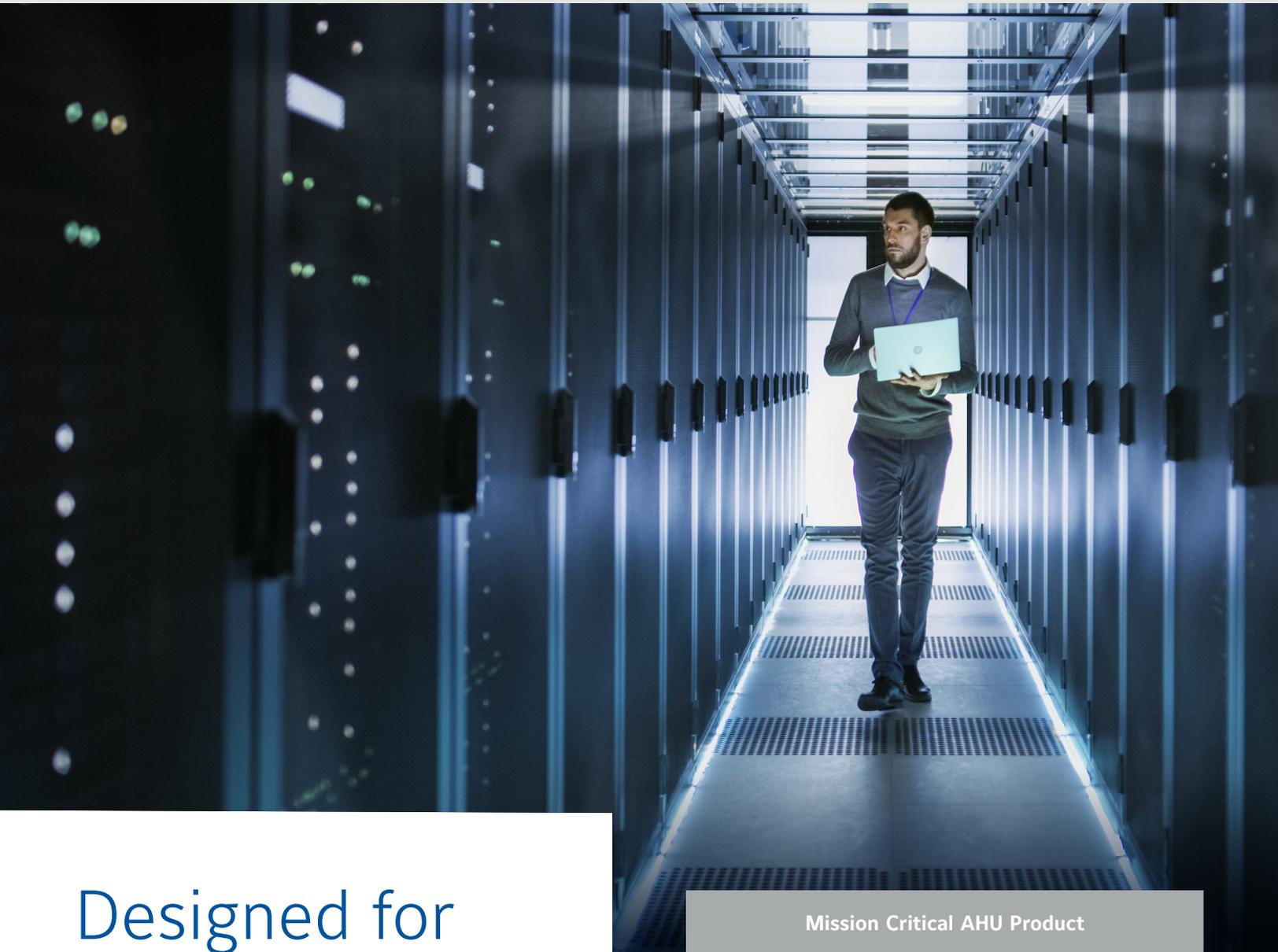


# Proven to Perform



YORK<sup>®</sup> Mission Critical DEC Unit  
for Data Center Cooling



# Designed for Data Centers

YORK® Mission Critical Direct Evaporative Cooling (DEC) Air Handling Units (AHUs) from Johnson Controls are specifically designed for data centers. Offered in two sizes (250 kW and 500 kW) and in two styles (perimeter and rooftop), YORK® Mission Critical AHUs maximize cooling capacity per square foot. In fact, the YORK® Mission Critical Air Handling 500 kW perimeter unit (the MCP500) yields an ultra-efficient pPUE of less than 1.1.\* Optional direct expansion (DX) or chilled water cooling (CWC) coils allow for installation in diverse geographic locations while maintaining a low initial investment. And unlike typical DEC AHUs, YORK® Mission Critical Air Handling Units are designed to meet phased data center expansion strategies, feature high media efficiency and are backed by proven YORK® product platforms.

Mission Critical AHU Product

Size (kW)	Style	Primary Cooling	Secondary Cooling Optional
250	Perimeter	Direct Evaporative	Direct Expansion (DX)
			Chilled Water Coil (CWC)
			None
250	Rooftop	Direct Evaporative	Direct Expansion (DX)
			Chilled Water Coil (CWC)
			None
500	Perimeter	Direct Evaporative	Direct Expansion (DX)
			Chilled Water Coil (CWC)
			None
500	Rooftop	Direct Evaporative	Direct Expansion (DX)
			Chilled Water Coil (CWC)
			None

# Unparalleled Uptime

When your reputation is at stake, count on efficient, reliable air handling solutions from YORK® to lower costs and maximize uptime. With expert service and original equipment manufacturer parts available from Johnson Controls – the largest HVAC service and preventive maintenance organization in the world – you can be confident your data center will be running cool, year after year. Our team brings a rich legacy of factory-trained HVAC service technicians and engineers to maintain data center critical needs. We employ strategically placed manufacturing facilities to ensure a continuity of production, supply and quality excellence no matter where in North America your data center is located.

## Maximum Flexibility

Flexible. Scalable. Sustainable. YORK® Mission Critical AHUs help overcome unique application challenges by offering low weight and compact size in both rooftop and perimeter units. Optional CWC or DX coils offer additional cooling capabilities and increase geographic applicability, while 250 kW and 500 kW sizing offers scalable expandability. YORK® Mission Critical AHUs have the features your data center needs for maximum uptime, efficiency and expandability.

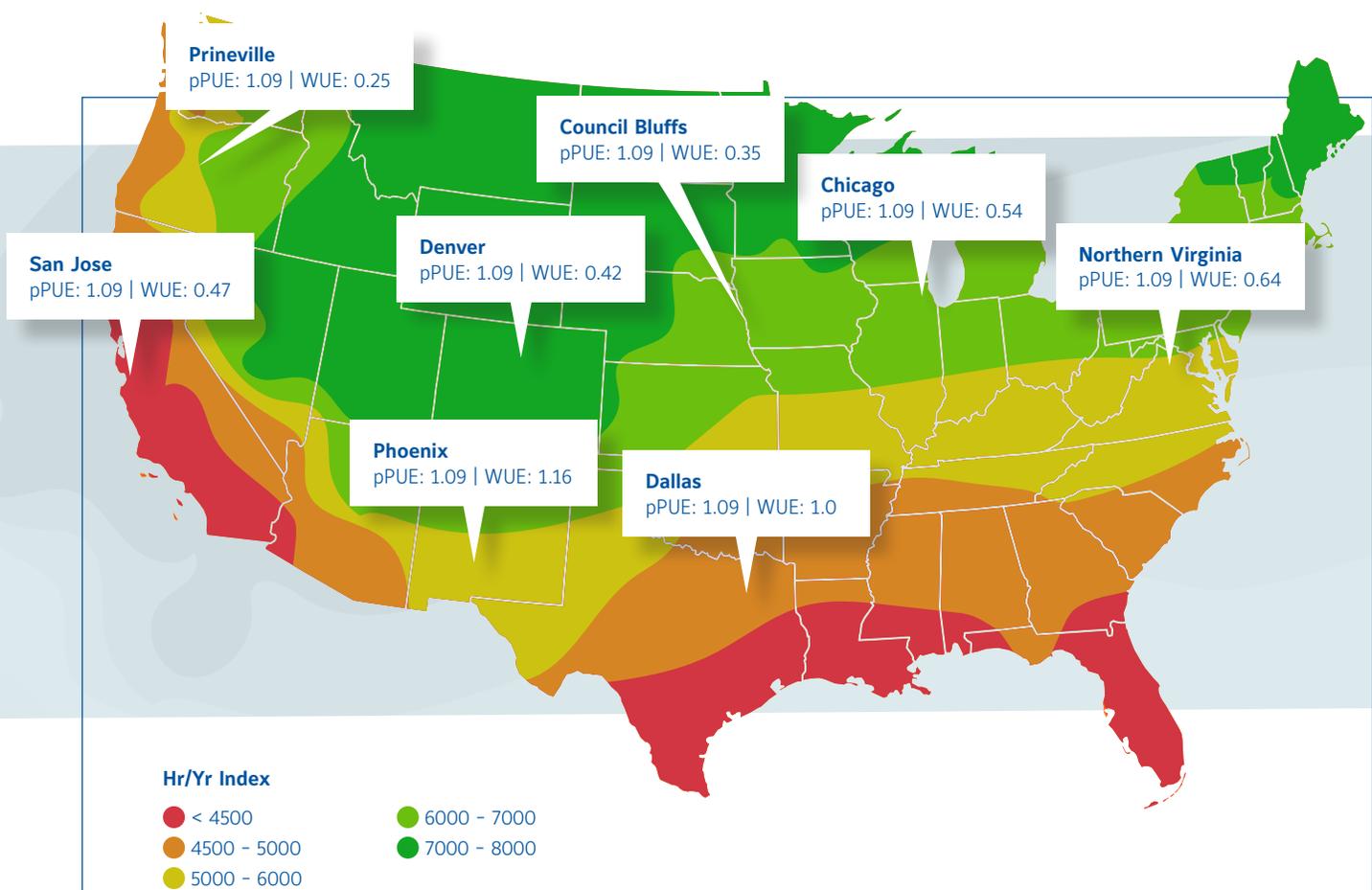
## Better Performance in Every Size\*

Customer Value	Market Leader	YORK® Mission Critical AHUs
Cooling Capacity (kW / sq. ft.)	1.64	2.14
Media Efficiency	88.5%	+90%
Reliability	N+1 Fan No Pump Redundancy	N+1 Fan 5 Pumps
Footprint (sq. ft.)	315	233
Size (kW)	515	500

\*Compared to the market leader at 25° Δ T

# Ultimate Efficiency

Partial Power Usage Effectiveness (pPUE) helps quantify a clearly defined boundary of Power Usage Effectiveness (PUE) within a data center. This typically includes measuring the pPUE of a DEC AHU, chiller or transformer. When power consumption is the primary design criteria, the YORK® Mission Critical AHU provides an ultra-efficient pPUE of less than 1.1.\* This coupled with an industry-leading DEC efficiency of 90.2% makes YORK® the clear design choice.



**Water Usage Effectiveness (WUE)** or l/kWh, defines the total annual water consumption in liters in relation to the total annual power consumption of the IT components.

**Partial Power Usage Effectiveness (pPUE)**, defines a certain portion of the overall PUE of a data center within a clearly defined boundary, in this case, AHU equipment.

\*Calculated based on Northern Virginia for the 500 kW unit

# Cost-effective design using world-class components



Feature	Benefit
Compact footprint	Reduced weight and size
High media efficiency	Extended Free Cooling Hours; Reduced pPUE
Optional CWC or DX coil	Supplemental cooling for diverse geographic locations
Front-loading filters	Ease of installation and maintenance
N+1 fan redundancy	Fulfill mission critical data center demands
Built on tested and proven YORK® product platform	Trusted performance and value from a proven market leader
Strategically located manufacturing facilities	Multiple manufacturing locations in North America provide highly flexible capacity
Rooftop and perimeter styles	Increases data center white space
250 kW and 500 kW size options	Supports phased data center expansion strategies
Intelligent factory configured controls	Plug-and-play: Only simple configuration settings on-site required – no field programming
Commissioning via smart device	Less time to start up and reduced cost
Staged control	Optimizes water utilization
Mobile Access Portal	Configuration and management via Wi-Fi®
Optional Smart building hub	Remote connectivity and notification, 24/7

# Easier Control

With the PEAK™ control system from YORK®, system setup is faster and easier. PEAK™ provides a simple user experience with configurable, tool-less controllers to yield a truly plug-and-play HVAC control system. This removes the need for field programming and reduces startup and install time – all of which bring YORK® Mission Critical AHUs online faster and at reduced cost.



**Preconfigured, intelligent default values** for control parameters at the factory for true plug-and-play functionality



**Commissioning via smart device** can reduce time and cost



**Intelligent, climate-controlled panel** saves money by adjusting throughout the day based on changing weather and temperature conditions



**Reduced complexity** via only simple configuration of settings on-site



**Embedded fault detection diagnostics** assist in resolving mechanical and control issues



**Security** is enhanced through controlled Wi-Fi® access via Mobile Access Portal (MAP)



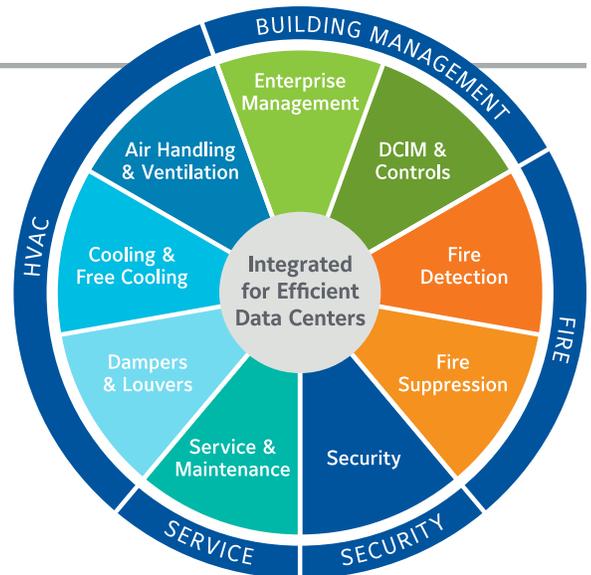
**No field programming required**, simplifying the installation process



**Remote connectivity** and notification help reduce downtime and time between alert and maintenance

# The Power of Partnership

From the thermostat on the wall to the air handler on the roof, Johnson Controls provides a comprehensive, single point of responsibility for mission critical facilities. This total-solution approach delivers increased building efficiency and proven reliability across HVAC, building management, fire, security and building optimization systems. YORK® Mission Critical Air Handling Units are another integrated solution designed and engineered to exceed critical cooling requirements – and it's one more reason having the right partner makes all the difference.



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