

Danfoss Extended Oil-free Program

## Another **efficiency** step ahead for **oil-free chillers**

At Danfoss, we constantly strive to offer innovative solutions that help HVAC professionals succeed. And that is why we are now expanding our Danfoss EXO – Extended Oil-free program to include components for oil-free chillers.

As a result, HVAC professionals will not only benefit from Danfoss' world-leading technical expertise but also the widest portfolio of components approved for oil-free systems in the world, empowering OEMs and consultants to take a step ahead and reduce development costs.





**Widest application expertise**  
and portfolio reduce your development costs

## Recipe for premium oil-free chillers

**Level of difficulty:** Fairly easy

**Time duration:** Quick

**Calories:** None

**Oil:** Please, keep the oil in your kitchen

Oil-free systems have proven superiority in demanding buildings. The first-ever extended oil-free program – **The Danfoss EXO Program** – offers the widest application expertise and enables HVAC professionals to design systems that capitalize on all the benefits of oil-free.

**The Danfoss EXO** – Extended Oil-free program offers a wide range of key components that together make up new generations of energy-efficient oil-free chillers – and with this recipe, you will learn how to apply the different components and build the perfect system for challenging building environments.

## Directions

1. Add 2 spoonfuls of **Danfoss Turbocor®** oil-free compressor to maximize the efficiency of your chiller.
2. Combine a splash of **MCX** controller, 1 lb of **HVAC Drive**, and dozens of **ACB** and **AKS 32** sensors. This will ensure maximum flexibility and guarantee that the chiller's output is easy to fine-tune.
3. So far, so good. Now, it is time to add one **ETS Colibri®** and a cup of **EKE** superheat controller to correctly regulate the superheat flow and ensure that your chiller provides optimal comfort and cooling.
4. Mix a splash of **MPHE** heat exchanger to maximize the heat transfer in your condenser or evaporator.
5. Call your loyal customers. The best-in-class oil-free chiller is almost ready to serve.
6. Sprinkle a dash of EVR v2 solenoid valve, **GBC** ball valve and **CHV** check valve, several tablespoons of **DCL** filter drier, and a pinch of a **SGP** sight glass to provide optimum system protection under the most strenuous of operating conditions.
7. Now, you are ready to serve the new and optimized oil-free chiller to your customers.

### Engineers's tip:

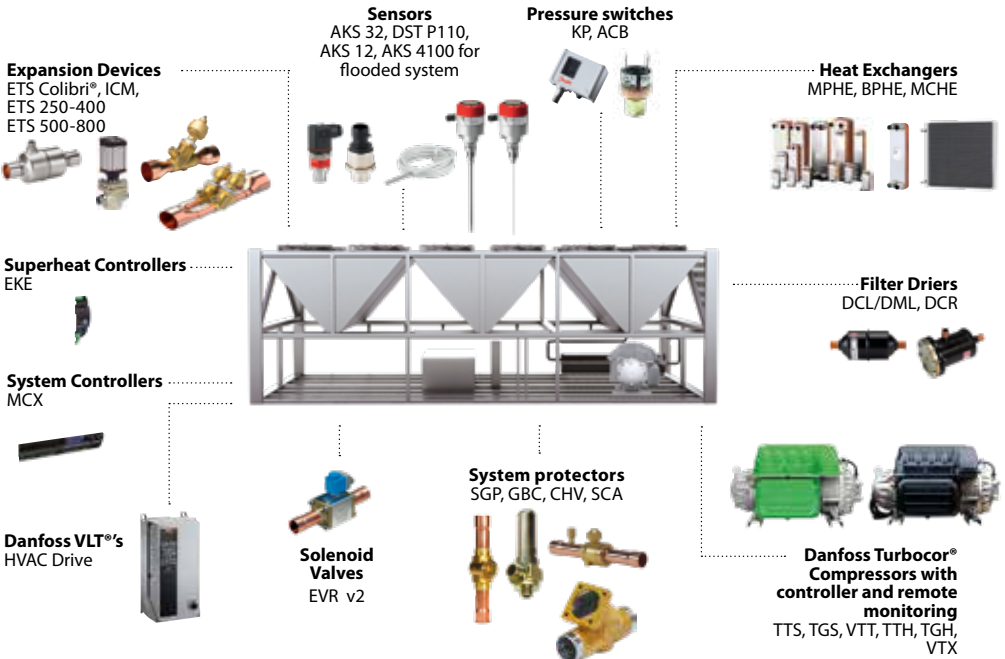
The **Danfoss Turbocor®** oil-free compressors, **ETS Colibri®** expansion device, and **EKE** superheat controller are key components when optimizing chillers.

## Ingredients

Type	Product name
<b>Danfoss Turbocor® Oil-free Compressors</b>	TT, TG, VTT, TTH, TGH
<b>Controllers</b>	
System Controllers	MCX
Superheat Controllers	EKE
Danfoss VLT®'s	HVAC Drive
<b>Line Components</b>	
Solenoid valves	EVR v2
Sensors	DST P110, AKS 4100, AKS 12
Check Valves	CHV
Sight Glasses	SGP
Filter Driers	DCL/DML, DCR
Expansion Devices	ETS Colibri®, ICM, ETS
Transducers	AKS 32
<b>Heat Exchangers</b>	MPHE, MCHE, BPHE
<b>Pressure Switches</b>	KP, ACB



# Improve your chiller solutions with the Danfoss Extended Oil-free Program



**Danfoss Extended Oil-free Program** demonstrates our unmatched application expertise and our dedicated ambition to helping HVAC professionals succeed by offering an unprecedented portfolio of components for use in oil-free systems as well as excellent customer service and in-depth training programs.

To learn more about our expanded portfolio of oil-free technology visit [oilfree.danfoss.com](http://oilfree.danfoss.com)

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