

ENGINEERING
TOMORROW



August 2020

Cooling and Industrial Automation

Danfoss Tech Insider



Cooling United Live 2020

Danfoss is hosting a new LIVE virtual event experience.

The first ever Cooling United Live will take place on October 7-8, 2020. It is specifically designed for air conditioning, commercial refrigeration, food retail and industrial refrigeration audiences, Cooling United Live will serve as both a learning forum and new technology exhibition. There will be an engaging lineup of thought leaders and interactive sessions for both days of Cooling United Live. And, unlike a traditional conference, attendees can log in from anywhere in the world.

It will feature a wide variety of session types tailored to different audiences, including:

- Live panel discussions and Q&A's
- Engaging keynote speakers
- Connecting with experts in localized regions
- Smaller chatrooms post-session
- Product and system demos

[Pre-register here to receive early access to all event information, including agenda, speakers and more](#)



Your Coolselector®2 BOM becomes your shopping cart



Coolselector®2 now boasts a new useful feature, which in one click will transform your Coolselector®2 bill of materials (BOM) to your shopping cart in the Danfoss Product Store.

After clicking the button on the BOM in Coolselector®2, your list of selected products will land in the Danfoss Product Store on a list known as "My List".

Watch the lead developer of Coolselector®2, Morten Juel Skovrup, demonstrate how it works in this [short video](#)

The functionality is available both for logged in and anonymous users of the Product Store. As a logged in user, you can convert your BOM to a My List and directly to a shopping cart. Should you not have a login to the Danfoss Product Store, you can instead choose to copy the link to the list and share it with e.g.

your order handler or your local Danfoss distributor.

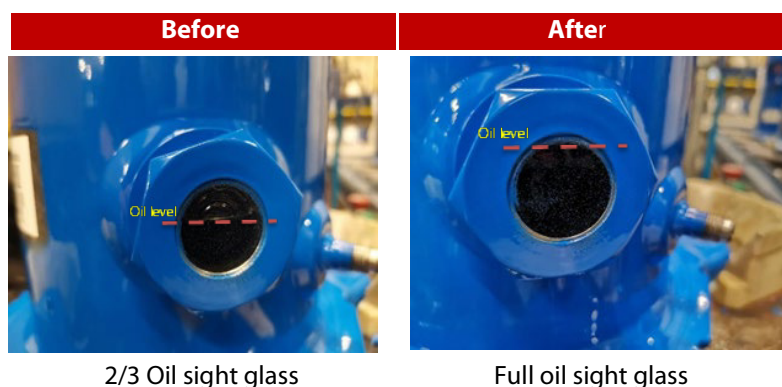
To use the new functionality, go to Coolselector®2 and either load one of your existing projects, or start a new project from scratch. Calculate based on the operating conditions of your system and select the products you wish to add to your BOM. Once you have completed your BOM, click on the 'Danfoss Product Store' button and your BOM will automatically be sent to the Danfoss Product Store.

Coolselector®2 can be [downloaded for free](#) from the Danfoss website – we did complex – you do awesome!

Easier inspection of oil level in our VZH/VLZ028 compressors

To make the oil level more visible using the oil sight glass for VZH/VLZ 028 compressors, Danfoss will from August 2020 add 0.2 liters of oil to VZH/VLZ 028, making it the same as VZH/VLZ 035-044.

The oil information will be updated on the VZH/VLZ 028 nameplate from 1.06L to 1.13L



Upgraded pressure transmitters for industrial and marine applications

The Danfoss product program has been upgrade for AKS, MBS and DST pressure sensors with the new Danfoss sensor electronics



Some of the key benefits are:

- High EMC performance without impact on accuracy
- High level of vibration and chock stability
- Sturdy and shock-proof
- Application dedicated performance on accuracy and reliability
- Available with all relevant marine approvals

To explore more about the upgrade take a look at the [Pressure Sensor Upgrade Flyer](#) or visit our [Homepage](#).

T2/TE2 expansion valves complete qualification for R454C, R455A and R1234yf



Danfoss T2 and TE2 thermostatic expansion valves, have completed the rigorous qualification process for three A2L-ultra-low GWP refrigerants: R454C, R455A and R1234yf.

The process is particularly thorough because, like most ultra-low GWP alternatives, R454C, R455A and R1234yf are mildly flammable - carrying the ASHRAE classification A2L - and therefore subject to additional safety requirements. Every component undergoes carefully planned testing and is modified as necessary to make it safe and easy for installers to meet key regulations such as the Pressure Equipment Directive (PED).

Precautions include:

- Thorough compatibility testing for internal polymers and raw materials in contact with refrigerant and oil
- Bulb charge optimization to match for the different pressures and temperatures of the refrigerants.

Product specifications

Charge range: -40 °C/+10 °C (-40 °F/+50 °F)

Factory setting: 4 °C (7.2 °F)

Refrigerant	Multipack	Type	Connection
R454C	068Z7490	T2	Flare/Solder ½ inch
	068Z7492	TE2	Flare/Solder ½ inch
	068Z7484	T2	Flare/Solder 12 mm
	068Z7486	TE2	Flare/Solder 12 mm
	068Z7483	T2	Flare/Flare
	068Z7485	TE2	Flare/Flare
R455A	068Z7494	T2	Flare/Solder ½ inch
	068Z7501	TE2	Flare/Solder ½ inch
	068Z7498	T2	Flare/Solder 12 mm
	068Z7500	TE2	Flare/Solder 12 mm
	068Z7496	T2	Flare/Flare
	068Z7499	TE2	Flare/Flare
R1234yf	068Z7491	T2	Flare/Solder ½ inch
	068Z7493	TE2	Flare/Solder ½ inch
	068Z7488	T2	Flare/Solder 12 mm
	068Z7495	TE2	Flare/Solder 12 mm
	068Z7487	T2	Flare/Flare
	068Z7489	TE2	Flare/Flare

To find more information about the T2 and TE2, visit the [Danfoss Product Catalogue](#)

Upcoming events

Join our upcoming online webinars:

Danfoss Optyma™ controllers – solutions for cold rooms

Thursday 27 August at 11.00 CEST – **Swedish** Danish Norwegian

Register here: <https://register.gotowebinar.com/register/7383341933806598411>

Thursday 27 August at 13.00 BST / 14.00 CEST - **English**

Register here: <https://register.gotowebinar.com/register/4207696167418945551>

Danfoss Position Sensors Technology Overview

Thursday 3 September at 10.00 CEST – **English**

Register here: <https://register.gotowebinar.com/register/2842633790899976717>

Thursday 3 September at 13.00 BST / 14.00 CEST – **English**

Register here: <https://register.gotowebinar.com/register/2589193062162953229>

Details for Additional Information

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