

HVAC SOLUTI



QUANTUM LTD

Quantum Ltd excels in providing HVAC solutions for residential and light commercial projects.



AIRSCAPE LTD

Airscape Ltd is established to solve complex and demanding HVAC challenges for commercial, industrial and public projects.



Our two companies work cohesively with our partners to deliver the most-comprehensive, most-innovative and energy-saving solutions to our clients. Our engineers are supported by our worldwide partners to ensure we are always adopting the latest and smartest technology.

DIDITION PROFILE



COMPANY BACKGROUND

Quantum Ltd, established in 2007, as a HVAC full-service specialist company. Our mission is to solve complex HVAC engineering challenges with sustainable solutions to reduce CO2 footprint and energy consumption. Since our inception, Quantum has been supporting our residential and light commercial clients through many projects of a wide range of HVAC requirements.

OUR SERVICE

Over the last decade, we have became a household name for quality, proficiency and professionalism. Our clients entrust their HVAC needs to us and we always deliver. We are proud to continuously support our clients at each and every project.

- + PROJECT DESIGN
- + PROJECT ENGINEERING
- + PROJECT CONSULTANCY
- + PROJECT MANAGEMENT
- + PROJECT IMPLEMENTATION
- + SOLUTIONS SUPPLY
- + PROJECT AFTER-CARE

QUANTUM LTD PROFILE

- + Established in 2007
- + Focus on Residential & Light Commercial HVAC
- + Full engineering team for design, implementation & maintenance
- + Offices in Sulaymaniyah and Erbil
- + Active in All Cities in Iraq

VISIT US

Website: www.gb-ltd.com

Phone: +964 (0) 770 192 4745

Phone: +964 (0) 770 911 4042

Facebook: www.facebook.com/qbcompany





COMPANY BACKGROUND

Airscape Co, established in 2019, specialises in delivering high commercial and industrial HVAC solutions, suitable for medium-sized and large-sized private and public complexes such as hospitals, educational establishments and any highly populated buildings.

At Airscape Ltd, we strive to continuously adapt our solutions with the latest development within the HVAC sector to ensure our systems are most efficient, cost-effective and energy-saving. We are proud to be the pioneering force in solving a diverse range of complex challenges in our market.

OUR SERVICE

Airscape Ltd focuses greatly on delivering fresh air solutions, ensuring optimal indoor air quality to boost productivity, creativity and wellness in private, commercial and public applications.

- + PROJECT DESIGN
- + PROJECT ENGINEERING
- + PROJECT CONSULTANCY
- + PROJECT MANAGEMENT
- + PROJECT IMPLEMENTATION
- + SOLUTIONS SUPPLY
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VISIT US

Website: www.airscape-ltd.com

Phone: +964 (0) 750 4702 678

Facebook: www.facebook.com/airscapeiraq



OUR PARTNERS

We work closely with our international partners to deliver always first-class solutions, employing the latest technology and innovation. For solutions implementation, we collaborate with our trusted national partners to ensure our clients receive the upmost care and attention for each and every project.

EUROPEAN PARTNERS













OUR PARTNERS

- + 15 Worldwide Partners
- + 6 Countries
- + 3 Continents

OUR PARTNERS EXCEL IN QUALITY PRODUCTION AND INNOVATIVE ENGINEERING. ALL OUR MANUFACTURERS ARE CERTIFIED WITH ISO FOR QUALITY CONTROL, PRODUCTION AND TESTING.

Our partners are renowned worldwide for their products and solutions. Tried and tested by many engineers and HVAC consultants around the globe, we work only with the most advanced products.



ASIAN PARTNERS













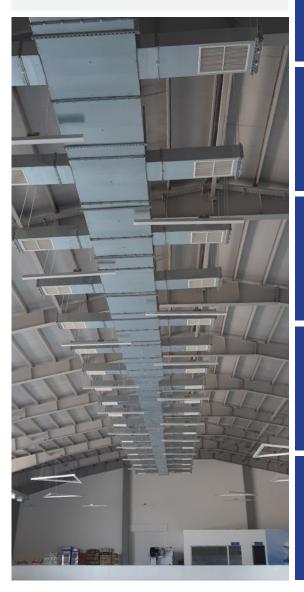






EVERYONE EVERYONE 2 S

We offer a wide range of HVAC solutions with specialisation in: Technical AC Solutions, Air Solutions, Heating Solutions, Hot Water Solutions and Bespoke AC Solutions.



AC SOLUTIONS

Our AC solutions focus on: Residential AC, VRF, Chillers & Heat Pumps, AHUs, Condensing Units, Hydronic Fancoil Units, Underfloor Cooling and Swimming Pool Units.

AIR SOLUTIONS

Our Air Solutions focus on delivering efficient and sustainable systems: Heat (Energy) Recovery Ventilators, Air Humidifiers, Air Dehumidifiers and Accessories.

HEATING SOLUTIONS

Our Heating Solutions focus on delivering products and systems for technical heating solutions to include: Radiators, Designer Radiators and Underfloor Heating.

GAS & LGP SOLUTIONS

Our range of Gas / LPG Solutions offers highly-engineered products to include: Gas Boilers, Condensing Gas Boilers, Gas Absorption Chillers and Gas Absorption Heat Pumps.

HOT WATER SOLUTIONS

Our Hot Water Solutions focus on: Water Heaters, Electric Storage Heaters, Cylinders, Electric Boilers and Steam Generators.

BESPOKE SOLUTIONS

Our Specialised Solutions department focuses on solving complex HVAC engineering challenges: Airports, Medical Facilities, Pools & Spas and Sports Hall.



RESIDENTIAL AC SOLUTION

Our Residential AC focuses on delivering solutions for Standard On & Off Splits and Inverter Splits, Multi-Splits for T1 and T3 applications for residential projects.



Our VRF solutions offer a wide range of Modular VRF and Mini VRF solutions for residential and commercial projects. With performance up to 55C outdoor temperature.



CHILLERSSOLUTION

Suitable for hotels, high-rise residential buildings, offices and hospitals, our Chillers solutions excel in madequality and performance. It's designed to last.



Engineered for outdoor implementations, our Package Units are suitable for roof or ground installations for schools, warehouses, factories and large halls.



Our Air Handling Units provides high engineering & sufficient ventilation, heating, cooling, dehumidification and air distribution to a conditioned space.



CONDENSING SOLUTION Ideal for educational establishments, large halls, warehouses & factories, Condensing Units deliver solutions for heavy-duty conditioned spaces.

We are the market leader in providing environmentally responsible renewable energy heating, ventilation and air-conditioning systems. Our solutions range included: Residential AC with Split Units and Multi-Splits, T1 and T3; VRF and Mini VRF; Chillers & Heat Pumps; AHUs; Condensing Units; Package Units; Hydronic Fancoil Units; Underfloor Units and Swimming Pool Units.



POOL UNITS SOLUTION

Engineered for conserving energy & reduce consumption, our Swimming Pool Units focus on providing an economical method of controlling pool environment.



We were the first HVAC specialists in Kurdistan to introduce the underfloor heating and cooling systems.

We are now the most experienced specialist.



We offer both concealed and exposed fancoil units for a wide range of settings, suitable for residential and commercial buildings.



HEAT PUMPS SOLUTION We offer heat pummps solutions for residential, commercial and industrial applications. Our products range excels in quality and engineering technology.



SOLUTION

Specialised AC solutions for data centres, telecom centres and heavy-duty computerised centres. Our products range is engineered by the best of technology from Italy.



EVAPORATING SOLUTION

Our range of Evaporating Units is suitable for residential, commercial and industrial applications. We offer complete engineering support for technical implementation.

We are the market leader in providing environmentally responsible renewable energy heating, ventilation and air-conditioning systems. Our solutions range included: Residential AC with Split Units and Multi-Splits, T1 and T3; VRF and Mini VRF; Chillers & Heat Pumps; AHUs; Condensing Units; Package Units; Hydronic Fancoil Units; Underfloor Units and Swimming Pool Units.







T1 ON/OFF

T3 ON/OFF T3 INVERTER

Available in R22 and R410a

We offer Splits Solutions for Residential and Offices Buildings: T1 Standard Splits to T3 DC Inverter Splits. Available in a wide range of modern designs, suitable for any indoor settings.

MULTI-SPLITS SOLUTIONS - 4.7kW to 12.3kW









T1 DCINVERTER R410a refrigerant

IDUs - Wall-mounted / Cassette / Duct-Type

Our Multi-Splits Solutions provide economical systems for controlling 2 to 5 indoor units. Available with high-efficiency DC inverter compressor and a wide range of indoor unit types.















T1 DC INVERTER

T3 DC INVERTER

Perform up to 55°C

Available in a wide range of cooling range from -5°C to 55°C and heating performance from -15°C to 30°C, our Mini VRF excels in technical performance and energy-saving features.

FULL T3 DC INVERTER, FULL DC INVERTER & HEAT RECOVERY VRF









T1 & T3 DCINVERTER R410a REFRIGERANT

Perform up to 55°C

VRF systems are well-favoured for high-rise residentials and high-density office buildings. We offer an extensive range of Modular VRF solutions, with Mitsubishi and Hitachi compressors.











SCROLL Compressor

Available from 270kW to 1,600kW

Our Air-Cooled Chillers are available in Class A Energy with extended operating limits and integrated master/slave control.

WATER-COOLED CHILLERS & FREE-STANDING CHILLERS









SCREW Compressor

SCROLL Compressor Water-Cooled Screw & Scroll Chillers from 15kW to 1,630kW Free-Standing Chillers from 170kW to 1,200kW

Available in high-efficiency and integrated master / slave control.





- + Optimal Energy Efficiency, Air Quality and Comfort
- + Wide and Versatile Range
- + Integrated Freecooling Option
- + Energy Saving Solutions for All Commercial Buildings

T1 RTP OPTIONS T3 RTP OPTIONS

Roof Top Packaged for Tropical and Standard Climates

The units are plug and play type, designed for ducted systems and suitable for on-ground and onroof installations. Each unit is designed for ease of handling and low cost installation.

PACKAGED AIR HANDLING UNITS & PACKAGED POOL DEHUMIDIFYING UNITS





Packaged Units are ideal for warehouses, large halls, schools, mosques, or heavy-duty air-conditioned spaces. Our Pool Units are specialised solutions for indoor swimming pools.

Package Hygienic Air Handling Units

- + Up to 11.000 m3/h Airflow
- + Complying with DIN 1946/4

Package Pool Dehumidifying Units

- + Dehumidification Capacity Up to 200 kg/h
- + Eco Friendly R410A Refrigerant with Scroll Hermetic Compressor
- + Applied Energy Recovery







- + Ideal for comfort and indoor air quality
- + 1,000 to 100,000 m³/h airflow range
- + 23 different cross section & unlimited configurations
- + Low energy consumption

1,000 to 100,000 m³/h Air Flow

Flexible, Modular & Energy-Efficient Solutions

Our Air Handling Units ensure high-energy operational, high technological and premium- quality while providing heating, cooling, humidification, dehumidification and ventilation solutions.

HYGIENIC AIR HANDLING UNITS



- + Certified Hygiene Features
- + Easy to Clean and Continuous Drain
- + High Design & Production Technology
- + Excellent Hygienic Air Control

1,000 to 100,000 m³/h Air Flow

Suitable for a Wide Range of Applications

Hygienic Air Handling Units are engineered for specialised environments such as: Hospitals, Pharmaceutical Factories, Food Factories, Laboratories, Electronics & Micro-electronics Factories.





- + With Scroll Compressors
- + R134a or R410a Refrigerant
- + Axial or Centrifugal Fans
- + Engineered with Best Technology

5kW to 636kW Capacity Range

Modern Solutions

Condensing Units is designed intergrate with remote evaporating units, suitable for outdoor installation in residential and commercial applications.

POOL DEHUMIDIFYING UNITS





- + Dehumidification Capacity Up to 200 kg/h
- + R410a Refrigerant with Scroll Hermetic Compressor
- + 12 Different Cross-Sections Up to 31,500 m³/h Airflow
- + Applied Energy Recovery

31,500 m³/h Air Flow kg / h capacity

Energy Saving & Customisable Solutions

Suitable for all type of indoor swimming pools, our Pool Dehumidifying Units excels in energysaving performance and bespoke customisable to obtain optimal technical specification.









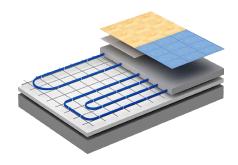
- + Four Way Cassette Type Fancoil
- + Concealed Type Fancoil
- + Ceiling Type Fancoil
- + Floor Type Fancoil
- + HESP Duct Type

Eurovent Certified Up to 12kW Cooling Capacity

Versatile and High-Comfort Solutions

Hydronic Fancoil Units are ideal solutions for regulating indoor air quality, built with advanced technology to save energy and maximise comfort. Suitable for residential and commercial settings.

UNDERFLOOR COOLING



Efficient & Smart
Ideal for Modern Homes & Offices

Energy Saving & Smart Solutions

Underfloor cooling is an effective and efficient method of cooling for hot climates. Utilising radiation, convection and evaporation, underfloor cooling process requires a ground source heat pump, an air source heat pump, or a chiller to pass chilled water through the underground pipe network.

High Level of Comfort – easy to control and regulate the temperature to the required level

No Draughts – reduces the temperature of the room with radiation, resulting in better air quality, less pollution and no draughts that often associated with traditional air conditioning.

Environmental Benefit – underfloor cooling systems mostly work with a ground or air source pump, which much more environmentally friendly

Design Freedom – as all the piping network is under the floor, this frees the space above for luxurious designs





- + Suitable for Outdoor Installations
- + Suitable for Residential & Commercial & Industrial
- + Specialised Units for Residential Settings
- + Wide Range of Capacity

5kW to 1227kW Wide Range of Capacities

Engineered with Best Technology & Know-How

Available in a wide range of capacities, our Heat Pumps options offer top of the industrial engineering know-how and excellent technical craftmanship.

PRECISION AC & EVAPORATING UNITS









Specialist Solutions Made in Europe

Engineered to Solve Complex AC Requirements

Specialised AC solutions are engineered to solve challenging requirements with focus on easy installation, maintenance and effective air regulations.







- + Optimal Energy Efficiency, Air Quality and Comfort
- + Wide and Versatile Range
- + Advance Control Equipment for Easy Control
- + Motorised Damper and Electric Heating Functions

60 to 95% Reuse Recycle up to 95% of Energy

Versatile and Energy-Saving Solutions

HRV (Heat Recovery Ventilator), also known as ERV (Energy Recovery Ventilator) is highly suitable for commercial and public settings due to the energy-saving properties.

ACCESSORIES





- + Square / Rectangular Ceiling Diffuser, Linear Slot Diffuser, Round
 Ceiling Diffuser, Jet Diffuser, Swirl Diffuser, Drum Louver, Perforated
 Ceiling Diffuser and Light Troffer Diffuser
- + Grilles, Linear Bar Grilles, Egg Crate Grilles, Door Grilles, Floor Grilles and Decorative Grilles.

Quality Solutions Top Quality Guaranteed

Air Accessories for All

We offer a wide range of accessories for Air Solutions to include diffusers and grilles. Manufactured to meet ISO standards, our products are exceptionally made and suitable for all projects sizes.





Suitable for residential and commercial settings, our radiators are vailable in both steel & aluminum, with exceptional-made, stylish and versatile.

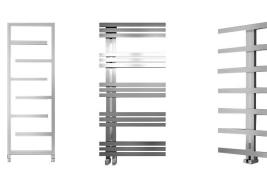


Our Heating Panels Solutions come from the best of technology in Italy. Designed for modern interiors, Heating Panels are most suitable for commercial and industrial applications.



We have wealth of experience in delivering solutions for modern residential and commercial applications. Our underfloor systems benefit from effective engineering and smart products.

We are the market leader in providing environmentally responsible renewable energy heating, ventilation and air-conditioning systems. Our solutions range included: Residential AC with Split Units and Multi-Splits, T1 and T3; VRF and Mini VRF; Chillers & Heat Pumps; AHUs; Condensing Units; Package Units; Hydronic Fancoil Units; Underfloor Units and Swimming Pool Units.







- + Aluminium Radiators
- + Steel Radiators
- + Options for Domestic & Commercial Settings
- + High Quality & High Design

Radiators for All Designers & Traditional Options

Exceptional Quality and Design

We offer exceptional high-quality radiators for domestic and commercial settings. We work with world-class manufacturer: Imas Group and Carisa to bring the best quality radiators to Iraq.

HEATING PANELS





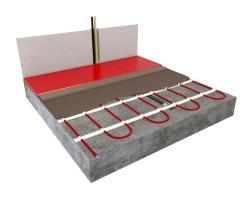




Industrial Expert Modern Designs

Wide Range of Styles & Designs

Heating Panels Solutions are engineered for modern interiors for commercial and industrial settings. Manufactured with the best technology from Italy, these solutions provide advanced user comfort.



Smart Solutions Perfect for Homes & Offices

Luxurious Solutions for All

Underfloor heating is the most luxurious form of heating as its radiant heat is evenly distributed throughout the room—wall to wall, floor to ceiling—right where you feel it the most.

Underfloor heating has made it possible to reduce energy consumption by using low water temperatures. These systems based on the development of complex and very high quality plastic pipe, such as the multilayer pipe, now account for over 60% of some European heating markets. Hard floor surfaces are warm to the touch and with no air being blown around it is totally silent. What's more, the system is totally hidden from view and, unlike radiators or surface mounted splits and fancoils, takes up no wall space. This makes it ideal for large open plan homes or those with lots of glazing.



SOLUTIONS SOLUTIONS





We offers a wide range of Gas Boilers, manufactured by top specialists around the world. Available in modern designs, our units are most suitable for residential settings.



Gas condensing boilers utilise innovative technology to provide reliable and energy efficient heating and hot water supply. We also offer industrial solutions for heavyduty applications.



Our Gas Absorption Chillers are world-renowned for their innovative engineering with many benefits to using gas absorption chillers to include: low electrical consumption and cost-effective.



Gas Absorption Heat Pumps technology is able to recover renewable energy in the form of heat from air, water and ground sources, achieving efficiency rates up to 170%.

We are the market leader in providing environmentally responsible renewable energy heating, ventilation and air-conditioning systems. Our solutions range included: Residential AC with Split Units and Multi-Splits, T1 and T3; VRF and Mini VRF; Chillers & Heat Pumps; AHUs; Condensing Units; Package Units; Hydronic Fancoil Units; Underfloor Units and Swimming Pool Units.

COMBI BOILERS







- + High Performance
- + Advanced Technology
- + Full Condensing Technology
- + Maximum Efficiency

Hermetic & Condensing Combi Boilers

Suitable for Natural Gas & LPG

We offer a wide range of Combi Boilers, suitable for domestics settings. Featuring modern design and interface, our units are easy to use and easy to maintain.

DOMESTIC CONDENSING BOILERS & INDUSTRIAL CONDENSING BOILERS







- + Suitable for both Domestic & Industrial
- + Domestic Boilers from 69kW to 3000kW
- + Industrial Wall Hung Boilers from 42kW to 160kW
- + Industrial Floor Boilers from 160kW to 2200kW
- + Industrial Steel Boilers from 85kW to 3500kW

Domestic & Industrial Condensing Boilers for All Solutions

Wide Range of Selections

Our range of Condensing Boilers features advanced manufacturing technology, suitable for domestic and industrial applications. Quality guaranteed.





- + Modular System with Patented Technology
- + Stable Performance with Great Flexibility
- + No Water Consumption
- + No Cooling Towers

17kW to 1000kW

Patented Technology

Solutions For Every Need

Gas Absorption Chillers provide excellent solutions for lowering energy-consumption. We provide solutions for domestic and specialised industrial applications.

GAS ABSORPTION HEAT PUMPS







- + Reduce Heating Cost by up to 50%
- + All in One Solution
- + Top Rated Energy Saving Performance
- + Negligible Electrical Consumption

Up to 170% Efficiency Technology from Italy

Made in Itay

Our Absorption Heat Pumps technology is patented and continuously developed over the last 50 years. Suitable for industrial applications with high-electrical consumption.

O I



We offer high-technical range of European Instantaneous Water Heaters, excelling in made-quality and engineering properties., suitable for domestic settings.



Electric storage water heaters offer an exceptional economical solution for installing hot water without requiring additional gas connection and applicable to every modern homes.



Available in vertical and horizontal models, our Hotwater Cylinders are manufactured to the best of European quality and engineering standards.

Suitable for domestic uses.



Electric boilers are modern, comfortable, safe and eco-friendly source of heating. It's a perfect solution for the locations without a gas supply as well as for the energy-saving constructions.



Steam generators are mainly specified for spas and public swimming applications. For residential uses, we offer from 2kW to 21kW, and up to 100kW for more demanding applications.

We are the market leader in providing environmentally responsible renewable energy heating, ventilation and air-conditioning systems. Our solutions range included: Residential AC with Split Units and Multi-Splits, T1 and T3; VRF and Mini VRF; Chillers & Heat Pumps; AHUs; Condensing Units; Package Units; Hydronic Fancoil Units; Underfloor Units and Swimming Pool Units.

INSTANTANEOUS WATER HEATERS & ELECTRICAL STORAGE HEATERS









- + No Gas Required
- + Highly Efficient
- + Wide Range of Models
- + Suitable for Domestic Uses

Made in Europe Hot Water Solutions without Gas

Solutions for Every Homes

Offering excellent energy-performance and compact-sizings, our Water Heaters are suitable for domestic settings.

HOTWATER CYLINDERS







- + Available in Horizontal & Vertical Applications
- + Fully Immersed Enameling Chamber
- + Anti-corrosive and Anti-acid
- + Long Lasting Performance
- + European Quality

High Grade Steel Technology from Europe

Modern Solutions

Available in vertical and horizontal models, our Hotwater Cylinders are anti-corrosive and anti-acid with full automatised dry enameling line.

ELECTRIC BOILERS







- + Weather Controlled System
- + High User Comfort
- + Maintenance Free
- + Eco Friendly

99.4% Co-Efficient
Perfect Solutions for No Gas Area

Suitable for Energy-Saving Buildings

Combining with thermal co-efficient of 99.4%, our solutions are guaranteed for cost-effectiveness and energy-loss reduction. Available in small and compact size.

STEAM GENERATORS



- + From 2kW to 21kW Power Range
- + Linking Systems Reach up to 100KW
- + Anti Limestone and Anti-Scaling
- + Built In Control Panels for Easy Use
- + Perfect for Home & Spa Centers

Stainless Steel
Technology from Europe

Easy to Use Systems

Our Steam Generators are suitable for homes applications and specialised spas centres. Easy to use and control, our units are favoured throughout Europe for their quality.



Projects Reference

- + Darwaza City, company office building and 230 flats
- + Sulaymaniyah Airport
- + American University, Sulaymaniyah
- + Sulaymaniyah University
- + Majidi Mall, Sulaymaniyah
- + Convention Hall, Chwarchra
- + Primary School, Chwarchra
- + More than 900 residential & commercial projects

- + Komar University
- + French Village, Dohuk
- + Chwarchra Nwe (Raeeda Al Tameer)





AIRPORTS SOLUTIONS



ROOF TOP PACKAGES
CHILLERS
AIR HANDLING UNITS
CONDENSING UNITS

Specialised Solution for Airports

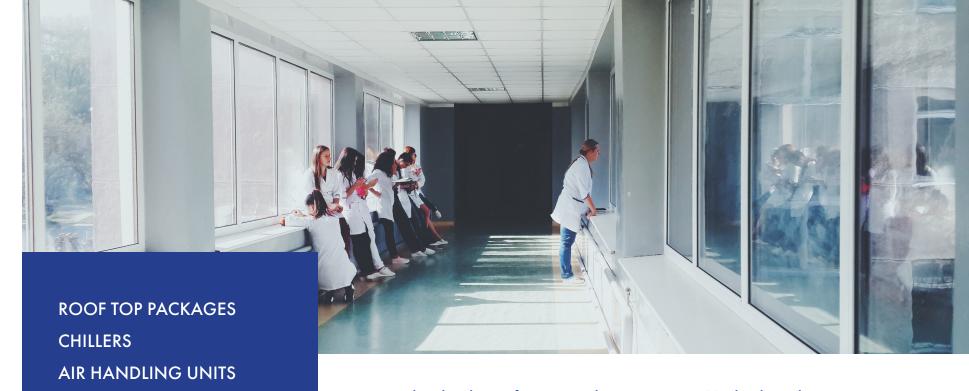
Supported by world-leading manufacturers, we have a wealth of experience and expertise in delivering complex HVAC solutions for airport supporting buildings and airport terminals. We provide engineering design and implementations to include industrial AC units to meet heavy-demand of such applications.





SULAYMANIYAH AIRPORT IRAQ

FIATIONS SOLUTIONS



Specialised Solution for Hospitals, Surgeries & Medical Facilities

Supported by world-leading manufacturers, we have a wealth of experience and expertise in delivering full air-fresh HVAC solutions for hospitals, medical facilities and surgery rooms. We support many local medical facilities to deliver fresh air throughout the buildings.



CONDENSING UNITS

FULL FRESH PACKAGED

GAS ABSORPTION CHILLERS



SULAYMANIYAH AIRPORT IRAQ



PACKAGE POOL DEHUMIDIFYING UNITS **POOL DEHUMIDIFYING UNITS**

Specialised Solution for Indoor Swimming Pools

We offer a wide range of solutions for Pools & Spas, providing full dehumidification, energy-saving and maintenance-free systems. Our solutions are supported by world-renowned manufacturers.





SOLUTIONS SOLUTIONS



AIR HANDLING UNITS
CONDENSING UNITS
DEHUMIDIFIERS
HEAT RECOVERY VENTILATORS
VRF

Specialised Solution for Sports Halls, Ice Rinks, Sports Courts

Supported by world-leading manufacturers, we have a wealth of experience and expertise in delivering complex HVAC solutions for sports halls, stadiums and specialised sports facilities such as ice rinks and football stadiums.





SWEDISH ICE RINK, QAIWAN IRAQ



























UNITED KINGDOM











MOGULARTE OUTDOOR LAB



MIDDLE EAST









