

master vour environment











METASYS® SERVER

METASYS® BUILDING MANAGEMENT SYSTEM

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



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controllers with onboard Input/Output



Complete family of BACnet IP and MS/

INPUT/OUTPUT MODULES Scalable family of configurable Input/



VAV CONTROLLERS Complete family of programmable

controllers suitable for all VAV annlications TERMINAL UNIT CONTROLLER Complete local control of unitary

equipment, plus supervisory



INTEGRATED ROOM CONTROLLER Complete family of controllers and





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



INTEGRATION SOLUTIONS

WIRELESS COMPONENTS

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, FC variable speed motor option



cooling capacity: 0.7 - 9.5 kW Cased and concealed. EC variable speed motor option



Cooling capacity: 2.8 - 31.5 kW intal mounting without case

YHK / YHK-FCM Cooling capacity: 1.3 – 11.1 kW

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, 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



CONTROL VALVES AND ACTUATORS

Ball, globe and butterfly valves with natic and electric actuators



DAMPER ACTUATORS

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



Dew point, Delta pressure ROOM SENSORS

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

Plant Temperature, Humidity, CO₂,



Temperature, Humidity and CO₂ THERMOSTATS

ALL IN ONE ROOM MODULE

Line powered Fan Coils thermostats stand alone, Modbus and BACnet

through thermostats

SMART THERMOSTAT TEC family offers Proportional, ON/OFF, Multi-stage, autoadaptative controls

YORK® CLOSE CONTROL AC UNITS



YC-P SERIES

Cooling capacity: 7.7 – 160 kW technology ad brushless EC motor fans.



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



Airflow range: 2,000–180,000 m³/h 2,000Pa Indoor / Outdo Factory-packaged controls included



Airflow range: 2,000-90,000 m³/h

2,000Pa Indoor / Outdoor application Factory-packaged controls included



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



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

PENN® REFRIGERATION PRODUCTS



DDESCLIDE SWITCHES & THEDMOSTATS The pressure switches, thermostats and humidistats are designed for refrigeration

ELECTRONIC CONTROLS & TRANSDUCERS

The controllers, are designed and provide a high quality long lasting solution for control

of any commercial refrigeration unit (cold

cooling, heating, ventilation and air-

conditioning applications



rooms, display cases, compressor rack,...) For use in a variety of applications (pressure fan speed, temperature, humidity....

WATER VALVES & FLOW CONTROLS control the quantity of water to a condense by directly sensing pressure changes in a efrigerant circuit. The mechanical liquid flow switches can be used in liquid lines water, ethylene glycol or other liquids



ELECTRONIC EXPANSION VALVES

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

YORK® ROOFTOP EOUIPMENT



VITALITY SPLIT ROOFTOP

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



Cooling capacity: 17 – 84 kW 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)



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 RIJII DING HUR

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

NEW



SMART EQUIPMENT CONTROLLERS amily of controllers and accessories specifically designed for HVAC/R equipment



Designed for local complete control of nitary equipment with BACnet supervisory

SMART THERMOSTAT Family offers Proportional, ON/OFF, Multistage, autoadaptative controls through

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

NEW 🔷 🔊

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R134a

Cooling capacity: 190 - 518 kW Scroll compressors, hydro kit, R410A 0

Cooling capacity: 471 - 1,660 kW

Cooling capacity: 160 – 225 kW

Up to 8 modules, Screw compressor,



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



Cooling capacity: 140 – 240 kW Up to 8 modules, Screw compresso R134a





Variable-speed screw compressors, R134a and R513a



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

YORK® ABSORPTION CHILLERS R718 (Natural-Water)



SINGLE STAGE HOT WATER OR STEAM

WFC SC / YHAU-CL / YHAU-C Cooling capacity: 17.6 - 7,033 kW



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





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

ooling capacity: 422 - 14,065 kW





SPECIAL TWO STAGE YHAU-CE-J Cooling capacity: 527 – 3,516 kW

YHAU-CW/CG/CHW-I Cooling capacity: 176 – 1,758kW

YORK® HEAT PUMPS

AIR-COOLED

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



Heating capacity: 145 - 185 kW Up to 8 modules, Twin screw compressor





WATER-COOLED

Water up to 55°C

Reversible, water up to 55°C



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



Heating capacity: 650 - 1.250 kW Ø



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



Centrifugal compressor, R134a and R513a

Water up to 50°C (Std) / 70°C (HP)



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



Ammonia (R717) (<50 kg charge)

Water up to 70°C

 Θ Heating capacity: 100 - 1,400 kW Ammonia (R717) (<50 kg charge)

Recip compressor, fixed or variable speed



Heating capacity: 400 - 2.000 kW

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

SABROE® INDUSTRIAL REFRIGERATION

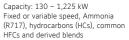


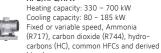
RECIPROCATING COMPRESSOR LINITS



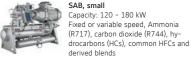
Capacity: 50 - 190 kW Fixed or variable speed, Ammonia (R717) hydrocarbons (HCs) common HFCs and derived blends







SCREW COMPRESSOR UNITS Capacity: 120 - 180 kW



SAB, large Capacity: 540 - 1.800 kW Fixed or variable speed, Ammonia (R717), carbon dioxide (R744), hydrocarbons (HCs), common HFCs and derived blends

Cooling capacity: 95 - 400 kW

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AIR-COOLED CHILLER SABlight



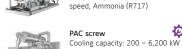
WATER-COOLED CHILLERS ChillPAC



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



Screw compressor, fixed or variable speed, Ammonia (R717)

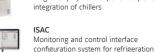
Capacity: 85 - 790 kW Fixed or variable speed, Ammonia/CO₂

CONTROLS



and heat pumps

Plug-and-play control panel for plant





Intelligent reporting and documentation system for optimising refrigeration plant



YMPA

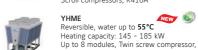
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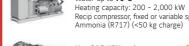


Heating capacity: 170 – 300 kW Up to 8 modules, Screw compressor,



Water up to 65°C

Heating capacity: 1,000 - 9,000 kW ABSORPTION SINGLE STAGE



HeatPAC HPX recip Water up to 90°C



HeatPAC screv Water up to 90°C

Water up to 90°C

DualPAC

nerformance





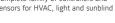
NETWORK AUTOMATION ENGINE Family of IP connected network supervisory controllers for all sizes of

Family of IP connected supervisory











Ceiling mounted cassette, 2 and 4 pipe versions available,





















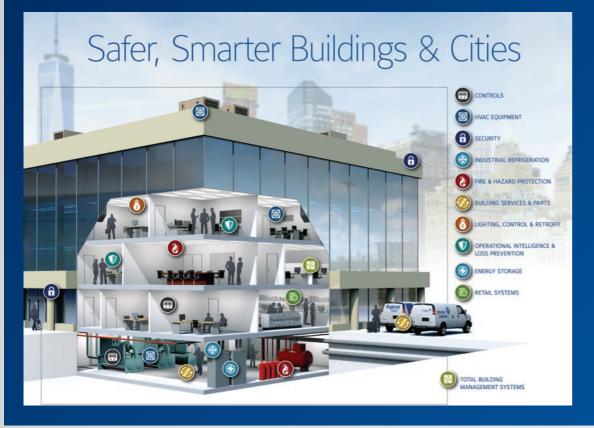






The merger of Johnson Controls and Tyco brings together best-in-class products, technology and service capabilities across Controls, Fire, Security and HVAC-R to serve various end markets including large institutions, commercial buildings, retail, industrial, small business and residential.

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



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.

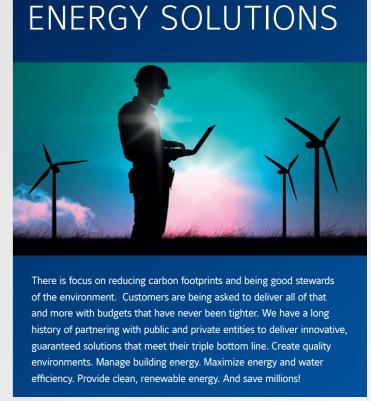
Find additional information on www.verasyscontrols.com/europe





A COMPLETE PRODUCT RANGE TO COVER SOLUTION NEEDS FOR YOUR FACILITIES

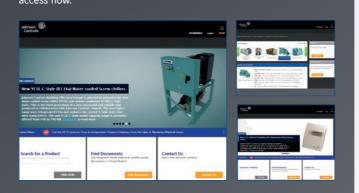




Johnson Control's eCatalog, also known as the "Virtual Branch", is not only an extensive database of product information but also a point of entry into our organization.

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

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





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