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

Product Label Update for AK-XM Extension Modules

Due to a specific request from the UL certification body, we have updated the product label of our AK-XM extension modules with additional indications. As there will not be any modification for the product in terms of functionality, the products will not present a new product version.

The affected products are as follow:

Part number	Object description
080Z0007	AK-XM 101A, Control, Ext. module, 8 AI
080Z0008	AK-XM 102A, Control, Ext. module, 8 DI low
080Z0010	AK-XM 205A, Control, 8 AI / 8 DO, Euro conn.
080Z0011	AK-XM 204A, Control, 8 DO, Euro conn.
080Z0013	AK-XM 102B, Control, 8 DI High, Euro conn.
080Z0017	AK-XM 205B, Control, 8 AI/DO OVR Euro con.
080Z0018	AK-XM 204B, Control, 8 DO OVR, Euro conn.
080Z0020	AK-XM 107A, Control, Pulse Counter Module
080Z0022	AK-XM 208B, Control, Stepper Valve Module
080Z0023	AK-XM 208C, Control, 8 AI & 4 Stepper out
080Z0032	AK-XM 103A, Control, Ext. Module, 4 AI / AO
080Z0061	AK-CM 101A, Control, Comm. Module, TP78
080Z0063	AK-CM 101C, Control, Comm. Module, RS485
080Z0064	AK-CM 102, Control, Comm. Module

Here below the list of changes that have been introduced and as example the label changes for the code 080Z0032:

1. UL listed symbol changed from [symbol] to [symbol]

2. Added technical details as per the UL requirements.

3. Removed UKCA mark [symbol]. It has not required since CE mark presented

4. Ukraine logo changed from [symbol] to [symbol] as per latest requirement of marking

5. WEEE mark changed from [symbol] to [symbol] as per requirement of marking

6. Added current ratings for outputs

The affected products will be in stock starting from March 2025 accordingly to new production availability for each code.

Alsense Food & Beverage Cloud & Related IoT Enabler Products (Prosa), End of Life

We regret to inform you that we are discontinuing our Alsense Food & Beverage product portfolio related to Prosa services. The rest of Alsense services continue.

Our compliance evaluation against upcoming Cyber Security Resilience legislation and the EU Data Act revealed that the Alsense Food & Beverage cloud and related IoT Enabler products require substantial updates and significant investment to meet these new requirements. Consequently, all future sales will be affected.

Therefore, we have scheduled the end of life for the Alsense Food & Beverage products (Prosa) and related IoT Enabler devices as follows:

- End of service sales: Immediate effect.
- End of cloud services for existing customers: December 31, 2025.
- End of life for IoT Enablers: As per the table below.

IoT Enabler (Prosa)	LTB	LTS	EOL
SC4 beer (all)	20/04/2025	25/07/2025	**31/07/2025**
OCTO (all – coffee, freezer, cooler)	20/04/2025	25/07/2025	**31/07/2025**
SOLO (all)	20/04/2025	25/07/2025	**31/07/2025**
SC2POM	---	---	**31/03/2025**

Considering:
- **LTB**: Last Time Buy: deadline for which we can accept an order
- **LTS**: Last Time Ship: deadline for which we will ship products.
- **EOL**: End Of Life: Phase out of the product family with no further developments**.

** Critical bug-fix or/and support recognized by Danfoss team will be provided till the end of the Cloud Service to guarantee stability to the solution on field.

Even though this decision is related to the upcoming Cyber Security Resilience legislation, we foresee no security threat to customers using our products and services.

Alsmart® Design Release: Alsmart Design New Version Release

We are pleased to announce that a new version of Alsmart® Design has been released to support license renewal for an additional 90 days of free usage.

Key advantage
- Free usage for additional 90 days

Affected product
- Alsmart Design version 1.06.0008

Alsmart® Design v. 1.06.0008 can be downloaded from the **Danfoss Partner Portal.**
Follow the attached instruction to get access to Partner Portal: **Quick setup guide**

Note that the previous trial period must have expired before the new 90-day license applies. Until expiration, you will not see any change in the counter.
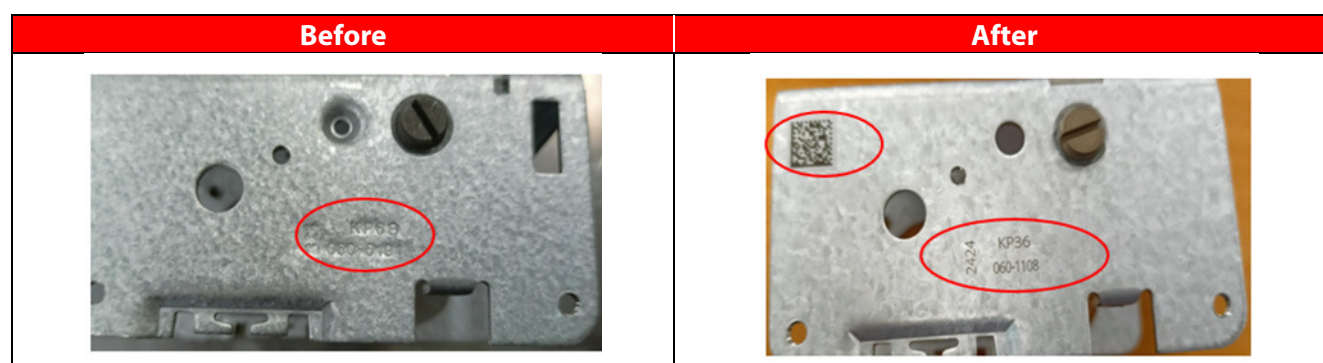
During the trial period (90 days), Alsmart® Design (from version 1.04.xx onwards) does not work on a virtual machine due to embedded license protection features.

KP Pressure Switches - Laser Marking and QR Code Implementation

Danfoss is upgrading the marking process for KP switches manufactured in India. Effective week 08, 2025, we will transition from tool punching to laser marking, which will include a QR code for enhanced internal traceability.

This change mirrors our successful implementation in Poland and aligns with our global standardization efforts. The type, code number, and batch code will remain clearly visible.

There will be no change to product specifications or ordering procedures.

Before	After

This change to the marking process will not affect the performance or ordering of your pressure switches.
Code numbers and order quantities remain unchanged.

Release of Production for AK-XM 208C Extension Module with New Stepper Valve Chip

Due to an end of life of the previously used stepper valve chip on board of our AK-XM 208C extension module and to avoid consequently the risk of a production stop, we have introduced an alternative component which has led to a new firmware, while maintaining the same functionality of the product.

Product equipped with the new stepper valve chip will also present a new product version.

The affected product with the new product version accordingly is as follow:

Part number	Object description
080Z0023 PV 11	AK-XM 208C ext. module 8AI & 4 stepper outputs

New product version is visible in the label on the backside of the module and on the packaging label
as in the pictures below:

For a period, we might still have the present and new product version available, depending on which component utilized.

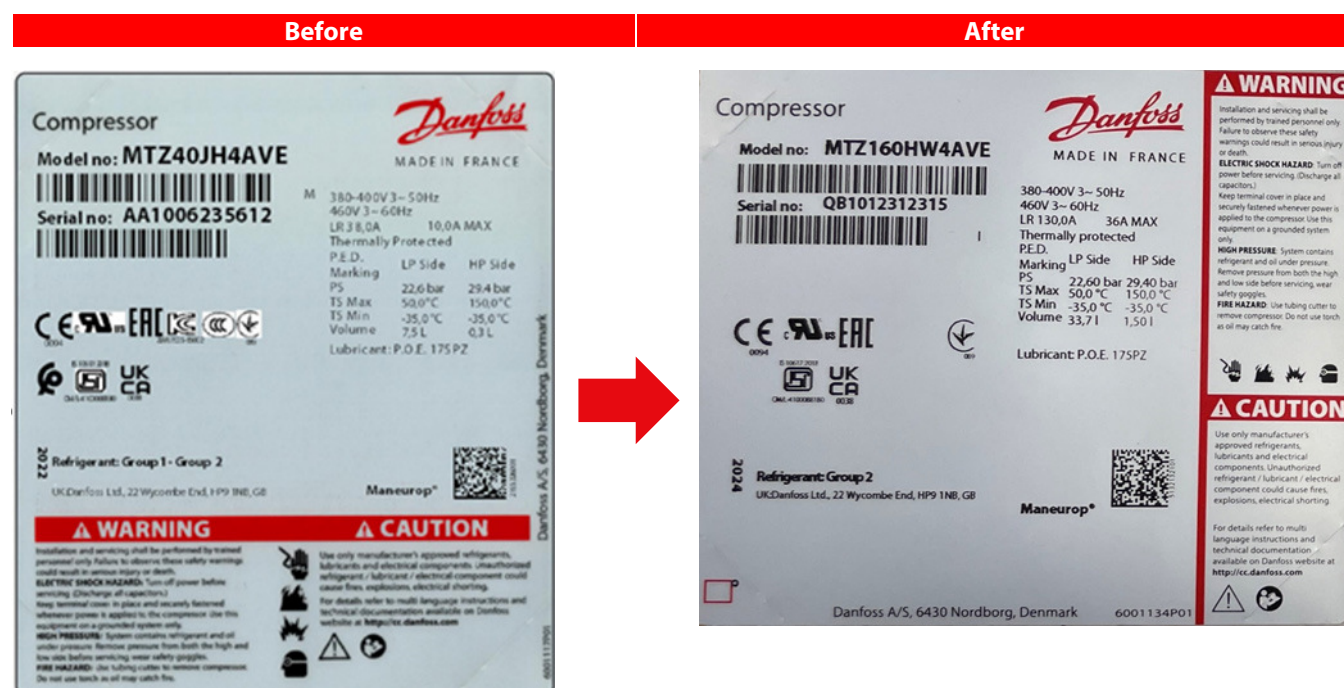# Notification of Change in Compressor Label Format for All Reciprocating Compressors MT, MTZ, NTZ, VTZ

This is to inform you about an upcoming change in the format of our compressor labels. The shape of the label will transition to a horizontal version, commonly referred to as landscape.

The implementation of the new label format is scheduled for the 10th week of 2025.
Please, be assured that this change in label format does not entail any consequences for you or your operations.
All data on the label will remain unchanged; only the layout will be adjusted to better fit the compressor housing.

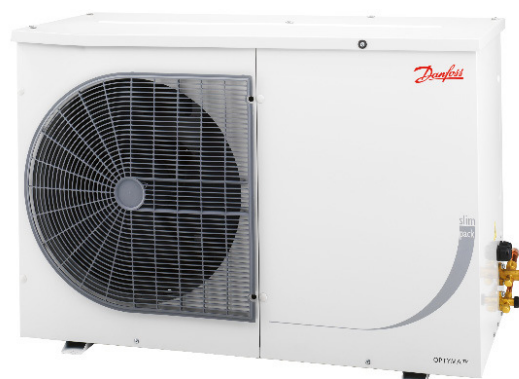The images below illustrate the label before and after the change.

Before	After

Optyma™ Slim Pack DS034 Piping Change

As part of Danfoss' continuous quality monitoring, due to infrequent and extremely rare abnormal vibration discovered in the field under very specific working conditions, we are pleased to announce that we have changed the discharge tube piping design for four models to prevent possible leakage and ensure reliable operation for years to come under all intended working conditions.

Description
Under specific working conditions Optyma Slim Pack models equipped with the Danfoss DS34TB compressor have exhibited high vibration levels. In very few field cases, abnormal noise has been detected after several months of operation, which potentially might result in cracks on the compressor discharge port and subsequent system leaks.
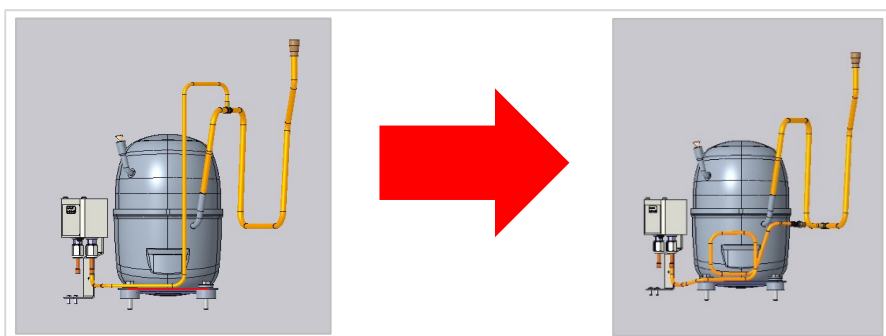
Affected products

All Optyma Slim Pack with DS034 compressors.

Optyma Slim Pack W05 Designation	Optyma Slim Pack W05 Code	Optyma Slim Pack W09 Designation	Optyma Slim Pack W09 Code
OP-MSTM034DSW05G	114X7237	OP-MSTM034DSW09G	114X7302
OP-MSTM034DSW05E	114X7236	OP-MSTM034DSW09E	114X7303

Cause / Background

The DS34TB compressor exhibits higher vibration than the initial levels documented during the engineering of this model. This resulted in uncomplete vibration simulation and consequent design of the discharge piping line.
The new design will ensure the flexibility and reliability of the brazed parts.

Customer impact

- W05 version: All products on stock and produced after week 02 2025 have been modified
- W09 version: All products produced after week 10 2025 (to be updated)

For products on field and abnormal vibrations experienced, produced before this date we have created a kit to change the piping – there is no need for pro-active modification if no abnormal vibration experienced.

- Kit article code: 118U5588

Optyma™ Slim Pack Condensing Unit Pressure Relief Valve – Application Explanation

As part of an ongoing product documentation upgrade, Danfoss is prioritizing clarity regarding the application and regulatory compliance of the Pressure Relief Valve (PRV) option in its Optyma Slim Pack products (W05/W09 versions) sold within the European region. This aims to prevent future inquiries from installers and end-users.

Description

Danfoss offers the Optyma Slim Pack and Optyma Plus product lines for A1 and A2L+A1 refrigerants in the European Union market.
To differentiate between the Optyma Slim Pack, Danfoss includes a pressure relief valve (PRV) only in the Optyma Plus range (see annex). However, Optyma Slim Pack liquid refrigerant receivers are designed to accommodate a field-installed PRV option.

The rationale for factory or field PRV installation is as follows:

- In accordance with EN378-2:2016, the complete refrigeration system shall be protected in the event of external fire, even though external fire is not regarded as operational condition, however the designer shall regard the damage limitation requirements as appropriate according to clause 6.2.2.3
- Danfoss proactively certified for PED (2014/68/EU) Optyma Slim Pack (A1, A2L+A1) product range sold to Europe region having without pressure relief mounted as a pressure safety. Danfoss made extensive engineering risk assessments while using the partially completed machinery with mildly flammable refrigerants (R454C, R455A, R1234yf),
- The Pressure Relief Valve sized option according to EN13136 and PED Category IV is approved.
- PRV is available for purchase as dedicated Spare part (Danfoss code: 118U5304) for field installations and replacement, refer **Coolselector2** for further details.

Impacted products

Product Range	Product Version	Refrigerant Category	PRV Factory Fitted	PRV Spare Part Code
Optyma Slim Pack	W05	A1	No	118U5304 3/8" NPT
	W09	A1	No	
	W05	A2L + A1	No	
	W09	A2L + A1	No	
Optyma Plus	All version	A2L + A1 and A1	Yes, for PED cat II models	

New & Updated Literature

- Optyma™ Condensing Units for Europe **- LINK**
- Optyma™ Bare Condensing Units **- LINK**
- Light Commercial Refrigeration Compressors B, F, U, L, P, X, S, HY Ranges **- LINK**
- Spare parts and accessories Danfoss Commercial Compressors for hermetic reciprocating and scroll compressors (AC/HP & REF) **- LINK**
- Optyma™ Packaged condensing units - Europe **- LINK**

Details for Additional Information

If you need additional information on Danfoss products and solutions, please **click the link below**, select your country and find contact details for our sales and service offices.

➔ **Contact Danfoss**