

ENGINEERING
TOMORROW



Danfoss Industrial Refrigeration | Advanced Evaporator Control Panels

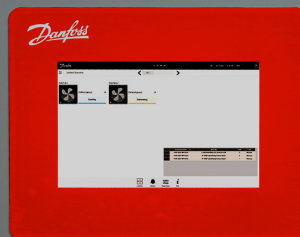
See **evaporator control panels** in a **new light with CoolCtrl**

At Danfoss, we have extended our wide product portfolio for industrial refrigeration to include advanced evaporator control panels.

With its compact design, the Danfoss advanced evaporator control panels are available 'off the shelf' and are packed with many easy-configurable, advanced, and safe evaporator control solutions, reducing design, installation and commissioning costs.

Flexible

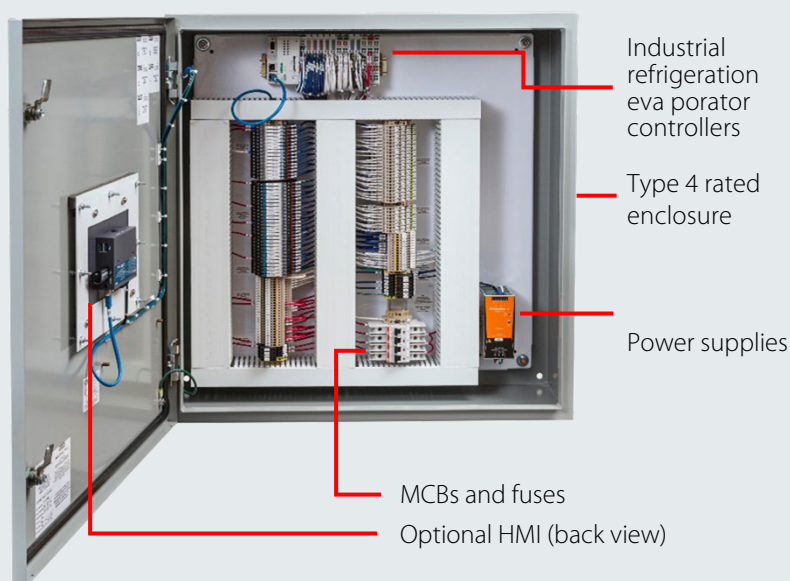
design for all
industrial evaporator
control needs



Advanced evaporator control panels for industrial refrigeration

The Danfoss advanced evaporator distributed control panels have been designed to lessen the burden of design, installation and commissioning industrial refrigeration controls by offering standard, highly robust hardware and software solutions that cover the majority of industrial refrigeration applications.

Zoom in on the Danfoss advanced evaporator control panels



Benefits of the Danfoss panels



Simplify design phase

- Each panel has the majority of standard control choices for industrial evaporators used today already built in, thereby eliminating most of the time spent deciding on and communicating evaporator control software and hardware specifications to programmers and electrical panel designers
- Intuitive inbuilt web server and touchscreen for easy control choice selection
- Standard and customized wiring schematics included



Easy installation

- Easy to mount
- Wiring made simple with separated AC and DC customer wireways
- The panel layout and choice of hardware is compact and electrician-friendly usings, well-labelled components and terminals
- Danfoss control panels can operate and control the evaporators without a main system PLC



Easy Commissioning

- All control logic is contained within the panel, allowing commissioning to begin before installation of the main system PLC
- All control values and advanced settings are visible to, and available for, the main system PLC, thereby simplifying PLC programming work
- Error location is made easier compared with when logic is located in a central PLC
- Control algorithms are designed according to all relevant standards and have already been robustly tested, increasing operational safety

Technical data

Standards	UL/cUL listed
Class of protection	Type 4 rated for displayed model. Otherwise, customizable
Short circuit current rating	10kA for displayed model
U_e supply voltage	1×120+N+PE VAC
U_e control voltage	120 VAC / 24 VDC
Frequency	60 Hz
Dimensions (Height x Width x Depth)	30" x 30" x 10" for displayed model. Otherwise, customizable
Panel color	Painted ANSI 61 Gray outside. Painted white inside
Number of evaporators controlled	1-4. Ask your Danfoss representative for other options
Fan protection and electrically powered defrost component protection	Not included in standard panels. Custom designed according to order
Temperature range ambient	-4°F to +104°F (-20°C to +40°C) with heaters
Communication protocol	Modbus TCP and Ethernet/IP
User interface	Graphic webserver and touchscreen option

Contact Danfoss for more information