



**Ability**

*Part of  
Glen Dimplex  
Heating & Ventilation*

# Why choose fan coil refurbishment over replacement?

---



**Fan coil units (FCUs), as with every system, may lose efficiency and break down over time. There is no doubt, that in some situations the replacement of a FCU is the best option.**

However, there are also many instances where refurbishment may be the more viable solution.

This can offer multiple benefits for you and your project, including improved energy efficiency, minimised disruption, and of course, costs savings.





# Meeting the Minimum Energy Efficient Standard

**As environmental targets begin to demand stricter regulations, there will be increasing rules and mandatory actions applied to existing commercial developments.**

For example, since 1st April 2018, commercial properties must comply with the Minimum Energy Efficient Standard. In commercial applications, this means that landlords cannot grant a new or renewal of tenancy if the property has an EPC rating of F or G.

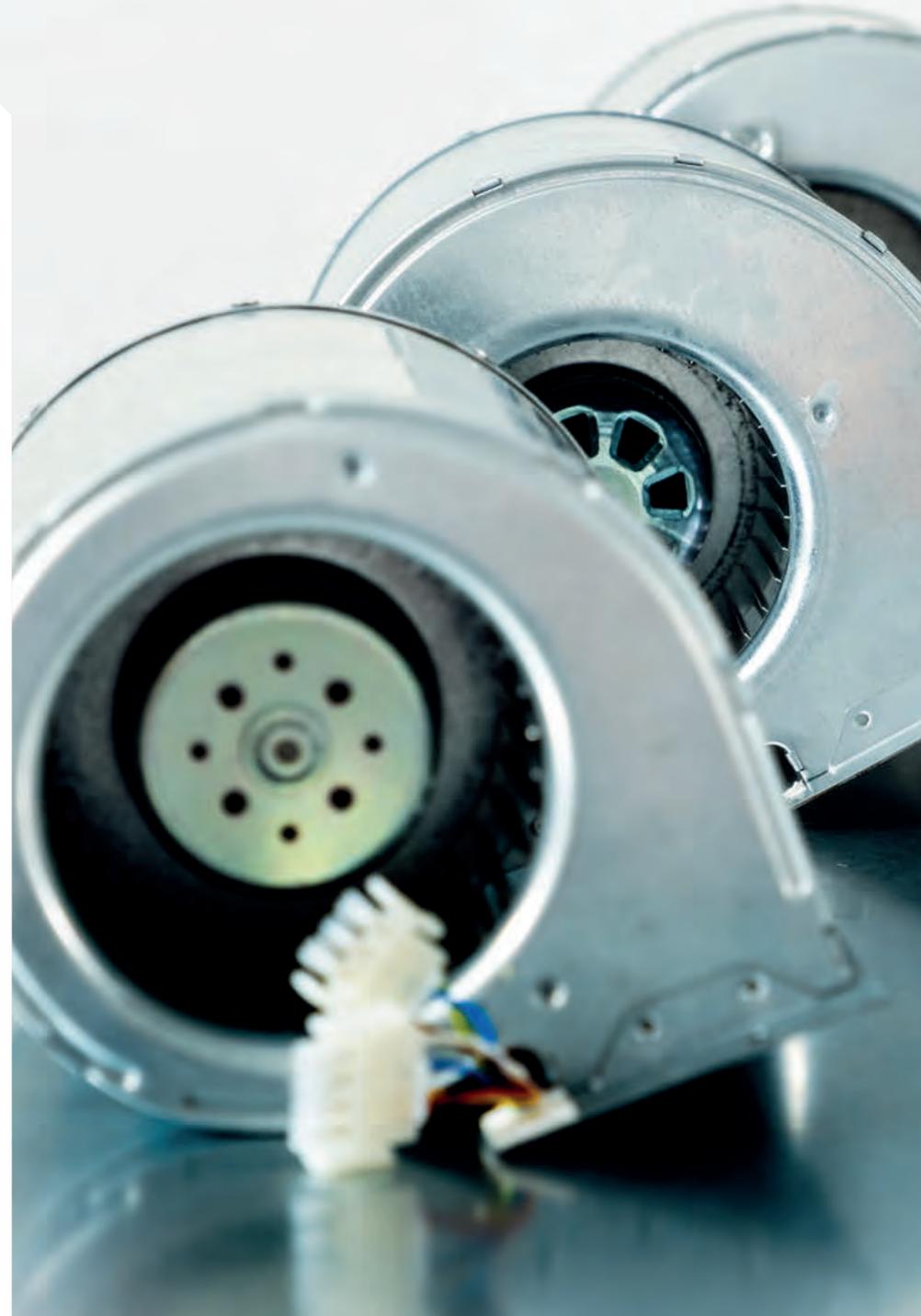
It also recommends that landlords incorporate drafting into the service charges, expressly allowing energy-efficiency improvements in the future.



## Top Tip 1

**Choose the most cost-effective solution,  
for short and long-term requirements.**

With regards to FCUs, refurbishment can often be a viable solution for helping to improve EPC ratings and maintaining existing equipment with component upgrades for continued performance.

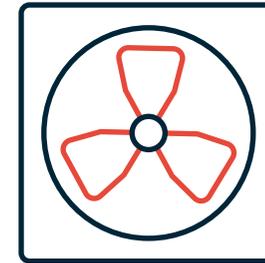




# Upgrading inefficient components

**An instance of where regulations have had an impact on heating and cooling systems is the phasing out of AC fans. Most existing pre-2005 fan coils use AC fans, which have minimal speed control, and are now being phased out due to EU legislation. As such, they will cease to be available, even on a spares basis in the not-so-distant future.**

So, when the AC fan begins to impact the whole fan coil system, upgrading with a new EC/DC version can be a more cost-effective solution to replacing the whole unit.



## Top Tip 2

**Changing to EC/DC fans can offer at least a 50% reduction in running costs when compared to the old AC alternative, with improved speed control and quieter running operation.**

EC fan motors also have a lesser effect on the fan coil output due to their cooler operation with respect to their AC alternative.



# Minimising disruption to your business and the occupants

**The refurbishment option provides many attractive options to buildings wishing to remain operational, as it's far less intrusive and less time-consuming than the replacement option.**

This is because work can often be completed with minimal disruption to the surrounding areas and can even be completed out of hours, meaning that the occupants are often unaware that the system has been upgraded.

This approach can prevent any detrimental impact to businesses, while still unlocking the extensive benefits of a modern system. Additionally, by replacing components rather than complete units, there is rarely any need to remove large sections of ceiling.

10+

## Top Tip 3

**Refurbishing an existing FCU can result in up to a 10-15 year extended lifespan of the unit, whilst employing the benefits of new technologies.**

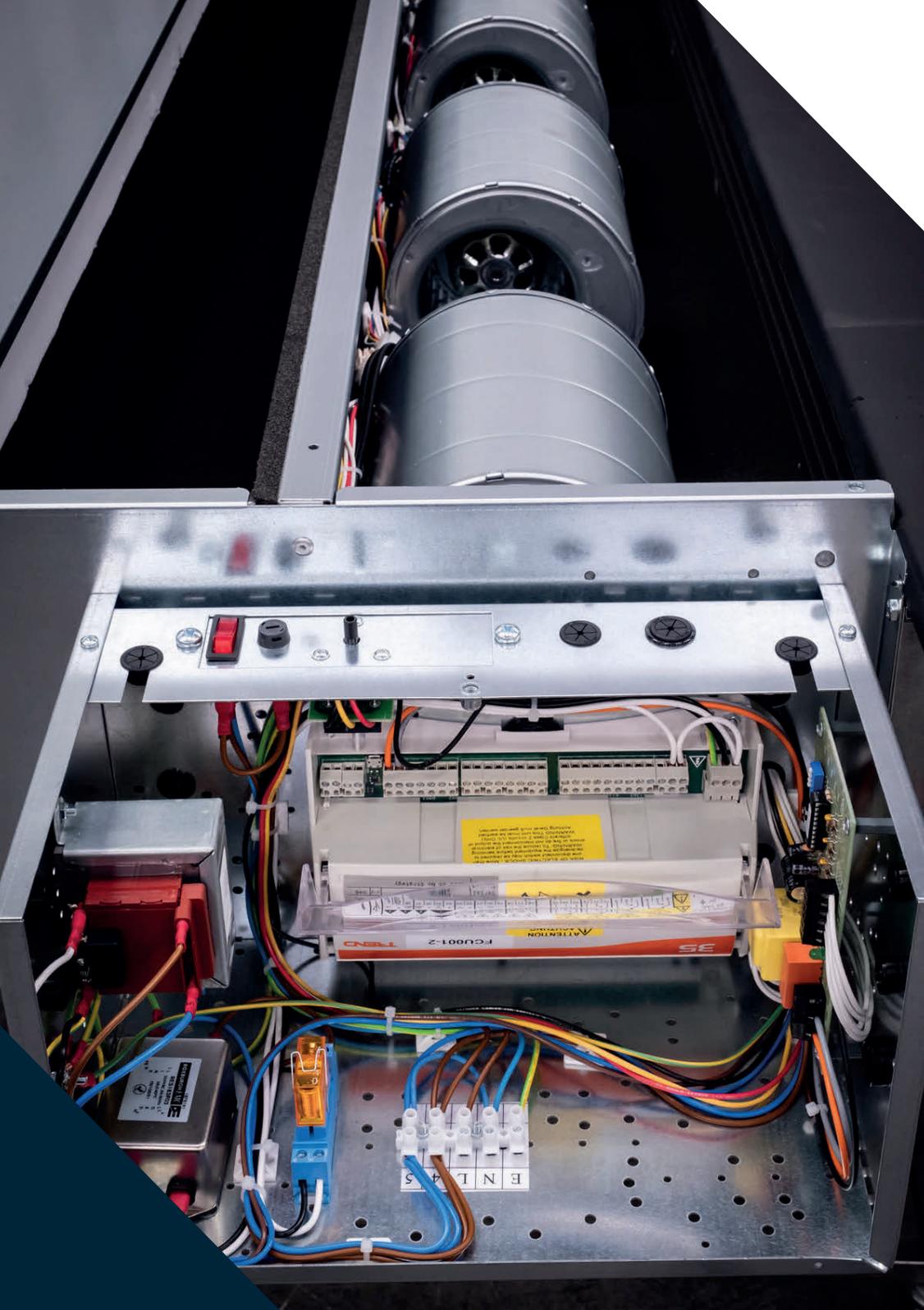




# Cutting costs both now and in future

**Refurbishment can offer considerable cost savings over a replacement alternative and, where this results in lower operational costs, allows you to save year on year and as electricity prices increase the saving increases proportionally. When choosing refurbishment, it is often only a few components that need to be replaced to provide significant benefit to the original unit's performance, gaining energy benefits for a lower overall installation cost.**

There is also the added benefit of savings to on-site labour and construction costs, as it is often quicker to refurbish than it is to replace an existing FCU. There is also a reduction in waste material, and further carbon and cost reductions associated with not needing to manufacture and transport completely new units to site. By upgrading overall unit performance, the energy efficiency of the FCU is increased, which also improves OPEX.



## Top Tip 4

**Providing that the water system is clean and fully functioning, and the coil is free from damage or degradation, there is typically no need to disconnect the FCU (where the controls aren't being changed) - meaning no need to drain down the LPHW or CHW circuits.**

The benefits this offers are huge when considering the savings to water treatment, installation and re-commissioning.

# Choose Ability

**We are a market-leading FCU manufacturer, who understand how to create, replace and refurbish water side FCUs. Pulling from our innovative product development, we offer a high level of service and the most up-to-date refurbishment options to our customers - including advanced controls and strategies.**

By completing a site survey, we are able to offer you advice on the best solution to meet your needs. This includes when refurbishment can be a more cost-effective option than replacement and where component upgrades or unit maintenance can result in increased system performance.

---

We are also able to offer these services on FCUs no longer in production and from any other manufacturer.

---

To request a site survey or to learn more about refurbishment options, email:  
**[GDHV.contracting@glendimplex.com](mailto:GDHV.contracting@glendimplex.com)**



**Ability**

Part of  
Glen Dimplex  
Heating & Ventilation