



Dedicated compressor features

The new VLT® HVAC Drive from Danfoss has been designed to offer flexible, intelligent control of scroll, screw and centrifugal compressors, making it even easier to optimize cooling capacity with constant temperature and pressure levels for water chillers, typical compressor applications in HVAC.

Set point in temperature

The VLT® HVAC Drive calculate the actual room temperature from the pressure in the cooling media and refine compressor operation accordingly - without the need for additional software, sensors or controllers.

The calculation goes for the set point too, so the desired temperature is set via the Local Control Panel - and not a pressure value.

Replace a cascade with a single compressor

The VLT® HVAC Drive provides the same level of flexibility with one large compressor instead of a cascade of 2-3 smaller compressors.

As the HVAC Drive operate all compressors at a far more refined range of speeds than normally – even above nominal speed - one large compressor is now enough.

Fewer starts and stops

A maximum number of start/stop cycles within a given period of time can be set via the Local Control Panel. Since start-up is the most critical part of compressor operation (all parts of the unit are under mechanical stress before the system is sufficiently lubricated) this extends the compressor lifetime.

Quick start-up

To extend the life even further, the VLT® HVAC Drive opens a bypass valve and let the compressor start quickly without load.

The VLT® HVAC Drive provides 160% break away torque and can give 110% torque for 60 seconds in normal operation. This torque demand would normally require larger and more expensive drives.