

ENGINEERING
TOMORROW



October 2022 | Danfoss Climate Solutions for cooling

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!

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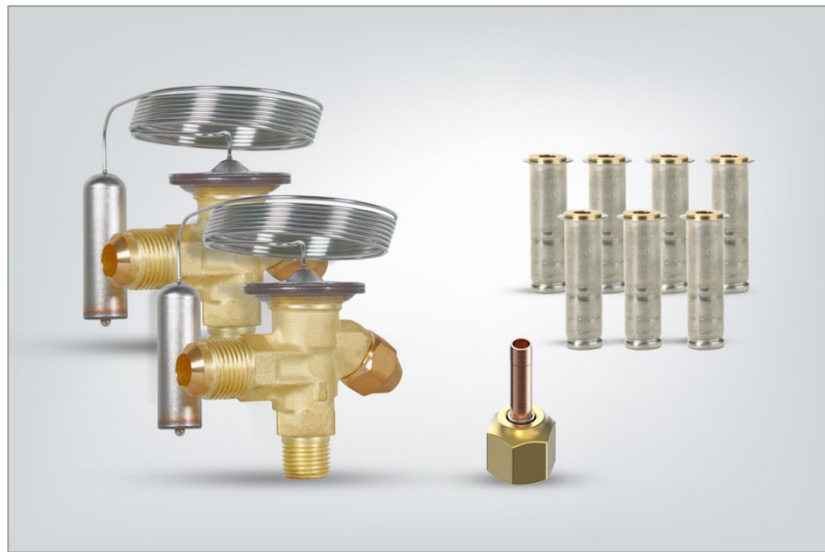
Introducing the First Thermostatic Expansion Valve for CO₂ on the Market

Danfoss is now releasing TE2 for R744, the first thermostatic expansion valve for CO₂.

This new valve is based on the well-known TE2 valve. The valve is suitable for small to medium size remote refrigeration systems such as cold rooms and display cabinets as used in convenience stores, restaurants, and small supermarkets.

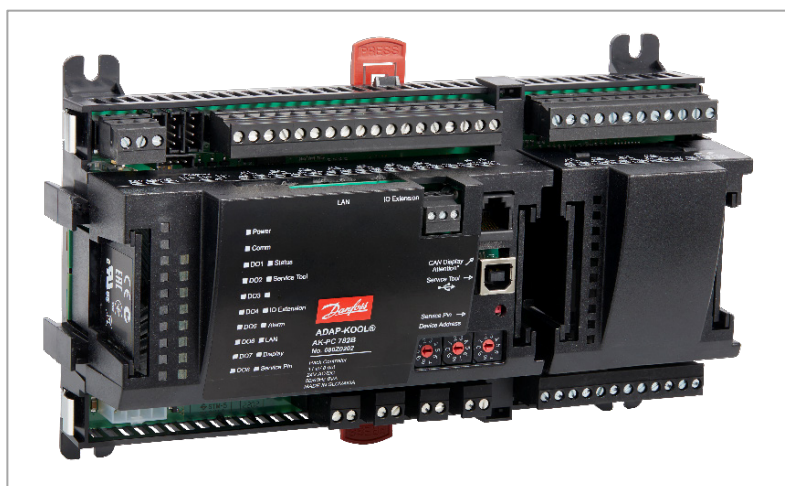
The new features and functions in the update are:

- Wide temperature range
- Fast and easy to install
- Stainless steel capillary tube and bulb
- Interchangeable orifices assembly
- Long service life and easy maintenance



Find more information about TE2 on Danfoss website [here](#).

AK-PC 782B Pack Controller – Release of a New Product Version with Communication Over IP Towards System Manager AK-SM 800A Series



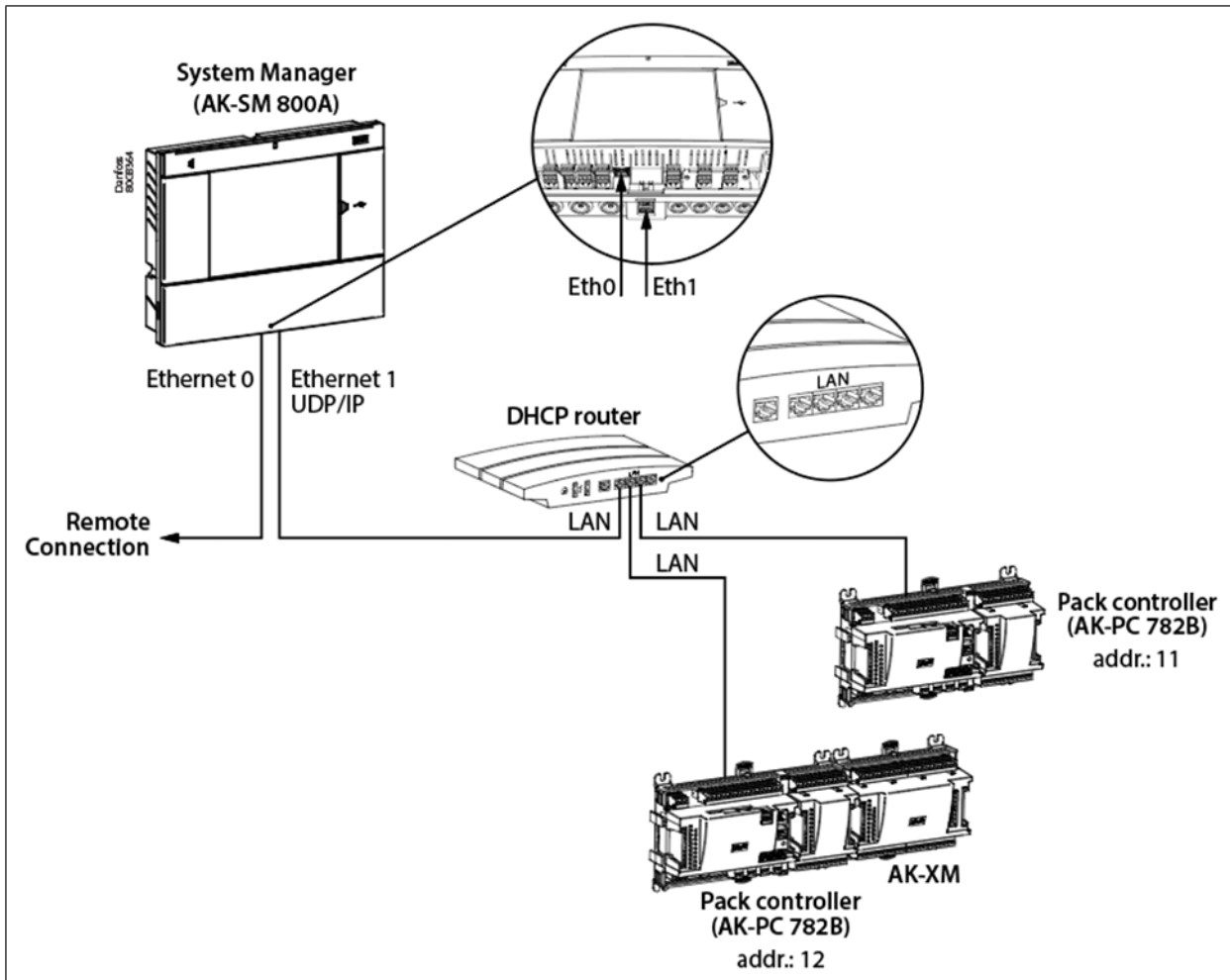
A new product version of the AK-PC 782A named as AK-PC 782B is now available, with the intention to support communication over IP towards AK-SM 800A series and overcome component scarcity of the LON chip for the existing AK-PC 782A.

AK-PC 782B with SW Ver. 3.6 code number **080Z0202** presents the same features and functionalities of the existing AK-PC 782A with SW Ver. 3.5 code number 080Z0192, with the only difference of having communication over IP towards AK-SM 800A series.

The AK-PC 782B is compatible with SW Ver. 3.6 and onwards.

Caution: this device is NOT compatible for use with software releases prior to version 3.6. Incorrect software download can permanently damage the device.

You should expect to have to set up a new network configuration for communication between the AK-PC 782B and the AK-SM 800A System Manager series as per below drawing. In the network configuration there will be the need to use a DHCP router for Pack IP addressing.



The new AK-PC 782B will be available in stock for sale from wk.42

If you have any questions regarding this information, please contact your local Danfoss representative.

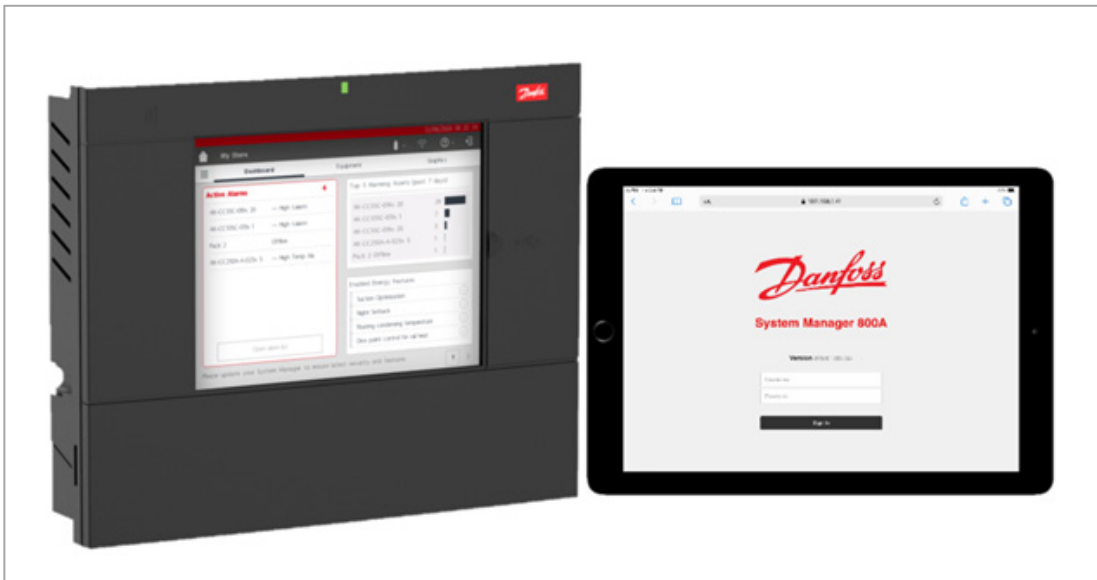
AK-SM 800A Series, Software Release 3.1 with Security Updates!

Danfoss announces a new software release of the ADAP-KOOL™ **System Manager 800A series**.

Software Package 3.1 is now available for download from [ADAP-KOOL support site](#). The software is recommended for all customers and adds new functionality, improves system reliability, security, and performance.

Special note:

For successful installation of package 3.1, a new operating system update (known as Danux 4.1.4.011.193) must be installed first – see software installation section below for more details.



Software Release 3.1 (package ID 3.1.11) details

New feature highlights

- Prepared support for new AK-PC782B IP Pack controller*, utilization of 2nd Ethernet channel
- Software support for new System Manager versions (no LON variants starting October)
- Rack control stability improvement

**The AK-PC782B IP Pack controller is expected to be launched in October 2022*

Defect fixes / update highlights

- Rack control stability improvement
- Remote comm loss fix (rare cases where IP connection is dropped by System Manager)
- Alarm e-mail continually sending out despite being ack by remote e-mail server
- Alarm e-mails not terminating after sending
- Enhanced security updates (Danux and Nginx)

Software installation

Perform a unit backup and check for any open alarms before proceeding with update.

Step 1 – update operating system (Danux 4.1.4.011.193.lpk)

- Using StoreView Browser 5 / StoreView Web select OS update and proceed with Danux upgrade.
- Allow a few minutes to pass with the new OS installed Important notes:

This file size package is large and depending on your network speed may take 10+ minutes to complete.

Do not interrupt power during the OS update.



Step 2 – update System Manager firmware (package 3.1.11.spk)

- Using StoreView Browser 5 / StoreView Web or local USB Flash drive, select OS update and proceed software upgrade.

Do not interrupt power during the software update.

- After installation is complete, review settings and correct system operation.

Affected products

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

Current Portfolio – Variants with LON Modules:

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

New code numbers - Variants without LON Modules:

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

The new variants without LON module are aimed to reduce dependency on these scarce LON modules and to prepare our portfolio to transition towards Ethernet based setups.

Timing and Stock

Release 3.1 and associated Danux is immediately available via the Danfoss [ADAP-KOOL support site](#).

All newly manufactured units will have Package 3.1.11 installed starting October.

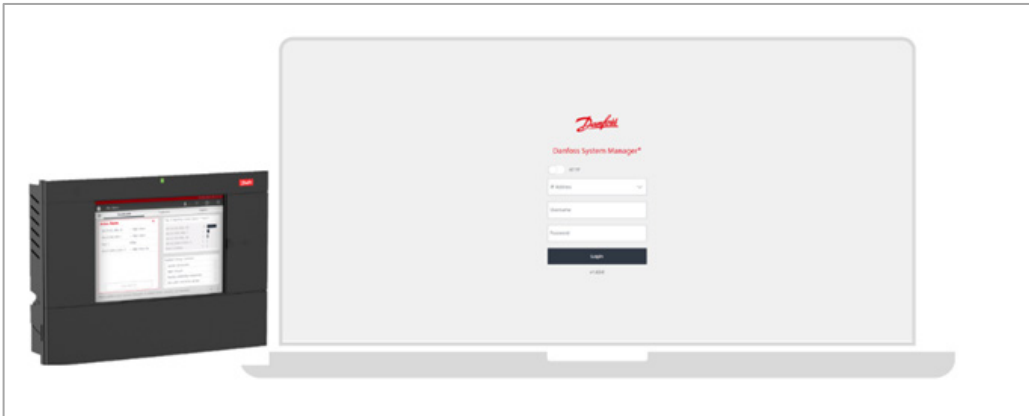
Security

To help keeping your Danfoss products secured and protected, we emphasize implementing cyber security best practices to maximize your protection against malicious attacks.

Introducing Storeview Web (SvW): An All-New Remote User Interface for Your Danfoss ADAP-KOOL™ System Manager

Danfoss is pleased to announce the immediate first release of **Storeview Web (SvW)**, an all-new remote user interface for your ADAP-KOOL™ System Manager 800 / 800A series. Storeview Web will ultimately replace existing legacy Software tools, providing a modern, cohesive, and simplified remote interface experience.

The initial release is offered as view only access, with the intention to issue regular updates that increase functionality.



Description

Storeview Web offers a fresh modern interface, built on modern web-technologies and will be available on browser, desktop and all major mobile platforms. SvW replaces a portfolio of legacy applications and improves on

- Direct integration with the Alsense platform for a seamless and connected user experience
- Using industry best practice and technologies for IT security
- 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

Visit Storeview Web on <https://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 (View Only)
- Equipment (View Only)
- Schedules
- History
- Reports
- Graphic Editor (View, Import, Migrate and Edit)
 - Note that graphics will be saved in the cloud in the browser version of SvW
- Configuration (View Only)

- System
 - Software Management
 - OS Update (View Only)
 - FW Update (View Only)
 - FW Rollback (View Only)
 - EDF Update
 - Diagnostics
 - Database Management
 - Database Import (View Only)
 - Database Export

Note:

View-Only features will be gradually opened as they pass internal testing.

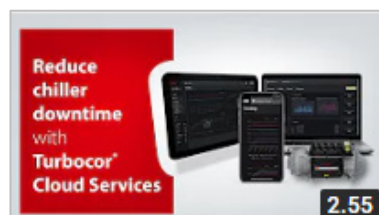
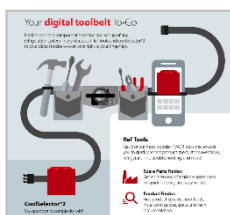
More information

More information and news about the current and future updates can be found on Danfoss.com.

Training via [Danfoss Learning](#).

Videos and Infographics

- How to braze video:
 - ETS 400L and ETS 500L large expansion valves- [LINK](#)
- Heat Pumps - a Hot Topic- [LINK](#)
- Reduce chiller downtime with Turbocor® Cloud Services- [LINK](#)
- How to connect AK-PC 782B to AK-SM 800A- [LINK](#)
- Commissioning best practices - [Infographic](#)
- Smart Store to go – Refrigeration solutions for small c-stores and food shops - [Infographic](#)



Details for Additional Information

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[Support Made Easy](#)

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Contact information for customer service in Estonia, Latvia and Lithuania will work from November 1, 2022.