

Inverter Drives

SCS Group are a distributor and approved drives system partner for Danfoss, we are able to provide the Danfoss VLT® HVAC Drive which is dedicated to ventilation, heating, and refrigeration applications. With a wide range of powerful standard and optional features, the VLT® HVAC Drive provides the lowest overall cost of ownership.



General Specification

The VLT® HVAC Drive is available in a range of versions, from a basic serial communication and I/O configuration capable right up to a fully equipped and personalized drive, including all relevant HVAC I/O points and protocols.

The VLT® HVAC Drive is built on Danfoss Drives, new generation modular concept. Real plug and-play adding and exchanging of options, just upgrade instead of buying a new drive. The unique cooling system prevents dusty and aggressive ambient airflow to damaging the drive electronics, this extends the drive's lifetime.

The robust VLT® HVAC Drive is designed to work at maximum output in an ambient temperature up to 50° C. The drive's modular structure makes it suitable for "slave" operation mastered by BMS, PLC's or DDCs.

Operators, equipment and control systems all communicate effortlessly with the VLT® HVAC Drive. It is fluent in all common BMS network protocols and displays every alphabet, also 27 languages, including English, German, Mandarin and Cantonese are available.

Perfect comfort levels and major energy savings can be achieved in any building by harnessing the VLT® HVAC Drive to your applications. Hotels, hospitals, airports, casinos, cleanrooms, sports facilities, concert halls, commercial buildings and residential buildings.

Product Data

Drive type	FC100
200-240 V	1.1 kW - 45 kW
380-480 V	1.1 kW-1000kW
525-600 V	1.1 kW - 90 kW
525-690 V	45 kW - 1,2 MW

Enclosures

- IP20/chassis
- IP21/NEMA 1
- IP55/NEMA 12
- IP66/NEMA 4X



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Accessories

Dedicated HVAC features Auto tuning of the PI controllers

With auto tuning of the PI controllers, the drive monitors how the system reacts on corrections made by the drive - and learns from it, so that precise and stable operation is achieved quickly.

Automatic Energy Optimization

The standard feature AEO provides optimized motor magnetization at all speeds and loads. This increases energy efficiency by 5-15% for partial loads.

Energy monitoring

The VLT® HVAC Drive provides a complete range of energy consumption information, which helps identify low-efficiency components in the HVAC system.

Fire Override Mode

In Fire Override Mode, the VLT® HVAC Drive will not react to control signals, warnings or alarms. It will continue reliable operation as long as possible and run until it is eventually destroyed itself to ensure that fire escapes remain free of smoke.

Serial Communication Options

Profibus Option Card (MCA-101), DeviceNet Option Card (MCA-104), BALnet (MCA-109), Lonworks (MCA-108).