



Low Energy Fan Coil Unit

2kW - Discrete, slim-line, efficient heating and cooling

With construction costs rising and space to develop decreasing, there is considerable pressure upon system installation, running costs and space claim.

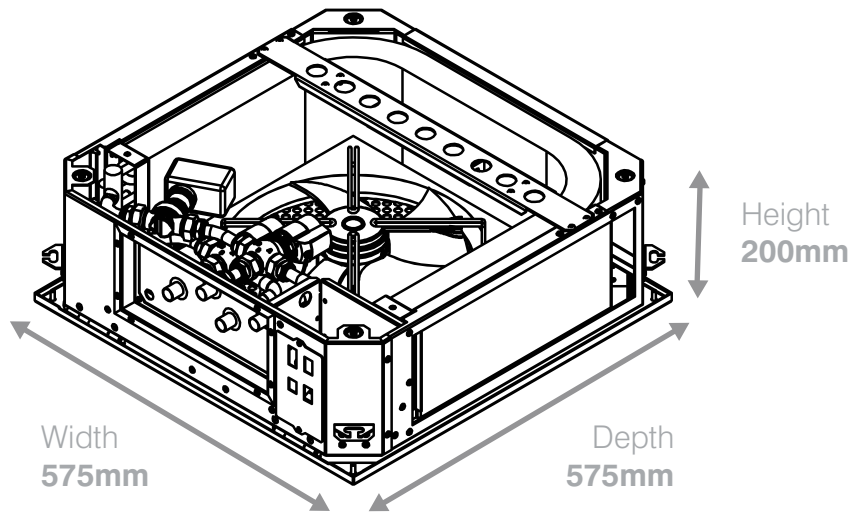
The Airedale low energy fan coil unit (LEFCU) combats this; delivering a system which is up to 150% thinner than when using a traditional fan coil unit.

Designed to heat or cool, and with no system ductwork, the LEFCU is economical to install. Energy efficient and with quiet operation to NR35 at design fan speed, the LEFCU is ideal for residential and commercial based environments. It excels in applications such as offices, retail, leisure, apartments and hotels where spaces are small and ease of installation is paramount.



A versatile, flexible solution, the LEFCU allows ease of access to all major components for maintenance. By way of reduced fan power input, the LEFCU reduces monthly operating costs. Minimised unit depth also presents a huge benefit to building developers and architects, allowing structures to be designed with a smaller storey height, reducing the cost of construction and maximising lettable / sellable areas.

Unit dimensions (mm)



What the low energy fan coil offers



Reduced ceiling void depths – 200mm (H) x 575mm (W) X 575mm (D) compact footprint enables a ceiling void depth 20% thinner than when using cassette units, and 150% thinner than when using fan coil units or active chilled beams. In new-build applications this means developers can realise 13 storeys in a typical 12 storey envelope. And no more headaches in refurbishment projects where ceiling heights are constrained



Hassle-free maintenance – a drop-down fan plate with locking mechanism provides access to the fan, fan controls, condensate pump, valves and filters directly through the unit. This allows for quick and simple maintenance, without the need to drop out ceiling tiles or provide access panels in plasterboard ceilings



Technical versatility – available with cooling and heating capacities from 1.9kW to 2.4kW, the low energy fan coil unit is the ideal solution for office, residential, leisure and retail applications, as either an exposed element, or integrated into a ceiling. Unlike chilled beams the product can operate in both naturally ventilated and mixed mode buildings



Exacting control – two-port control valves and PI controllers allow complete control and the potential for unit networking. Optional motion sensors can adjust temperature and airflow automatically according to activity



A uniform, clean and comfortable climate – temperature sensors closely monitor supply and return air, delivering a stable thermal environment. Custom developed G2 filtration cleans the air, and a bespoke flow grid delivers minimal air turbulence and uniform airflow in a similar pattern to a 'swirl diffuser'. This eliminates draughts associated with cassette units



Fast, simple installation – unlike most fan coil units, the system requires no secondary ductwork and all ancillary items like valves and condensate pump come included, resulting in a 'plug-and-play' solution. This speeds up installation and commissioning, and reduces costs



Quiet operation – next generation fans and body insulation provide a low-noise system, perfect for achieving stringent acoustic targets in office or residential applications



Clean, customisable aesthetics – An ergonomically designed body and choice of fascia plates allows for discrete, design-led aesthetics