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Danfoss Climate Solutions for Cooling



TECH INSIDER

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Introduction

Danfoss Tech Insider keeps you up to date with the latest developments in the Cooling and Industrial Products portfolios from Danfoss Climate Solutions. Each edition offers a quick overview of key technical updates and product news, with direct links to relevant documentation and further details. Published monthly, Tech Insider ensures you're always informed about the latest innovations and changes across our products and solutions.

We hope you enjoy reading Danfoss Tech Insider and find it both useful and inspiring!

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Not all products/variants are available in all countries.

Please contact your local sales company for further info and product availability.

New Superheat Controller Kit EKE 100 1VK

We are excited to announce the launch of our new superheat controller kit EKE 100 1VK, designed to bring convenience and efficiency to your **cold room applications**. This innovative solution simplifies the ordering and stocking processes, improves installation ease, and ensures fast and reliable performance.

Product overview

The superheat controller kit includes the following components:

1. EKE 100 1V Superheat controller & valve driver with integrated display
2. DST P110 Pressure transmitter and cable
3. AKS 11 Temperature sensor
4. Bipolar coil for ETS 5M



Customers can also purchase an **ETS 5M valve** to complement the kit, depending on capacity needs. This comprehensive package is ideal for applications in air conditioning, commercial refrigeration, and food retail, providing precise superheat control and effectively regulating superheat to the lowest possible level in a short timeframe.

Benefits

- Simplified ordering and stocking
- Ease of installation with no missing parts
- Fast and reliable performance
- Energy consumption reduction, even amidst load variations

Ordering & availability

The superheat controller kit is now available for sales.

Code number for ordering: SH Controller Kit EKE 100 1VK: [080G9100](#)

More information

For detailed product information:

- [Danfoss product store](#)
- [Superheat controller Kit data sheet](#)
- [Superheat controller Kit flyer](#)

Optyma™ Plus P00 – new NTZ A2L models for extended low-temperature applications

As part of our product range offering improvement, we are pleased to inform you that below aforementioned condensing units are all validated as standard with A2L refrigerants (factory setting). **New model OP-LPVM096NTP00E** has been launched to re-enforce the cooling capacity range product availability.



CU Code no	Model designation	Compressor	Refrigerant qualified	Cooling Capacity
114X3205	OP-LPVM048NTP00E	NTZ048	R404A, R452A, R454C, R455A	0.76
114X3204	OP-LPVM048NTP00G	NTZ048	R404A, R452A, R454C, R455A	0.88
114X3207	OP-LPVM068NTP00E	NTZ068	R404A, R452A, R454C, R455A	1.22
114X3366	OP-LPVM096NTP00E	NTZ096	R404A, R452A, R454C, R455A*	1.53
114X3304	OP-LPKM067LLP02E	LLZ013T4B	R404A, R452A, R454C, R455A, R448A, R449A	2.23
114X3305	OP-LPKM084LLP02E	LLZ015T4B	R404A, R452A, R454C, R455A, R448A, R449A	2.76

* 114X3366 with R455A expected to get validated by Q2-2026

Details

Cooling capacity have been updated inside [catalogue](#) and will be release by week 51 inside CoolSelector. Installers shall ensure that the application envelopes are within the limits mentioned in instruction guideline and Coolselector. All instructions must be followed as provided in the Instruction Manual and user guide.

For enhanced safety, the condensing units are equipped with built-in protections including high pressure, low pressure, and high discharge temperature safeguards refer Instructions and User guide for more detailed information.

More information

For instructions and usage with approved refrigerants, customer shall refer to the literatures available in Danfoss approved channels like [Coolselector](#), [Product store](#) and here below:

- [Optyma Plus instruction manual](#)
- [Optyma controller user guide](#)
- [Optyma Plus user guide](#)

Market release of AK-CC25 Pro BT case controller



AK-CC25 Pro highlights

Bluetooth-enabled AK-CC25 Pro BT – expansion of the new ADAP-KOOL® CC-25 case controller family

New modern design and improved user experience

- White LED display and backlit capacitive touch buttons to only show the relevant UI elements
- Built-in BLE for connectivity with AK-CC Connect mobile app for fast and easy service & commissioning (AK-CC25 Pro BT only)
- New and improved functions in the mobile app: FW update, performance dashboards, Wizard for guided field installation and commissioning (AK-CC25 Pro BT only)

Best-in class application coverage in a single variant

- Support for variable speed compressors, dual circuits, dual compressor
- Full parameter MT/LT switch for optimized performance
- Fully flexible I/O configuration for customized applications

Food safety & energy efficiency

- Robust design for reliable operation with minimum downtime
- VSC enables MTR for optimal temperature in a display cabinet

Improved connectivity and monitoring

- Modbus RS-485 built-in
- Modbus over Wi-Fi via external gateway
- BLE built-in (AK-CC25 Pro BT only)

Availability & ordering

The initial is limited to countries/customers in Europe and Turkey, as we are still working on production capacity ramp-up and regional compliance approvals (e.g. UL). The product store will reflect this.

Description	Code number	Availability in CDC
AK-CC25 Pro, Single pack	084B4022	December 2025
AK-CC25 Pro BT, Single pack	084B4023	01.02.2026
Interface cable AK-CC25 - KoolKey 2.1,	080N0334	December 2025
KoolKey 2.1 (PV04), Single pack	080N0020	December 2025

EKC/AK-CC 2xx Phase out

With the launch of AK-CC25, the phase out process of the existing EKC 202 and AK-CC 2xx controllers has been initiated. Please discuss with your Danfoss sales contact about the transition plan and forecast.

New service cable for EKE 100/110 products

We are pleased to inform you about an important update regarding the service cable of EKE 100 and EKE 110 controllers. To ensure compatibility with the latest KoolKey version PV04, we are introducing a new service cable.

Product details



The existing service cable (080G5058) will be phased out and replaced by the new service cable (080G5067). This change is necessary to maintain seamless communication between EKE 100/110 and KoolProg using KoolKey PV04.

Compability

KoolKey version (EKA 200 080N0020)	Service cable code number	Affected controller
PV03 or lower version	080G5058	EKE 100 and EKE 110
PV04 or higher	080G5067	EKE 100 and EKE 110

Note: All new orders for KoolKey will be delivered with PV04 versions.

Affected controllers

- 080G5050 - Superheat controller and valve driver EKE 100 1V IP00
- 080G5051 - Superheat controller and valve driver EKE 100 1V IP20
- 080G5052 - Superheat controller and valve driver EKE 100 1V IP20 with display
- 080G5055 - Superheat controller and valve driver EKE 100 2V IP00
- 080G5056 - Superheat controller and valve driver EKE 100 2V IP20
- 080G5057 - Superheat controller and valve driver EKE 100 2V IP20 with display
- 080G5066 - Superheat controller and valve driver EKE 100 2V IP20
- 080G5059 - Injection controller EKE 110 1V IP20

Availability & ordering

For all future orders, please ensure that you order the new service cable (080G5067) instead of the previous cable (080G5058). This will guarantee compatibility and functionality when used with EKE 100/110 controllers, KoolKey, and the KoolProg PC tool.

The new service cable will be available for sale starting from week 5 of 2026.

Extension of the minimum frequency range to 20 Hz for HGX24 CO₂ T



We are pleased to announce that the HGX24 CO₂ T compressor series will be equipped with an **extended frequency range** in the future. The minimum operating frequency will be reduced to 20 Hz, matching the existing capabilities of the HGX34 CO₂ T, HGX46 CO₂ T, and HGX56 CO₂ T + LT transcritical CO₂ series.

Benefits for your applications

- Optimized partial load capacity for refrigeration and heat pump applications with high partial load requirements.
- Increased system efficiency through better adaptation to real operating conditions.
- Product line harmonization for simplified system integration and control.



Important note on system design

Please note that reliable oil return must be ensured when operating at low frequencies. The minimum frequency must be selected depending on the application and require careful coordination with the system components. We recommend to make adjustments in close consultation with your system design and control system.

Affected BOCK compressor ranges

- HGX24 CO₂ T (transcritical) / UL-HGX24 CO₂ T (transcritical)
- HGX24 P CO₂ T (with LSPM motors) / UL-HGX24 P CO₂ T (with LSPM motors)
- HGX24e CO₂ LT (subcritical) / UL-HGX24e CO₂ LT (subcritical)

Introduction

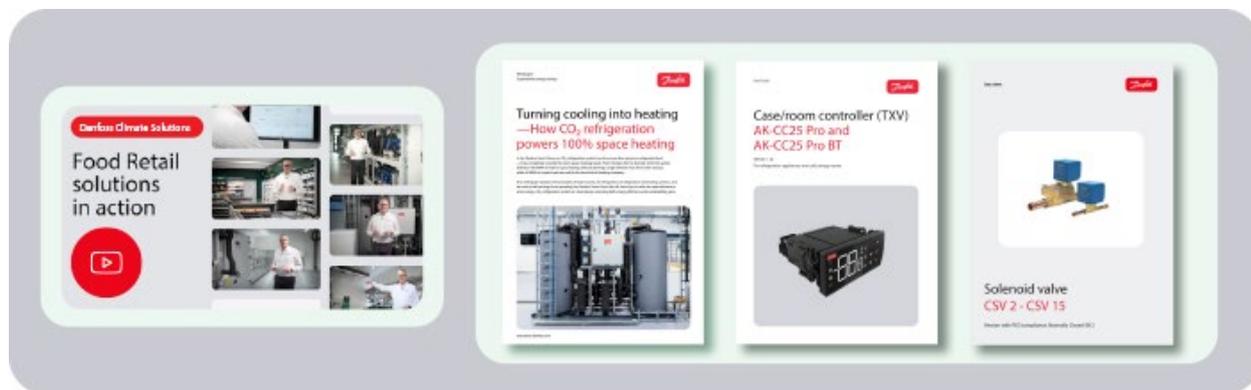
A new design key for compressors is being introduced to indicate the change. Compressors are assigned **design key 085**. The design key can be found on the compressor's nameplate (the least 3 characters of the machine number (No.)).

The minimum frequency of 20 Hz will be available for new compressor from the date of order receipt in calendar week 08/2026 (from February 16, 2026).

More information

- Selection software: BOCK VAP selection software: vap.bock.de
- BOCK Compressor Code Finder: [Compressor Selector | Danfoss](#)
- Product Store: store.danfoss.com

New and updated content



Videos

- [Food Retail Playlist](#)
- [Introducing the AK-CC25 The next generation in refrigerated display case control](#)

Brochures

- [Optyma™ condensing units for Europe](#)
- [Superheat Controller Kit Brochure - EKE 100 1VK](#)
- [Overview brochure: Pack Controllers](#)
- [DST G-series gas sensors brochure](#)
- [DST P070 pressure sensors - the compact and reliable solution for HVAC industry](#)

White paper

- [Turning cooling into heating - How CO2 refrigeration powers 100% space heating](#)

Data sheets

- [Gas sensor DST G300](#)
- [Solenoid valve, EVT](#)
- [Pressure transmitter, DST P070](#)
- [Pressure Switch, KP-E](#)
- [Solenoid valve, CSV 2 - CSV](#)
- [Superheat controller, EKE 315](#)
- [Shut-off ball valve Type GBC M](#)
- [DST G4yf](#)
- [Hermetic receiver filter drier, DMC / DCC](#)
- [Gas detecting sensor, type DGS](#)
- [Motor operated valve, type ICMTS with actuator, type ICAD 600B-TS](#)
- [Gas sensor, DST G4ze](#)
- [Hermetic burn-out filter drier](#)
- [Valve station, ICF 15-65](#)
- [Pressure transmitter, MBS 5100 / MBS 5150](#)
- [Danfoss CDS203 Drive for VZN Compressors](#)
- [EPD for Temperature Switch, Thermostat, RT14](#)
- [EPD for Pressure switch, RT6AES](#)

Product Declaration

User guide

- [Case/room controller \(TXV\), AK-CC25 Pro and AK-CC25 Pro BT \(SW Ver. 1.3x\)](#)

Application guides

- [Optyma™ iCO2 condensing units R744 - 50 Hz 20kW](#)
- [Maneurop® reciprocating compressors MT and MTZ \(IDS\)](#)
- [Scroll compressors PSH052 to PSH105](#)

Contact information – Get in touch with Danfoss

Contact Danfoss Sales office, customer service and technical support

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[Customer service](#)

Get technical support for installing Danfoss cooling solutions

[Cooling installer hub](#)

Get technical support for installing Danfoss sensing solutions

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