شركة كنز العربية العالمية للمقاولات

COLD STORAGE SOLUTIONS / COMPANY PROFILE

THE TEMPERATURE IS WHAT YOU MEASURE. WHAT IT PROTECTS IS WHAT MATTERS.

Engineering temperature-controlled rooms for the products and people who depend on them.















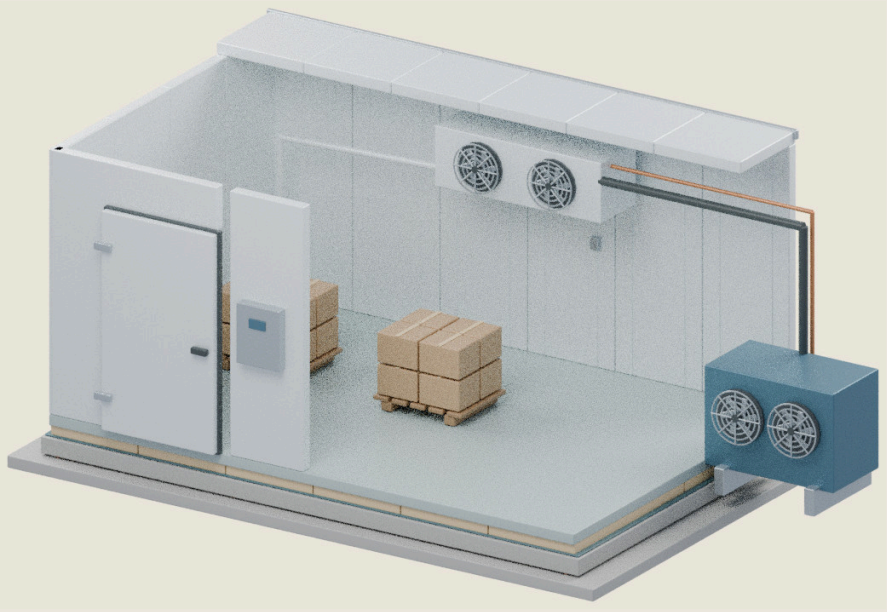
The cold room begins with what it must protect.

From its Riyadh headquarters, KENZ Al Arabia International Contracting Co. coordinates the room enclosure, refrigeration plant and site services for chilled and frozen storage.



SPIMACO / PROJECT

Technicians position the room evaporator.



ENGINEERING MODEL

The enclosure, cooling unit and access route share one plan.

From Saudi farms to the people who depend on them.

Our vision is to help growers, processors and distributors across Saudi Arabia preserve the value of what they handle between harvest and delivery.



The right temperature begins with the right decisions.



Start with the product

Establish the storage condition, incoming product temperature and daily loading pattern.

Walk the site

Measure the room and check outdoor conditions, available power and access for installation.

Agree the interfaces

Set out the doors, panels, refrigeration equipment and service routes on one coordinated layout.

The details that protect the result



Engineering discipline

Record the design conditions before equipment selection.

Accountability

Assign each snag and record its closure.

Quality and safety

Check the door seals and isolate equipment for electrical work.

Collaboration

Walk the service routes with the other trades.

Continuous improvement

Use handover and service findings to improve the next installation.

The heat outside belongs in the design brief.



AT THE LOADING DOCK

Outdoor heat reaches a store through its surfaces and whenever a door opens. Warm product arriving at the dock adds a separate cooling load.

ACROSS THE SUPPLY CHAIN

Food and medicines have different handling requirements. Storage, loading and refrigerated transport must preserve the conditions specified for each product.

What happens after the harvest?







THE HANDOFFS

A grower’s crates pass through collection and cold storage before refrigerated distribution takes them to the retailer. Each handoff matters long before the fruit reaches a family’s table.

Harvest → Collection → Cold storage → Refrigerated distribution → Retail → Home

Medicine storage starts with the label.



Define the storage condition

The manufacturer’s instructions establish the conditions for each product. A single setpoint cannot cover every medicine.

Find the areas that fluctuate

Temperature mapping helps locate warmer and cooler areas and informs sensor placement at different positions and heights.

Keep a usable record

Calibrated devices, alarms and reviewable records help staff identify an excursion and follow the approved response.

Different products need different rooms.



Poultry & meat

Hygiene and movement through processing.



Agricultural produce

Harvest temperature and product sensitivity.



Pharmaceuticals

Labelled conditions and monitoring records.



Chilled food

Receiving, holding time and rotation.



Frozen storage

Frozen product duty and freezer access.



Food processing

Timing between production and dispatch.



Cold-chain logistics

Pallet turnover, docks and door traffic.

What must stay cold?

A useful equipment brief captures the product, the room and a normal day of operation.



CONCEPTUAL ROOM PLAN

Door on the loading side. Outdoor plant beside the room.

Product & throughput

Product type, incoming temperature, quantity per delivery and daily throughput.

Room & site

Clear internal dimensions, target operating temperature and site-specific Saudi design ambient.

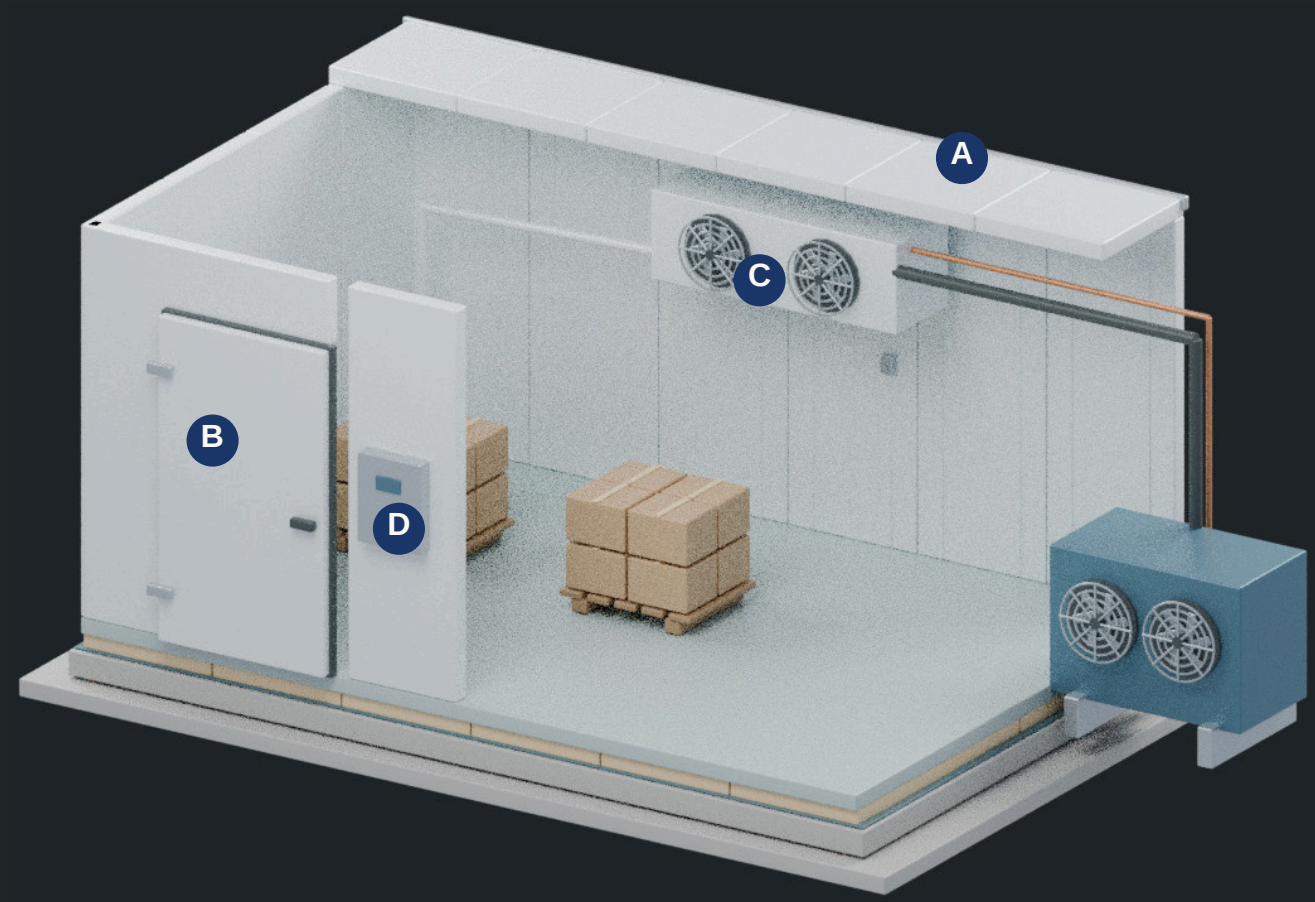
Doors & envelope

Opening frequency and duration, insulation, floor construction and building interfaces.

Power & operation

Available electrical supply, equipment access, safety provisions, monitoring and alarm needs.

What makes a cold room work?



CUTAWAY VIEW

The front and ceiling are cut away to expose the equipment and product route.

A Enclosure

Insulated walls, ceiling panels, floor insulation and wearing surface.

B Access

Insulated door, storage aisle and space for maintenance.

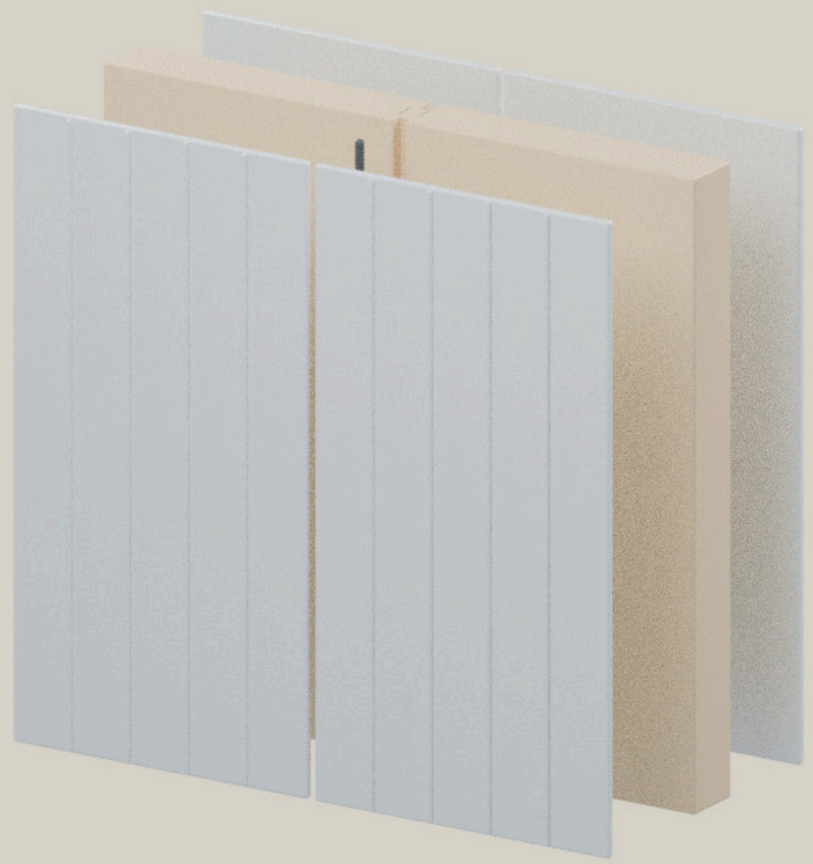
C Refrigeration

Indoor evaporator, outdoor condensing unit and connecting refrigerant lines.

D Control & drainage

Room sensor, control cabinet and a separate condensate drain.

What the panel joint has to keep out



Exploded panel joint with separated facings, insulation core and seal.

Metal facings

The two skins protect the core and provide cleanable surfaces. The finish must suit the room’s use.

Insulation continuity

Core conductivity, thickness and joint fit all affect heat transfer. Gaps and metal bridges can bypass the insulation.

Vapour and air seals

Connect the panel-joint seal to the floor and ceiling details so moist air cannot reach a cold interface.

What protects the product starts beneath it.

Traffic above

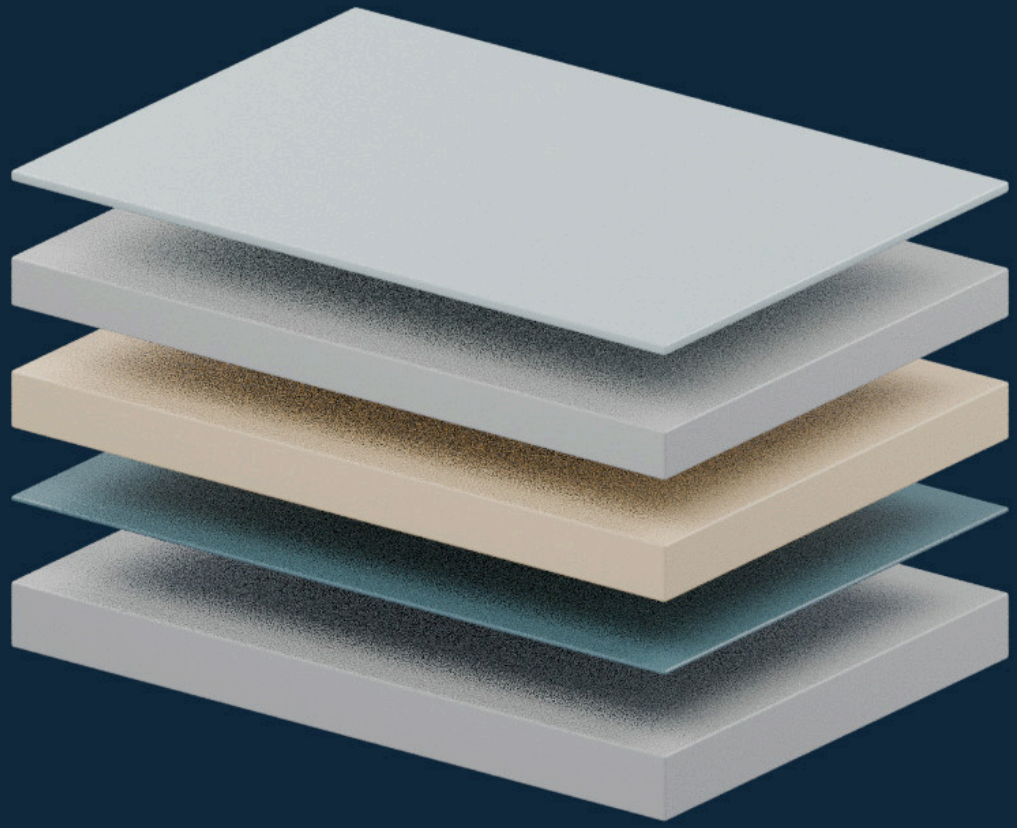
Select a wearing finish and load-bearing slab for pallet wheels, rack bases and cleaning.

Moisture below

Coordinate a continuous vapour-control layer with the wall perimeter and threshold.

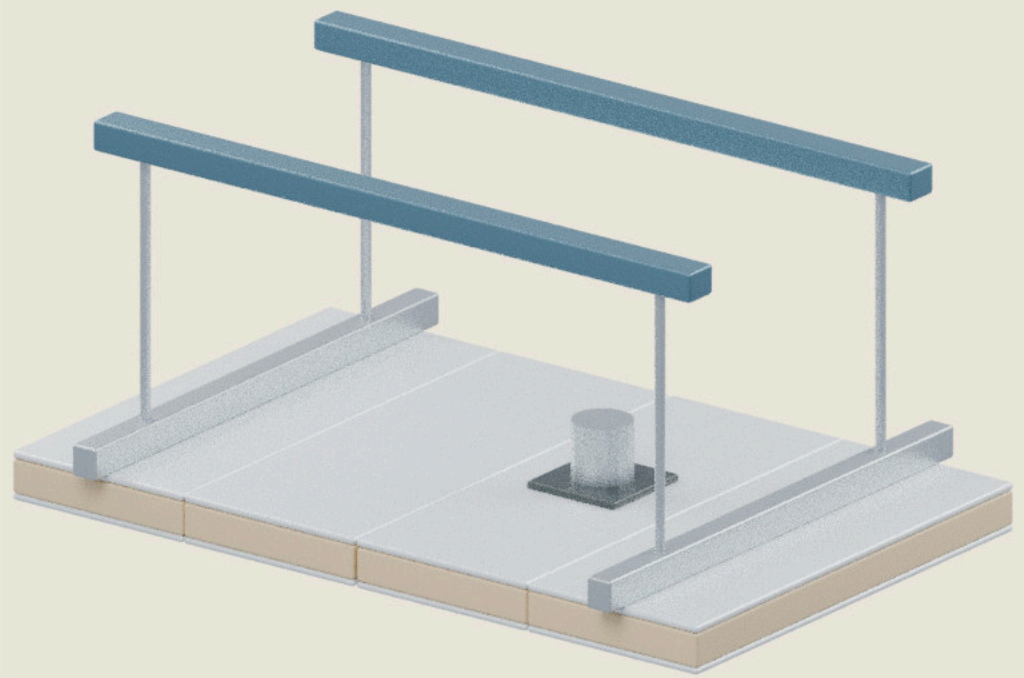
Freezer duty

Assess the risk of ground freezing and frost heave. Floor warming or ventilation may be required by the design.



Top to bottom: finish, load-bearing layer, insulation, vapour control and supporting slab.

The ceiling closes the thermal envelope.



Section through ceiling panels, supports, suspension rods and a sealed service penetration.

Support and span

Check the panel span and suspension points against the selected system. Verify loads from services separately.

Panel joints

Maintain insulation and seal continuity at the ceiling-to-wall junction and below the building roof.

Service penetrations

Provide a sleeve and compatible seal where a service passes through the panel. A cold bridge can create local condensation.

Every opening changes the load.

Warm air and moisture enter whenever a cold-room door is opened. Effective sealing, suitable door hardware and controlled access help minimize heat gain and maintain the required storage conditions during daily operations.

Seal and threshold

Check gasket contact around the frame and confirm the threshold suits the traffic and floor finish.

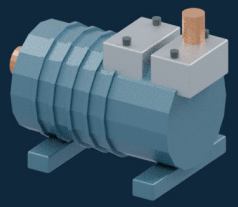
Access and egress

Select hinges or sliding gear for the duty, and verify the inside release and other specified safety hardware.



How heat leaves the room

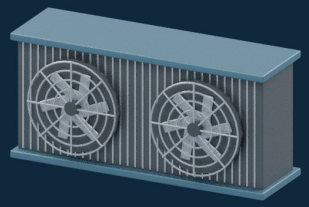
Follow the refrigerant through a simple direct-expansion system.



01 Compressor

Raises the pressure and temperature of returning refrigerant vapour.

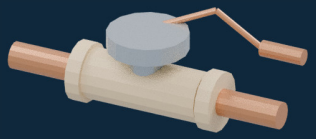
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02 Condenser

Rejects heat outdoors as the high-pressure refrigerant condenses.

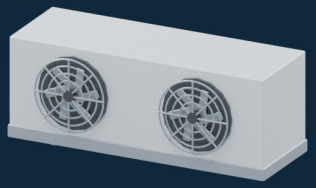
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03 Expansion device

Meters liquid and lowers its pressure before the evaporator.

←



04 Evaporator

Absorbs heat from room air. Refrigerant boils and returns as vapour.

↑

The compressor supplies work. The condenser rejects both this energy and the heat absorbed inside the room.

Outdoor plant needs room to breathe.



WATANIA AGRICULTURE / INSTALLATION

Ventilation

Keep the air intake and discharge clear and check hot-air recirculation between adjacent units.

Equipment access

Leave space for panel removal, service tools and safe access to the platform.

Support and routing

Coordinate unit supports, vibration control and pipe routes with the building structure.

From stocked compressors to engineered cooling.

Warehouse preparation supports the project. Equipment selection, site coordination and commissioning complete the system.



01 BOCK-MARKED WAREHOUSE STOCK



02 EQUIPMENT PREPARATION

Palletized air-cooled condensing-unit assemblies.



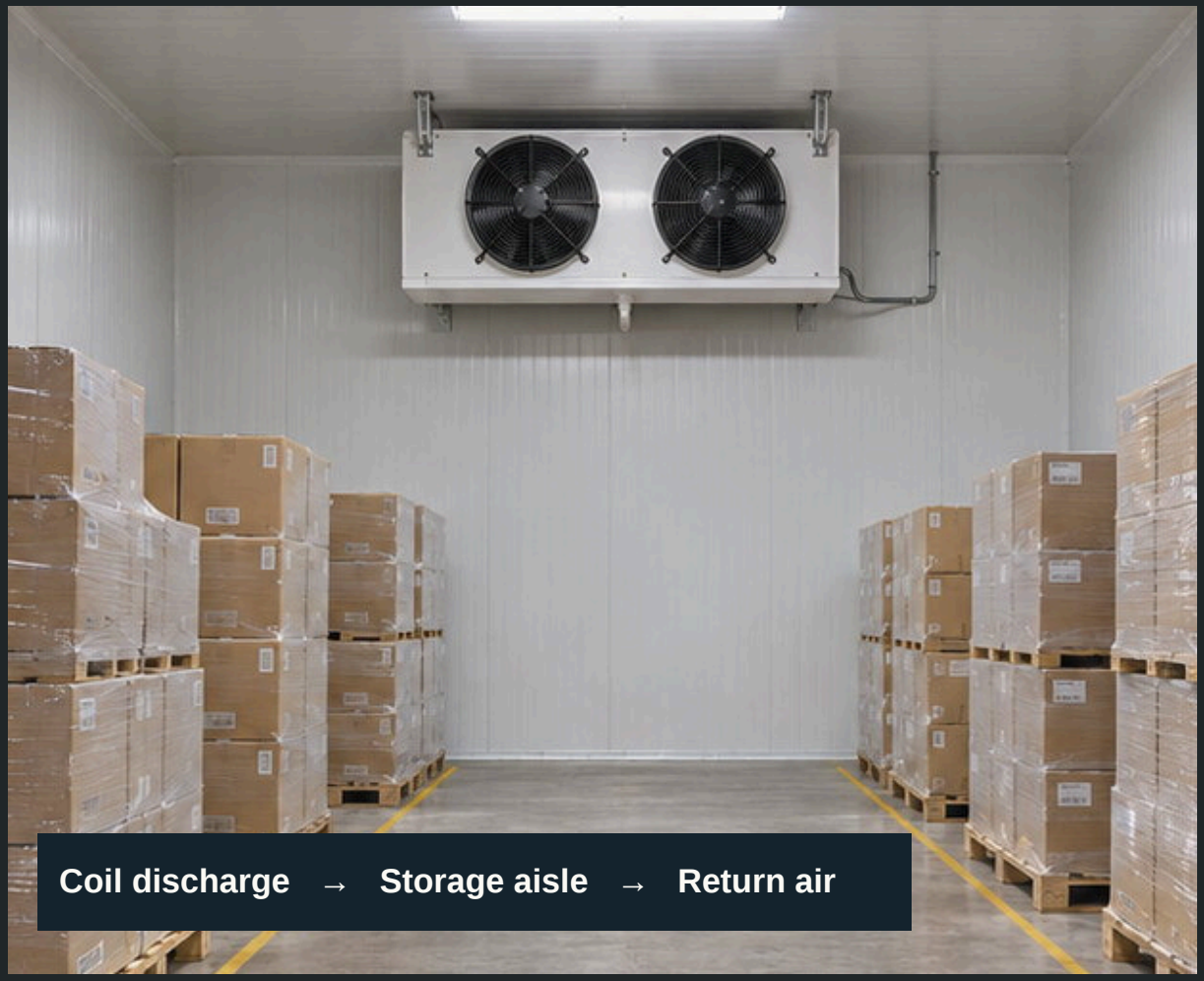
03 PLANT INTEGRATION

Outdoor condensing equipment on steel platforms.

A system is more than a compressor.

Match capacity and refrigerant to the cooling duty. Plan piping, controls and access. Verify performance during commissioning.

Leave the air a way back.



AIR CIRCULATION

The fans pass room air over the cold coil. Air must reach the storage aisles and return to the unit to carry heat away from the product.

Pallet and rack clearance

Keep the discharge path, return opening and coil service space clear of stock.

Defrost and drainage

Plan for the chosen defrost method and carry meltwater away without refreezing in the drain.

Two routes leave the evaporator.



REFRIGERANT PIPEWORK

Size and route the lines for the selected equipment, refrigerant and operating duty. Supports must allow for vibration, and insulation needs a continuous outer seal where condensation is a risk.

CONDENSATE DRAINAGE

Arrange a separate drain route with the required fall, trapping and freeze protection. Keep the drain accessible for cleaning and seal its passage through the enclosure.

Behind the temperature display



COLD ROOM CONTROLS / TEMPERATURE MONITORING

Sense

Locate the probe for the control duty. For pharmaceutical storage, use mapping to inform monitoring locations.

Control

Use the setpoint and control logic to sequence cooling, fans and defrost for the selected equipment.

Alert and record

Agree alarm thresholds, logging intervals, review routines and who responds to an excursion.

Verify

At commissioning, check sensor readings and demonstrate the specified sequences and alarms.

Plan the aisle around the door and the coil.



Warehouse Racking, Storage Aisles & Operational Access

Product movement

Check forklift turning space, pallet height and clear travel through the cold room door.

Racks and air distribution

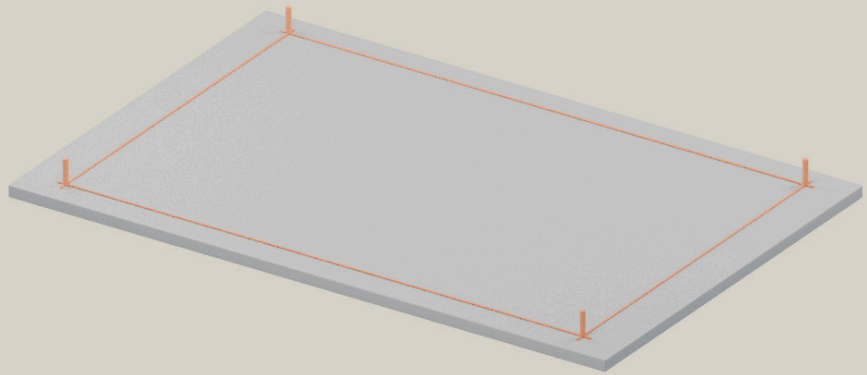
Keep stock clear of evaporator discharge and return paths. Allow access for defrost and maintenance.

Building services

Coordinate electrical distribution, ventilation, drainage, pipe supports, sprinkler coverage and emergency access.

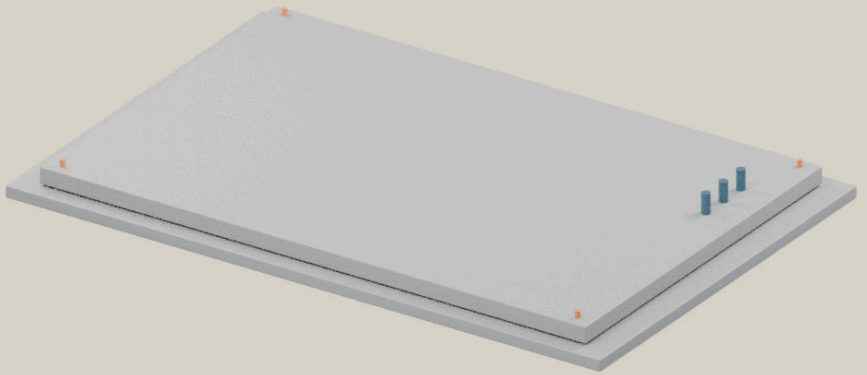
Before the first panel goes in

01 Site assessment & layout

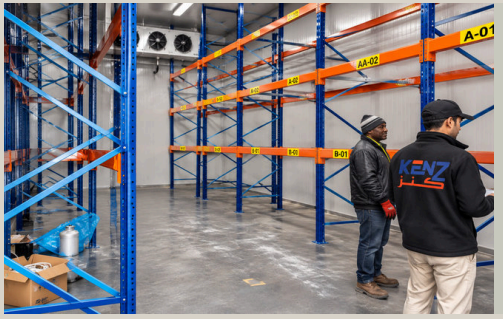


Survey the room, agree the product duty and mark the equipment and door positions.

02 Base & service provisions



Check the substrate, finished levels and service sleeves before covering the floor.



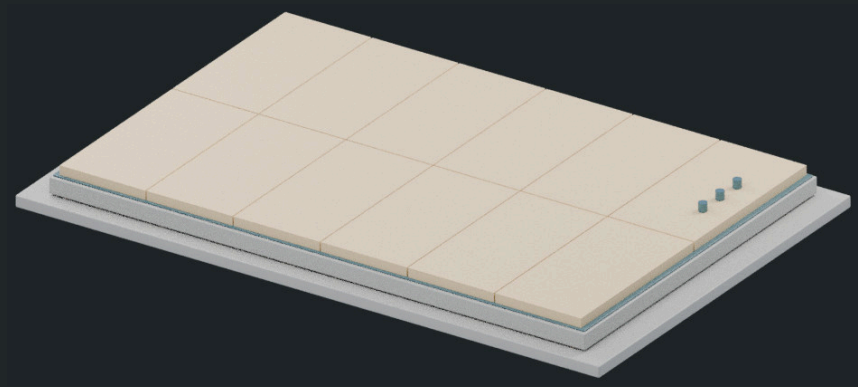
PROJECT EXECUTION / INSTALLATION HIGHLIGHTS

Hikma Pharmaceutical Cold Room Project

Field teams review the rack and aisle layout inside the room.

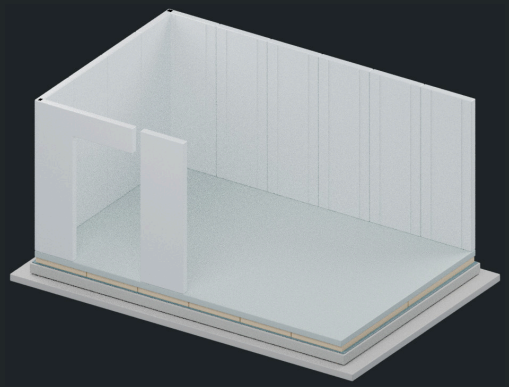
Build a continuous thermal boundary.

03 Floor insulation



Coordinate insulation boards and the moisture-control layer with the perimeter detail.

04 Insulated wall panels



Set the first panels square. Align adjacent sections and seal the joints to the approved detail.



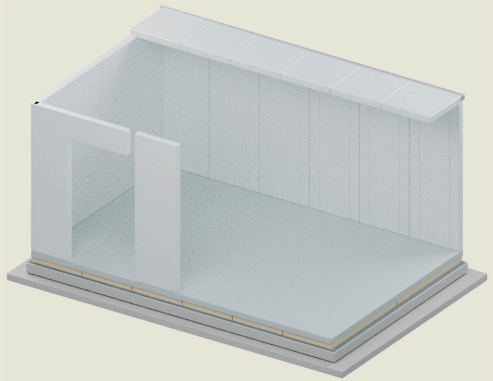
PROJECT EXECUTION / INSTALLATION HIGHLIGHTS

Entaj Chicken Cold Storage Project

Insulated walls enclose the work area while crews access the upper sections.

Close the room and fit the door.

05 Ceiling & roof interfaces



Connect the ceiling to its supports and seal the wall junctions and service openings.

06 Door, frame & seal



Fit the door to the clear opening. Check its travel, gasket contact, threshold and inside release.



PROJECT EXECUTION / INSTALLATION HIGHLIGHTS

Entaj Chicken Cold Storage Project

Installation teams carry out upper-level work within the insulated cold-room enclosure.

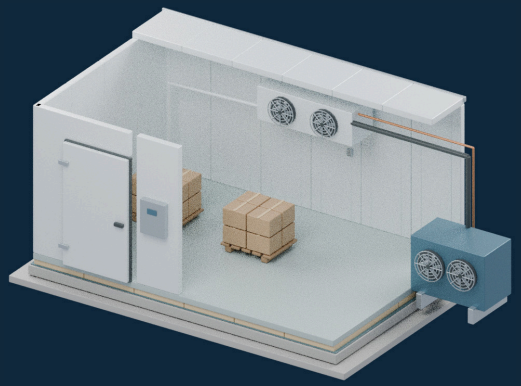
Start the equipment. Verify the response.

07 Plant & controls



Install the evaporator and condensing unit, connect the pipework and bring the controls into service.

08 Commissioning & handover



Run the specified checks, record results, close snags and brief the operator on alarms and maintenance.



PROJECT EXECUTION / INSTALLATION HIGHLIGHTS

SPIMACO Pharmaceutical Cold Room Project

Refrigeration equipment positioning, installation and system preparation.

Cold-chain work, in focus.

A selection of refrigeration, controls and cold-room project installations.









Site by site. Detail by detail.

Outdoor plant, electrical interfaces and temperature-controlled spaces.













Entaj Chicken Cold Storage Project

Before poultry reaches the table







PROJECT SCOPE

KENZ carried out cold-storage and refrigeration work for Entaj, the poultry brand of ARASCO, to support chilled storage within its food-processing operations.

PROJECT EXECUTION HIGHLIGHTS

Elevated-access installation, insulated-room construction and coordinated site activities demonstrate the engineering and workmanship involved in delivering temperature-controlled facilities.

SPIMACO Pharmaceutical Cold Room Project

Bringing the cooling equipment into position







PROJECT SCOPE

KENZ coordinated cold-room and refrigeration equipment for a pharmaceutical storage application. The documented scope included installation, system inspection and readiness checks.

PROJECT EXECUTION HIGHLIGHTS

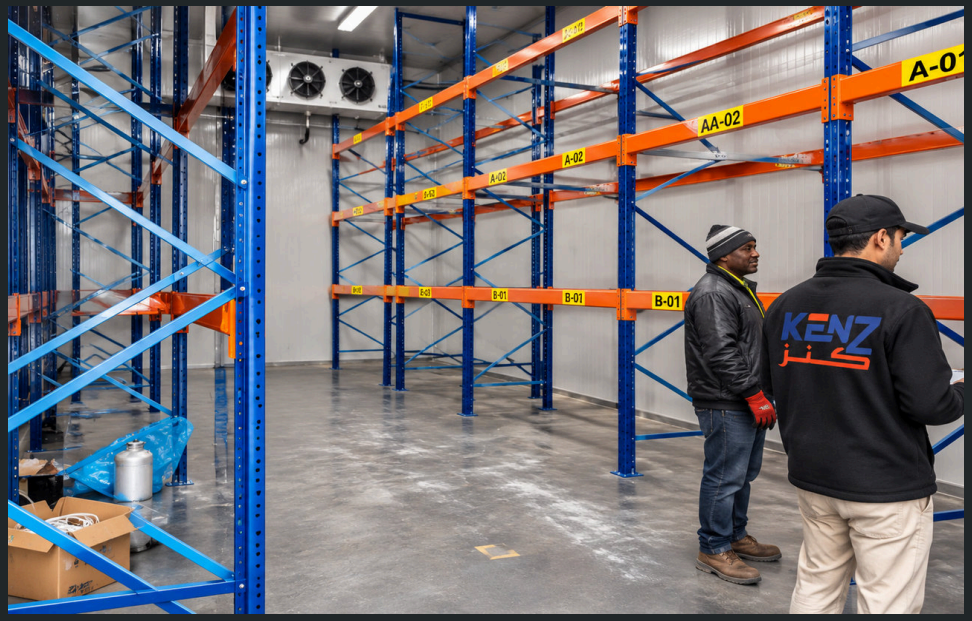
Evaporator positioning, refrigeration equipment preparation and installation-stage inspections support the development of reliable, temperature-controlled pharmaceutical storage environments.

Hikma Pharmaceutical Cold Room Project

A clear aisle gives the cooling unit room to work.

hikma.







PROJECT SCOPE

KENZ supported Hikma with cold-room works, refrigeration coordination, technical inspection and control checks for its pharmaceutical storage environment.

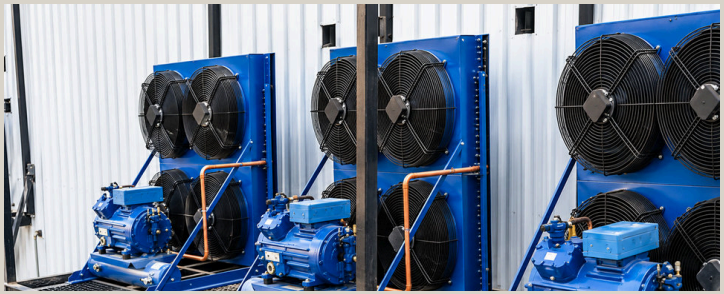
PROJECT EXECUTION HIGHLIGHTS

Cold-room infrastructure, evaporator positioning and storage-rack coordination are carefully considered to support efficient product handling, air circulation and maintenance access.

Watania Agriculture Cold Room Project

A place for the harvest after it leaves the field







PROJECT SCOPE

KENZ installed and arranged multiple outdoor condensing units on dedicated steel platforms. The scope included equipment placement, refrigeration piping coordination and related cold-storage infrastructure.

PROJECT EXECUTION HIGHLIGHTS

Outdoor condensing units installed on dedicated steel platforms, coordinated refrigeration services and insulated cold-room infrastructure support reliable temperature-controlled storage for agricultural products.

A Recognition of Trust. A Reflection of Commitment.

An appreciation letter from Watania Agriculture recognizing KENZ Al Arabia's professionalism, dedication and commitment to quality throughout the Cold Room Project.

Watania Agriculture Cold Room Project

Al Hail • 2025



الوطنية
Watania

Appreciation Letter

29th April 2026

To,
Kenz Al Arabia Al Alamia
Exit 18,
Al Manakh,
Saudi Arabia

We extend our sincere appreciation to Kenz Al Arabia for the successful completion of the Cold Storage Turnkey project. Your team demonstrated professionalism, dedication, and commitment to quality throughout.

The project was completed per required specifications and standards, and we are pleased with the outcome. Your timely coordination and attention to detail ensured smooth delivery.

In recognition of your efforts, we will proceed with issuing the Work Completion Certificate for the cold storage facility.

We look forward to continuing collaboration on future projects. Thank you for your excellent work.

Best Regards,

Al Watania Agriculture Company

Abdullah Al Sudais
CEO

شوكة الوطنية الزراعية
AL WATANIA AGRICULTURE COMPANY
Tulip Square Business Center, 1st Floor, Office No 22, Al Munsiyah, Dammam Rd, P.O. Box: 51764, Riyadh: 13253 6217.

A valued acknowledgment of the teamwork, engineering discipline and commitment behind successful project delivery.

Al Safi Refrigeration Project

The equipment outside is part of the protection inside.



01 / PLANT VIEW



02 / EQUIPMENT DETAIL

PROJECT FOCUS

Outdoor cooling equipment

The photographs show air-cooled condensing equipment, a compressor assembly, copper connections and structural supports on a concrete base.

ENGINEERING CONSIDERATIONS

Access · airflow · routing · support

Wafra Refrigeration Project

From outdoor equipment to electrical control.



REFRIGERATION EQUIPMENT LINEUP



PLANT ACCESS



CONTROL CABINETS

PROJECT SCOPE

Equipment arrangement, piping interfaces and site access are visible across the installation views.

PROJECT EXECUTION HIGHLIGHTS

Outdoor condensing plant and electrical control panels are considered as connected parts of the refrigeration system.

Dunkin’ Refrigeration Project

The details behind dependable everyday cooling.



FIELD WORK



CONDENSING EQUIPMENT & SITE COORDINATION



Control-panel access, on-site electrical work and outdoor refrigeration assemblies.

Engineering Shaped by Real Project Requirements



Crew at work inside Entaj’s cold-storage installation.

Product and site first

The survey establishes the storage duty, available power and space.

One coordinated room

Panels, equipment, doors and services are checked against the same layout.

Work that can be inspected

Material inspection, installation checks and snag closure support quality throughout project execution.

Relevant operating environments

Entaj, SPIMACO, Hikma and Watania cover poultry, pharmaceuticals and agriculture.

A defined handover

Functional checks, operating guidance and maintenance needs are considered during execution.

Different Industries. One Commitment to Excellence.

From protecting life-saving medicines to preserving agricultural harvests and food products, every project carries a responsibility. KENZ brings engineering precision, dependable refrigeration solutions and a commitment to quality across Saudi Arabia's essential industries.

Entaj / ARASCO

Poultry and food processing

SPIMACO

Pharmaceutical cold room

Hikma

Pharmaceutical refrigeration

Watania Agriculture

Agricultural cold storage

Across food, agriculture and industry.

Our corporate client portfolio spans diverse industries, including agriculture, food production, manufacturing and commercial operations.

Supporting essential operations.

Industries include food production, healthcare and manufacturing.



Different sectors. Shared standards.

Building lasting professional relationships through engineering expertise, dependable execution and a commitment to quality across diverse industries.

SAFARI سفاري

باجة baja

مستشفى القصيم الوطني
AL-QASSIM NATIONAL HOSPITAL

التنمية
TANMIAH

Al Rabie

INITIAL
SAUDI GROUP

صافولا
SAVOLA

مساندة
musanadah

hikma.

Marriott
HOTELS & RESORTS

جاش للخدمات الفنية
JASH Technical Services

الفاخرة
AL • FAKHRA

Relationships across the Kingdom.

Our experience extends across Saudi Arabia's commercial, industrial, healthcare and infrastructure sectors, reflecting the diversity of organizations we serve.

Rosh Rayhaan by Rotana Riyadh

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A diverse range of refrigeration, HVAC, control and equipment technologies supporting engineered solutions tailored to project requirements.

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FRESH COLD

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Quality and safety management

Our ISO 9001:2015 and ISO 45001:2018 certifications reflect our commitment to quality management, occupational health and safety, and disciplined engineering practices across cold-room and refrigeration projects.



QuayAudit

REGISTRATION CERTIFICATE

This certificate confirms that the management systems of

Kenz Al Arabia International Contracting Company

ARK Building No. 1212, Office No. C9, New Al Kharj Road, Al Manakh 14314-3460, Riyadh, Kingdom of Saudi Arabia

have been audited and approved by Quay Audit UK Ltd to the following management standard:

ISO 9001:2015

The approved management systems apply to the following scope:

Fabrication and Installation of Low Voltage Panels, Supply & Installation of Cold Rooms and its Condensing Units. Modular & FREFAB Insulated Structures, Supply and Installation of Active and Passive Shelters, HVAC, DC, UPS, Commercial Kitchen Equipment Supply and Maintenance, Genset Maintenance, Solar System, MEPF & Low Current System

This certificate is restricted to those scopes of business activity described in the internationally recognised NACE Codes listed below:

2511, 2640, 4322, 4669

Original Approval	18 March 2024
Current Certificate	18 March 2024
Certificate Expiry	18 March 2027
Registration Number	4159431

On behalf of Quay Audit UK Limited

www.ascb.com www.global-accreditation.org www.irqao.com

This is an accredited certificate authorised for issue by Accreditation Service for Certifying Bodies LLC who have assessed Quay Audit UK Limited against defined criteria and in cognisance the latest version of ISO 17021 'Conformity Assessment - Requirements for bodies providing audit and certification of management systems'. This certificate is only valid when confirmed by the register listed in the International Register of Quality Assessed Organisations: www.irqao.com

Grove House 8 St. Julian's Friars Shrewsbury Shropshire SY1 1XL | (44)1743 351677 | post@quayaudit.co.uk | www.quayaudit.co.uk

ISO 9001:2015

Quality management · No. 4159431



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ISO 45001:2018

Occupational health and safety · No. 4159432

Registration you can verify

Commercial registration, VAT registration and national-address evidence for the Riyadh headquarters.



Commercial registration

Unified No. 7038358268



VAT / ZATCA

VAT No. 312067244100003



National Address

RNCD4096 · Riyadh 14314

BUILDING 4096 · AL JAHOR STREET · AL-MANAKH · RIYADH



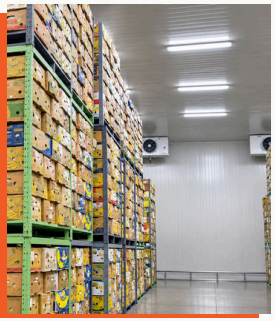
















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