

The origins of Johnson Controls industrial refrigeration can be traced back to 1853, including YORK®, Frick, SABROE and many other world-renowned industrial refrigeration brands. For more than 160 years, Johnson Controls Industrial Refrigeration has been committed to continuous innovation and development of refrigeration technology and products, and has undoubtedly become the global leader in the industrial refrigeration market. In 2005, York International became a member of Johnson Controls, and the integration advantage after the combination of strengths has attracted the attention of the industry.

品牌特色

Characteristics



承载多个著名品牌 Carrying many famous brands

工业和食品冷冻应用解决方案
Industrial and food refrigeration application solutions

160年应用经验 160 years of experience

全球服务 Global Services

美国，欧洲，亚太全球3大设计和制造基地及全球多个工厂提供优质的服务和产品

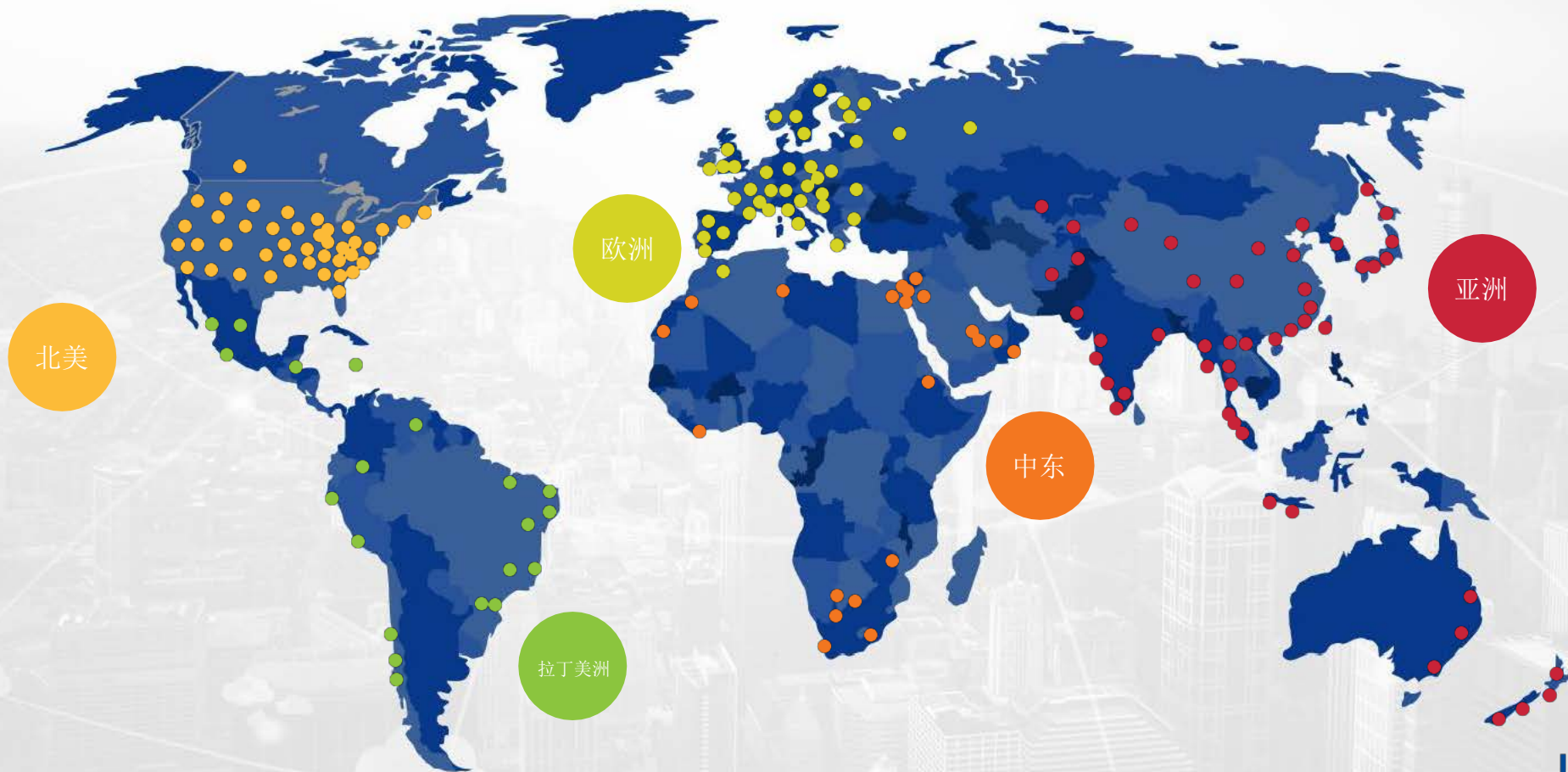
Provides quality services and products in the United States, Europe, Asia Pacific - 3 global design and manufacturing bases and many factories around the world



全球服务 Global Services

全球5大洲，300多个分支机构超过3000专业技术人员为全球客户提供优质便捷的服务

More than 3,000 professional technicians from more than 300 branches in 5 continents provide high quality and convenient services to customers all over the world.



业务范围 — 食品冷冻业务 Scope of Business - Cold Storage



Product Overview

产品概述

01

Development

发展历程

02

RWK系列螺杆式制冷机组 RWK Series Screw Refrigeration Unit

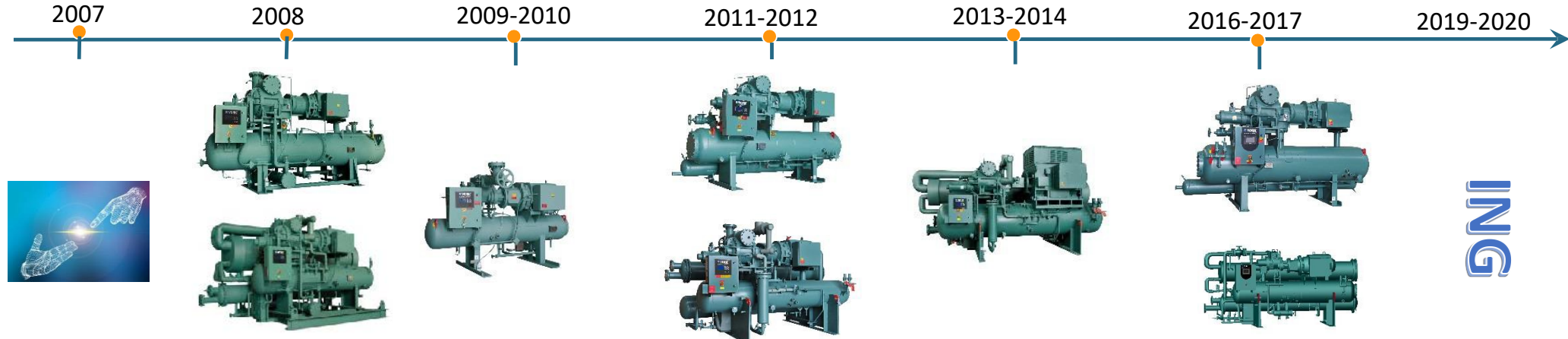
RWK系列螺杆式制冷机组能根据用户项目需要提供包括 [压缩机组](#)、[压缩冷凝机组](#) 及 [盐水机组](#)，采用[模块化](#)设计，供货方式灵活。

The RWK series screw refrigeration unit can provide compressor unit, compression condensing unit and brine unit according to the needs of users. It has a modular design and flexible delivery.

RWK系列机组可提供：**The RWK series units offer:**

- 压缩机组 --- Compressor Unit (CM)
- 压缩冷凝机组 --- Condensing Unit (CU)
- 盐水机组 --- Brine Chiller (BC/RC)
- 冰场盐水/冰机机组---IC/EC

RWK系列产品的发展 Development of RWK Product Series



- 业务及技术可行性分析

- RWK-CM (R717 R22) (40,65,100)
- RWK-BC (R22) (40,50,65,85,100)
- RWK-CU (R22) (40,65,100)

- RWK-CM(20)

- RWKII-CM (20,40,65,100)
- RWKII-BC (40,50,65,85,100)
- RWKII-RC (40,50,65,85,100)
- RWKII-CU (40,65,100)

- RWKII-CM (55)
- RWKII-BC (40,65,new)
- RWKII-RC (40,65,new)
- RWKII-CM (25,30,20new)

- RWKII-CMPlus
- RWKII-BC Plus
- RWKII-RC Plus
- RWKII-CU Plus
- RWKII-IC
- RWKII-EC

- RWKII Plus 全系列产品已经上市，分别针对食品冷冻业务和工业冷冻业务；
- RWKII Plus 带有新一代 Smart View II 控制中心，并全面采用电子膨胀阀；
- RWKII-CM Plus 系列完成 VSD 应用标准化设计，电机转速可提高至 3600rpm(60Hz)；
- RWKII-CM Plus 系列即将推出 R507 标准机组；
- RWKII-IC/EC 系列是针对溜冰场应用开发的乙二醇机组，采用 R507 制冷剂，满足市场对制冷剂更新的需求。
- 产品覆盖中国区 **90+%** 食品冷冻市场应用。

The RWKII Plus full range of products are available for the food freeze business and industrial refrigeration business;
 The RWKII Plus features a new generation of Smart View II control centers and fully electronic expansion valves;
 The RWKII-CM Plus series completes the standardized design of VSD applications and the motor speed can be increased to 3600 rpm (60 Hz);
 The RWKII-CM Plus series will soon be available with the R507 standard unit;
 The RWKII-IC/EC series is an ethylene glycol unit developed for ice rink applications, using R507 refrigerant to meet the market demand for refrigerant renewal.
 The product covers 90+% of the food freezing market in China.

江森自控约克冷冻产品类型及应用介绍 Product Type and Applicability

Product Series

产品系列

01

Application & Market
应用市场

02

Product Type
产品类型

03

设计特点

Characteristics of Design

04

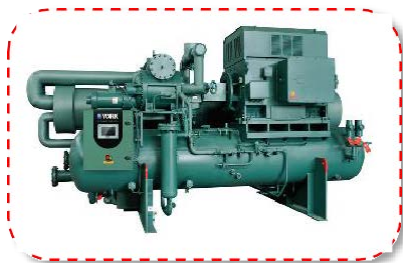
我们的产品可用于R717，R22和R507系统 Our products are available for the R717, R22 and R507 systems



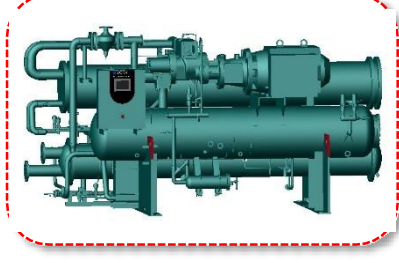
RWK II-CM
螺杆式压缩机
20、25、30、40、
55、65、100



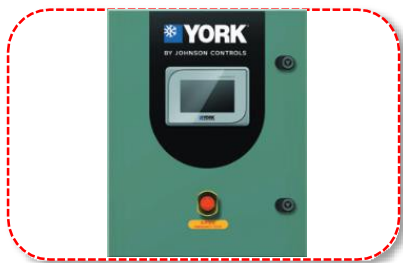
RWK II-CU
压缩冷凝机组



RWK II-RC/BC
盐水机组



RWK II-IC/EC
冰场盐水/冰机机组



Smart View II 控制器



RSV风冷变频启动柜



RWK II 20-CM

RWK II 40-CM

RWK II 25-CM

RWK II 55-CM

RWK II 30-CM

RWK II 65-CM

RWK II 100-CM

应用范围

- ◆ 制冷剂: R717 / R22 / R507
- ◆ 安装条件: 1) 室内安装, 安全区域
2) 环境温度范围: 4°C ~ 45°C
3) 防护等级: IP23或同等
- ◆ 电源要求: 220V/1P/50Hz, (控制中心/油加热器)
380V/6kV/10kV/3P/50Hz, (定频电机)
380V/3P/60(50)Hz, (变频电机)
- ◆ 冷凝温度: 24 ~ 43 °C, (配热虹吸油冷)
24 ~ 45 °C, (配水冷油冷或喷液冷却)
24 ~ 40 °C, (VSD及R507应用)
- ◆ 蒸发温度: - 45 ~ +5°C, (R717)
- 45 ~ 0°C, (VSD及R507/R22应用)

Application range

Refrigerant: R717 / R22 / R507

Installation conditions:

1) Indoor installation, safe area

2) Ambient temperature range: 4 °C ~ 45 °C

3) Protection level: IP23 or equivalent

Power requirements: 220V / 1P / 50Hz, (control center / oil heater)

380V/6kV/10kV/3P/50Hz, (fixed frequency motor)

Condensing temperature: 24 ~ 43 °C, (with heat siphon oil cooling)

24 ~ 45 °C, (with water-cooled oil cooling or spray cooling)

24 ~ 40 °C, (VSD and R507 applications)

Evaporation temperature: - 45 ~ +5 °C, (R717)
- 45 ~ 0 °C, (VSD and R507/R22 applications)



RWKII 40-CU

RWKII 65-CU

RWKII 100-CU

应用范围

- ◆冷却水进水温度范围：16~37°C；
- ◆冷却水出水温度范围：21~42°C；
- ◆冷却水进出水温差4~8°C；
- ◆水侧污垢系数不大于0.172 m².°C/kW
- ◆蒸发温度范围：0~-45°C

应用场合

速冻
食品加工工艺

Application range

- cooling water inlet water temperature range: 16 ~ 37 ° C;
- cooling water outlet water temperature range: 21 ~ 42 ° C;
- cooling water inlet and outlet water temperature difference 4 ~ 8 ° C;
- The fouling coefficient on the hydrophobic side is not more than 0.172 m². °C/kW
- Evaporation temperature range: 0 ~ -45 ° C

Application

Quick freezing
Food processing technology





RWK II 40-BC

RWK II 40-RC

RWK II 55-BC

RWK II 55-RC

RWK II 65-BC

RWK II 65-RC

RWK II 100-BC

RWK II 100-RC

应用范围

- ◆冷却水进水温度范围：20~35°C
- ◆冷却水出水温度范围：25~40°C
- ◆冷却水进出水温差4~8°C
- ◆载冷剂进水温度范围：0~-20°C
- ◆载冷剂出水温度范围：-5~-25°C
- ◆载冷剂进出水温差4~8°C

应用场合

啤酒/饮料/乳品加工
食品加工工艺
特种环境模拟空气调节

Application range

- Cooling water inlet water temperature range: 20 ~ 35°C
- Cooling water effluent temperature range: 25 ~ 40 °C
- Cooling water inlet and outlet water temperature difference 4 ~ 8°C
- Coolant cooling water temperature range: 0 ~ -20 °C
- Coolant cooling water temperature range: -5 ~ -25 °C
- Carrying agent inlet and outlet water temperature difference 4 ~ 8°C

Application

Beer/beverage/dairy processing
Food processing technology
Special environment simulation air conditioning





应用范围

- ◆冷却水进水温度范围：21~32°C
- ◆冷却水出水温度范围：26~37°C
- ◆冷却水进出水温差5°C
- ◆载冷剂出水温度范围：-15~-10°C
- ◆载冷剂进出水温差2°C

Application range

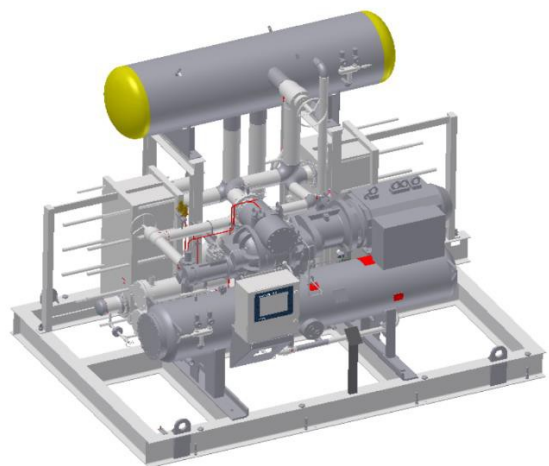
- Cooling water inlet water temperature range: 21 ~ 32 ° C
- Cooling water effluent temperature range: 26 ~ 37 ° C
- Cooling water inlet and outlet water temperature difference 5 ° C
- Coolant cooling water temperature range: -15 ~ -10 ° C
- Carrying agent inlet and outlet water temperature difference 2 ° C

型号	RWKII 35-IC	RWKII 35-EC	RWKII 39-IC	RWKII 39-EC	
冷凝器型式	水冷	蒸发冷	水冷	蒸发冷	
压缩机	XJF151L		XJF151N		
设计工况	制冷量	400 kW		450 kW	
	乙二醇进出口温度	-11°C/-13°C		-13°C/-15°C	
	冷却水进出口温度	32°C/37°C	-	32°C/37°C	-
	冷凝温度	-	36°C	-	36°C



X-PAC约克模块化紧凑型冷（盐）水机组

X-PAC York Modular Compact Cold (salt) Water Unit



产品定位： 食品行业、工艺冷却、空调应用等。

应用场合： 食品行业：啤酒、乳制品、可乐、咖啡（空调 工况/工艺盐水工况）；

工艺冷却：制药行业（工艺

盐水工况） **市场需求：**

- 1.热虹吸蒸发器，高COP值；
- 2.采用最环保的制冷剂--氨；
- 3.极低的制冷剂充注量，提高安全性；
- 4.紧凑设计使现场安装容易，便捷；
- 5.拥有专利技术的自动引射回油技术确保机组高效运行；
- 6.不锈钢板式换热器确保长期无故障运行

Product positioning: food industry, process cooling, air conditioning applications, etc.

Application: Food industry: beer, dairy products, cola, coffee (air conditioning / process brine conditions);
Process Cooling: Pharmaceutical Industry (Processing Salt Water Condition) **Market Demand:**

1. Thermosiphon evaporator, high COP value;
2. Using the most environmentally friendly refrigerant - ammonia;
3. Very low refrigerant charge to improve safety;
4. Compact design makes on-site installation easy and convenient;
5. The patented automatic ejector oil return technology ensures efficient operation of the unit;
6. Stainless steel plate heat exchanger ensures long-term trouble-free operation

Learn to pronounce

X-PAC 68

X-PAC 134

X-PAC 85

X-PAC 177

X-PAC 101

X-PAC 222

X-PAC 270



RWK II -CM型螺杆压缩机组

RWK II -CM Screw Compressor Unit

High efficiency double rotor
screw compressor
integrated suction filter

高效双转子螺杆压缩机集成吸气滤芯

专配冷启动阀的
无油泵可靠运行

Oil-free pump with cold
start valve for reliable
operation

热虹吸油冷却器

Thermosiphon oil cooler

微米级超级油过滤器
(背面)

Micron super oil filter
(Back)

全自动微电脑控制中心

Fully automatic microcomputer control center

压缩机和电机采用D法兰柔性连接

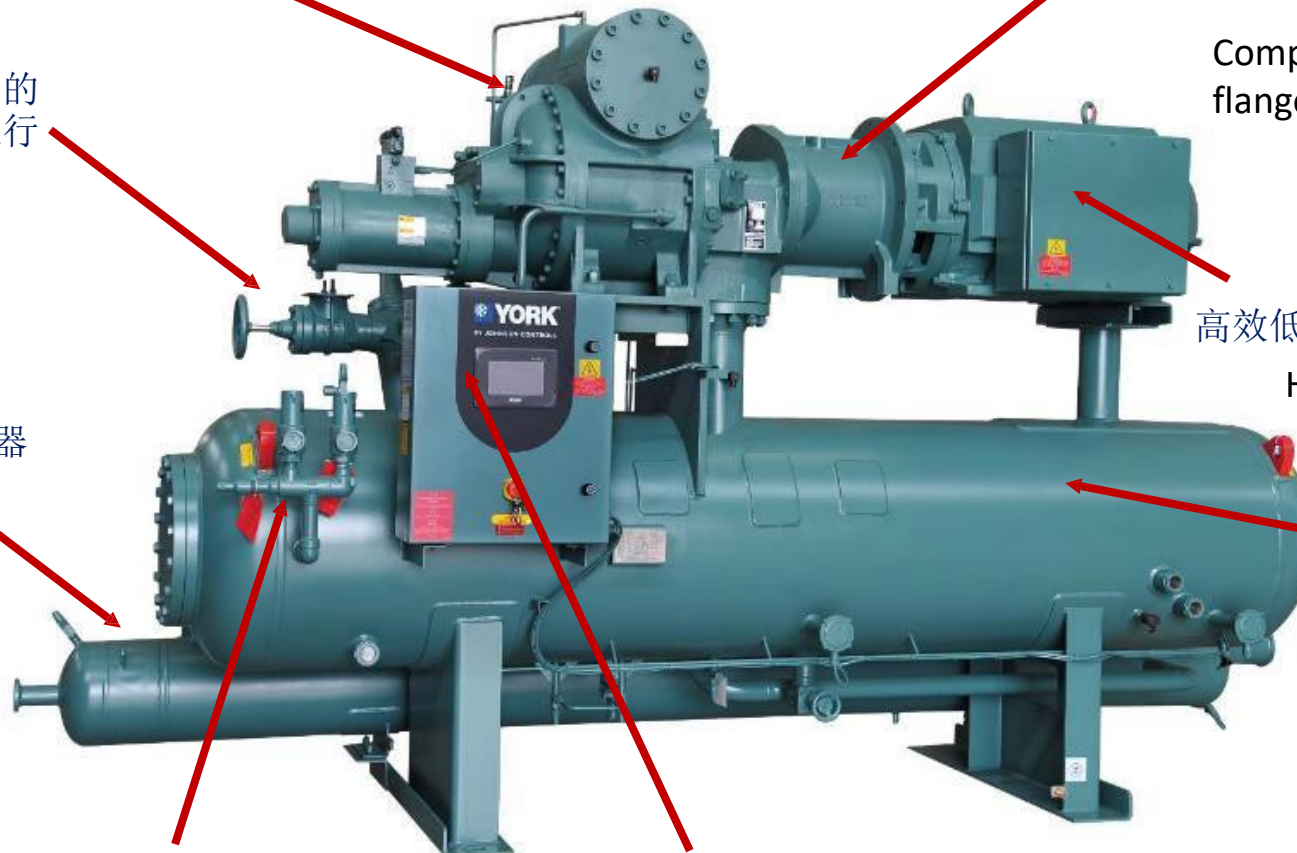
Compressor and motor with D
flange flexible connection

高效低噪电机

High efficiency low noise motor

三级分离
油分离器

High efficiency low noise motor



**我们致力于创造安全，节能，高效，智慧化的制冷系统
为推动用户的可持续发展而努力！**

**We are committed to creating safe, energy efficient, efficient
and intelligent refrigeration systems that work to drive
sustainable user development!**



约克冷冻，百年精湛，信赖传承！



近年氨库制冷系统存在的安全 问题、整改措施及现状

Problem, Reform Activities and Current
State of the Safety in the ammonia
storage refrigeration system

陈鹏棠
电话：13710746459

内容提纲



Content and Outline



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Existing Safety Issues



具体整改措施

Detailed Reform Activities



整治后的现状

Current State after the Reform Activities



01

存在的安全问题

Existing Safety Issues



01 存在的问题 Existing Safety Issues

2013年11月前 Before November 2013

Insufficient administrative supervision. Many regional safety regulatory authorities do not act as a guide to the special equipment and safety facilities in the ammonia storage refrigeration system.

Lack of supervision

监管不足

行政监管力度不足，存在监管不到位死角。很多地区安全监管不作为，对氨库制冷系统中的特种设备和安全设施无纳入监管范围。

Inadequate safety clearance

安全间距不足

冷库位置与周边建筑物安全间距不符合现行安全规范要求。

The safety clearance between the location of the cold storage and the surrounding buildings does not meet the requirements of current safety regulations.

The design of the ammonia-related pressure pipeline does not comply with the provisions of the "Pipeline Safety Technical Supervision Regulations - Industrial Pipeline" (TSG D0001-2009) and "Cold Storage Design Specification" (GB50072-2010).

Not in compliance

不合法规

涉氨压力管道设计不符合《压力管道安全技术监察规程——工业管道》(TSG D0001—2009)和《冷库设计规范》(GB50072—2010)的规定。

No relevant qualifications

无相关资质

涉氨特种设备和压力管道的安装施工由无资质单位承担。同时无第三方对其质量安全进行监督检查。焊接质量差，埋下重大安全隐患。

The installation and construction of special ammonia-related equipment and pressure pipelines be undertaken by unqualified units. At the same time, no third party supervises and inspects its quality and safety. The welding quality is poor and a major safety hazard is buried.



01 存在的问题 Existing Safety Issues

2013年11月前 Before November 2013

Improper Craftsmanship

工艺不当

热氨融霜工艺不当，无有效防止产生超压、液击的控制装置。

The hot ammonia defrost process is improper, and there is no control device that effectively prevents overpressure and liquid shock.

Improper Location

场所不当

在人员密集场所，用氨作冷媒直接蒸发制冷。

In a crowded place, ammonia is used as a refrigerant to directly evaporate and cool.

Failure to adhere to main responsibilities

不落实主体责任

企业主体责任无落实，无设立专职安全管理机构，无制定各项管理制度和各项操作规程，无运行记录和交接班记录，无建立事故应急预案，无建立事故应急演练制度及定期演练等。

There is no implementation approach of the main responsibility of the enterprise, no full-time safety management organization, no management system and various operational procedures, no operational records and handover records, no emergency response plans, no emergency response drills and regular drills.



01 存在的问题 Existing Safety Issues

2013年11月后 After November 2013

2013年8月31日，上海翁牌冷藏实业有限公司发生氨泄漏事故，造成15人死，25伤。

On August 31, 2013, an accident of ammonia leakage occurred in Shanghai Weng Brand Refrigeration Industry Co., Ltd., causing 15 deaths and 25 injuries.

Since then, the government regulatory authorities have strengthened the enforcement of law enforcement and accountability systems, and closed down and rectified the ammonia-related systems that did not meet the requirements.

此后，政府监管部门加强了执法力度和问责制度的执行，对不符合要求的涉氨系统限期关停和整改。

On June 3, 2013, the fire accident of Jilin Baoyuan Feng Poultry Industry killed 121 people and 76 people were injured. The main plant and equipment of 17,234 square meters were damaged. The direct economic loss was 182 million yuan.



2013年6月3日，吉林宝源丰禽业火灾爆炸事故，共造成121人死亡，76人受伤，17234平方米主厂房及设备损毁，直接经济损失1.82亿元。

2013年11月4日，国家质检总局发布《质检总局特种设备局关于氨制冷装置特种设备专项治理工作的指导意见》质检特函[2013]61号文，有针对性对涉氨制冷系统提出了专项整治要求。

On November 4, 2013, the General Administration of Quality Supervision, Inspection and Quarantine issued the "Guiding Opinions of the Special Equipment Bureau of the General Administration of Quality Supervision, Inspection and Quarantine on the Special Treatment of Ammonia Refrigeration Equipment Special Equipment", Quality Inspection Letter [2013] No. 61, targeted to ammonia refrigeration.



02

具体整改措施

Detailed Reform Activities

具体整改措施 Detailed Reform Activities

The pressure vessel and pressure pipeline in the ammonia-related system must pass the inspection by the inspection agency, and it has to be used within the reporting period after the registration certification was granted.

1、涉氨系统中的压力容器和压力管道必须经检验机构检验合格，办理使用登记证后，并在有报告有效期内使用。

Propose specific welding technical requirements and non-destructive testing requirements for the quality of welded joints of new or old built refrigeration pipelines for ammonia refrigeration systems.

2、对新建或旧建涉氨冷库制冷系统压力管道的焊接接头质量提出具体焊接技术要求和无损检测要求。

3、液氨贮罐：（1）、主输液管设紧急切断阀。（2）、设高低液位报警装置。（3）、上方设氨气浓度报警仪，并与防爆型事故排风机联锁。（4）设紧急泄氨器，其排水应单独排至泄氨水池。（5）罐区上方设消防喷淋系统，并设紧急事故水池。

Liquid ammonia storage tank: (1) The main infusion tube is equipped with an emergency shut-off valve. (2) Set high and low liquid level alarm devices. (3), set the ammonia concentration alarm device on the top, and interlock with the explosion-proof accident exhaust fan. (4) An emergency ammonia eliminator shall be provided, and the drainage shall be discharged separately to the effluent ammonia pool. (5) A fire-spraying system is installed above the tank area, and an emergency pool is provided.



It is strictly forbidden to use ammonia as a refrigerant to directly evaporate and cool in crowded places.

4、严禁在人员密集场所用氨作冷媒直接蒸发制冷。

The high pressure exhaust pipe of the refrigeration compressor and the liquid outlet of the refrigerant pump shall be provided with a check valve.

5、制冷压缩机的高压排气管道和制冷剂泵出口，应设置止回阀。

The refrigeration room and the regulating station should be equipped with an ammonia gas concentration alarm and interlocked with the explosion-proof accident exhaust fan.

6、制冷机房及调节站应设置氨气体浓度报警器，并与防爆型事故排风机联锁。



具体整改措施 Detailed Reform Activities

7、事故排风机应使用二级负荷供电。

The accident exhaust fan should be powered by a secondary load.

A device, such as a pressure reducing valve, should be installed on the hot ammonia defrost pipeline to prevent overpressure and liquid impact accidents.

8、热氨融霜管道上应设减压阀等装置，防止产生超压、液击事故。

9、明确管道系统内的阀门不得使用铸铁阀门。

It is clear that valves in the piping system must not use cast iron valves.



Eye wash and shower devices should be installed between the ammonia machine room and the equipment room.

10、氨机房和设备间应设置洗眼和淋浴装置。

11、强化企业主体责任，建立企业内部安全管理体系：
(1)、现场作业安全管理：(1.1)、安全组织机构与人员管理。(1.2)、现场安全管理。(1.3)、作业安全管理。(1.4)、安全生产制度与档案管理。(1.5)、设备维修保养管理。(1.6)、安全隐患排查治理要求。(1.7)、重大危险源管理。
(2)、应急管理：(2.1)、应急预案。(2.2)、应急机构和队伍。(2.3)、应急设施、装备、物资。(2.4)、应急演练。
(3)、安全监督管理：(3.1)、执行国家法律法规工作管理。(3.2)第三方安全评估意见管理。

Strengthen the main responsibility of the enterprise and establish an internal security management system: (1) On-site operation safety management: (1.1), safety organization and personnel management. (1.2), on-site safety management. (1.3), operation safety management. (1.4), safe production system and file management. (1.5), equipment maintenance and management. (1.6), safety hazard investigation and management requirements. (1.7) Management of major hazards.
(2) Emergency management: (2.1) Emergency plan. (2.2), emergency agencies and teams. (2.3), emergency facilities, equipment, materials. (2.4), emergency drills.
(3) Safety supervision and management: (3.1) Execute the work management of national laws and regulations. (3.2) Third-party security assessment opinion management



03

整治后的现状

Current State after the
Reform Activities

整治后的现状 Current State after the Reform Activities

目前，政府安全监管部门对涉氨企业监管力度很大，大部份涉氨企业都能配合逐一整改，但有些历史原因造成的问题是很难整改的，如涉氨企业机房及罐区位置与周边建筑物的安全距离不足问题。为了满足政府监管部门要求，结合企业生产需要，企业选择了如下途径：

Currently, the government safety supervision department has a strong supervision on ammonia-related enterprises. Most of the ammonia-related enterprises can cooperate, but some historical reasons are difficult to rectify, such as the location of ammonia-related enterprise rooms and tanks. There is insufficient safety distance from surrounding buildings. In order to meet the requirements of the government regulatory authorities, combined with the production needs of enterprises, the company has chosen the following ways:



1、对现氨系统按要求逐项整治。

Renovate the current ammonia system as required.



2、用氟利昂替代氨冷媒。

Replace the ammonia refrigerant with Freon.



3、复叠式制冷。

Multi-layer refrigeration.



4、少量环保冷媒作制冷剂，中冷水为热载体方式。

A small amount of environmentally friendly refrigerant is used as a refrigerant, and intercooled water is a heat carrier.



感谢您的观看

Thank you