

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 advanced evaporator control panels.

The advanced evaporator control panels are ready-made for installation, even in compact spaces, with a comprehensive 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

Advanced evaporator control panels for industrial refrigeration

Danfoss Cool Ctrl advanced evaporator distributed control panels offer flexible I/O and PLC capabilities, allowing management of multiple evaporators from a single panel. This adaptability simplifies design, installation, and commissioning, making it ideal for most industrial refrigeration applications.



Easy installation

- Easy to mount
- Wiring made simple with separated AC and DC customer wireways
- The panel layout is compact and electrician-friendly, featuring well-labeled components and terminals for easy installation
- Danfoss Cool Ctrl control panels can operate and control the evaporators without a main system PLC

Benefits of the Danfoss panels



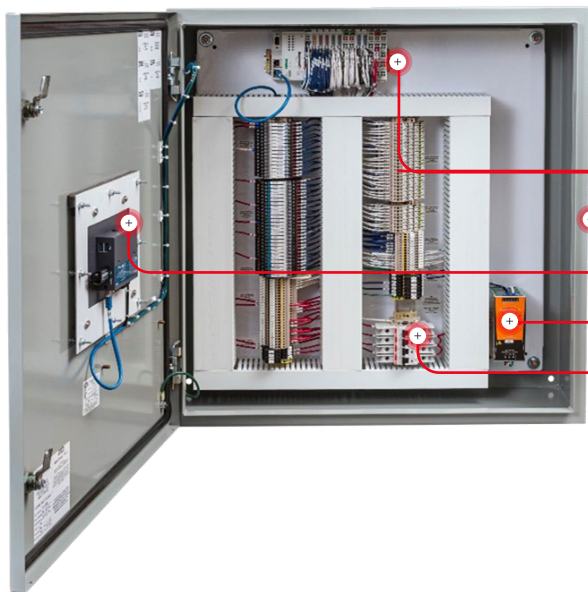
Simplify design phase

- Advanced panels come pre-installed with standard control options for industrial evaporators, reducing the time needed to specify and communicate evaporator control software and hardware requirements for programmers and electrical panel designers
- Intuitive built-in web server and touchscreen for easy control choice selection
- Standard and customized wiring schematics included



Easy commissioning

- All control logic is integrated within the panel, enabling commissioning to start prior to the main system PLC installation
- All control values and advanced settings are accessible to the main system PLC to simplify PLC programming tasks
- Error location is simplified compared to when logic is centralized in a PLC
- Control algorithms are designed according to all relevant standards and have already been robustly tested, increasing operational safety



Zoom in on the Danfoss advanced evaporator control panels

- Industrial refrigeration evaporator controllers
- Type 4 rated enclosure
- Optional HMI (back view)
- Power supplies
- MCBs and fuses

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	10kA for displayed model
Ue supply voltage	1×120+N+PE VAC
Ue control voltage	120 VAC / 24 VDC
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	1-10. 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 with heaters
Communication protocol	Modbus TCP and Ethernet/IP
User interface	Graphic webserver and touchscreen option

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