

ENGINEERING
TOMORROW



Case story | VLT® HVAC Drive FC 102

Danfoss Drives **controls** the **temperature** at **COP26**

Buildings generate 40% of global emissions today – by equipping them with **energy efficient HVAC technologies** we can reduce energy consumption by this amount.

20% reduction in fan speed can reduce energy consumption by about

50%



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01-12 NOV 2021

GLASGOW

COP26





From left: Alan Baird, Country Manager, Danfoss Drives, UK & Ireland and Ryan Gibson, Field Service Supervisor, Honeywell Building Solutions

GLASGOW: From October 31st to November 12th, 2021, the world will be watching the Scottish Event Campus (SEC) in Glasgow, UK, where delegates from almost 200 countries will carry out some of the most important discussions about the future of our planet and take firm steps for ramping up global climate action during the Conference of the Parties, the United Nations' annual conference on climate change (COP26).

Danfoss Drives and Honeywell are proudly working together to create a healthier and more productive environment at the SEC during the conference and every day. Importantly, they improve the building environment while significantly contributing to the energy saving goals, thanks to the innovative technologies implemented at the venue.

Indoor air quality at best standards

For more than 20 years, Danfoss and Honeywell have worked with the SEC to deliver Building Management & Energy Efficiency Systems. The COVID-19 pandemic significantly changed

the way buildings operate, with a greater-than-ever emphasis on the air quality in indoor spaces.

During the COP26 conference, these heating, ventilation and air-conditioning (HVAC) systems will help provide healthier indoor air quality, emphasizing filtration, temperature and humidity in the conference venues to maximize the attendees' comfort and productivity.

AC drives from Danfoss, which play a key role by efficiently circulating fresh air and pushing the used air outside again, can help provide a cleaner indoor environment. Danfoss AC drives communicate with the Honeywell

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building management system (BMS) to intelligently match fan speed to the actual load for optimal system energy efficiency. Just 20% reduction in fan speed can result in approximately 50% reduction in energy consumption.

Additionally, Honeywell Forge, Honeywell's enterprise performance management solution, recently implemented at the SEC, provides near real-time analytics and visibility into the energy, space, and comfort performance across the facilities. The software-as-a-service (SaaS) solution helps drive energy efficiency without sacrificing occupant comfort which can translate into significant cost savings and lower CO₂ emissions.



Danfoss proudly supports COP26

Danfoss will be present at some of the supporting events and discussions during COP26 to help highlight the importance of energy efficiency and show decision makers how much can be done with existing building solutions.

The Scottish Event Campus includes The OVO Hydro, SEC Armadillo and SEC Centre. It is the largest exhibition and event campus in Scotland.

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Energy efficient technologies should contribute with about 40%

"The International Energy Agency estimates that energy efficient technologies will have to contribute with about 40 percent of the energy-related emission reductions needed to reach UN's climate goals.

Variable speed AC drives are a perfect example of how Danfoss' technologies can help in achieving the goal", says Alan Baird.

Facts about the VLT® HVAC Drive FC 102

- The VLT® HVAC Drive FC 102 is a dedicated drive that combines flexibility and efficiency designed to minimize total system and lifecycle costs in HVAC applications.
- The VLT® HVAC Drive delivers superior energy savings using a unique combination of strategies which include intelligent control algorithms, heat management, and harmonic mitigation.

Facts about Honeywell

- Honeywell Building Technologies (HBT) is a leading building controls company with operations in more than 75 countries.
- Honeywell's hardware, software and analytics are used in more than 10 million buildings worldwide.
- Their solutions help to create safe, efficient and productive facilities worldwide.