

See evaporator control panels in a new light with Cool Ctrl

Danfoss is expanding our Cool Ctrl portfolio of intelligent industrial refrigeration regulation and control solutions to include standard evaporator control panels.

Danfoss panels are designed to be compact while offering a range of advanced, easily configurable, and safe evaporator control solutions. This combination helps reduce costs related to design, installation, and commissioning.



Flexible

design for all industrial evaporator control needs

Standard evaporator control panels for industrial refrigeration

Danfoss Cool Ctrl evaporator control panels are designed to simplify industrial refrigeration management. With robust hardware and software solutions, they streamline the design, installation, and commissioning processes for installers, effectively covering most industrial refrigeration applications.

Benefits of the Danfoss panels



Simplify design phase

- Danfoss panels include most standard control options for industrial evaporators, which saves time by reducing the need to specify software and hardware requirements to programmers and panel designers
- Control configuration is made effortless with Danfoss' intuitive CoolConfig software



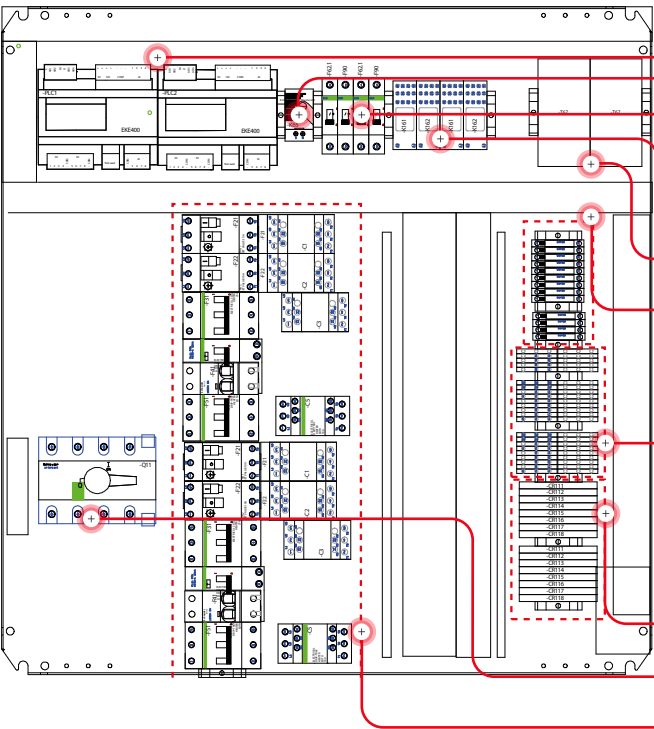
Easy installation

- Easy to mount
- The panel layout and choice of hardware is compact and electrician-friendly, featuring 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 settings, including over 350 Modbus RTU datapoints per evaporator, are accessible to the main system PLC, thereby simplifies the PLC programming work
- Error location is easier to identify compared to situations where the logic is centralized in a PLC
- Control algorithms are designed according to all relevant standards and have undergone robust testing, increasing operational safety



Zoom in on the Danfoss panel backplate

- 2 x evaporator controllers
- Thermostat
- MCBs
- Relays for power components
- Power supplies for 24VDC
- Fuses
- Not shown:
 - Ventilation fan and filter
 - Heater
 - Front door display
 - Cable entry baseplate with cable glands
- Field wiring to IO + PE terminals
- Field wiring to 230V DI contact relays
- Field wiring to main disconnect
- Field wiring to thermal magnetic MCBs, MCBs and contactors for fan motors and electric defrost heaters

Contact Danfoss for more information

Technical data

Standards	UL/cUL listed
Class of protection	Type 4 rated for displayed model. Otherwise, customizable.
Short circuit current rating	10 kA for displayed model
Ue supply voltage	1×120+N+PE V AC
Ue control voltage	120 V AC / 24 V DC
Frequency	60 Hz
System earth	TN-S
Internal separation	Form 1
Dimensions (Height x Width x Depth)	30"×30"×10" for displayed model. Otherwise, customizable.
Panel color	Painted ANSI 61 Gray outside. Painted white inside.
Number of evaporators controlled	Up to 2
Fan protection and electrically powered defrost component protection	Not included in standard panels. Custom designed according to order.
Temperature range ambient	-4 °F to 95 °F with heaters
Communication protocol	Modbus RTU
User interface	Optional LCD front door display. PC configuration tool: CoolConfig controller setup wizard

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