



YORK AIRSIDE PRODUCTS
Cold Wall™
Data Centers



Certifications

Operational Quality Excellence

Quality Management
Systems



Health & Safety
Management Systems



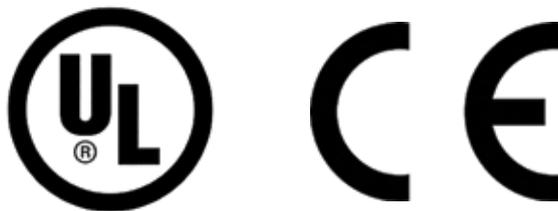
Environmental
Management Systems



Performance



Electrical & Safety



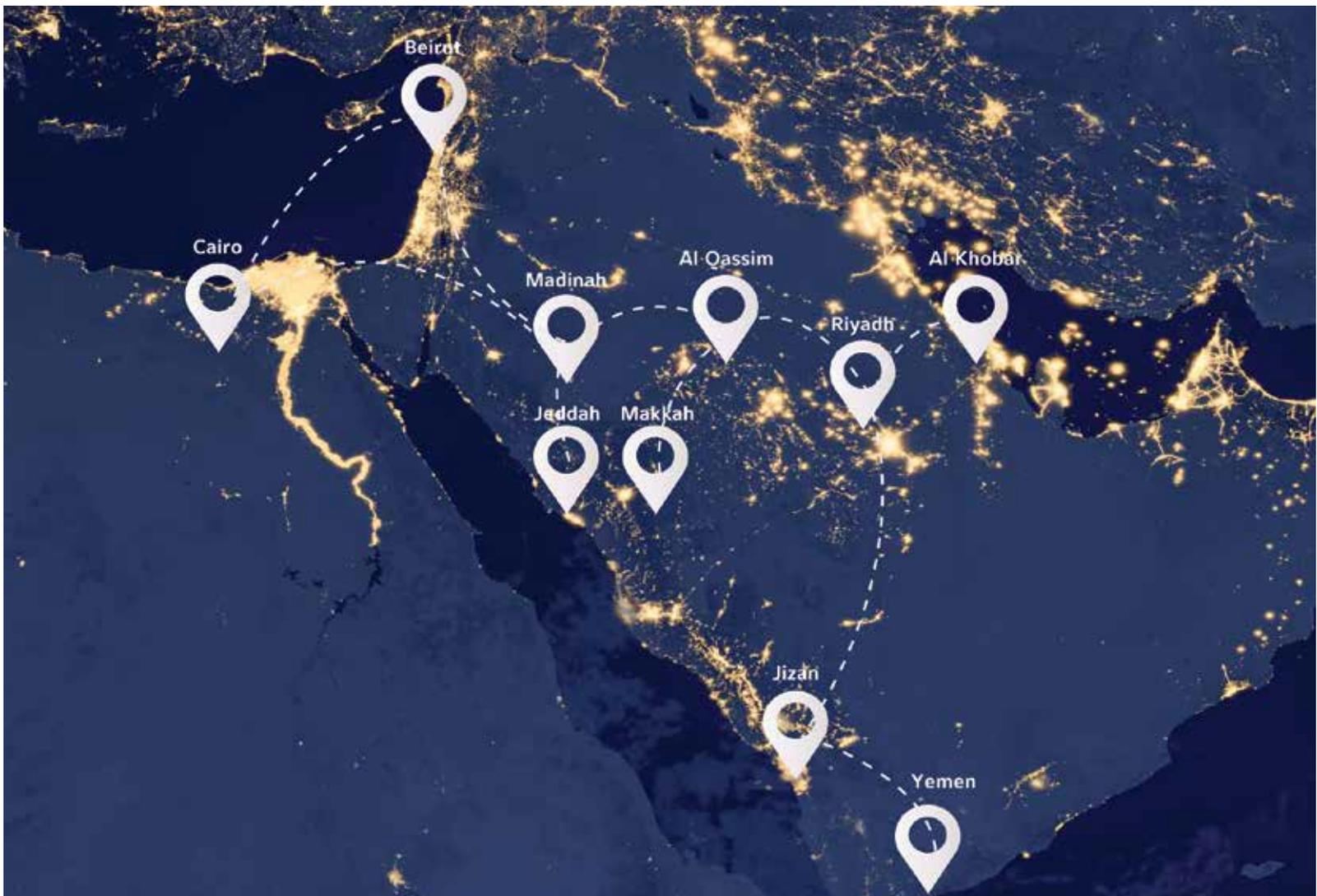


Johnson Controls Arabia is one of the leading multi-industrial companies in Saudi Arabia, Egypt, Yemen and Lebanon, to offer Building Efficiency services; through an array of smart, sustainable, customizable, integrated products, services and solutions, optimum for the residential, commercial and industrial sectors.

Johnson Controls Arabia has become a leading "one-stop-shop" for all integrated requirements; including HVAC&R Systems, Controls Systems, Building Management Systems, Security, Safety and Fire Systems. In addition, to a full array of specialized Aftermarket Services, including but not limited to diverse customizable service & maintenance contracts, rental solutions, BMS Services, Energy Audits, Chiller Replacement and others.

Johnson Controls Arabia worked on a number of high profile projects, both locally and export business, some of which needed special customization and innovative solutions to adapt to unique circumstances or requirements of the project; such as the Two Holy Mosques in Makkah & Madinah; the Clock Tower in Makkah; the New King Abdul Aziz International Airport in Jeddah; Cleveland clinics in Abu Dhabi. Manufactured in our state-of-the-art

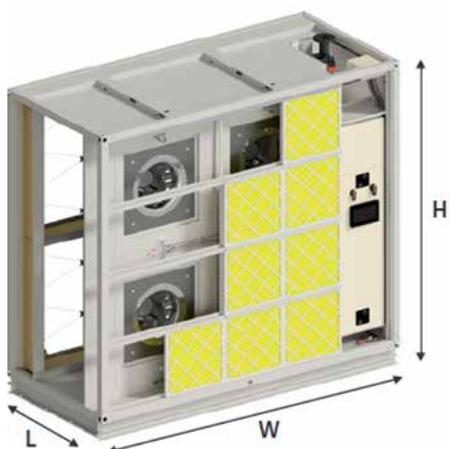




Johnson Controls Arabia Manufacturing in King Abdullah Economic City (KAEC), Jeddah, Saudi Arabia, YMA - Cold Wall™ units feature the latest advancements in air handling innovation.

With unrivaled experience in the critical facilities market, our team of experts ensure Cold Wall™ units undergo rigorous testing and quality control procedures at the manufacturing facility.

Cold Wall™ is a Thermal Wall designed to rise the technology threshold of Chilled Water Air Handling Units for slab floor applications installed in the gallery side. Cold Wall™ unit is optimized for performance, cooling density, footprint and reliability from day one. Furthermore, all the main components are factory installed, minimizing the installation costs on site. Cold Wall™ units meet the needs of mission-critical cooling for designers, contractors, building owners and maintenance staff. Thanks to its design, Cold Wall™ minimizes the running costs for the entire cooling system. All components and control strategies are driven to provide an extremely efficient solution for infrastructures facing the challenges of modern IT applications.



1. Product Features

1.1.

High Quality Casing

Standard of 30 mm double skinned with pre-painted sheets & galvanized panels with various options of internal & external skins, density of 40 kg/m³ injected polymerized polyurethane foam (B2) insulation will supply rigidity to the unit casing. Optional sheet metal variations can be utilized as per project requirements from galvanized to stainless steel 304/316L.



1.2.

Product Features - "Multi-Fans"

All models come with the latest electronically commutated (EC) motor and high-efficiency plenum fans as standard. Optimum air distribution and serviceability are ensured thanks to fan access on the gallery side. Multiple temperature sensor locations ensure accurate data retrieval. Our ECM section UL, UAC and TUEV Certified





High Efficient Heat Exchangers

1.3.

Cooling coils are made of mechanically expanded copper tubes with aluminum fins as standard, providing reliable performance certified by AHRI 410.



Integrated Controls

1.4.

All models comes with a pre-programmed, BACnet (MSTP or IP) DDC controller with built-in 2.5" display and a navigation keypad. A panel mounted 3.5" display could be provided as an option.



Cold Wall™ Units Overview

Cold Wall™ units from Johnson Controls Arabia are designed to meet the specific needs of data centers. Our experienced team understands data center cooling and provides innovative solutions, including customizable offerings to meet mission-critical applications. YMA - Cold Wall™ units are available in five engineered sizes and flow configurations.

Available in 10kCFM, 15kCFM, 30kCFM, 45kCFM, 60kCFM airflows for maximum building design flexibility, Cold Wall™ units offer reliable, cost-effective cooling. The unit design minimizes the aerodynamic impact of all the internal parts, ensuring a reduction in the internal air pressure drop, which translates in reduced unit power consumption.

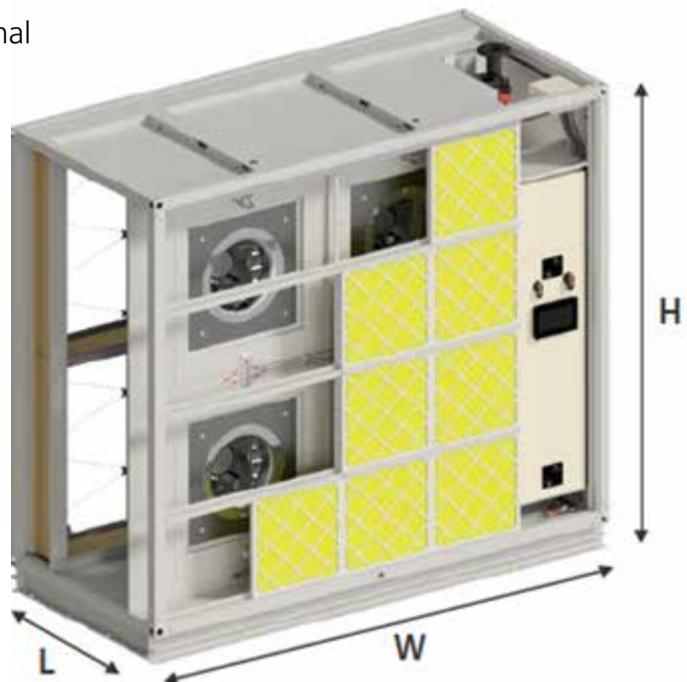
Products engineered for hyperscale and colocation growth:

Cold Wall™ are the newest addition to a series of products designed and optimized to face current and future data center cooling challenges. For applications that require size and flow configurations outside of these engineered options, our product design team can help develop a product that meets your specific needs.

With unrivalled experience in the critical facilities market, Johnson Controls Arabia provides cost-effective, efficient air handlers to scale any size data center. Working with our experienced engineering group, we can design our product to meet your requirements.

Cold Wall™ Main Options:

- Touch Screen Display
- Pressure Independent Control Valves
- Dual power supply (ATS)
- Uninterruptible power supply (UPS) - Optional
- Average Temperature Sensors
- Leak Detector
- DDC Controller



Design and Manufacturing highlights:

Feature	Benefit
Compact length	Allows for gallery access and optimized gallery space
Compact 160 cm height on most of the sizes	Fits in most standard doorways without adjustments
10kCFM, 15kCFM, 30kCFM, 45kCFM, 60kCFM airflows	Supports phased data center expansion strategies
Strategically located manufacturing facility	Rapid delivery and lower shipping cost to Middle East countries
PICV or two-way valve	Supports varying valve control needs
Multiple electrical switching options	Flexibility to meet your specific electrical requirements
Filters, fans, electric, coil drain and vent gallery side access	Ease of Maintenance
380V-460V/3PH+N+PE/50 or 60Hz	Flexibility in voltage and frequency to meet your site electrical power supply
Automatic Transfer Switch (ATS)	Ensures continuous delivery of electrical power from one of two power sources
Uninterruptible Power Supply (UPS)	Ensures Emergency power to the controls circuit when the input power fails
Latest Generation of EC fans	Powerful fans Increase the cooling capacity at the same unit footprint

Gain flexibility with new cabinet sizes:

Featuring a compact, 160 cm length, optimizing building design.

Unit Tag	Cooling Capacity (kW)	Air Flow (CFM)	Energy Efficiency Ratio (EER)	Size (H x W xL) (cm)
ColdWall-10	71	10k	17.4	181 x 235 x 160
ColdWall-15	107	15k	21.4	250 x 235 x 160
ColdWall-30	214	30k	21.5	250 x 370 x 160
ColdWall-45	321	45k	22.6	352 x 395 x 160
ColdWall-60	428	60k	21.9	352 x 490 x 160

We provide the next generation of smart building technology for these industries:



When you partner with Johnson Controls Arabia, we treat your mission as our own. We put our deep expertise, leading technology and world-class products to work for you, never resting until you achieve your goals.

Whether your mission is to heal, teach, create or connect, Johnson Controls Arabia can help you achieve it.

Some of our famous brands



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