Discover complete, connected solutions to help you increase comfort, security and efficiency

Building Management Systems

Services & Solutions

Operations, Maintenance, Repairs & Retrofit Services
With service locations across 11 countries and approximately 3,000 highly skilled technicians across Asia, we help facilities perform at optimum levels, extend asset life, reduce repair costs, and realize energy savings

Building Wide Systems Integration (BWSI)
We integrate building systems (HVAC, BAS, fire, security), business systems (finance, IT, communications) and specialty systems (nurse call, distance learning, scheduling) onto a unified, intelligent infrastructure.
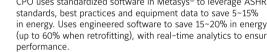
Technology Contracting™
We are responsible for managing design, integration, installation and service of all technologies. Along with innovative partners, we reduce risk, minimize change orders and meet budgets and deadlines.

Energy Solutions
We assess facilities and design a plan to prioritize repairs, upgrade equipment, reduce energy use and improve overall efficiency. Use tomorrow's energy savings to pay for today's upgrades.

Optimization

Central Plant Optimization (CPO)
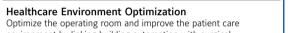CPO uses standardized software in Metasys® to leverage ASHRAE standards, best practices and equipment data to save 5–15% in energy. Uses engineered software to save 15–20% in energy (up to 60% when retrofitting), with real-time analytics to ensure performance.

Healthcare Environment Optimization
Optimize the operating room and improve the patient care environment by linking building automation with surgical scheduling.

Metasys® Enterprise Management
Simplify data collection from a variety of building systems to provide a single, integrated view of building and system performance.

Metasys® Building Automation Systems

Metasys® User Interface & Field Controller Family
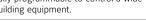Intuitive, mobile-optimized user interface. Adapts legacy and proprietary systems to current open system architecture. Support of IT standards and technologies.

Wireless Components
Field buses and room environment sensing systems designed with the latest wireless technologies.

Valves, Actuators & Dampers
Global product family, broad selection, easy installation.

Sensors, Thermostats & Airflow Measuring System
Temperature, humidity and CO_2 sensors including analog, network, wireless and pneumatic-to-digital.

BCPro™ Building Automation System

BCPro™ User Interface
Easy-to-use graphical user interface arranges equipment in a manner that matches your facility with instant display of building data.

CH-PC Field Controller Family
Fully programmable to control a wide variety of HVAC and other building equipment.

BACNET® Router and Modbus Gateway
Enable control of a wide variety of HVAC equipment, meters, fire alarm panels and lighting and integration with third-party MODBUS equipment. As the heart of the BCPro™ system, the workstation connects all components through the BACnet® IP protocol.

Air Systems

Air Handling Units

YORK® YAM
1,200–200,000 m^3/h
Indoor and outdoor, 50 mm double-wall panels with external frame, variable aspect, Eurovent certified

YORK® YSM
1,195–98,500 m^3/h
Indoor and outdoor, 25/50 mm double-wall panels with external frame, variable aspect, Eurovent & AHRI certified

YORK® YCM
2,000–60,000 m^3/h
Indoor, standard configuration, foam double wall, panels: 25 mm or 50 mm

YORK® YSE
2,000–36,000 m^3/h
Indoor, standard configuration, horizontal and vertical type

Fan Coil Units

YORK® YAH
1,500–15,000 m^3/h
Indoor, exposed and concealed, ceiling mounted cabinet

YORK® YDFC
1,369–3,645 m^3/h
High static ceiling concealed, PSC motor

YORK® YGFC
180–2,380 m^3/h
Exposed and concealed, horizontal and vertical, PSC/BLDC motor

YORK® YEDFC
680–3,500 m^3/h
Concealed, horizontal, EC motor

YORK® YECFC
540–2,700 m^3/h
Concealed, horizontal, EC motor

Variable Air Volume(VAV) Terminals

VAV Terminals
Single-duct: 51–13,600 m^3/h, series or parallel fan-powered: 82–6,970 m^3/h
AHRI certified, flexible factory-packaged controls, water and electric heating options

Electrostatic Precipitation Purification

Kitchen/Industrial ESP
4,000–100,000 m^3/h
Used for kitchen oil fume and industrial dust purification with high efficiency.

Commercial HVAC ESP
400–3,400 m^3/h
Used for AHU, FCU and other HVAC application with high efficiency, low resistance and long lifespan.

TRION® Residential Air Purifier
250–840 m^3/h
Apply to 18–100 m^2 with high CCM, efficiency and low noise performance.

Fire & Hazard Protection

Fire Detection and Alarm Systems
Flexible, reliable, cost-effective and highly scalable systems that can grow and expand as buildings change.

Water-based Fire Suppression Products
Automatic sprinklers, valves and devices, piping and electrical products.

Special Hazard Fire Suppression
Foam concentrates and hardware, clean agent gas suppression, restaurant systems, vehicle systems and fire extinguisher protecting high hazard areas.

Mass Notification Systems
Customizable, multi-tiered technology helps improve situational awareness and response time.

Grooved Piping Products
Cost-effective grooved piping solutions for a full range of fire, mechanical, HVAC and industrial applications.

Flame Detection
Advanced sensor technology for multiple flame detection.

Chillers & Heat Pumps

Water-Cooled

Steam Turbine Driven Centrifugal Heat Pump (YDST)
Heating capacity: 20–40 MW
Refrigerant: R134a
Application: Hot water up to 80°C, Large-scale district heating

Steam Turbine Driven Centrifugal Chiller (YST)
Cooling capacity: 700–2,800 TR
Refrigerant: R134a

Multi-Stage Centrifugal Chiller/Heat Pump (OM)
Cooling capacity: 3,000–5,500 TR, Heating capacity: 12–28 MW
Refrigerant: R134a
Electric-motor, steam-turbine

Centrifugal Chiller Containerized Plant Room (YCP2020)
Cooling capacity: 2,000 TR
Refrigerant: R134a
Series counterflow design

Magnetic Bearing VSD Centrifugal (YZ)
Cooling capacity: 165–1000 TR
Refrigerant: R-1233zd
Optimized for low-GWP (Global Warming Potential)

Magnetic Bearing Variable Speed Centrifugal (YMC²)
Cooling capacity: 165–1,000 TR
Refrigerant: R134a
Permanent magnet motor

Variable Speed Centrifugal (YK)
Cooling capacity: 300–3,000 TR
Refrigerant: R134a

Centrifugal With Economizer (YK-EP)
Cooling capacity: 2,500–3,500 TR
Refrigerant: R134a
Variable-speed drive

Centrifugal (YD)
Cooling capacity: 1,500–6,000 TR
Refrigerant: R134a
Smallest footprint per TR, Variable-speed drive

Compound Centrifugal (CYK)
Cooling capacity: 360–2,000 TR
Heating capacity: 2,500–11,000 kW
Refrigerant: R134a

Premium Efficiency Variable-Speed Screw Chiller (YVWH)
Cooling capacity: 116–450 TR
Refrigerant: R134a

Variable-Speed Screw (YVWE)
Cooling capacity: 103–428 TR
Refrigerant: R134a

Variable-Speed Screw Chiller (YVWA)
Cooling capacity: 120–300 TR
Refrigerant: R134a
Premium efficiency variable-speed screw chiller

Screw Compressor Fixed-Speed Chiller (YGWH)
Cooling capacity: 117–378 TR
Refrigerant: R134a
Premium efficiency screw chiller

Screw (YGWE)
Cooling capacity: 100–430 TR
Refrigerant: R134a

Screw Compressor Fixed-Speed Chiller (YEWS)
Cooling capacity: 100–415 TR
Refrigerant: R134a
4-pipe heat recovery and water source heat pump

Screw Compressor Fixed-Speed Chiller (YGWS)
Cooling capacity: 95–330 TR
Refrigerant: R134a
4-pipe heat recovery as option

Scroll (YCWL)
Cooling capacity: 50–200 TR
Refrigerant: R410A

Air-Cooled

Variable-Speed Screw Chiller W/Free Cooling (YVFA)
Cooling capacity: 150–450 TR
Refrigerant: R134a

Variable-Speed Screw Chiller (YVAA)
Cooling capacity: 150–500 TR
Refrigerant: R134a

Screw Heat Pump (YSPA)
Cooling capacity: 107–475 TR
Heating capacity: 368–1,528 kW
Refrigerant: R134a

Scroll Chiller (YLAA)
Cooling capacity: 56–148 TR
Refrigerant: R410A

Scroll Heat Pump (YLPA)
Cooling capacity: 100–183 TR
Heating capacity: 358–672 kW
Refrigerant: R410A

Modular Chiller & Mini-chiller

Modular Type Air Cooled Chiller/Air Source Heat Pump (YCAE-X)
Cooling Capacity: 65–130 kW
Heating Capacity: 66–131.9 kW
Refrigerant: R410A

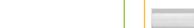**Water Cooled Scroll Chiller (YCWE-E)**
Cooling capacity: 76.2–151.9 kW
Refrigerant: R410A

Modular Type Air Cooled Chiller/Air Source Heat Pump (YMAA/YMPA)
Cooling capacity: 44–255 kW
Heating capacity: 48–255 kW
Refrigerant: R410A

Air Cooled Chiller/Air Source Heat Pump (YVAG)
Cooling capacity: 11.2–40 kW
Heating capacity: 12.6–42 kW
Refrigerant: R410A

Absorption

YORK® YHAU-CG/CA
Cooling capacity: 120–3,200 RT
Double effect natural gas or light oil

YORK® YHAU-CW, YHAU-C
Cooling capacity: 120–4,000 RT
Double effect steam/single effect stream

YORK® YHAU-CL/CH, YHAU-CL/CH-DXS
Cooling capacity: 30–4,000 RT hot water single effect (CL/CH)
Cooling capacity: 50–1,250 RT hot water single effect double lift (DXS)

YORK® YHAP-C,YHAP-CL/CH, YHAP-CG
Heating capacity: 1–40 MW
Customized steam, hot water & direct fired type 1 heat pump

YORK® YHAU-CH-L, YHAU-C-L,YHAU-CW-LL
Cooling capacity: customized, steam/hot water driven 1–0°C, low chilled water
Cooling capacity: customized, stream driven −5°C, ultra low chilled water

Lighting

LED Retrofit Kits
Utilize existing housing and lens
Utilize existing housing with updated lens/look

Area and Street Lights
New fixtures to replace existing HID fixtures

Industrial Refrigeration

YORK® RXF/RWFII Screw Compressor Units
RWF II and RXF rotary screw compressor units leading the food and beverage industry with the most innovative and broadest product range available for industrial applications. Provide swept volumes of between 100 and 9,000 m^3/h.

YORK® RWH Large Screw Compressor Packages
The RWH packages with Frick 408 mm series rotary screw compressors are accommodating a wide range of large-scale process applications, with swept volumes of 7,096–11,630 m^3/h and working pressures up to 4.2 MPa. Flexible design to meet wide range of industry requirements and compliant with API 619 standards.

YORK® RWK II-CM Screw Compressor Units
The RWKII-CM screw compressors are designed and configured to tackle industrial refrigeration requirements where a combination of exceptional reliability, high performance and low operating costs is essential. Provide swept volumes of between 567 and 2,250 m^3/h.

YORK® RWKII-BC/RC Screw Chillers
Packaged chillers based on screw compressors and shell and tube heat exchangers, with a 1,000–2,000 kW capacity range, compact structure and better operating experience, suitable for process cooling application.

YORK® RWKII-IC/EC Screw Chillers for Ice Rink
Packaged chillers based on screw compressors and shell and tube heat exchangers designed for ice rink application, compact structure and better operating experience, suitable for process cooling application.

YORK® RWKII-CU Screw Condensing Units
Packaged condensing units based on screw compressors and shell and tube heat exchangers, with a 1,000–2,000 kW capacity range, compact structure and better operating experience, suitable for process cooling application.

YORK® X-PAC Modular Ammonia Chillers
Packaged ammonia chillers based on screw compressors and plate heat exchangers, with a 600–2,500 kW capacity range and reduce Ammonia charge volume 90% compare shell & tube heat exchanger packages. Compact structure reduce 50% footprint, saving shipment and installation cost.

YORK® CAFP R717/CO₂ Cascade Packages
Compact packaged freezer systems using reciprocating compressors, and CO_2 /ammonia as refrigerant, with a 100–800 kW capacity range, evaporating temperature down to −54°C.

YORK® M Series Multistage Centrifugal Packages
The M Turbomaster multistage centrifugal compressor is designed for heavy industrial use, and has proven itself in over 3,000 demanding gas compression and refrigeration applications worldwide in the chemical, petrochemical, hydrocarbon processing and refining industries. Provide swept volumes from 680 to 44,180 m^3/h.

YORK® YCP-2020 Modular Chiller Plant
Factory pre-packaged chiller system for GTIAC solution, containerized design, compact structure, easy for installation.

Marine & Offshore Solutions

SABROE® Marine Condensing Unit
Cooling capacity from 50–400 kW
Compact skid mounted condensing unit designed to meet the high demands in marine applications.

YORK® GT Chiller
Cooling capacity from 350–1,200 kW
Compact skid mounted marine chiller suitable for water or water-glycol cooling. Industrial type semi-hermetic screw compressors ensure high operational efficiencies with a COP of 5.5

SABROE® Sablight Water Propane Chiller
Cooling capacity from 95–400 kW
Compact water cooled chillers based on a screw compressor. The unit provide a cost-effective alternative to traditional air conditioning.

ChillPAC
Cooling capacity from 100–1,400 kW
Extremely compact packaged ammonia chillers based on reciprocating compressors. The unit is so narrow it can fit through a normal doorway.

Chiller Unit Automation Concept
The chiller unit automation concept integrates control and monitoring of one or two compressor and one or two evaporators.

Air Cooled Condensing Unit
Cooling capacity from 6–47 kW
A condenser coil of copper fins and copper tubes is standard. The unit operates under very high ambient temperatures with adjustable speed according to cooling requirement.

Marine HVAC&R Automation Concept
The HVAC&R automation concept integrates control and monitoring of compressors and air handling units.

Marine Air Handling Unit
Cooling capacity from 30–400 kW
The UTA-M air handling unit has been designed to fit all marine and offshore applications. All parts are to be considered the "state of the art" in this field.

Wall Mounted Unit Suitable for ATEX
Cooling capacity from 5–73 kW
The unit is suitable for E-houses with unit body located outside where appropriate to avoid unnecessary piping.

Wall Mounted SCU (Self Contained Unit)
Cooling capacity from 10–45 kW
The unit is suitable for E-houses and meet the highest market demands for performance and quality.

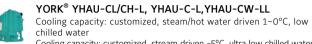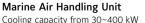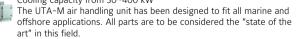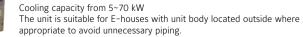## SABROE® CMO/SMC Reciprocating Compressor Units
CMO/SMC compressors are world-renowned for their exceptional reliability, making them an economical, low-maintenance solution for heavy-duty refrigeration, using all common refrigerants. Fifteen different models are available to provide swept volumes of between 97 and 1,357 m^3/h.

SABROE® TCMO/TSMC Two-stage Reciprocating Compressor Units
Two-stage versions of CMO and SMC reciprocating compressors, with swept volumes of 150–1,000 m^3/h.

SABROE® HPO/HPC/HPX High-pressure Reciprocating Compressor Units
High-pressure hybrids of CMO and SMC reciprocating compressors, with swept volumes of 100–450 m^3/h.

SABROE® ChillPAC™ Chillers
Extremely compact packaged ammonia chillers based on reciprocating compressors and shell & plate heat exchangers, with a 100–1,400 kW capacity range.

SABROE® ComPAC™ Chillers
Compact packaged ammonia chillers based on screw compressors and shell & plate heat exchangers, with a 500–2,200 kW capacity range.

SABROE® HeatPAC™ Heat Pump
HeatPAC™ heat pumps are the ideal solution for effectively exploiting low-temperature waste heat, and turning it into hot water (up to 90 °C), using only a minimum of electrical energy.

Command & Control
Turning disparate information sources into real-time actionable intelligence, evaluate situational awareness and provide timely and accurate insights, and its automated workflow results in quicker and more effective operational response that saves lives, protect assets, reduces public damage and minimizes impact to organizations and cities alike.

Intrusion Security
From our revolutionary control panels, to our industry-leading IP alarm monitoring products and sleek, contemporary self-contained wireless panels, DSC has always been front and center in the security space.

Access Control/Biometrics
Controllers, readers, management software and etc help control, track and manage access to any facility, and provide enhanced security with integrated biometrics technologies.

Energy Storage

L1000 In-Building Distributed Energy Storage System
The benefits of advanced battery technology and in-depth building expertise in a small, flexible footprint. Configurable storage capacity in increments of 43 and 65 kWh.

L2000 Modular Distributed Energy Storage System
Scalable system builds on proven design and environmental controls to ensure economical, reliable performance. Storage capacity configured in 500 kWh increments.

Integrated Security

Integrated Security Platform
Our open platform has the flexibility to integrate with a wide range of video, access control, intrusion and other systems, to provide real-time, streaming security command and control in one powerful, intuitive interface.

Video Surveillance, Video Management & Storage
Robust video surveillance systems with full range of cameras, Network Video Recorder (NVR), Video Management Solutions (VMS), monitors and etc provide scalable and integrated solutions as well as advanced video analytics.

Video Based Analytics
This intuitive function uses and converts video analytics or metadata, (e.g. dwell times, people counting and heat mapping) into actionable information that is displayed in graphical, chart or report formats, that enables for quick identification of trends and business intelligence.

Security Monitoring
ADT Security is the world's largest and most experienced monitoring services provider. Across Asia Pacific, our Customer Care Centres monitor in excess of 250,000 alarms, 24 hours a day, every day of the year, responding to a variety of situations from break and entry to fire alarms. Our customer base includes residential homes, shops, banks, offices and government buildings.

Retail Solutions

Loss Prevention
Sensormatic is one of the most trusted names in loss prevention. We offer innovative, top-quality solutions that help combat, shrink and deliver predictive analytics and insights you can use to help improve operational efficiency and create a better shopper experience.

Inventory Intelligence
TrueVUE's Inventory Intelligence harnesses the power of data and gives you a single view of item-level inventory across the enterprise. It provides valuable analytics you can use to drive sales by improving inventory accuracy and ensuring that merchandise is available where and when customers shop.

Traffic Insights
ShopperTrak, part of Sensormatic Solutions, partners with retailers, malls and entertainment venues to help them better understand consumer behavior and leverage that information to increase profitability. Through the use of analytics, ShopperTrak enables clients to increase traffic, conversion and transaction size. Constant innovation, global reach, and benchmarking set us apart. Today, ShopperTrak manages in excess of 150,000 devices and serve more than 2,100 customers worldwide.

Security

Help protect and enhance working and living environments today and tomorrow with integrated, customer-specific solutions from the world's leading security company.

- 24/7 remote monitoring
- Access control
- Advanced video surveillance
- Intrusion detection
- Managed services

Fire & Hazard Protection

Help keep people and assets safe with comprehensive solutions, design, installation, service and monitoring from a world leading fire systems.

- Fire alarm systems
- Fire sprinkler systems
- Valves and devices
- Fire suppression systems
- Mass notification systems
- Special hazard solutions

Optimization & Retrofit Services

Make the most of existing building and financial assets through cost-effective upgrades, central plant strategies, and financing solutions.

- Central chiller plant optimization (CPO)
- Clean energy assessments
- Energy performance contracts
- Energy retrofits
- Equipment financing
- Healthcare environment optimization (HEO)
- Public/private partnerships
- Technology refresh services
- Turnkey upgrades and retrofits

Lighting Controls & Retrofit

Save energy, minimize costs and meet organization goals with a range of services, from busines remodels, to new construction lighting design, to municipal street lights.

- Lighting controls and retrofit
- Street and roadway lighting
- Turn-key lighting upgrades

Energy Storage

Rely on our innovative distributed energy storage products to better manage energy use, cut costs and ensure electrical back-up for a building, campus or enterprise.

- In-building distributed energy storage system
- Modular distributed energy storage system

Building Wide Systems Integration

Construct a smarter building by converging building, business/IT and specialty systems on an intelligent infrastructure. Let us streamline the process to measurably improve initial and lifecycle costs, enhance function, ensure connectivity and create an innovative, optimized, sustainable environment.

Building Services & Parts

Tap into resources of the industry's largest service network for HVAC, security and life-safety system installation and product support. Approximately 3,000 technicians working out of local offices across 11 countries can provide 24x7x365 proactive monitoring, remote and on-site service and repair, and replacement parts.

- Aftermarket parts
- Building remote monitoring
- Building system and HVAC repair
- Planned and preventive maintenance
- Predictive and diagnostic services
- Security and life-safety system repair

Air Systems

Use efficient air flow building-wide to create healthy, comfortable and visually appealing environments that increase work productivity and occupant satisfaction.

- Air handling units
- Fan coil units
- Variable air volume (VAV) terminals
- Grilles and diffusers
- Electrostatic precipitation purification

Building Automation Systems

Connect commercial HVAC, lighting, security and protection systems on one platform. Vital data and insights improve efficiency, productivity, and occupants' comfort and safety.

- Metasys® building automation system
- Metasys® Enterprise Management (MEM)
- Metasys® Enterprise Optimization applications
- BCPro™ building automation system

Operational Intelligence & Loss Prevention

Minimize costs, maximize operational performance and enhance return on investment in security programs with business intelligence solutions.

- Information management solutions
- Real-time location systems (RTLS) for asset management
- Video and traffic analytics

Retail Solutions

Gain real-time insights into retail facilities, inventories, employees & customers to achieve maximum business performance in a digitally driven shopping world.

- Loss Prevention
- Inventory Intelligence
- Traffic Insights

Johnson Controls:

At Johnson Controls, we transform the environments where people live, work, learn and play. From optimizing building performance to improving safety and enhancing comfort, we drive the outcomes that matter most. We deliver our promise in industries such as healthcare, education, data centers and manufacturing. With a global team of 105,000 experts in more than 150 countries and over 130 years of innovation, we are the power behind our customers' mission. Our leading portfolio of building technology and solutions includes some of the most trusted names in the industry, such as Tyco®, York®, Metasys®, Ruskin®, Titus®, Frick®, Penn®, Sabroe®, Simplex®, Ansul® and Grinnell®.

For more information, visit **www.johnsoncontrols.com** or follow us **@johnsoncontrols** on Twitter.

Some of the renowned brands from Johnson Controls include:

ADT · American Dynamics · ANSUL · AquaMist · BCPRO

CEM SYSTEMS · DBE · DSC · exacq · Eclipse · Frick INDUSTRIAL REFRIGERATION

Grinnell · HAIDUN · HOLIS From Sub-Assemby Products · HYGOOD · illustra

KANTECH · METASYS · SABROE A Tyco International Company · SEAPLUS · Sensormatic · SCATS™

ShopperTrak · Simplex · SOFTWARE HOUSE · TRIATEK · TRION Indoor Air Quality

TrueVUE · tyco · Visonic · YORK · ZETTLER

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The power behind **your mission**

Johnson Controls

Johnson Controls
Enabling a Safer, Smarter and More Sustainable World

Take advantage of **a broader range of capabilities.**

Johnson Controls now provides a wider spectrum of innovative products, expert installation and services, and systems integration to help improve operational and energy outcomes for customers worldwide.

- Digital Solutions
- Building Automation Systems
- Controls
- HVAC & IR Equipment
- Air Systems
- Security
- Fire & Hazard Protection
- Building Services & Parts
- Lighting, Control & Retrofit
- Operational Intelligence & Loss Prevention
- Energy Storage
- Retail Solutions
- Building Wide Systems Integration

Digital Solutions

We transform the way we live, learn, play and work by creating the blueprint of the future across three key pillars by impacting sustainability, providing frictionless safety and security which elevates customer experience.

Our ability to aggregate data across a plethora of IoT devices in three key categories of People, Space and Technology has harness the power of Artificial Intelligence. Our platform, sitting at the intersection of People, Space and Tech gives us the ability to drive a digital thread through connected spaces. It is our ability to merge domain expertise and digital solutions that make us your preferred choice.

- Johnson Controls Enterprise Management Platform (JEM)
- Companion App
- Connected Chillers (CEP)
- Central Plant Optimization (CPO)
- Location-Based Services (LBS)
- Assurance Services
- Active Standard Operation Procedure (SOP)
- Johnson Controls Situation Awareness Management (JSAM)
- Open Blue Platform

HVAC & IR Equipment

Draw on the most comprehensive HVAC & IR portfolio for commercial and residential buildings of all types, ages and sizes and industrial applications as well, to enhance sustainability, energy use and the indoor environment.

- Air-cooled chillers, water-cooled chillers, and heat pumps
- Condensers and condensing units
- Dedicated outdoor air systems (DOAS)
- Room air conditioner (high wall split, window air conditioner, etc.)
- Industrial Refrigeration
- Heat Recovery and District Heating

Controls

Equip facilities with intelligent HVAC controls to keep occupants comfortable, run equipment efficiently and optimize operating budgets.

- Field controllers
- Refrigeration controls
- Thermostats
- Wired and wireless sensors
- Valve and actuators

The power behind **your mission**

Johnson Controls