TECH INSIDER

Introduction

Danfoss Tech Insider keeps you updated with the latest news on the cooling and industrial products portfolios from Danfoss Climate Solutions. The content is intended to give a quick overview of core technical news and updates in our product portfolio, including links to relevant documentation and more information.
Danfoss Tech Insider is sent out, on a monthly basis, to ensure you are always up to date with the latest innovations and changes made to Danfoss products and solutions.
We hope you will enjoy reading Danfoss Tech Insider!

Table of Contents

Launch of ADAP-KOOL™ System Manager SM 800A Series & Phase Out of Older AK-SM 800 Series

This is an update on the phase out status on the AK-SM 800 family.

Due to a combination of component availability and the AK-SM 800A platform being available worldwide, Danfoss is closing the formal product End-of-Life (EoL) for the AK-SM 800 series.

The production of the AK-SM 800 series is therefore terminated and Danfoss will no longer be able to produce any additional units. Service replacement and stock had been built up in the regions and shall be coordinated locally with the corresponding sales representatives.

AK-SM 800 series that is phased out

Timing

The changes will be effective immediately.

Affected products

Product	Code no.
AK-SM 850 Refrigeration	080Z4001
AK-SM 820 Convenience	080Z4004
AK-SM 810 Wo Display	080Z4006
AK-SM 880 Full	080Z4008
AK-SM 880 TP78	080Z4009
AK-SM 880AL Alarm Logger	080Z4014

Alternative solutions for AK-SM 800

Current AK-SM 800 series		Recommended alternative – AK-SM 800A	
AK-SM 810 System M. Wo Display	080Z4006	Not currently available	n/a
AK-SM 820 System M. Conv.	080Z4004	AK-SM 820 Control RS485-Screen / Conv. store	080Z4024
AK-SM 850 System M. Ref.	080Z4001	AK-SM 850 Control RS485-Screen / Ref. license	080Z4021
AK-SM 880 System M. full	080Z4008	AK-SM 880 Control RS485-Screen / Full store	080Z4028
AK-SM 880 System M. TP78	080Z4009	AK-SM 880 Control TP78 retro-fit screen / Full store	080Z4029
AK-SM 880AL Alarm Logger	080Z4014	Not currently available	n/a

KoolProg Ver 4.9.0.x: Maintenance Release Update

A new version of KoolProg (Ver. 4.9) is now available for download. The new version has several improvements and enhancements.

Key highlights of version 4.9.0.x:
- KoolProg can now support EKC 223/224, AKCC 55 for waterloop.
- Supports EETa and EETc versions with new PV and software version.

Detailed description
1. Support EKE223 and EKC224 Controllers

     KoolProg supports EKC223 and EKC 224 controllers.
    - EKC223: 084B4053, 084B4054 SW version 1.06
    - EKC224: 080B4055, 080B4056 SW version 1.06.

2. AK-CC55 Water Loop Maintenance Support

     Bundled AK-CC55 Water Loop 084B4058, SW version:1.21.

3. Supports EETa and EETc new product version (PV02)

Product	Code No.	Product Version	SW Version
EETc 12	080N0010	PV02	SW version 1.23
EETc 22	080N0011	PV02	SW version 1.23
EETc 11	080N0012	PV02	SW version 1.23
EETc 21	080N0013	PV02	SW version 1.23
EETa 2W	080N0014	PV02	SW version 1.51
EETa 3W	080N0015	PV02	SW version 1.51

4. Implementation of New Modbus Settings Window in Preference Window Screen

     New Modbus settings window has been implemented in preference window for EIM365 controller to establish the connectivity with KoolProg.

5. Improvements

     Performance has been improved significantly in the online service window.

Known limitations to this release:
1. KoolProg sometime doesn't close communication port when MPK device is disconnected from KoolKey. This requires KoolKey disconnection and re-connection to free up communication port.
2. MPK doesn't support Unknown controller file programming as these files cannot be opened in KP.
3. MYK version below 5.01 may not support all KoolProg features for AK-CC 55 controllers.
4. User may get Microsoft defender window while installing Koolprog for the very first time. User must click the button *Run Anyway* to continue with the installation whenever the window pops up.

The new version of KoolProg is now available for download at:
https://www.danfoss.com/en/service-and-support/downloads/dcs/koolprog/#

We hope that you will like the experience of working with this new version of KoolProg. If you have any questions, please reach out to your local Danfoss sales representative.

AK-SM 800A Series, List Price Update on "NO LON" Variants

Danfoss previously announced new variants as part of the ADAP-KOOL™ System Manager 800A series. These variants EXCLUDE the LON module and therefore are designated as "no LON" variants. Due to component scarcity and increased prices on these modules, Danfoss is now able to reduce the list price on variants excluding them.

Global list price update on all NO LON variants

All "no LON" variants belonging to the ADAP-KOOL™ System Manager 800A series listed below will receive a 5 % list price reduction effective June 1st.

Affected products

The below table shows the list of affected products within the System Manager portfolio:

Current Portfolio – Variants without LON Modules:

Product	Code no.
AK-SM 820A	080Z40**44**
AK-SM 820A - no WiFi	080Z40**45**
AK-SM 850A	080Z40**41**
AK-SM 850A - no WiFi	080Z40**42**
AK-SM 880A	080Z40**48**

Products NOT affected

The below table shows the list of affected products within the System Manager portfolio **that are not impacted by the price decrease:**

Product	Code no.
AK-SM 820A	080Z4024
AK-SM 820A - no WiFi	080Z4025
AK-SM 850A	080Z4021
AK-SM 850A - no WiFi	080Z4022
AK-SM 880A	080Z4028
AK-SM 880A - TP78	080Z4029

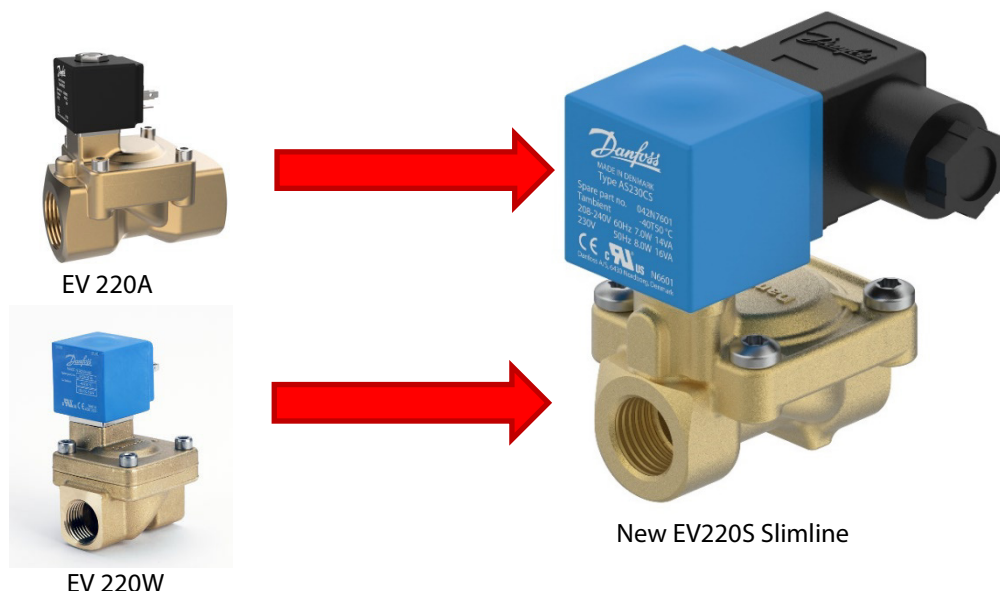**Timing and Stock**

The announced list price reduction of 5 % will take effect on all new orders starting June 1st, 2023.

EV220A and EV220W Compact Range Replaced by EV220S Slimline

From May 1. 2023 Danfoss start to replace EV220A and EV220W by EV220S.
Complete phase out / phase in should be completed by July 1. 2024

EV 220A

EV 220W

New EV220S Slimline

EV220A / EV220W will be replaced as shown below:

		Replace by	
042UXXXX	EV220A…W ………	042U……	EV220S……. *)
042UZZZZ	EV220A…W……	042U……	EV220S……. *)

*) Coil to be used for EV220S	
042N7601	Coil AS230CS 230/208-240V 50/60Hz
042N7608	Coil AS024CS 24V 50/60Hz
042N7616	Coil AZ012DS 12V DC
042N7617	Coil AZ024DS 24V DC

Description

Seal material NBR is replaced by FKM.

In general, similar compatibility to media and same temperature range -10 to 90°C.

EPDM is upgraded to new drinking water approved compound and have same temperature range -30 to 100°C.

EV220S will have the same certification / approvals such as

- WRAS (drinking water approval),
- UL recognition,
- and be CE/EN conform according to Low Voltage, PED and ROHS directives.

Compared to EV220A and EV220W, EV220S size and weight are optimized: less weight and smaller dimensions for easy and compact installation.

As standard EV220S use clip on sealed coils (IP67) for long life in humid environment.

For more information, please contact your local Danfoss sales representative.

EKC 312, 367 and 368 Controllers - Phase Out

The existing EKC 312, EKC 367, and EKC 368 controllers have been phased out due to end of life of critical components.

See affected products below and possible replacement options.

Products to be phased out		Replacement product	
Code number	Description	Code number	Description
084B7250	EKC 312 Superheat controller	080G5300 080G5350 080G5400 080G5360	EKE 1A, 1B, 1C or 1D Superheat controllers
084B7083	EKC 367 Media Temp controller	-	See Note 1
084B7079	EKC 368 Media Temp controller		

Note1:
MCX family can be a replacement product for EKC 367 and EKC 368.
EKF drivers can serve as driver for stepper motor valves (EKF 1A: 080G5030, EKF2A: 080G5035).

For more information, please visit Danfoss Product Store or contact your local Danfoss sales representative.

StoreView Web Release 2.5 Adds Write Capabilities for Danfoss ADAP-KOOL™ System Manager Series

Danfoss is pleased to announce the second major release of StoreView Web, an all-new remote user interface for your ADAP KOOL™ System Manager 800 or 800A. StoreView Web will ultimately replace all existing legacy Software tools, providing a more modern, cohesive, and simplified remote interface experience.

This second release removes the write-restrictions of the first release, allowing you to manage all aspects of your system. StoreView Web will continue to receive regular updates, with the next release in line scheduled to contain the commissioning wizards for the AK-SM 800A system.

Description

Storeview Web (SvW) offers a fresh modern interface, built on modern web-technologies and will be available on browser as of now with more options to follow during the year.

SvW replaces a portfolio of legacy applications and improves on

- Direct integration with the Alsense platform for a seamless and connected user experience, with the option to enable SSO
- SvW is built on modern web technologies
- Multiple deployment options – browser, desktop or mobile
- Single sign-on and role-based access for easy and secure authentication when used in combination with Alsense
- Constant evolution of features & enhancements, based on customer feedback & usage analytics.
- StoreView Web supports all AK-SM 800A and AK-SM 800 variants
- SvW requires connectivity to your System Manager and browser access to the following web address: **svw.danfoss.com**

Roadmap

This release will be gradually extended with new features over the coming weeks, with the goal of fully replacing the features of SvB5. In coming releases, a desktop version and a mobile application will be added to the solution.

The following features are available and included within this release:
- Dashboard
- Alarm Management
- Equipment
- Schedules
- History
- Reports
- Graphic Editor for remote UI
    - Note that graphics will be saved in the cloud in the browser version of SvW
- Configuration
- System
    - Software Management
        - OS Update
        - FW Update
        - FW Rollback
        - EDF Update
        - Diagnostics
    - Database Management
        - Database Import
        - Database Export

More information

More information and news about the current and future updates on Storeview web can be found on
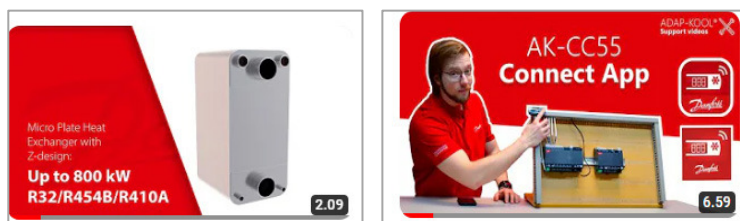**Danfoss.com.**
Training via Danfoss Learning will be added soon.

Videos on YouTube and Infograms

- Video: How to set up the AK-CC55 Connect App - **LINK**
- Video: MPHE Z-design range of Micro Plate Heat Exchangers - **LINK**
- Infogram: A one-stop-shop for building click and collect grocery lockers **- LINK**
- Infogram: Easy and fast selection, installation, and service of cooling solutions for small convenience and food stores **- LINK**

Details for Additional Information

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