



# Engineered Solutions for Healthcare Facilities



 **YORK**<sup>®</sup>



## Experience

Cooling systems must satisfy a variety of needs in healthcare institutions — from economically supplying large volumes of clean air throughout the facility, to providing highly filtered, frequently changed air in operating rooms, patient rooms, and laboratories. By offering engineering, equipment, service, and support, YORK has the answers required by today's facilities. From turnkey projects to discrete equipment, we offer complete solutions to minimize operating costs, maintain tight tolerances, and provide 24 x 365 reliability.

### In-depth Understanding

As the world's largest independent manufacturer of heating, ventilation, air-conditioning, and refrigeration technology, YORK understands the challenges of conditioning hospital and medical center environments.

**Energy savings:** Since hospitals are built with multiple entrances, foyers, lounges, and architectural details — such as window expanses — economical cooling is a must. YORK can minimize energy consumption with electric chillers that operate as low as 20 kW/ton — or choose models that use such economical energy sources as natural gas and excess heat (steam). Economizer options provide “free cooling” using outside air. Airside equipment with variable frequency drives and energy recovery systems reduce energy consumption.

**Indoor air quality:** In efforts to minimize air-borne particles that carry bacteria, more and more

operating theaters are adopting. To ensure this level of air quality, the air is changed far more frequently than in offices. Much of the volume is makeup air, prepared by an air-handling system that can remove moisture, reheat, rehumidify, and filter the supply air to exact requirements, while meeting ventilation codes.

### Recognized Reputation

YORK has the depth of insight and breadth of experience that can help you meet a variety of demanding requirements. Pace and Miller-Picking air-handling units meet HEPA- and ULPA-filtration requirements. We know how to work with your design/build or engineering/contractor team...as we have for Providence Hospital (Washington, DC), Lancaster General Hospital Health Campus (Lancaster, PA), Methodist Hospital (Indianapolis, IN) and many other healthcare institutions.

# Capability

**Tight tolerances for medical facilities, along with competitive pressures to keep operations running their best, put tremendous pressure on the HVAC&R plant. In response, YORK provides professional resources that offer genuine local assistance in engineering, design, procurement, installation, commissioning, and service.**

## Single Source Solutions

Today, hospitals, medical centers, and other healthcare institutions can confidently rely on YORK as their single-source provider for HVAC&R solutions. Only YORK can focus world-class capabilities and local commitment to meet reduced lead times, startup and commissioning in new installations, constant uptime requirements in existing operations, plus engineering and design consultation for future facilities.

## Manufacturing Capability

As the sole Fortune 500 company focused on heating, ventilation, air conditioning, and refrigeration equipment, YORK wields the resources of a world-class manufacturer. Major products are manufactured to exacting specifications in ISO-9001-certified plants. Technologies for non-CFC

refrigerants, variable-speed drives, and graphic controls are just a few of our engineering and manufacturing breakthroughs.

## Service Capability

To support daily operations, YORK Service offers the capabilities of the world's largest factory-owned HVAC&R service organization. Over 2,500 factory-trained technicians are located in strategic locations around the globe to handle startup, maintenance, training, emergency repairs, enhancements, and refrigerant conversions. Regional stocking ensures spare parts are also available locally. To coordinate the needs of multi-facility customers, service can be arranged through a common national or international YORK Service account representative.



# Technology

YORK offers the broadest array of shell-and-tube and DX mechanical equipment — along with engineering and design support — to help create the environments required by your facility.



## Air-handling technology

YORK AirPak and CurbPak models include standard, modular, and custom indoor and rooftop air-handling units capable of delivering up to 70,000 CFM. YORK airside products include clean-room and custom units that accommodate laminar air flow, HEPA and ULPA filtration, and sealed-insulation construction. Miller-Picking and Pace offer custom units with make-up air modules, pre-filters, dehumidification, cooling and heating coils and fans in horizontal and vertical airflow configurations and with electric, gas, or steam heat. A variety of single- or dual-duct terminal units, constant- or variable-air-volume fan terminals, and diffusers are available. Factory mounted direct digital controllers and building automation controls compatible with open protocols can be supplied to create a complete, non-proprietary ventilation solution.



## Electric-driven equipment

YORK centrifugal chillers deliver unsurpassed energy efficiency at off-design conditions, which prevail in 99% of all operating hours. Entering Condenser Water Temperature (ECWT) as low as 55°F is utilized to enhance compressor performance. Variable-speed-drive models save an additional 30% in average annual energy savings compared to fixed-speed machines. An optional harmonic filter complies with the guidelines of IEEE Std. 519-1992. Centrifugal units employ an open-motor design that eliminates time-consuming cleanup and downtime associated with hermetic motor burnouts. The exclusive OptiView™ graphical color display is standard on centrifugal chillers and is available as a remote option for DX chillers. It is the ultimate, user-friendly control panel that gives operators new insight into maximizing chiller performance.



## Alternate energy-driven equipment

**Natural gas:** Gas-engine-drive chillers are less costly to operate than electric-drive chillers. Models are available with a Coefficient of Performance as high as 2.3.

**Excess heat sources:** YORK can “piggy-back” steam- or hot-water-fired absorption chillers by using excess steam or hot exhaust from gas-engine drives. Steam-turbine-drive chillers and two-stage steam absorption chillers can use high-pressure steam from process or co-generation sources. And, because absorption chillers operate with virtually no noise or vibration, they can be located in almost any area of the building.

**Electric/gas parallel drivelines:** Parallel-driveline technology allows switching between electric motor drives or steam turbine drives and gas-engine drives to take advantage of the most cost-effective energy source.

**Let us add our experience, capabilities, and technology to help your team create the environment for success.**

