

# 江森自控

构建智慧、健康、可持续的未来

The power behind **your** mission

# 近140年来，我们始终致力于推动建筑行业发展

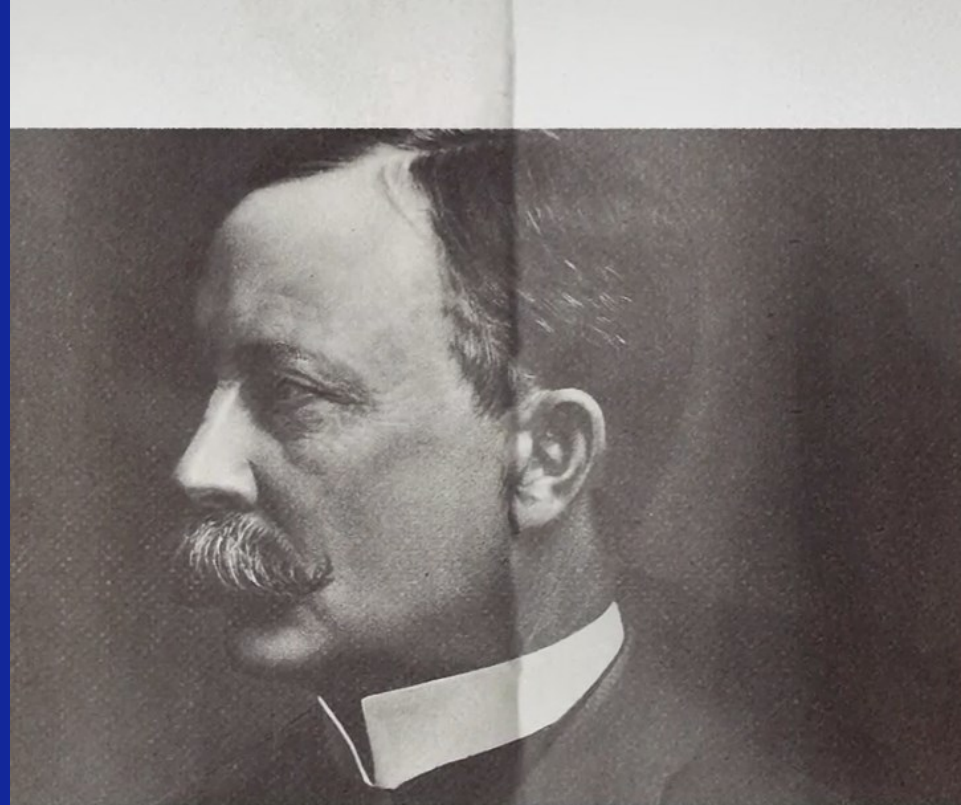
## 过去

1883年，公司创始人Warren Johnson发明了世界上第一台电动温控器，开创了人工智能在建筑领域的先河

## 现在

如今，我们使用行业领先的数字化解决方案、楼宇自控系统和超高效冷热源站系统来实现节能减排目标。与此同时，我们依托世界一流的火灾探测和防护系统以及智慧安防系统来改善空间安全。

我们竭诚为您提供定制化咨询、设计和金融以及安装、改造和智能维护服务，助力您加速迈向智慧、健康、可持续的未来。



## WARREN JOHNSON LAUNCHES NEW COMPANY

In 1885, the Johnson Electric Service Company  
was established in Milwaukee, Wisconsin.

continued to invent additional control He experimented for a time with wirel  
as well as products such as chandeliers, communications, forming the American Wirel

# 江森自控概览

近  
**140 年**  
创新经验

**100,000**  
名全球专家

**150** 个国家和地区  
**2000** 个营业网点

**9,200+**  
有效专利

**400多万**  
全球客户

**7,800万美元**  
过去5年慈善捐款总额

**40+**  
领先可持续发展指数提名

**>3,5200万吨**  
自2000年以来，帮助客户减少的二氧化碳当量 排放

**186万小时**  
过去5年志愿服务时长

**90%**  
全球地标建筑中都有江森自控的身影

**>72亿美元**  
自2000年以来，帮助客户节约的能源及 运营成本

**100%**  
自2022年以来，能源生产力提升幅度



# 江森自控是全球智慧建筑先行者，致力于打造安全、健康、可持续的空间



医疗

助力患者康复痊愈  
助力医生治病救人



体育和娱乐

为观众提供更多的  
互联体验



机场

提升旅行体验



校园

更加优质的学习体验



数据中心

更智慧、更高效、更具  
弹性的数据中心



商业建筑

高性能、面向  
未来的建筑



生命科学

将更多的时间用于科研



学校

鼓舞人心的学习空间



城市

更智慧、更可持续的城  
市

# 全球最广泛的智慧建筑产品、技术、软件和服务组合

## 楼宇管理

- 楼宇自控系统
- 企业管理与空间性能
- 住户和访客应用程序
- AI个性化礼宾服务
- 中央冷热源站优化系统
- 超融合基础架构
- 数据分析平台
- 冷水机组远程智联服务
- 楼宇、安防和能源管理
- 护理沟通

## 火灾探测

- 事故管理
- 语音告警
- 消防疏散
- 火灾/烟雾探测
- 应急照明
- 数字可寻址消防面板
- 气体探测
- 目标探测

## 自控产品

- 执行器与阀门
- 传感器与恒温器
- 商业冷冻控制
- 专业与关键环境控制
- 工业冷冻控制

## 安防

- 先进视频分析
- 综合运营中心 (PSIM)
- 数字闭路电视监控
- 网络安全
- 门禁控制 (大门、房门、电梯)
- 围界防护
- 入侵检测
- 人数统计
- 手持式门禁控制系统
- 融合安防
- 队列监控
- 误报优化服务
- 增强型内部安全解决方案
- 标准作业程序管理
- 公共广播与疏散系统
- 告警监控

## 暖通空调与工业冷冻

- 风冷和水冷冷水机组
- 吸收式冷水机组
- 屋顶装置、蒸发器、通风机
- 风机/排气装置
- 可变制冷剂流量系统 (VRF)
- 冷梁
- 成套、分体式和小型分体式管道系统
- 混合冷却系统
- 风机盘管 (端子单元)
- 空气处理机组和盘管
- 格栅、寄存器和扩散器
- 热泵
- 气流测量站
- 变风量箱
- 工业冷冻集管
- 卫生空气处理机
- 压缩机成套设备
- 冷凝器和蒸发器
- 低负荷氨系统
- 热交换器
- 替换零件
- 容器
- 变速驱动器

## 服务和解决方案

- 全天候托管服务/告警监控
- 先进振动评估
- 楼宇资产映射和运行状况监控
- 楼宇服务与零部件
- 楼宇范围系统集成
- 储能
- 能源管理
- 创新金融
- 安装服务
- 集成服务
- 照明与节能改造
- 维护管理
- 运维
- 运营智能与损失预防
- 性能基础架构改进
- 预测性维护
- 可再生能源系统
- 风险评估
- 安防资产监控与追踪
- 系统设计与集成
- 技术基础设施改进
- 租户管理
- 升级管理
- 供水系统和设备升级

## 消防灭火

- 自动喷水灭火装置和阀门
- 自动喷水灭火系统设计软件
- 沟槽管道产品
- 细水雾灭火系统
- 餐厅系统
- 车辆系统
- 气体灭火系统
- 泡沫浓缩液和五金件
- 手提式灭火器

## 中国区概况



10  
座制造工厂



1,000  
名员工

\*以上数据包含江森自控和  
江森自控日立空调



# 江森自控品牌



Note: For comprehensive list of brands, visit [www.johnsoncontrols.com](http://www.johnsoncontrols.com)





# A complete range of HVACR solutions for your facilities

## METASYS BUILDING MANAGEMENT SYSTEM

- METASYS SERVER**  
Support of IT standards and technologies, Multi-platform web-based user interface, long-term storage
- OPEN APPLICATION SERVER (OAS)**  
Web-based systems that communicate with the server and allow a capacitor to be a single software offering, with optional, add-on features
- SUPERVISORY NETWORK ENGINE**  
Family of IP connected Supervisory Network Engines for all sizes of building management systems
- SUPERVISORY NETWORK CONTROLLER**  
Family of IP connected Supervisory Network Controllers with advanced load control (30 points)
- GENERAL PURPOSE CONTROLLER**  
BACnet P and MDT General purpose load controller
- INPUT/OUTPUT MODULES**  
A wide variety of configurable input/output (IO) modules
- WAY CONTROLLERS**  
Complete family of programmable controllers suitable for all VAV applications
- TERMINAL UNIT CONTROLLER**  
Complete local control of unitary equipment plus supervisory communication
- INTEGRATED ROOM CONTROLLER**  
Complete family of controllers and actuators for HVAC, light and sound
- FIELD USER INTERFACES**  
Self-configuring touch screen displays or web server user interface options allowing verified access to equipment or controls
- WIRELESS COMPONENTS**  
Wireless field buses and room temperature sensing systems designed with the latest wireless technology
- INTEGRATION SOLUTIONS**  
Interface Metasys with legacy systems, fire and security systems and systems with proprietary and standard protocols

## CRITICAL ENVIRONMENTS SOLUTION

- CRITICAL ENVIRONMENT CONTROLLER & MONITOR**  
Complete line of controllers and monitors for room pressure and fan flow
- VENTILATION VALVE SERIES**  
Complete solution including air valves & fan-acting actuators with Universal Valve Module (UVM)
- SCADA VALVE SERIES**  
Ultra-low pressure drop valve designed with differential pressure flow module (DFM)

## HVAC CONTROL PRODUCTS

- FAN CONTROLLERS**  
Family of controllers and accessories specifically designed for Original Equipment Manufacturer (OEM)
- TERMINAL UNIT VALVES AND ACTUATORS**  
Complete offering of valves and actuators for terminal unit applications
- CONTROL VALVES AND ACTUATORS**  
Ball, globe and butterfly valves with pneumatic and electric actuators
- DAMPERS ACTUATORS**  
Spring and non-spring return rotary actuators for air, fire and smoke dampers
- PLANT SENSORS**  
Plant Temperature, Humidity, CO<sub>2</sub>, Flow, pump, Differential
- ROOM SENSORS**  
Temperature, Humidity, CO<sub>2</sub>, Pressure, Analog and Network models
- ALL IN ONE NETWORK SENSOR**  
Temperature, Humidity, CO<sub>2</sub>, pressure and color display
- THERMOSTATS**  
Line powered Fan Call Thermostats, Stand alone, Modbus, BACnet and RS485 communicating
- SMART THERMOSTAT**  
TIC family offers Proportional, ON/OFF, Multi-stage, automation level controls, Thermostat and color display

## PENN REFRIGERATION PRODUCTS

- RESSING SHUT-OFFS & THERMOSTATS**  
The precision valve, thermostats and humidifiers are designed for refrigeration, cooling, heating, ventilation and air conditioning applications
- ELECTRONIC CONTROLS & TRANSDUCERS**  
The controllers provide a high quality long lasting solution for control of any commercial refrigeration unit
- WATER VALVES & FLOW CONTROLS**  
Control water flow rate to a condenser to directly varying pressure changes in a refrigerant circuit. Used with sea water, swimming pool water,ethylene glycol or other fluids
- FLOW CONNECTED DIGITAL FLOOD SAFETY AND MONITORING**  
A flood-based temperature and alarm management solution for monitoring refrigerant equipment across multiple locations in commercial, food and storage applications, Mobile Accessing (MFA) and
- INDOOR AIR QUALITY OPTIONS**  
Manipulator or Bipolar Ionization, UV-C disinfection solution, Mobile Accessing (MFA) and

## VERASYS SMART CONTROL SYSTEM

- SMART BUILDING HUB**  
Web based control system that provides a mobile user interface to smart equipment based controllers and thermostats
- SMART EQUIPMENT CONTROLLERS**  
Family of controllers and accessories specifically designed for OEM/IC equipment optimization
- VERASYS APPLICATION CONTROLLERS**  
From pre-engineered applications for control of HVAC equipment
- TERMINAL UNIT CONTROLLER PLUS**  
Designed for local equipment control of unitary equipment with BACnet supervisory communication

## YORK CLOSE CONTROL AC UNITS

- Y-C-P SERIES**  
Cooling capacity 7.8 - 362.0 kW  
In wireless DC compression with inverter technology and Inverter DC motor fan, upflow or downflow options, R410A
- Y-C-S SERIES**  
Cooling capacity 43 - 370.2 kW  
Downflow supply, R410A
- Y-C-R SERIES**  
Cooling capacity 28.8 - 34.8 kW  
Horizontal supply, R410A

## YORK AIR HANDLING UNITS & INDOOR AIR QUALITY OPTIONS

- YMA CUSTOMIZE**  
Airflow range: 1,000-20,000 m<sup>3</sup>/h  
2,000Pa static / Outdoor application  
With or without factory-packaged controls included
- YMA MODULAR**  
Airflow range: 2,000-40,000 m<sup>3</sup>/h  
2,000Pa static / Outdoor application  
With or without factory-packaged controls included
- YMB**  
Airflow range: 500-500,000 m<sup>3</sup>/h  
1,000Pa static / Outdoor application  
Factory-packaged controls included
- YBV**  
Airflow range: 400-4,000 m<sup>3</sup>/h  
Inverter, outdoor, pre-packaged units with integral heat recovery device and factory packaged controls
- INDOOR AIR QUALITY OPTIONS**  
Manipulator or Bipolar Ionization, UV-C disinfection solution, Mobile Accessing (MFA) and

## YORK FAN COIL UNITS

- YFC / YFC-ECM**  
Cooling capacity 10.7 - 7.4 kW  
EC Inverter technology, EC fan motor, horizontal or vertical mounting, EC variable speed motor option
- LASER & LOW BODY / LASER & LOW BODY-ECM**  
EC fan motor, horizontal or vertical mounting, EC variable speed motor option
- High static pressure blower YHP-L / YHP-L-ECM / YHP-C / YHP-C-ECM**  
Cooling capacity: 2.1 - 30.4 kW  
up to 200 Pa ESP maximum, ducted and horizontal mounting without cable, EC variable speed motor option
- YVF / YVF-ECM**  
Cooling capacity 4.3 - 27.5 kW  
up to 20Pa ESP  
Horizontal mounting, without cable, EC variable speed motor option
- YVE / YVE-ECM**  
Cooling capacity 1.5 - 10 kW  
Cooling mounted, cascade effect, 2 and 3 pipe version available, EC variable speed motor option
- YHE / YHE-ECM**  
Cooling capacity 1.5 - 10 kW  
Cooling mounted, cascade effect, 2 and 3 pipe version available, EC variable speed motor option
- YHY / YHY-ECM**  
Cooling capacity 1.0 - 8.8 kW  
Horizontal supply, EC variable speed motor option

## YORK ABSORPTION CHILLERS R718 (NATURAL-WATER)

- SINGLE EFFECT HOT WATER OR STEAM DRIVEN**  
YPC SC / YPAC-ELU / YPAC-C  
Cooling capacity 90 - 1,200 kW
- SINGLE EFFECT DOUBLE LIFT HOT WATER DRIVEN**  
YPAK-CL-DS  
Hot Water Leaving down to 40°C  
Cooling capacity 70 - 8,000 kW
- DOUBLE EFFECT STEAM OR HOT WATER DRIVEN**  
YPAK-CW / YPAC-CW  
Cooling capacity 400 - 8,000 kW
- DOUBLE EFFECT DIRECT FRESH WATER-DRIVEN**  
YPAK-CF / YPAC-CF  
Cooling capacity 400 - 8,000 kW
- DOUBLE EFFECT EXHAUST GAS DRIVEN**  
YPAK-CE / YPAC-CE  
Cooling capacity 400 - 8,000 kW
- MULTI ENERGY**  
Hot water & Steam & Exhaust gas  
YPAK-CE-F / YPAC-CE-F  
Cooling capacity 400 - 8,000 kW
- SINGLE OR DOUBLE EFFECT LOW LEAVING 37°C or 4°C**  
Hot water & Steam driven  
YPAK-L / YPAC-L  
Cooling capacity 100 - 2,000 kW

## YORK CHILLERS

- AIR-COOLED**
  - AMCH-4 YVAG**  
Cooling capacity 11.2 - 17.8 kW  
EC Inverter technology, Scroll compressor, R410A
  - YVAG BUNDLED WATER SOLUTION**  
Simple solutions to residential and LC applications using the AMCH-4 together with a touch screen EC-L20 motor controller and thermostats for each zone
  - AMCH YVPA**  
Cooling capacity 44 - 254 kW  
EC Inverter technology, Scroll comp., Hydro kit, R410A and R410A
  - TEMPO YVAA**  
Cooling capacity 198 - 425 kW  
Scroll compressor, Hydro kit, R410A
  - YVAT**  
Cooling capacity 470 - 1,168 kW  
Variable speed screw comp. with HFO, Heat recovery, Hydro kit, R132A
  - YVAA**  
Cooling capacity 548 - 1,524 kW  
Variable speed screw comp., R132A
  - YVAA**  
Cooling capacity 121 - 1,275 kW  
Air-Cooled (S2) Screw Free Cooling, R132A
- WATER-COOLED**
  - YVW/AVMA**  
Cooling capacity 21 - 192 kW  
Scroll compressor, R410A
  - YVW**  
Cooling capacity 151 - 300 kW  
Screw compressor, R410A
  - YVW/AVCA**  
Cooling capacity 178 - 580 kW  
Scroll compressor, R410A
  - YVWA**  
Cooling cap. 312 - 1,589 kW  
Variable speed screw compressor, R132A
  - YVZ**  
Cooling capacity 580 - 4,200 kW  
Variable Speed Centrifugal, Magnetic Bearing, R132A(R)
  - YVAC**  
Cooling capacity 800 - 1,500 kW  
Variable Speed Centrifugal, Magnetic Bearing, R132A
  - YV**  
Cooling capacity 800 - 11,200 kW  
Centrifugal compressor, R132A

## CENTRAL PLANT OPTIMIZATION (CPO)

- CPO SD**  
Intelligent algorithms, advanced Management, storage power best practices and specific equipment efficiency characteristics to save up to 10% energy versus standard automation

## YORK ROOFTOP EQUIPMENT

- VITALITY SPLIT ROOFTOP**  
Cooling capacity 19 - 96 kW  
Avalon fan, Cooling only heat pump, Scroll compressor, R410A
- ACTIVE ROOFTOP**  
Cooling capacity 17 - 84 kW  
Cooling only, Heat pump, Cooling only + Gas heat, Heat pump + Gas heat, R410A
- LANGS ACTIVA ROOFTOP**  
Cooling capacity 100 - 170 kW  
Cooling only, Heat pump, Scroll compressor, R410A

## YORK HEAT PUMPS

- AIR-COOLED (9 pages)**
  - AMCH-4 YVAG**  
Reversible, water up to 52°C  
Cooling capacity 11.2 - 17.8 kW  
Heating capacity: 35.9 - 18.4 kW  
EC Inverter technology, Scroll compressor, R410A
  - YVAG BUNDLED WATER SOLUTION**  
Simple solutions to residential and LC applications using the AMCH-4 together with a touch screen EC-L20 motor controller and thermostats for each zone
  - AMCH YVPA**  
Cooling capacity 44 - 254 kW  
EC Inverter technology, Scroll comp., Hydro kit, R410A and R410A
  - YVAP**  
Reversible, water up to 52°C  
Cooling capacity 120 - 425 kW  
Heating capacity: 348 - 653 kW  
Scroll compressor, Hydro kit, R410A
  - YVA**  
Reversible, water up to 52°C  
Cooling capacity 181 - 620 kW  
Heating capacity: 22.2 - 602.7 kW  
Scroll compressor, R410A and R410A
  - YVZ**  
Reversible, water up to 52°C  
Cooling capacity 22.4 - 386 kW  
Heating capacity: 21.2 - 233 kW  
Screw compressor, R410A and R410A
  - YVZ**  
Reversible, water up to 52°C  
Cooling capacity 22.4 - 42.5 kW  
Heating capacity: 21.7 - 22.8 kW  
Screw compressor, adjustable option R410A and R410A
  - YVWA-HP**  
Reversible, water up to 52°C  
Cooling capacity 21 - 95 kW  
Heating capacity: 24 - 212 kW  
Scroll compressor, R410A
  - YVW**  
Water up to 52°C  
Heating capacity: 37.4 - 272.2 kW  
Scroll compressor, R410A
  - YVWL**  
Water up to 52°C  
Heating capacity: 200 - 700 kW  
Scroll compressor, R410A
  - YVLS**  
Water up to 52°C  
Heating capacity: 400 - 800 kW  
Screw compressor, R132A
  - YVWA**  
Water up to 52°C  
Heating capacity: 800 - 1,500 kW  
Variable speed screw compressor, R132A
  - YVWA**  
Water up to 52°C  
Heating capacity: 1,000 - 5,000 kW  
Variable Speed Centrifugal, Magnetic Bearing, R132A
  - YVAC-HP**  
Water up to 52°C (S2) / 70°C (S4P)  
Heating capacity: 1,000 - 5,000 kW  
Variable Speed Centrifugal, Magnetic Bearing, R132A
  - YV**  
Water up to 52°C (S2) / 70°C (S4P)  
Heating capacity: 1,000 - 11,200 kW  
Hot Water, Steam, Natural Gas or Exhaust Gas driven

## SABROE HEAT PUMPS

- HeatPAC web**  
Water up to 52°C  
Heating capacity: 300 - 2,000 kW  
Refrigerant: ammonia, variable speed only, Ammonia (R717) (50 kg charge)
- HeatPAC**  
Water up to 52°C  
Heating capacity: 400 - 2,000 kW  
Variable speed, Ammonia (R717)
- Controlled heat pump**  
Water up to 52°C  
Heating capacity: up to 13,000 kW  
Screw or Recip compressor, fixed or variable speed

## SABROE INDUSTRIAL REFRIGERATION

- REFRIGERATIVE COMPRESSOR UNITS**
  - CMO**  
Cooling capacity 50 - 150 kW  
Fixed or variable speed, Ammonia (R717), hydrocarbons (HCFC, carbon dioxide), HFCs and defrost blends
  - SMC**  
Capacity: 130 - 1,221 kW  
Fixed or variable speed, Ammonia (R717), hydrocarbons (HCFC, carbon dioxide), HFCs and defrost blends
  - WINDCHILL**  
Heating capacity: 330 - 700 kW  
Cooling capacity: 80 - 100 kW  
Fixed or variable speed, Ammonia (R717), carbon dioxide (R744), hydrocarbons (HCFC, carbon dioxide) and defrost blends
- SCREW COMPRESSOR UNITS**
  - SAB small**  
Capacity: 120 - 180 kW  
Fixed or variable speed, Ammonia (R717), carbon dioxide (R744), hydrocarbons (HCFC, carbon dioxide) and defrost blends
  - SAB large**  
Capacity: 400 - 1,800 kW  
Fixed or variable speed, Ammonia (R717), carbon dioxide (R744), hydrocarbons (HCFC, carbon dioxide) and defrost blends
- AIR-COOLED CHILLER**
  - SABright**  
Cooling capacity: 95 - 400 kW  
Screw compressor, variable speed only, Pressure R410A
- WATER-COOLED CHILLERS**
  - CHIRAC**  
Cooling capacity: 300 - 1,400 kW  
Recip compressor, fixed or variable speed, Ammonia (R717) (50 kg charge)
  - CHIRAC**  
Cooling capacity: 200 - 2,000 kW  
Screw compressor, fixed or variable speed, Ammonia (R717) (low charge)
  - PAC screw or recip**  
Cooling capacity: 300 - 6,200 kW  
Screw or Recip compressor, fixed or variable speed, Ammonia (R717)
  - CHSP low temperature chiller**  
Capacity: 90 - 700 kW  
Fixed or variable speed, Ammonia (R717) (50 kg charge)
- CONTROLS**
  - UNISAB II**  
Integrated systems controller for chillers and heat pumps
  - SABright and SABright plant controller**  
Plug-and-play control panel for plant integration of chillers and heat pumps
- ISAC**  
Monitoring and control interface configuration system for refrigeration

- Eurovent certified
- Remote Air Cooled Option
- Heat Recovery Option
- Heat Pump with high temperature
- Customized units
- Low GWP
- 4 Pipes unit

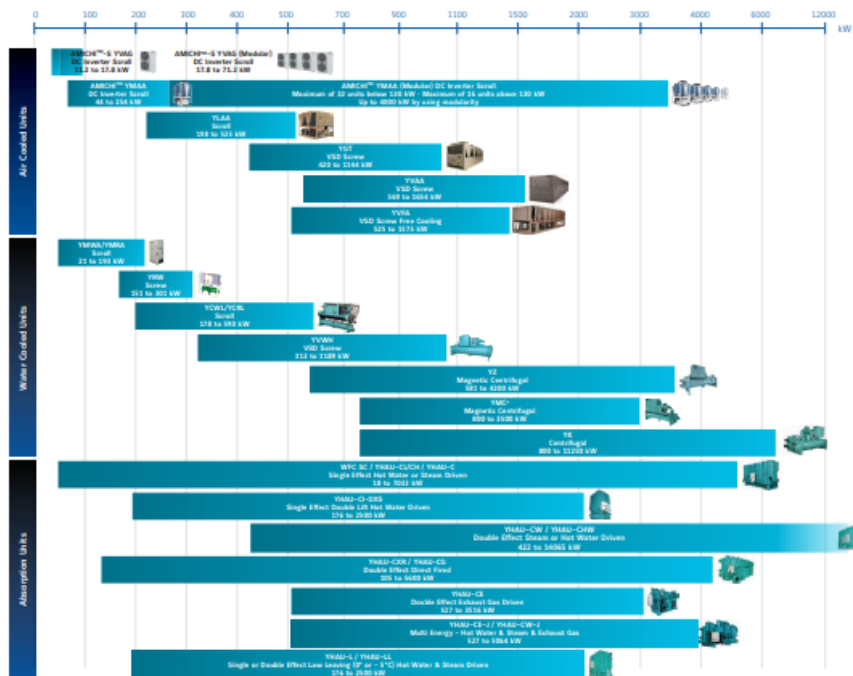
The power behind your mission



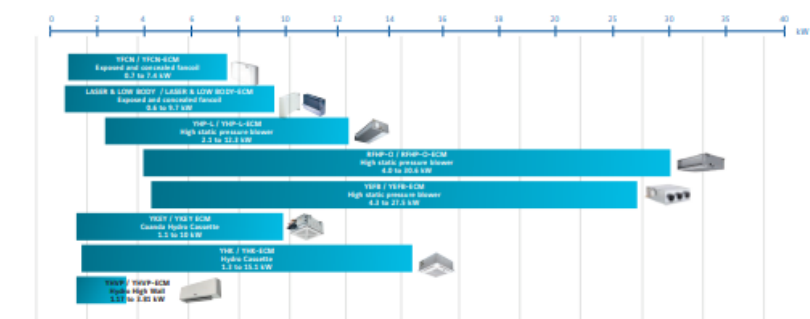
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YORK Chiller Units

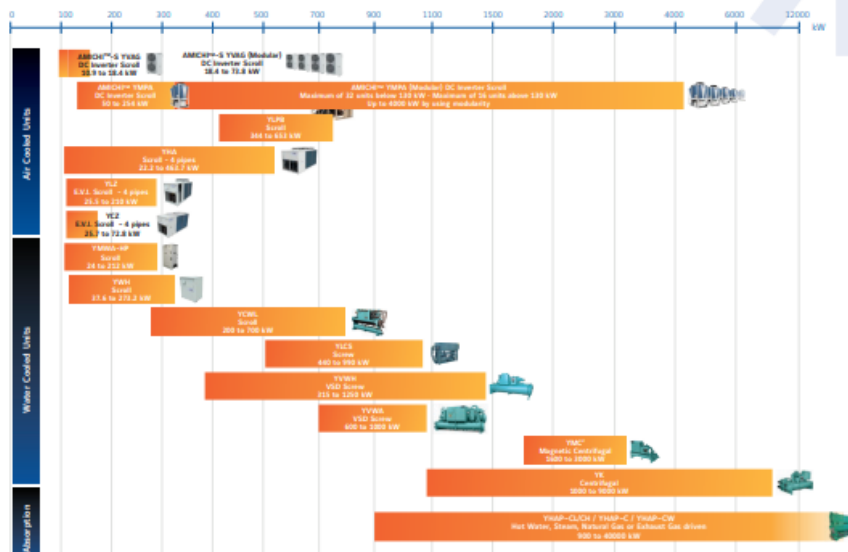


YORK Fancoil Units

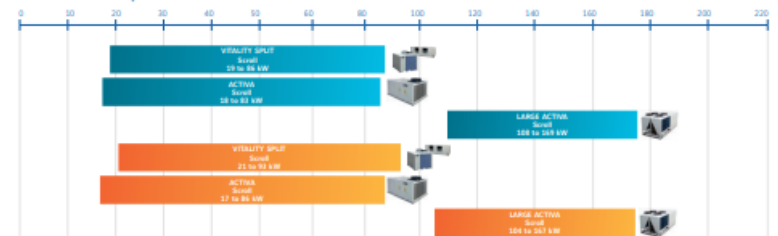


The power behind your mission

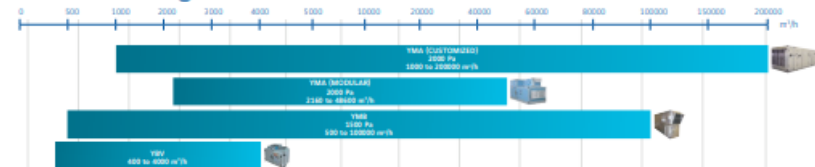
YORK Heat Pump Units



YORK Rooftop Units



YORK Air Handling Units



江森自控  
约克空调产品

# 约克国际历史及其在中国历程



# 江森自控 亚洲技术研发中心（无锡）

江森自控亚洲技术研发中心成立于2004年，工程师人员**500+**，专利授权**177+**，固定资产投资累计超过**2.8亿元**，目前建有国际领先的实验室**60多个**，获得的实验室相关认证包括中国合格评定国家认可委员会（CNAS），国际实验室认可合作组织互认协议（ILAC-MRA），美国制冷空调与供暖协会（AHRI）实验室认证，Intertek认证等。



Controls



Chillers



Advanced Technology



Industrial Refrigeration



Airside



Test Lab





谢谢!





# 无锡工厂- 长江路造基地



厂区鸟瞰图



01

离心式冷水及热泵机组

02

螺杆式冷水及热泵机组

03

工业及食品冷冻机组





# 无锡工厂- 鸿山制造基地



01

大型离心工业余热回收热泵机组

02

溴化锂冷水及热泵机组

03

压缩机, 电子及电器部件

