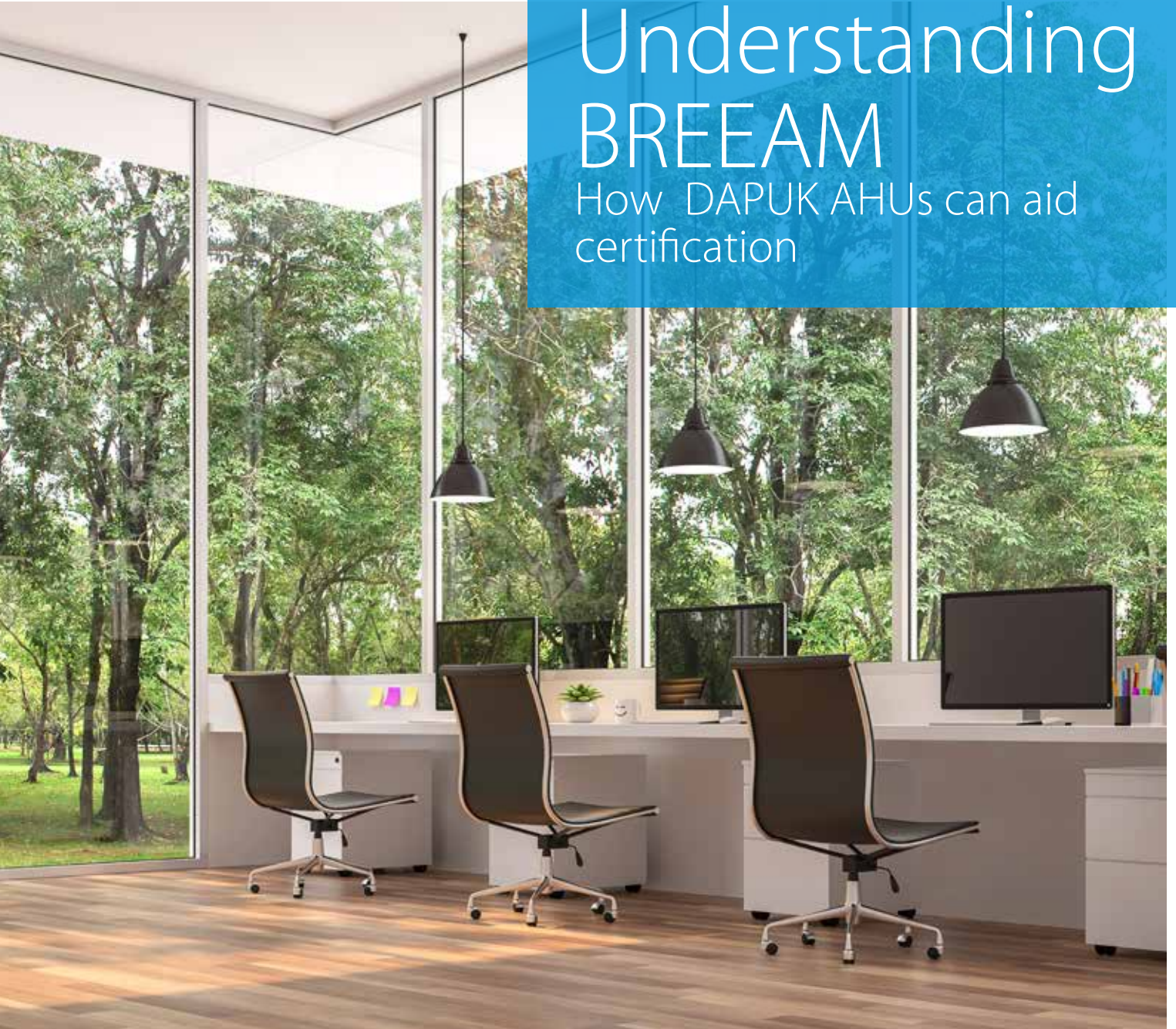


# Understanding BREEAM

How DAPUK AHUs can aid  
certification



Team up with Daikin Applied to achieve up to  
52 BREEAM credits through your new AHU

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**AHUs**

**CHILLERS**

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**SERVICE**



# What is BREEAM?

BREEAM (Building Research Establishment Environmental Assessment Method) is a rating system developed by the Building Research Establishment (BRE) in 1990. It is used to specify and measure the sustainability performance of buildings, ensuring that projects meet sustainability goals and continue to perform optimally over an extended period.

A BREEAM assessment uses recognised measures of performance, which are set against established benchmarks, to evaluate a building's environmental impact across 10 categories including, energy, water, waste, pollution, transport, and ecology. The categories are weighted based on their environmental impact, meaning measures in one sub-category can count for more than that of another, however, a building must achieve a minimum score in each category to achieve certification.

## What are the benefits of BREEAM?



Compliance with local and national sustainability regulations (up to 70% of local authorities require BREEAM certification). Demonstrates a commitment to sustainability.



Improved occupant health and wellbeing.



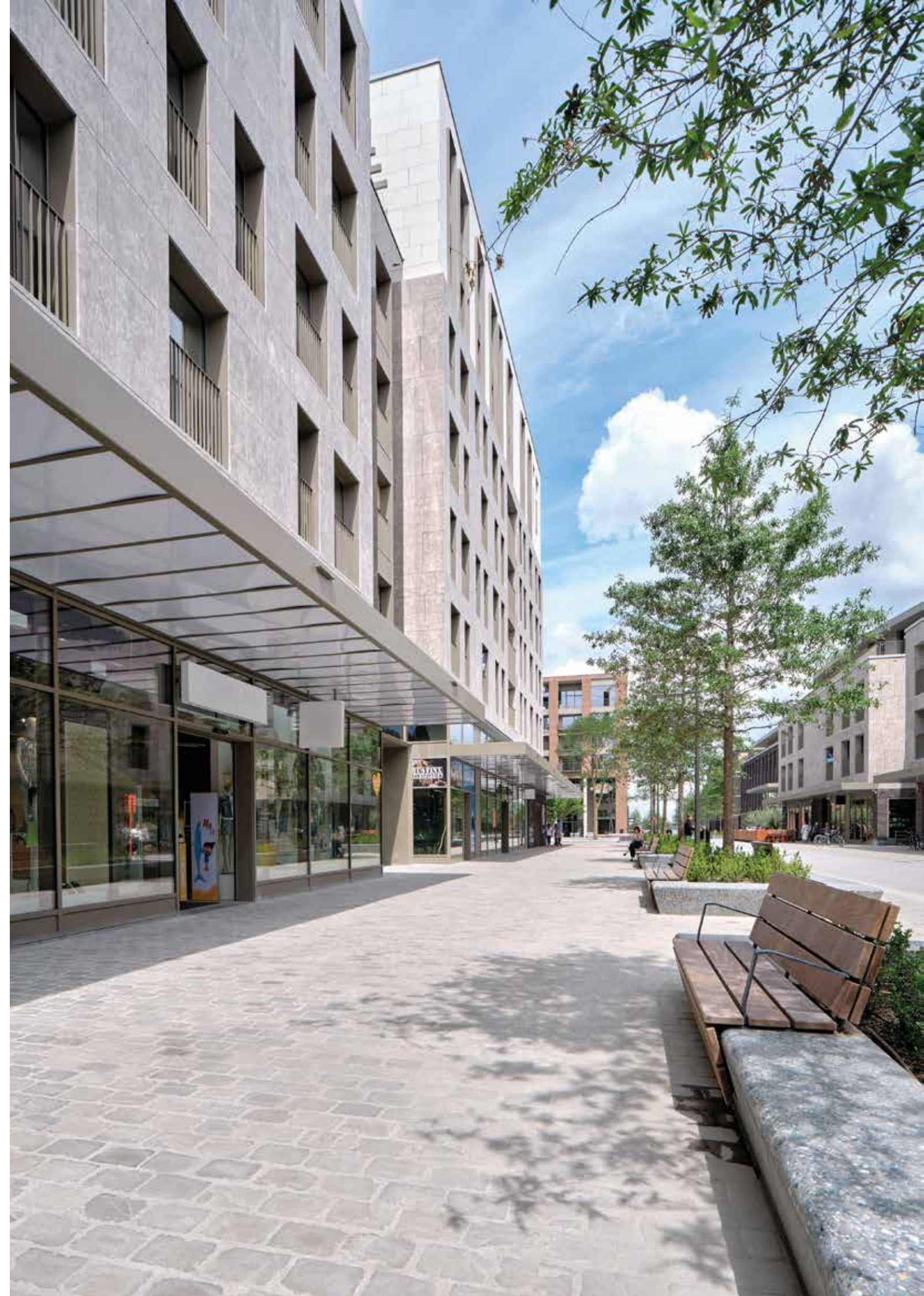
BREEAM certification can improve the overall value of a building due to its increased marketability because of improved sustainability and energy reduction.



Reduced operating costs through improved energy and water efficiency.

## Is BREEAM mandatory?

BREEAM is not mandatory for all buildings in the UK, however, it is often required for certain developments, especially large commercial or public buildings. Certain funders, clients or stakeholders may request BREEAM certification as a condition of their involvement in a project. For example, the UK government has requested BREEAM certification for its own buildings and for those for which they have provided significant funding.





# Categories for BREEAM Certification



Management

BRE encourages developers to adopt sustainable management practices throughout a building's life cycle, including **design, construction, and aftercare**. This helps to ensure that builders follow the sustainability goals they set in advance and guarantees these goals will remain in place during the operation of the building.



Energy

Evaluation of the efforts to enhance a building's energy efficiency and reduce the building's carbon emissions will be at the forefront for BREEAM certification. Developers must implement solutions that promote the sustainable use of energy throughout a building's life span. This can be achieved by **optimising HVAC equipment for energy efficiency and low carbon footprint** whilst also considering lighting and appliances carefully with regard to energy consumption.



Health & Wellbeing

BRE recognises that a building's overall design can affect the health, wellbeing, and comfort of occupants and builders are encouraged to develop measures that will ensure a positive impact. This can include things such as the amount of natural light available within the buildings, access to outdoor spaces, **indoor air quality, thermal comfort, and acoustics**.



Pollution

The objective is to measure and evaluate efforts to prevent and control pollution, including light and **noise pollution**, flooding, water, and air emissions. Reducing pollution can be achieved through measures such as **air filtration systems**, low-emission vehicles and monitoring **indoor air quality**.



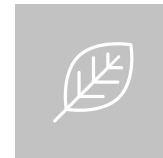
Waste

The waste category focuses on sustainable management and possible reuse of a building's construction and operation waste. It encourages developers to implement measures to help reduce the amount of waste materials that are directly produced from the building. Our systems are designed to be **easily adaptable, upgradable, and refurbishable** to meet future building demands.



Water

The objective is to assess various measures that promote sustainable land use and protection, with the main core of the objective being active consideration of the surrounding land and the biodiversity of the main site. To obtain a high rating under this category, builders are encouraged to develop a biodiversity management system as well as procedures to improve local ecology. Incorporating more green spaces, wildlife habitats and green roofs.



Land Use & Ecology

The objective is to assess various measures that promote sustainable land use and protection, with the main core of the objective being active consideration of the surrounding land and the biodiversity of the main site. To obtain a high rating under this category, builders are encouraged to develop a biodiversity management system as well as procedures to improve local ecology. Incorporating more green spaces, wildlife habitats and green roofs.



Materials

The materials category is concerned with the materials used for the design, construction, maintenance, and repair of a building and all its associated equipment. It encourages builders to utilise materials sourced responsibly and have a low embodied carbon impact throughout their life cycle.



Transport

The transport category emphasises the importance of a building's occupants having access to sustainable methods of transport.



Innovation

The innovation category provides builders with the opportunity to demonstrate exemplary performance and innovation in areas that go beyond the requirements of a specific credit area. I.e. integrating innovative products and processes.

# Achieve up to 52 credits with Daikin Applied AHUs

Despite a benchmark being set for each category granting certification, there are multiple levels of certification that can be obtained.

Integration of Daikin technologies will contribute to the overall sustainability level of the building and enable you to reach a **BREAAAM Excellent or Outstanding score**. Our knowledge and portfolio of products will help you to achieve your **BREAAAM objectives while staying within budget**.

| BREAAAM rating |           | % score |
|----------------|-----------|---------|
| Outstanding    | ★ ★ ★ ★ ★ | ≥85     |
| Excellent      | ☆ ★ ★ ★ ★ | ≥70     |
| Very good      | ☆ ☆ ★ ★ ★ | ≥55     |
| Good           | ☆ ☆ ☆ ★ ★ | ≥45     |
| Pass           | ☆ ☆ ☆ ☆ ★ | ≥30     |
| Unclassified   | ☆ ☆ ☆ ☆ ☆ | <30     |



## Management

- Man01: Project brief & design – 4 credits available
- Man02: Life cycle cost & service life plan – 4 credits available
- Man04: Commissioning & handover – 4 credits available
- Man05: Aftercare – 3 credits available



## Energy

- Ene01: Reduction of energy use & CO2 – up to 15 credits
- Ene04: Low carbon design – 3 credits available.
- Ene08: Energy efficiency equipment - 2 credits available.



## Health & Wellbeing

- Hea02: Indoor air quality – 5 credits available
- Hea04: Thermal comfort – 3 credits available
- Hea05: Acoustic performance – 4 credits available
- Man05: Aftercare – 3 credits available



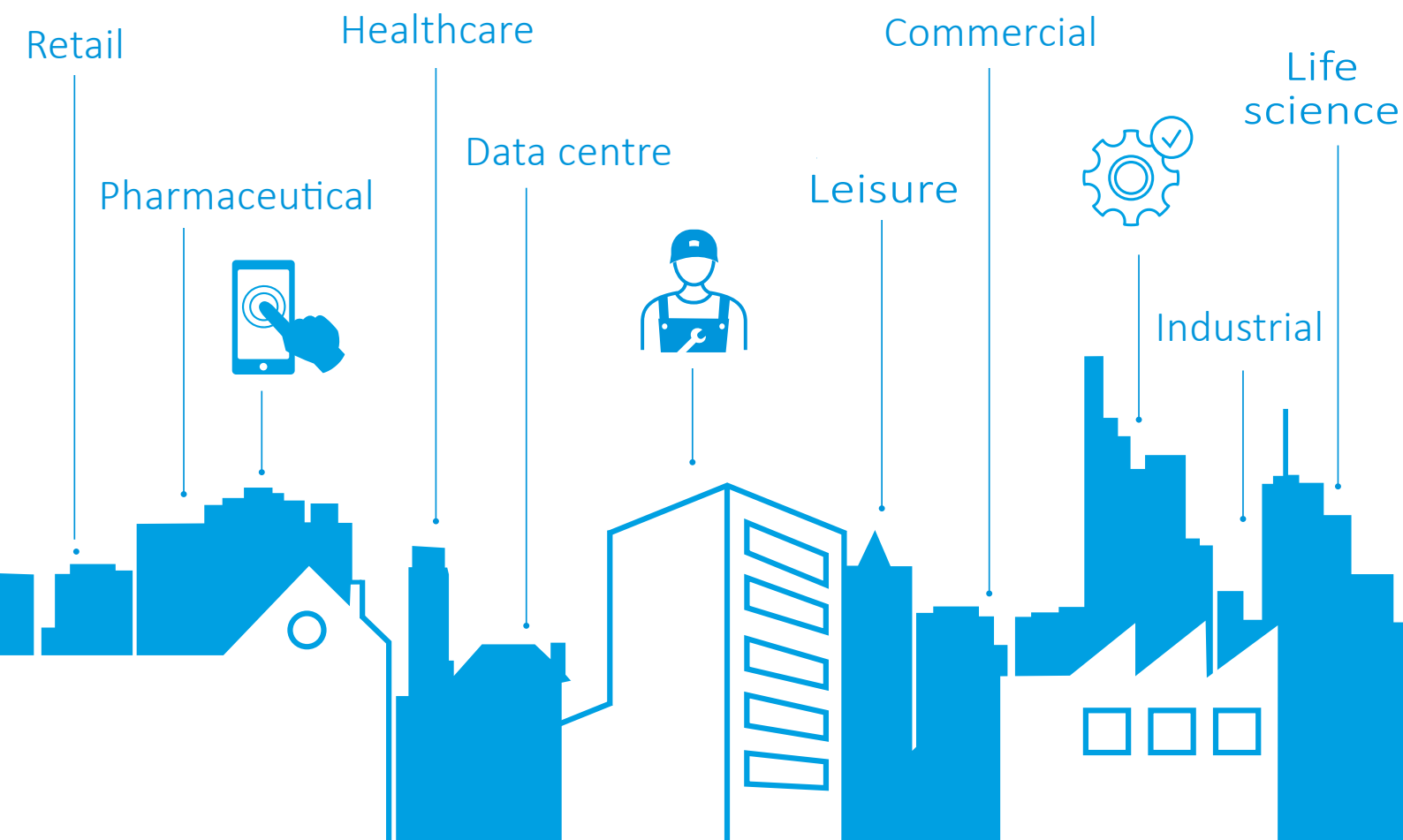
## Pollution

- Pol01: Impact of refrigerants – 3 credits available
- Pol05: Noise attenuation – 1 credit available



## Waste

- Wst06: Functional adaptability – 1 credit available.



For more information email [info@daikinapplied.uk](mailto:info@daikinapplied.uk) or visit [www.daikinapplied.uk](http://www.daikinapplied.uk)

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