

ENGINEERING
TOMORROW



Danfoss Industrial Refrigeration | Standard Evaporator Control Panels

See **evaporator control panels** in a new light with **Cool Ctrl**

At Danfoss, we are extending our wide product portfolio for industrial refrigeration to include standard evaporator control panels.

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

Flexible

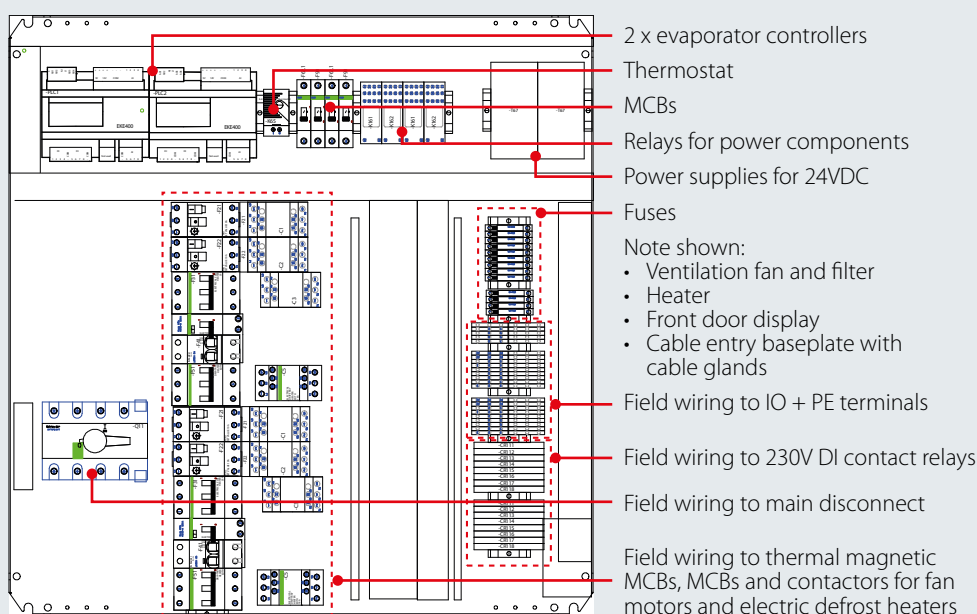
design for all
industrial evaporator
control needs



Standard evaporator control panels for industrial refrigeration

The Danfoss evaporator 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 panel backplate



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 software tool CoolConfig easy control choice selection



Easy Installation

- Easy to mount
- The panel layout and choice of hardware is compact and electrician-friendly using, well-labelled components, terminals and documentation
- 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 setting (+350 Modbus RTU datapoints per evaporator available) 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

**Contact Danfoss
for more information**

Technical data

Standards	IEC61439
Class of protection	IP64 with front door display. IP65 without front door display. Indoor usage only
Short circuit current rating	15kA
Ue supply voltage	3x230+N+PE VAC
Ue control voltage	230/24DC V
Frequency	50Hz
System earth	TN-S
Internal separation	Form 1
Dimensions (Height x Width x Depth)	800x600x210mm depending on customized components
Panel color	RAL 7035
Number of evaporators controlled	Up to 4. Ask your Danfoss representative for other options
Fan protection and electrically powered defrost component protection	Power components for fans, electrical coil, ring, drain, drip-tray and diffuser customized to the project's needs. Ask your Danfoss representative for more information
Temperature range ambient	-20°C to +35°C
Weight range	25 - 40 kg depending on customization
Wire identification by color codes	IEC 61439

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