

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

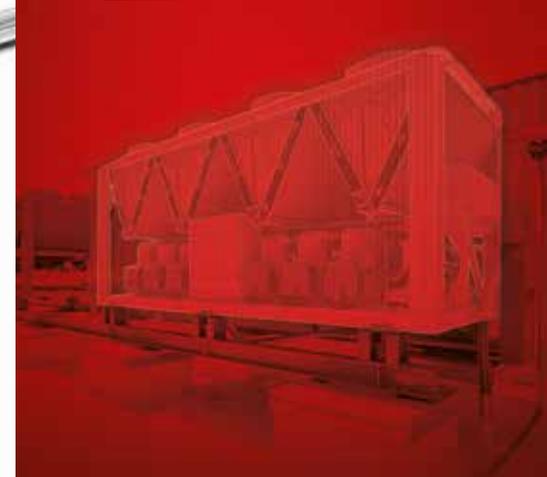
1. Add 2 spoonfuls of **Danfoss Turbocor®** oil-free compressor to maximize the efficiency of your chiller.
2. Combine a splash of **MCX** controller, 1 lb of **HVAC Drive**, and dozens of **ACB** and **AKS 32** sensors. This will ensure maximum flexibility and guarantee that the chiller's output is 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:

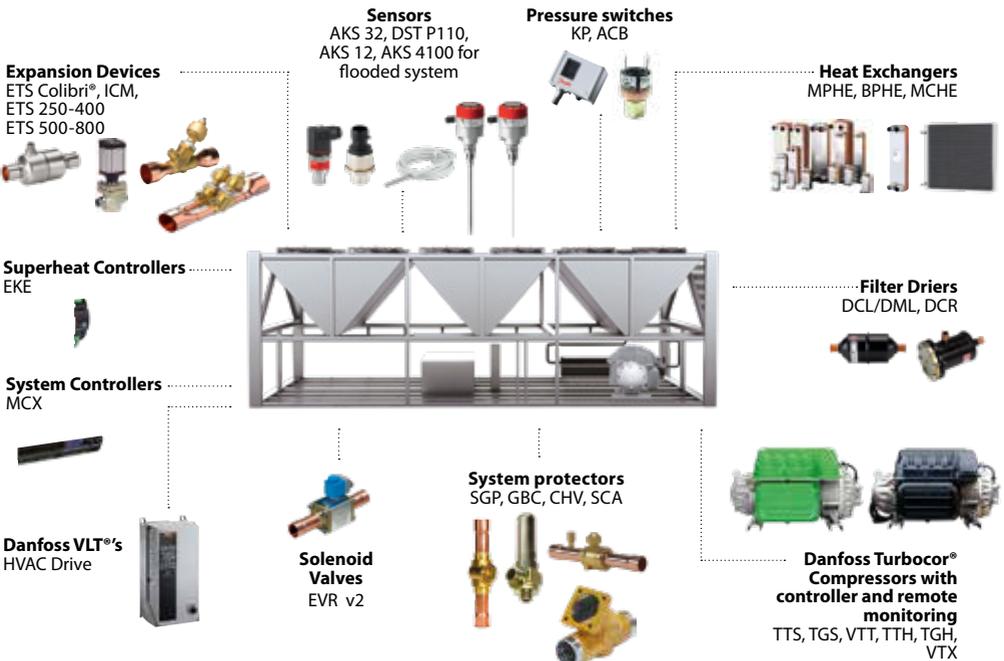
The **Danfoss Turbocor®** oil-free compressors, **ETS Colibri®** expansion device, and **EKE** superheat controller are key components when optimizing chillers.

Ingredients

| Type | Product name |
|---|----------------------------|
| Danfoss Turbocor® Oil-free Compressors | TT, TG, VTT, TTH, TGH |
| Controllers | |
| System Controllers | MCX |
| Superheat Controllers | EKE |
| Danfoss VLT®'s | HVAC Drive |
| Line Components | |
| 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 |
| Heat Exchangers | MPHE, MCHE, BPHE |
| Pressure Switches | 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

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