

HVAC SOLUTIONS FOR HEALTHCARE

Specialist ventilation, cooling and lifecycle support for
healthcare estates



AHUs

Chillers

Service

Rentals

Spares

Applied HVAC specialists for complex, large scale projects

Manufacturing AHUs, Chillers, and Heat Pumps for HVAC systems in the UK
Formerly McQuay

SUPPORTING HEALTHCARE HVAC THROUGHOUT ITS LIFECYCLE

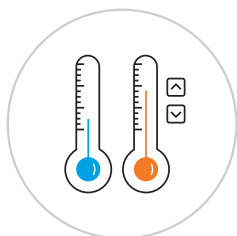
Daikin Applied (UK) is the market leader in the design and manufacture of efficient heating and cooling systems for healthcare. Our standard and bespoke products including air handling units, chillers and heat pumps offer precise temperature and humidity control with zone-by-zone comfort settings and intelligent energy savings; Ideal for complex healthcare environments.

Exceptional indoor air quality (IAQ) is just one of the prerequisites that healthcare facilities can expect from Daikin Applied HVAC equipment. Our products also ensure low noise level, reliability, and low running costs; achieved without compromising on performance.



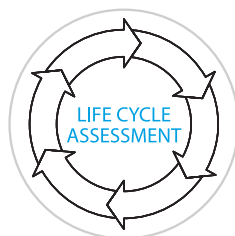
SPECIALIST HEALTHCARE VENTILATION

HTM 03-01 compliant solutions and bespoke AHU design.



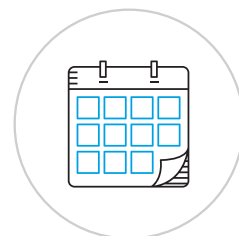
CRITICAL COOLING & HEATING

Efficient HVAC solutions for demanding healthcare environments.



LIFECYCLE SERVICE & OPTIMISATION

Maintenance, monitoring and upgrades to optimise performance and extend asset life.



RESILIENCE & TEMPORARY HVAC

Contingency planning and temporary cooling and heating to keep critical environments operational.



HEALTHCARE VENTILATION

expertise built on experience

Daikin Applied UK has supplied over **1,000 AHUs** to healthcare facilities nationally and internationally, providing extensive experience in specialist healthcare ventilation. Our HTM 03-01 expertise supports the design of compliant solutions for complex healthcare environments.

90
HTM UNITS SOLD PER YEAR

HTM 03-01
EXPERTISE



RESEARCH & DEVELOPMENT

Our in-house R&D team develops HVAC solutions in line with evolving technologies, legislation and HTM guidance, with the flexibility to support bespoke project requirements.



SUSTAINABLE PRODUCTS

Our products are designed with the complete lifecycle in mind, helping to reduce energy use, running costs and carbon emissions, with lower-GWP refrigerant options available.



SERVICE, MAINTENANCE & RENTAL

Lifecycle support includes maintenance, repairs, upgrades and refurbishment, alongside temporary cooling and heating for planned works and unexpected outages.



ACTIVE REMOTE MONITORING

Daikin on Site provides 24/7/365 remote monitoring, delivering operational insights to support optimisation, maintenance and improved equipment performance.

WHY CHOOSE DAIKIN APPLIED (UK)

AIR HANDLING UNITS

Our AHUs combine flexible design, robust construction and high indoor air quality performance, with solutions available for a wide range of healthcare applications.

DESIGN

Bespoke AHU designs provide the flexibility to meet individual building and application requirements, maximising performance within the available footprint.

FLEXIBLE INSTALLATION

AHUs can be supplied in modular sections, fully assembled where appropriate, or in flat-pack/kit form for projects with restricted site access.

THERMAL BREAK FRAME

Anodised aluminium framing incorporates Daikin's thermal-break design to enhance thermal performance. Rounded internal profiles also support ease of cleaning.

CERTIFIED PERFORMANCE

- › Eurovent-certified performance
- › Exceeds 2018 ErP Ecodesign requirements
- › VDI 6022 hygiene certification*
- › DIN 1946 hygiene certification*
- › RLT-certified performance

*Certification varies by AHU range.

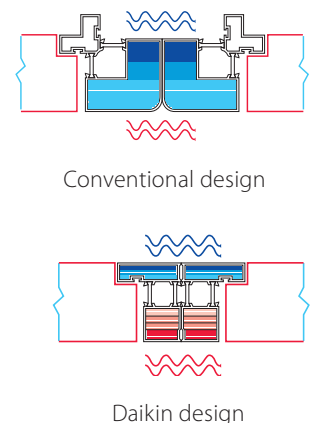


INDOOR AIR QUALITY

Flush internal surfaces and rounded profiles help minimise dirt retention and support effective cleaning, with a wide range of filtration options available to meet demanding IAQ requirements.

ROBUST CONSTRUCTION

Dual-skin panels feature high-density 100 kg/m³ Euroclass A rockwool insulation and corrosion-resistant internal and external finishes. Stainless steel panel options are also available.



AIR HANDLING UNITS

Healthcare projects have different ventilation requirements. From fully bespoke solutions for complex specifications to compact, standardised units for space-restricted environments, our AHU range provides flexible options designed around healthcare applications.

D-AHU PROFESSIONAL

Fully bespoke HTM 03-01 solutions engineered around complex and project-specific requirements.



0.21 m³/s
up to 40 m³/s



HTM-PRO T SERIES

Compact HTM 03-01 compliant solutions, with widths from just 740 mm – ideal for refurbishment, modular construction and space-constrained plant rooms.



0.25 m³/s
up to 2.95 m³/s



NEED MORE DETAILED HTM 03-01 GUIDANCE?

Explore our HTM 03-01 AHU Solutions brochure or book our healthcare ventilation CPD.



HEALTHCARE COOLING & HEATING

Healthcare estates require dependable cooling and heating across a wide range of applications, from patient and clinical environments to critical equipment and central plant.

Daikin Applied UK provides high-efficiency chillers and heat pumps designed to support the performance, resilience and decarbonisation requirements of modern healthcare estates.

Whether replacing ageing plant, upgrading an existing system or developing a new healthcare facility, our applied HVAC solutions can be selected around the specific requirements of the building and its long-term energy strategy.



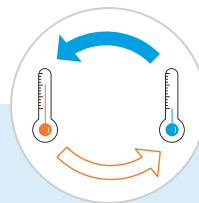
CHILLERS

Air-cooled and water-cooled chiller solutions for reliable, efficient cooling across healthcare applications.



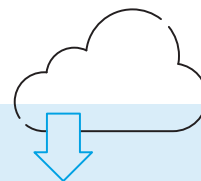
HEAT PUMPS

Applied heat pump solutions providing efficient low-carbon heating and supporting the transition away from fossil-fuelled plant.



HEAT RECOVERY

Solutions that recover and reuse rejected heat, helping reduce overall building energy demand where conditions allow.



LOWER-GWP REFRIGERANTS

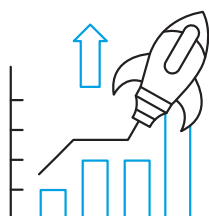
A range of refrigerant options designed to support evolving environmental legislation and longer-term HVAC strategies.

DESIGNED AROUND YOUR ESTATE



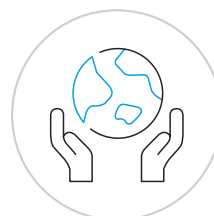
RELIABILITY

Solutions designed for demanding applications where continuity of heating and cooling is critical.



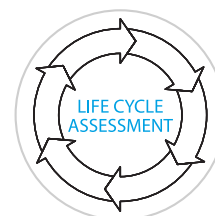
ENERGY EFFICIENCY

High-efficiency technologies designed to reduce energy consumption and operating costs.



DECARBONISATION

Heat pump and heat recovery solutions that support healthcare estates working towards lower-carbon heating.



LIFECYCLE SUPPORT

Backed by Daikin360 service, monitoring, modernisation and temporary HVAC support throughout equipment lifecycle.

VERIFIED PERFORMANCE BEFORE DELIVERY

Healthcare HVAC performance needs to be verified before equipment reaches site. Our AHUs combine independently certified performance with comprehensive factory testing at our Cramlington facility, helping provide confidence that specified performance requirements have been achieved before delivery.

EUROVENT CERTIFIED PERFORMANCE

Daikin Applied UK participates in the Eurovent Certified Performance programme for Air Handling Units, certified under 14.05.003.

Independent certification covers key mechanical and performance characteristics, including:

- › Casing strength and air leakage
- › Acoustic performance
- › Filter bypass leakage
- › Airflow, available static pressure and power input
- › Thermal transmittance and thermal bridging
- › Heating, cooling and heat recovery performance

FACTORY ACCEPTANCE TESTING

We understand the critical nature of healthcare applications and the importance of verifying AHU performance before delivery.

Factory Acceptance Testing (FAT) is carried out at our Cramlington, UK facility and can include:

STANDARD

- › AHU volumetric testing
- › AHU leakage testing to BS EN 1886 Class L2 (-400 Pa / +700 Pa)

AVAILABLE ON REQUEST

- › AHU deflection testing to BS EN 1886 Class D2
- › AHU acoustic testing
- › L1 leakage testing

DOCUMENTED BEFORE DELIVERY

All test results are accurately recorded at the time of testing and provided within a completed test pack following the FAT, giving the project team documented evidence of AHU performance before delivery.

SPECIALIST HEALTHCARE FILTRATION

HEPA & ULPA

High-efficiency filtration for applications requiring ultra-clean air.

PLEATED PANEL FILTERS

High-capacity options suitable for pre-filtration and protecting higher-efficiency final filters.

HIGH-EFFICIENCY EXTENDED SURFACE FILTERS

Suitable for high-efficiency applications including ICUs, treatment rooms, laboratories and minor surgical suites.

Filtration options are available to support relevant ISO 16890 classifications.



DESIGNED FOR REAL HEALTHCARE SITES

SITE WORKS AND SERVICES

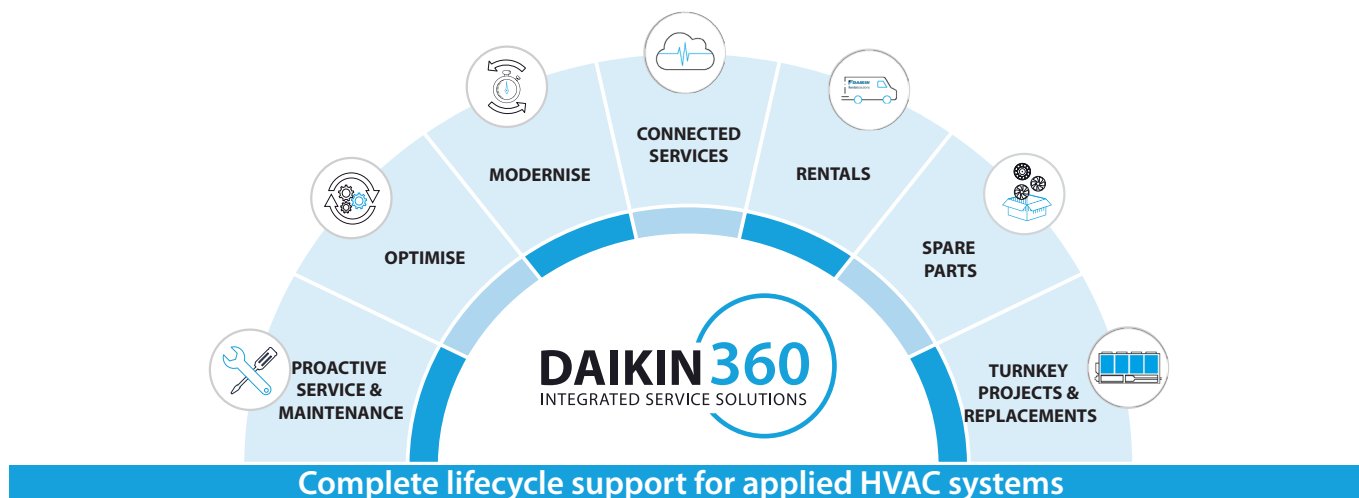
Healthcare sites can present complex access and installation challenges when new ventilation equipment is required. Our range of site services supports projects from initial site survey and positioning through to installation, testing and commissioning.

THE RANGE OF SITE SERVICES AVAILABLE IS AS BELOW:

- › General site surveys to understand potential scope of works.
- › Offload & positioning (subject to site survey)
- › Site bolt up of AHU sections
- › Site leakage testing of AHU's to BS EN 1886 Class L1 and L2 (-400pa/+700pa)
- › Flat-pack & kit form build up of AHU sections.
- › Build up of segmented heat recovery sections.
- › Installation of upgraded components to existing AHUs (fans, coils etc)
- › Interconnecting pipework of DX coils to external condensers (proximity dependant)
- › Static maintenance
- › Thermal wheel commissioning (where applicable)
- › VSD Inverter commissioning (where applicable)



DAIKIN360: LIFECYCLE SUPPORT FOR HEALTHCARE HVAC



Healthcare environments depend on reliable heating, cooling and ventilation. Daikin360 brings together our service capabilities into one lifecycle approach, helping healthcare estates maintain performance, improve resilience and extend the operational life of HVAC equipment.



MODERNISE EXISTING AHUS

Before automatically replacing them

If your AHU is more than 10 years old, it may no longer be operating as efficiently as it could. Refurbishment can improve performance, efficiency and reliability while potentially extending the operational life of the system by a further 10–15 years.

Why Refurbish?

Existing AHUs may be affected by deteriorating components, outdated technology, space restrictions or accessibility challenges. Refurbishment provides an opportunity to modernise key components without automatically replacing the complete unit.



AHU REFURBISHMENT BENEFITS

- 1 Improved Efficiency**
Upgrading filter, fan and coil solutions can significantly improve overall AHU efficiency.
- 2 Energy Savings**
Increased efficiencies from upgrading components can lead to significant energy savings.
- 3 Reduced CO₂**
Replacing components with energy-efficient solutions can support carbon reduction objectives.
- 4 Improved Indoor Air Quality (IAQ)**
Filter and airflow improvements can significantly enhance indoor air quality.
- 5 Maintainability**
Upgrading fan and filter solutions can reduce periodic maintenance requirements and associated costs.
- 6 Extended Lifecycle**
Refurbishment through replacing key components can extend the operational life of AHUs.
- 7 Lower Upfront Cost**
Component replacement is often significantly less expensive than full system replacement.
- 8 Compliance Support**
Modern solutions can help align existing AHUs with current regulations and operational requirements.

DAIKIN RENTAL SOLUTIONS

TEMPORARY TEMPERATURE CONTROL & CONTINGENCY SUPPORT

Maintaining heating, cooling and ventilation is critical across healthcare environments. Daikin Rental Solutions provides temporary HVAC systems to support hospitals and healthcare facilities during planned works, equipment replacement and unexpected failures, helping maintain essential services with minimal disruption.

SUPPORT WHEN YOU NEED IT



PLANNED SHUTDOWNS



EMERGENCY SUPPORT



PLANT REPLACEMENT



CRITICAL SYSTEM RESILIENCE

TEMPORARY HVAC SOLUTIONS



CHILLER HIRE

- › Air cooled - 30kW to 1MW
- › Water cooled - 10kW to 1MW



AHU HIRE



- › 100kW and 150kW standard AHUs
- › 50kW Vertical AHUs
- › 25kW and 50kW Low Temp AHUs

BOILER HIRE

- › Oil fired, gas, & electric
- › Capacities from 50kW to 1MW

DRY AIR COOLER HIRE

- › Closed-loop system with zero water usage

TURNKEY SOLUTIONS

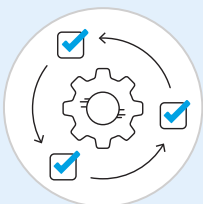
- › Contingency planning
- › Hassle-free quoting
- › Full maintenance support
- › Remote monitoring
- › Swift off-hire and removal
- › Ancillary equipment supplied
- › Turnkey project management

AIR SOURCE HEAT PUMP HIRE

- › 50kW to 500kW modular systems
- › Both heating and hot water

IDF HEATER HIRE

- › Available in 70kW, 150kW, & 200kW



From planned shutdowns to unexpected failures, Daikin Rental Solutions provides flexible temporary HVAC support to help healthcare estates maintain continuity.



CONNECTED SERVICES

Using operational data to identify issues before they impact performance

Predictive Maintenance uses connected equipment data and performance analysis to identify developing issues before they become critical failures. By moving beyond reactive maintenance approaches, organisations can improve reliability, reduce downtime risk and make more informed maintenance decisions.

Through continuous monitoring and analysis of asset performance, maintenance activities can be planned proactively, helping to optimise system operation and support long-term equipment health.



MONITOR

Continuous visibility of equipment performance and operating conditions



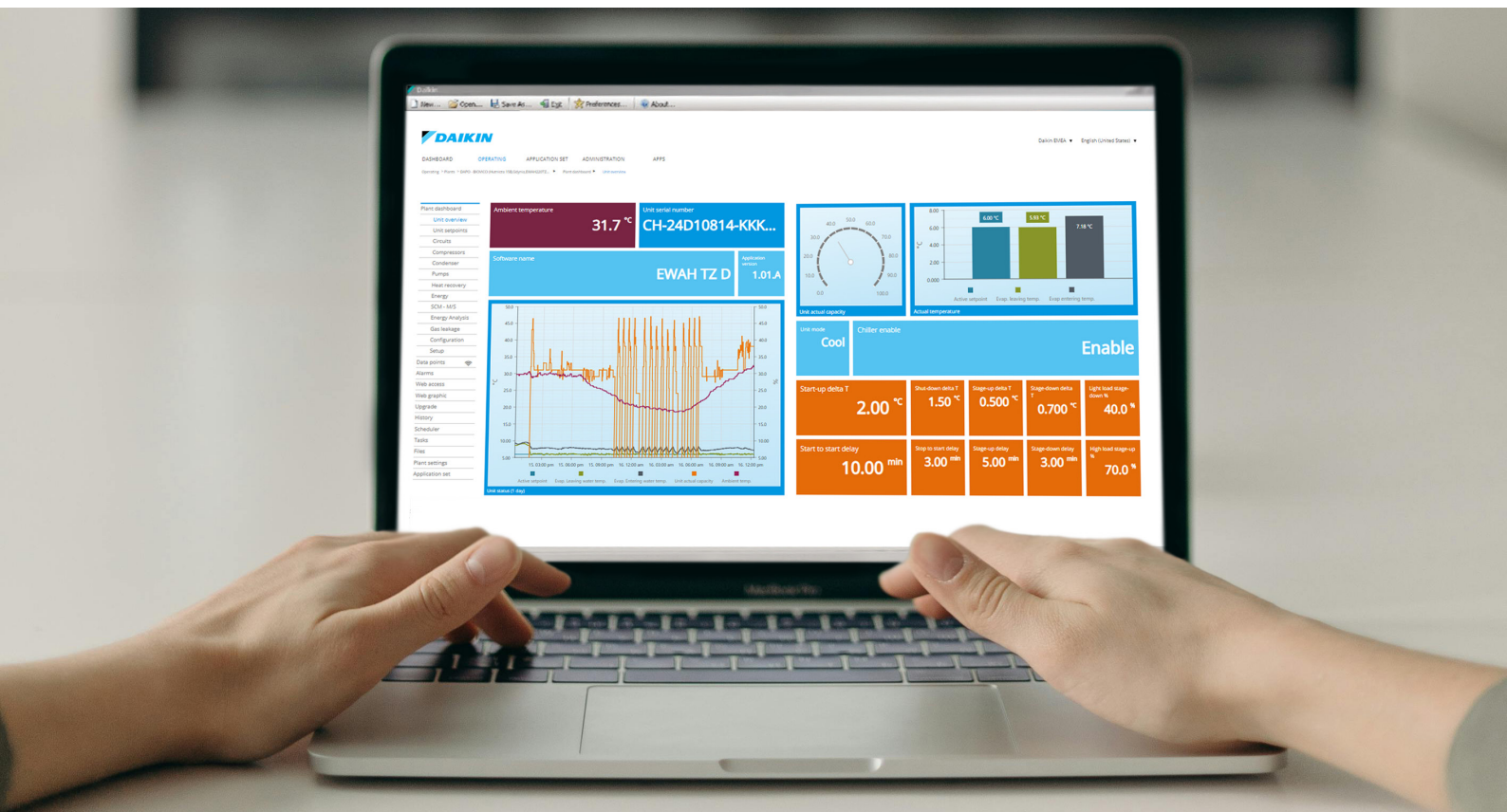
ANALYSE

Identify trends, anomalies and developing issues through data-led insights.



OPTIMISE

Support decisions that improve reliability and efficiency.



DAIKIN ON SITE

ACTIVE REMOTE MONITORING

WHAT IS DAIKIN ON SITE?

Daikin on Site (DoS) is a web-based 24/7/365 active remote monitoring system that collects complex operational data from the AHU or chiller control system.

Daikin's Smart Centre turns the operational data into useful information that allows the user to remotely monitor performance. It also allows Daikin professionals to remotely optimise and maintain the equipment.

LIFETIME COST OF YOUR SYSTEM

Energy costs and maintenance typically account for 85% of the system's total lifetime cost. With DoS we can provide a preventative maintenance schedule to ensure maximum efficiency and reliability of your equipment, preventing costly downtime and major repairs and keeping your energy costs to a minimum.

WHAT YOU GET WITH DAIKIN ON SITE

Active monitoring and assistance



- › 24/7/365 automated alarm via email
- › Remote diagnostic support from Daikin experts
- › Quick site assessment
- › Smart mobilisation of service personnel to site if necessary

Control and measuring



- › Master / slave functionality
- › Real time operational data and trend insights 24/7/365
- › Life-cycle data log
- › Automated and tailored reports

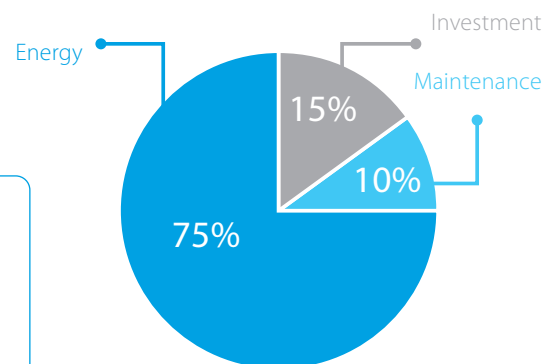
User friendly

- › Access to DoS web app
- › Remote software upgrades
- › Interactive personalised dashboards

Efficiency and reliability



- › Reduced operational costs
- › Optimised energy efficiency
- › Reduced waste
- › Reduced carbon footprint
- › Enhanced system reliability
- › Reduced system downtime



Typical Life cycle Cost of a chiller (15 years)

CASE STUDY

Royal Papworth Hospital

Cutting-edge technology and unprecedented sustainability underpin one of the UK's biggest health sector construction projects.

THE CHALLENGE

Daikin Applied UK worked with Skanska to deliver 60 AHUs and three water-cooled chillers, providing 1MW of cooling. The project included design, installation, commissioning and maintenance, while overcoming restricted plant space and strict HTM requirements.

THE SOLUTION

Early appointment as the specified manufacturer allowed Daikin Applied to custom-design the AHUs around the project's multi-space air conditioning requirements and restricted plant space.

Working with Skanska, our engineers adapted the original air-cooled design to deliver a lower-cost, more efficient water-cooled solution, providing 1MW of cooling.

High-efficiency EC motors and low-maintenance components optimised performance and efficiency, while our UK teams adapted the AHU designs to overcome commissioning challenges and maintain the original timescale and budget.

WHAT WE SUPPLIED

60 D-AHU Professional units

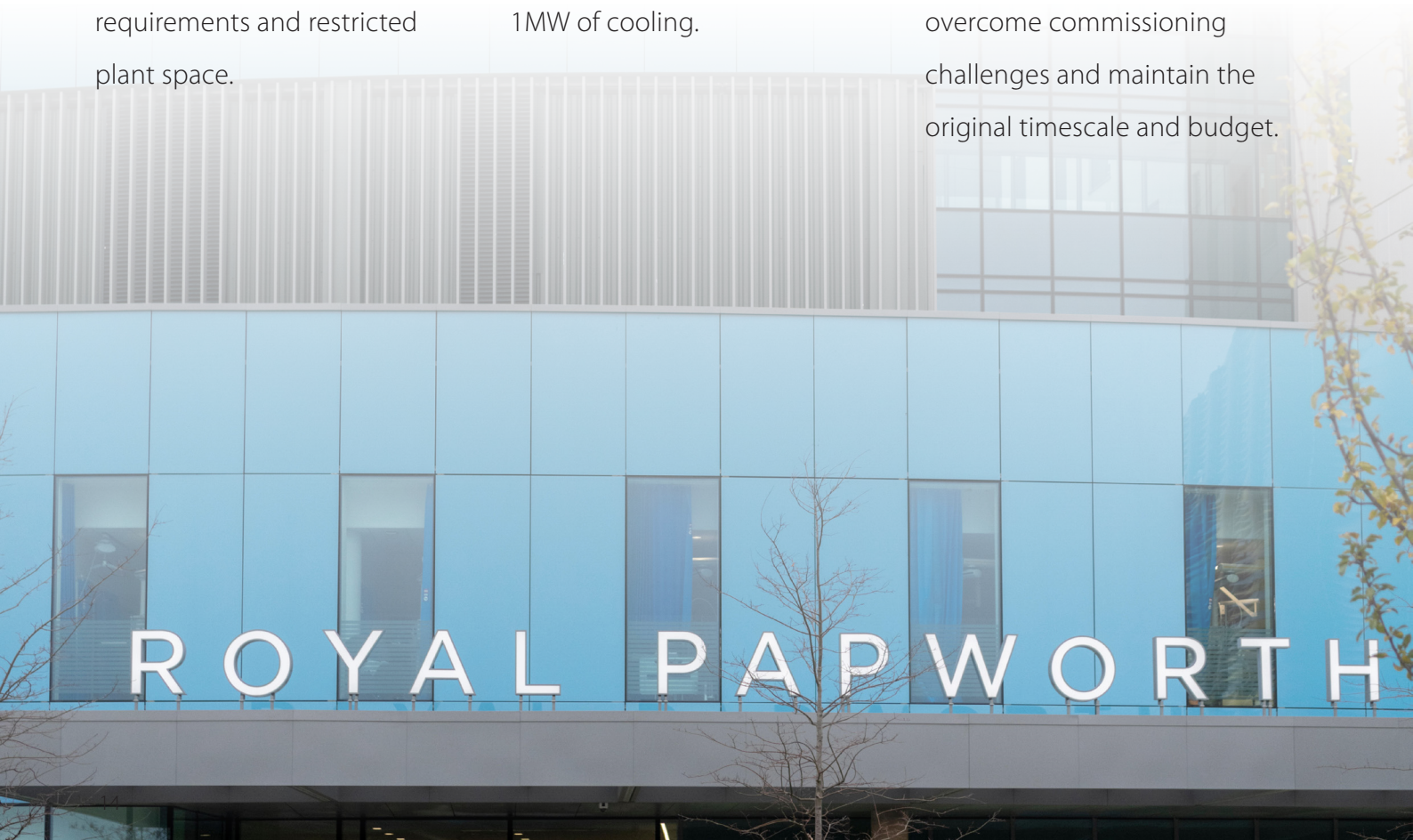
Various air volumes

42 Internal Units

18 External Weather-proof Units

3 Water Cooled Chillers

EWQ 430 L SS (360kW)



ROYAL PAPWORTH

CASE STUDY

Grange University Hospital

Daikin Applied UK supplied high-performance air handling solutions for the new Grange University Hospital in South Wales.

THE CHALLENGE

The new £350 million Grange University Hospital was designed to provide specialist and critical care for more than 600,000 people across South-East Wales.

Originally due to open in Spring 2021, the programme was accelerated in response to the COVID-19 pandemic, placing additional pressure on the project team to complete the hospital and its critical infrastructure ahead of schedule.

THE SOLUTION

Daikin Applied UK supplied 57 HTM-compliant packaged Professional Air Handling Units, supporting the hospital's specialist ventilation requirements.

Each AHU was designed and delivered on one common base, reducing the amount of on-site assembly and lifting equipment required. This supported the project's Modern Methods of Construction approach while helping to reduce installation time and associated costs.



WHAT WE SUPPLIED

- › 57 × HTM-compliant D-AHU
- › Professional Air Handling Units



YOUR HEALTHCARE HVAC PARTNER

From specialist healthcare ventilation to ongoing service, modernisation and temporary HVAC, Daikin Applied provides support throughout the lifecycle of healthcare estates.

FOR DETAILED PRODUCT INFORMATION, TECHNICAL SPECIFICATIONS AND HTM 03-01 DESIGN REQUIREMENTS.



VENTILATION

HTM 03-01 AHUs and specialist healthcare ventilation

SERVICE & MAINTENANCE

Lifecycle support for Daikin and other manufacturer equipment

MODERNISATION

Extend asset life and improve existing HVAC performance

COOLING & HEATING

Applied cooling and heating solutions for critical environments

CONNECTED SERVICES

Remote monitoring, diagnostics and performance insight

RENTAL & CONTINGENCY

Temporary HVAC supporting planned works and unexpected outages

For Product, Service & Maintenance, Rental, and Spares enquiries:



0345 565 2700



www.daikinapplied.uk
www.daikinrentalsolutions.uk



[linkedin.com/company/daikin-applied-uk-ltd/](https://www.linkedin.com/company/daikin-applied-uk-ltd/)
[linkedin.com/company/daikin-applied-service/](https://www.linkedin.com/company/daikin-applied-service/)



The present publication is drawn up by way of information only and does not constitute an offer binding upon Daikin Applied (UK). Daikin Applied (UK) Ltd has compiled the content of this publication to the best of its knowledge. No express or implied warranty is given for the completeness, accuracy, reliability or fitness for particular purpose of its content and the products and services presented therein. Specifications are subject to change without prior notice. Daikin Applied (UK) Ltd explicitly rejects any liability for any direct or indirect damage, in the broadest sense, arising from or related to the use and/or interpretation of this publication.



Daikin Applied (UK) Ltd is certified to ISO 9001 Quality Management System (QMS), ISO 14001 Environmental Management System (EMS), and ISO 45001 Occupational Health and Safety (OH&S) management systems. For the latest certificates, visit: www.daikinapplied.uk/documents-download

