



LINECARD FY18

**Johnson
Controls**

tyco

The merger of Johnson Controls and Tyco brings together best-in-class products, technology and service capabilities across **Controls, Fire, Security** and **HVAC-R** to serve various end markets including large institutions, commercial buildings, retail, industrial, small business and residential.

Find additional solutions at www.johnsoncontrols.com and www.tyco.eu

Safer, Smarter Buildings & Cities

- CONTROLS
- HVAC EQUIPMENT
- SECURITY
- INDUSTRIAL REFRIGERATION
- FIRE & HAZARD PROTECTION
- BUILDING SERVICES & PARTS
- LIGHTING, CONTROL & RETROFIT
- OPERATIONAL INTELLIGENCE & LOSS PREVENTION
- ENERGY STORAGE
- RETAIL SYSTEMS
- TOTAL BUILDING MANAGEMENT SYSTEMS

PLUG-AND-PLAY CONTROL SYSTEM FOR LIGHT COMMERCIAL BUILDINGS

Verasys is a straight-forward, easy way to control and optimize single/multi-site enterprises. All Smart Equipment seamlessly connect to it and self-identify without requiring programming tools. Moreover Verasys allows remote connectivity to the sites and as a result, you can take advantage of a new level of insight and provide facilities that better serve occupants.

Find additional information on www.verasyscontrols.com/europe

VERASYS[™]

**SMART
EQUIPMENT**
www.GetSmartEquipment.com

A COMPLETE PRODUCT RANGE TO COVER SOLUTION NEEDS FOR YOUR FACILITIES



ADVANCED INTEGRATION

Building intelligence open IT tool suite dedicated to multisystem Real estate and Equipments portfolio for detailed Analytics, Smart automation, Energy optimization, Workflows and Dashboards.



ENERGY SOLUTIONS

There is focus on reducing carbon footprints and being good stewards of the environment. Customers are being asked to deliver all of that and more with budgets that have never been tighter. We have a long history of partnering with public and private entities to deliver innovative, guaranteed solutions that meet their triple bottom line. Create quality environments. Manage building energy. Maximize energy and water efficiency. Provide clean, renewable energy. And save millions!

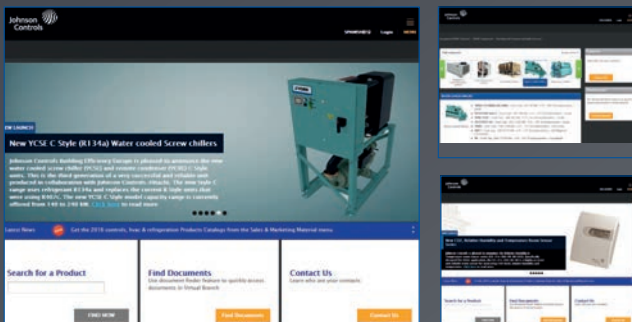
Johnson Control's eCatalog, also known as the "Virtual Branch", is not only an extensive database of product information but also a point of entry into our organization.

Within the eCatalog you are connected to the cloud and hence stay up-to-date on all new product launches, product selection tool releases and updates, technical documents, eLearning modules and much more.

You will reach our products in 3-clicks or less through the use of a powerful search engine and a very easy-to-browse navigation menu.

Also, rest assured that access to our network of Sales Representatives and Technical Support teams is directly available for your use.

Contact your Johnson Controls' Sales Representative and request access now.



SPARE PARTS

HVAC



COMPRESSORS AND PARTS
Scroll, screw, reciprocating, centrifugal compr. and parts



LINE COMPONENTS
Expansion and solenoid valves, driers, sensors, sight glasses, gauges, relief valves and ball valves



ELECTRONIC COMPONENTS
Electronic board, high pressure/low pressure switches, timers and electronic expansion devices



HEAT EXCHANGERS
Finned coil, shell & tube and plate type heat exchangers



FANS
Condenser and evaporator fans

REFRIGERATION



COMPRESSOR PARTS
Parts for reciprocating and screw compressors



LINE COMPONENTS
Gauges, sensors etc.



CONTROLS
Unisab III retrofit



KITS AND SETS
Packaged solutions for easy service



UPGRADE KITS
Packaged solutions for optimizing equipment

For more information contact your local Johnson Controls representative or visit us at www.johnsoncontrols.com

METASYS® BUILDING MANAGEMENT SYSTEM



METASYS® SERVER

Support of IT standards and technologies, Multi-platform web-based user interface, long-term storage



NETWORK AUTOMATION ENGINE

Family of IP connected network supervisory controllers for all sizes of building management systems



NETWORK CONTROL ENGINE

Family of IP connected supervisory controllers with onboard Input/Output (IO) points



FIELD EQUIPMENT CONTROLLER

Complete family of BACnet IP and MS/TP field controllers



INPUT/OUTPUT MODULES

Scalable family of configurable Input/Output (IO) modules



VAV 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 sensors for HVAC, light and sunblind



FIELD USER INTERFACES

Self configuring local touch screen display or web server user interface options allowing simplified access to equipment or controls



WIRELESS COMPONENTS

Wireless field buses and room temperature sensing systems designed with the latest wireless technology



INTEGRATION SOLUTIONS

Adapts legacy systems, proprietary systems and systems with standard protocols to the current METASYS open system architecture

YORK® FAN COIL UNITS



YFCN / YFCN-ECM

Cooling capacity: 0.7 – 7.6 kW
Cased and concealed, horizontal or vertical mounting, EC variable speed motor option



LASER & LOW BODY / LASER & LOW BODY- EST

Cooling capacity: 0.7 – 9.5 kW
Cased and concealed, horizontal or vertical mounting, EC variable speed motor option



YEFB

Cooling capacity: 2.8 – 31.5 kW
Horizontal mounting without case



YHK / YHK-ECM

Cooling capacity: 1.3 – 11.1 kW
Ceiling mounted cassette, 2 and 4 pipe versions available, EC variable speed motor option



YFCC / YFCC-ECM

Cooling capacity: 0.8 – 4.0 kW
Ceiling mounted coanda cassette, 2 and 4 pipe versions available, EC variable speed motor option



YHVP / YHVP-ECM

Cooling capacity: 1.17 – 3.81 kW
Residential wall mounted, infrared remote option, EC variable speed motor option

HVAC CONTROL PRODUCTS



PEAK CONTROLLERS

Family of controllers and accessories specifically designed for Original Equipment Manufacturers (OEMs)



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



DAMPER ACTUATORS

Spring and non-spring return rotary actuators for air, fire and smoke dampers



PLANT SENSORS

Plant Temperature, Humidity, CO₂, Dew point, Delta pressure



ROOM SENSORS

Room Temperature, Humidity, CO₂, Passive, Analog and Network models



ALL IN ONE ROOM MODULE

Temperature, Humidity and CO₂



THERMOSTATS

Line powered Fan Coils thermostats stand alone, Modbus and BACnet communicating



SMART THERMOSTAT

TEC family offers Proportional, ON/OFF, Multi-stage, autoadaptive controls through thermostats

YORK® CLOSE CONTROL AC UNITS



YC-P SERIES

Cooling capacity: 7.7 – 160 kW
Brushless DC compressors with inverter technology and brushless EC motor fans. Upflow or downflow options, R410A



YC-G SERIES

Cooling capacity: 43.0 – 183.5 kW
Downflow supply, R410A



YC-R SERIES

Cooling capacity: 20.6 – 36.2 kW
Horizontal supply, R410A

YORK® AIR HANDLING UNITS



YMA ex-Italy

Airflow range: 2,000-180,000 m³/h
2,000Pa Indoor / Outdoor application
Factory-packaged controls included with optional VSD



YMA ex-Turkey

Airflow range: 2,000-90,000 m³/h
2,000Pa Indoor / Outdoor application
Factory-packaged controls included with optional VSD



YMB

Airflow range: 500-100,000 m³/h
1,500Pa Indoor / Outdoor application
Factory-packaged controls included with optional VSD



YBV

Airflow range: 400-4,000 m³/h
Indoor application, pre-packaged units with integral heat recovery device and factory packaged controls

PENN® REFRIGERATION PRODUCTS



PRESSURE SWITCHES & THERMOSTATS

The pressure switches, thermostats and humidistats are designed for refrigeration, cooling, heating, ventilation and air-conditioning applications



ELECTRONIC CONTROLS & TRANSDUCERS

The controllers, are designed and provide a high quality long lasting solution for control of any commercial refrigeration unit (cold rooms, display cases, compressor rack,...) For use in a variety of applications (pressure, fan speed, temperature, humidity...)



WATER VALVES & FLOW CONTROLS

These pressure actuated modulating valves control the quantity of water to a condenser by directly sensing pressure changes in a refrigerant circuit. The mechanical liquid flow switches can be used in liquid lines carrying water, sea water, swimming pool water, ethylene glycol or other liquids



ELECTRONIC EXPANSION VALVES

The combination of Quick Response Expansion Valves (QREV) and Precision SuperHeat Controller (PSHC) forms an electronically controlled expansion valve that will maximize evaporator efficiency

YORK® ROOFTOP EQUIPMENT



VITALITY SPLIT ROOFTOP

Cooling capacity: 19 – 86 kW
Axial fans, Cooling only, Heat pump, Scroll compressors, R410A



ACTIVA ROOFTOP

Cooling capacity: 17 – 84 kW
Cooling only, Heat pump, Cooling only + Gas heat, Heat pump + Gas heat, R410A



LARGE ACTIVA ROOFTOP

Cooling capacity: 100 – 175 kW
Cooling only (*), Heat pump (*) R410A
(* Gas version under development)

CENTRAL PLANT OPTIMIZATION™ (10)



CPO 10

Intelligent algorithms inherent in Metasys® leverage proven best practices and specific equipment efficiency characteristics to serve up to 15% energy versus standard automation

VERASYS™ SMART CONTROL SYSTEM



SMART BUILDING HUB

Web based control system that provides a mobile user interface to smart equipment branded controllers and thermostats



SMART EQUIPMENT CONTROLLERS

Family of controllers and accessories specifically designed for HVAC/R equipment optimization



TERMINAL UNIT CONTROLLER PLUS

Designed for local complete control of unitary equipment with BACnet supervisory communication



SMART THERMOSTAT

Family offers Proportional, ON/OFF, Multi-stage, autoadaptive controls through thermostats

A COMPLETE PRODUCT RANGE TO COVER SOLUTION NEEDS FOR YOUR FACILITIES

YORK® CHILLERS



AIR-COOLED



YMAA
Cooling capacity: 45 – 255 kW
DC Inverter technology, Scroll compressors, R410A



YCME
Cooling capacity: 160 – 225 kW
Up to 8 modules, Screw compressor, R134a



YLA A
Cooling capacity: 190 – 518 kW
Scroll compressors, hydro kit, R410A



YVAA
Cooling capacity: 471 – 1,660 kW
Variable-speed screw compressors, R134a and R513a



YVFA
Cooling capacity: 525 – 1,575 kW
Air-Cooled VSD Screw Free Cooling, R134a and R513a



WATER-COOLED



YMWA/YMRA
Cooling capacity: 20 – 190 kW
Scroll compressor, R410A



YCSE/YCRE
Cooling capacity: 140 – 240 kW
Up to 8 modules, Screw compressor, R134a



YCWL/YCRL
Cooling capacity: 178 – 596 kW
Scroll compressor, R410A



YVWA
Cooling capacity: 435 – 1,373 kW
Variable-speed screw compressors, R134a and R513a



YMC²
Cooling capacity: 755 – 2,800 kW
Variable Speed Centrifugal, Magnetic Bearings, R134a and R513a



YK
Cooling capacity: 800 – 11,250 kW
Centrifugal compressor, R134a and R513a

YORK® ABSORPTION CHILLERS R718 (Natural-Water)



SINGLE STAGE HOT WATER OR STEAM-DRIVEN
WFC SC / YHAU-CL / YHAU-C
Cooling capacity: 17.6 – 7,033 kW



SINGLE EFFECT DOUBLE LIFT HOT WATER DRIVEN
YHAU-CL-DXS - 40°C hot water outlet
Cooling capacity: 176 – 4,400 kW



TWO STAGE STEAM DRIVEN
YHAU-CW
Cooling capacity: 422 – 14,065 kW



TWO STAGE DIRECT FIRED
YHAU-F / YHAU-CG
Cooling capacity: 105 – 4,395 kW



TWO STAGE EXHAUST GAS DRIVEN
YHAU-CE
Cooling capacity: 527 – 3,516 kW



SPECIAL TWO STAGE
Exhaust gas & low temperature hot water
YHAU-CE-J
Cooling capacity: 527 – 3,516 kW
Two stage low leaving (-5°C)
YHAU-CW/CG/CHW-L
Cooling capacity: 176 – 1,758kW

YORK® HEAT PUMPS



AIR-COOLED



YMPA
Reversible, water up to 55°C
Heating capacity: 45 – 255 kW
DC Inverter technology, Scroll compressors, R410A



YHME



Reversible, water up to 55°C
Heating capacity: 145 – 185 kW
Up to 8 modules, Twin screw compressor, R134a



YLRA



Reversible, water up to 55°C
Heating capacity: 200 – 327 kW
Scroll compressors, R410A



YLPB

Reversible, water up to 52°C
Heating capacity: 352 – 669 kW
Scroll compressors, R410A



WATER-COOLED

YMWA-HP

Reversible, water up to 55°C
Heating capacity: 25 – 210 kW
Scroll compressor, R410A



YCSE

Water up to 55°C
Heating capacity: 170 – 300 kW
Up to 8 modules, Screw compressor, R134a



YCWL

Water up to 52°C
Heating capacity: 210 – 675 kW
Scroll compressor, R410A



YLCS

Water up to 70°C
Heating capacity: 400 – 2,000 kW
Screw compressor, R134a



YVWA

Water up to 65°C
Heating capacity: 650 – 1,250 kW
Variable-speed screw compressor, R134a and R513a



YMC² HP

Water up to 65°C
Heating capacity: 1,600 – 3,000 kW
Variable Speed Centrifugal, Magnetic Bearings, R134a and R513a



YK

Water up to 50°C (Std) / 70°C (HP)
Heating capacity: 1,000 – 9,000 kW
Centrifugal compressor, R134a and R513a



ABSORPTION SINGLE STAGE

YHAP-C

Water up to 95°C
Heating capacity: 900 – 40,000 kW
Steam, Gas or Hot Water driven
R718 (Natural Water)

SABROE® HEAT PUMPS



HeatPAC recip

Water up to 70°C
Heating capacity: 200 – 2,000 kW
Recip compressor, fixed or variable speed
Ammonia (R717) (<50 kg charge)



HeatPAC HPX recip

Water up to 90°C
Heating capacity: 100 – 1,400 kW
Recip compressor, variable speed only,
Ammonia (R717) (<50 kg charge)



DualPAC

Water up to 90°C
Heating capacity: 400 – 2,000 kW
Variable speed, Ammonia (R717)



HeatPAC screw

Water up to 90°C
Heating capacity: up to 1,600 kW
Screw compressor, variable speed only,
Ammonia (R717)

SABROE® INDUSTRIAL REFRIGERATION



RECIPROCATING COMPRESSOR UNITS

CMO

Capacity: 50 – 190 kW
Fixed or variable speed, Ammonia (R717), hydrocarbons (HCs), common HFCs and derived blends



SMC

Capacity: 130 – 1,225 kW
Fixed or variable speed, Ammonia (R717), hydrocarbons (HCs), common HFCs and derived blends



HPO/HPC/HPX

Heating capacity: 330 – 700 kW
Cooling capacity: 80 – 185 kW
Fixed or variable speed, Ammonia (R717), carbon dioxide (R744), hydrocarbons (HC), common HFCs and derived blends



SCREW COMPRESSOR UNITS

SAB, small

Capacity: 120 – 180 kW
Fixed or variable speed, Ammonia (R717), carbon dioxide (R744), hydrocarbons (HCs), common HFCs and derived blends



SAB, large

Capacity: 540 – 1,800 kW
Fixed or variable speed, Ammonia (R717), carbon dioxide (R744), hydrocarbons (HCs), common HFCs and derived blends



AIR-COOLED CHILLER

SABlight

Cooling capacity: 95 – 400 kW
Screw compressor, variable speed only, Propane (R290)



WATER-COOLED CHILLERS

ChillPAC

Cooling capacity: 100 – 1,400 kW
Recip compressor, fixed or variable speed, Ammonia (R717) (<50 kg charge)



ComPAC

Cooling capacity: 200 – 2,200 kW
Screw compressor, fixed or variable speed, Ammonia (R717) (low charge)



PAC recip

Cooling capacity: 50 – 1,400 kW
Recip compressor, fixed or variable speed, Ammonia (R717)



PAC screw

Cooling capacity: 200 – 6,200 kW
Screw compressor, fixed or variable speed, Ammonia (R717)



CAFP low-temperature chiller

Capacity: 85 – 790 kW
Fixed or variable speed, Ammonia/CO₂ (R717/R744)



CONTROLS

Unisab III

Integrated systems controller for chillers and heat pumps



Chiller plant controller

Plug-and-play control panel for plant integration of chillers



ISAC

Monitoring and control interface configuration system for refrigeration installations



iRIS

Intelligent reporting and documentation system for optimising refrigeration plant performance

VIDEO SURVEILLANCE

AMERICAN DYNAMICS VIDEO MANAGEMENT SYSTEM



Victor is a scalable monitoring solution synchronising video surveillance with access control, fire, intrusion and other systems into one powerful, intuitive interface.

AMERICAN DYNAMICS VIDEOEDGE



An extensive range of IP and Hybrid Network Video Recorders with on-board advanced analytics, for proactive video surveillance.

EXAQC TECHNOLOGIES



An IP and Hybrid Network Video recording and management solution, with many integrations and an intuitive easy to use client application

HOLIS NVR AND HOLIS HD



A choice of IP or High Definition analogue camera recording systems, with a range of features suited to the small to medium business sector

IP Cameras



ILLUSTRATE CAMERAS

A large range of IP cameras with three ranges, Essentials, Flex and Pro; cameras to suite most requirements and budgets

PRO MINI DOME IP CAMERAS



Low light technology and on-board advanced analytics, for mission critical installations

PRO 12MP FISHEYE IP CAMERAS



Perfect for general surveillance of a an area using a single camera

PRO MICRO IP CAMERA



High definition camera and a separate lens are perfect for ATM machines and discreet installations

PRO PTZ IP CAMERAS



Easily track suspects and zoom in to take a closer look at events

FLEX BULLET IP CAMERAS



The latest technology in the illustra Range giving advanced bandwidth management and clear crisp picture in 3MP resolution

FLEX COMPACT IP CAMERAS



A low profile camera for unobtrusive video surveillance in a high resolution

ESSENTIAL EYEBALL IP CAMERA



A HD resolution camera meeting the fundamental needs of a video surveillance system

HD Cameras



AMERICAN DYNAMICS HD ANALOGUE BULLET CAMERA

Perfect as an upgrade to a legacy standard definition analogue system

Accessories



AMERICAN DYNAMICS MONITORS
A Professional level range of monitors designed for 24/7 use



AMERICAN DYNAMIX MATRIX SWITCHERS
For video walls in control room environments using analogue systems



AMERICAN DYNAMICS INTELLEX
The first Digital Video Recorder, providing a surveillance solution for customers requiring an analogue system

INTRUDER ALARMS

ZETADDRESS



High security alarm system according to VDE, DIN, VdS, PIZ and UVV. Covers all assault- and burglary risks and the requirements of operating surveillance and false alarm systems

VISIONIC



Wireless intruder alarm system for residential and SMB environments. Encrypted transmission of signals and easy to install

DSC POWERSERIES NEO



Hybrid intruder alarm system for small medium business environment Up to 128 zones

ZETADDRESS TOUCHSCREEN CONTROL PANEL



Durable 5.7" touchscreen LED-backlight and intuitive interface. For high security purposes

TOUCHSCREEN KEYPAD



Used with DSC PowerSeries Neo control panel) available as wired and wireless device

2-WAY REMOTE HANDSET



Remote control for Visonic intruder panel.

MOTION DETECTOR WITH INTEGRATED CAMERA



Detects moving objects in its range. With the camera, these objects can be identified and alarms verified

REED AND VIBRATION DETECTOR



Any attempt to open a strongroom will cause vibrations that can be used to detect an intrusion

GLASSBREAK DETECTOR



For glass doors and large windows. It detects the sound of breaking glass

LSN MOTION DETECTOR



The Tri-Focus-Optics uses three different focal length with high, middle and short range

LSN GLAS BREAKAGE DETECTOR



LSN bus technology for an efficient installation

LSN PANIC ALARM BUTTON



To manually trigger an alarm

OUTDOOR MOTION DETECTOR



Detects moving objects, thus enabling perimeter protection

MAGNETIC CONTACT FOR DOORS AND WINDOWS



Enables the monitoring of the status of a door by the intruder panel

INDOOR SIREN



Informs people in the building of an alarm

OUTDOOR SIREN



Informs the public, i.e. people outside the building of an alarm

REPEATER



To expand the coverage of wireless systems

SMOKE AND GAS DETECTOR



Expands intruder systems with carbon monoxide detection

CELLULAR UNIVERSAL WIRELESS ALARM COMMUNICATOR



ACCESS CONTROL



C-CURE 9000 SECURITY+EVENT
Powerful and flexible access control and security management systems



PHYSICAL SECURITY INFORMATION MANAGEMENT
Integrates PSIM technologies



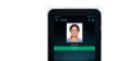
CEM
Access control system with on- and offline readers, interactive for middle-sized to big assets



CONTROLLERS & MODULES
Access control IP controllers to perform manual and automatic control functions. Modules to connect readers, doors and additional points



MULTI-TECHNOLOGY READEERS
Multi-protocol, multi-frequency solution



GO READER MOBILE APP
Reader grants or denies access in the most remote, disconnected areas



EMERALD™ TS300
Intelligent access terminal with VoIP communication station and remote application



EMERALD™ TS300F
Multifunctional touch screen access control terminal with fully integrated fingerprint security and VoIP Intercom



OFFLINE READER
Integration of wireless as well as data-on-cards solutions



PORTABLE READER S3040
Light but robust portable reader for counting of people in case of evacuation

RETAIL



SENSORMATIC SYNERGY SERIES
Passage width 2 - 2.5m
AMS 9060 Controller
Combat ORC with Metal Foil and Jammer Detection. Customizable, visible and audible alarms



APX-ADHESIVE LABEL
AM technology
magnetic resonance material
Rubber-based adhesive 0,06mm thick
minimal peel strength: 2,27kg/5 lbs per inch



HARD TAG
Track inventory while using AM EAS to protect items from theft.
operating temperature: -10°C to 50°C



INVENTORY INTELLIGENCE
Solution for inventory control brings clear transparency to product availability



UHF-RFID-HANDHELD SCANNER
Reading and describing RFID-labels.
Bluetooth version 2.1
Nominal transponder range up tp 6m
EPC Class 1 Gen 2



TRAFFIC INTELLIGENCE
ShopperTrak enables retailers and shopping centres to optimize the purchase experience. Increase of profitability through databased insights



CEILING SENSOR
For customer frequency counts.
Available in 2.5 to 6mm for heights of 2.4m to 10m.
Address allocation DHCP or static IP-Address

A COMPLETE PRODUCT RANGE TO COVER SOLUTION NEEDS FOR YOUR FACILITIES

FIRE DETECTION



PROFILE FLEXIBLE®
Fire alarm panel. 4 to 16/32 loops, up to 250 addresses per loop.
Expansion card slots: up to 6



GENERATION 6 FIRE DETECTORS
Point detectors for heat, smoke, CO concentration or a combination of these criteria



FLAMEVISION FLAME DETECTORS
Infrared technology to detect open flames. Optionally with video camera for optical verification



VESDA ASPIRING SMOKE DETECTOR
Analyse air samples extracted through a pipeline network



LINEAR HEAT DETECTION
Uses a sensor cable to detect high temperatures. Thus, they are able to cover extremely long distances



BEAM SMOKE DETECTORS
Form a photoelectric barrier for smoke, which enables them to protect large areas



MANUAL CALL POINTS
Call points are used to trigger a fire alarm manually



ALARMING DEVICES
In case of fire, the building has to be evacuated, i.e. people have to be informed acoustically and optically by sounders and beacons



OPTICAL ALARMING DEVICES
To inform people optically to leave the premise, beacons and flashing lights are used

WATER EXTINGUISHING SYSTEMS



SPRINKLER
Well performing safety element since 1881. Sprinkler ESFR-25 is designed for primarily use as ceiling-only protection of storage applications



RESIDENTIAL SPRINKLER
The unique spray characteristic of these sprinklers make them an optimized safety element for care homes and private estates



AQUAMIST® ULF
Watermist with droplets in the range of 200- 500 µm and a wide range of applications



AQUAMIST® FOG
Very fine droplets in the range of 20 - 200 µm with its best performance at burning liquids in enclosures, e.g. paint booth



AQUAMIST® SONIC
Droplets with a size of 10 - 20µm with an extraordinary kinetic energy for water sensible equipment in spaces up to more than 1000m³. True 3- dimensional performance



SPRAY SYSTEMS
Open nozzles for the protection of transformers and storage systems for flammable liquids. Also very common in theatres to substitute the iron curtain



FOAM SYSTEMS
Cooling capacity: 0.8 - 4.0 kW
Ceiling mounted coanda cassette, 2 and 4 pipe versions available, EC variable speed motor option



WATER VALVE STATION
Various types of valve stations give the operability to sprinklers, foam systems, spray systems and most watermist systems

GAS EXTINGUISHING SYSTEMS



FAST 2000 EXTINGUISHING CONTROL SYSTEM
Modular fire detection panel and control panel. Widely redundant, uses the detector lines of the PROFILE panels



CO2 HIGH-PRESSURE EXTINGUISHING SYSTEM
High efficient natural extinguishing agent. Environment-friendly, but toxic for human beings



KOTIKA LOW-PRESSURE EXTINGUISHING SYSTEM
CO2 is a natural extinguishing agent which combines high efficiency in extinguishing fires with a low price for the agent



SAPPHIRE™
Environment friendly clean-agent system. Fast, effective and without residue
Uses Novec 1230



GAS EXTINGUISHING INERGEN
Extinguishing without residue and harmless for persons. Low conductivity



ACOUSTIC NOZZLE
To avoid damaging harddisks in data centers by the noise of the agent which is discharged through the nozzles



NOZZLES
For CO2 systems

TOTAL® MOBILE EXTINGUISHERS



WX-FIRE EXTINGUISHERS
Fluorine free on a water base.
Fire class A



SX-FIRE EXTINGUISHER
Integrated AFFF-foaming agent cartridge.
Fire class A and B



GXN-FIRE EXTINGUISHER
ABC-extinguishing powder.
Fire class A, B and C



COMPRESSED AIR FOAM
The system consists of air, foam and compressed nitrogen that improves foam quality and extinction effect



EXTINGUISHING CONTAINERS
Individual solution for various extinguishing agents offer flexibility and ease of use

INTEGRATED SOLUTIONS



TYCO INTEGRATED SYSTEMS MANAGER
This advanced Physical Security Information Management (PSIM+) software connects and correlates all building systems at the operator desk



VICTOR UNIFIED MANAGEMENT SYSTEM
All-in-one integration platform for advanced security solutions combining intelligence, mapping, reporting and event management

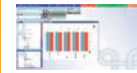
SOLUTIONS FOR DISPATCH CENTERS



CELIOS
Central management of operations planning from alarm reception to documentation



CEUS
Mobile solution for rescue missions to support firemedics



CEVAS
Documentation, quality management, billing and statistics for emergency operations

CARE COMMUNICATION



MEDICALL 800®
Combination of nursecall and modern telecommunications system protects lives and supports efficient care processes in various care environments



NURSE CONTROL STATION
Desk and wall mounting station units typically display precise call types and calling locations according to preset priorities



ROOM UNITS
Call and communication unit for healthcare workplace. Easy to use, super reliable and anti-microbial protection



MULTI-COLOUR ROOM SIGNAL LED LIGHTS
Energy-saving multicolour LEDs, freely configurable colours and flashing patterns remain easily visible even in daylight and any viewing angle



HEALTHCARE TAGS
Specific active RFID tags to help safeguard medical patients, assisted living residents and staff personnel



ELPAS - ASSET TRACKING TAG
Active RFID transmitter facilitates real-time location awareness

SERVICE

Johnson Controls has the industry's largest service network for HVAC, security and life-safety system installation and product support. With more than 12,000 technicians working out of 500 local offices across Europe, Johnson Controls has the know-how, experience and resources to meet all of your facility service needs, including 24/7 proactive monitoring, remote and on-site service and repair, replacement parts and emergency repairs. Our service expertise provides the path to improve energy consumption and sustainability through proven and customised solutions.



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