



ENGINEERING
TOMORROW



CoolCtrl

Danfoss CoolCtrl offers a comprehensive range of control panel solutions designed to meet the diverse needs of industrial refrigeration and power management. Our offering includes both distributed and centralized approaches, ensuring efficient and reliable performance for your systems. Whether you require a distributed control system for specific applications, a power approach with motor control and VFDs, or a full centralized PLC control system, Danfoss CoolCtrl provides advanced, customizable solutions that integrate seamlessly with your existing infrastructure.



CoolCtrl distributed panels

Control panels with or without power

Standard Evaporator Control Panel

- Designed for simplicity and reliability
- Controls up to 2 evaporators
- Easy to install, design, and commission
- Key features:
 - Reliable performance
 - Efficient operation
 - Straightforward functionality
 - Modbus RTU communication



Advanced Evaporator Control Panel

- Enhanced capabilities and connectivity
- Controls up to 4 evaporators
- Features an intuitive touch screen and built-in web server
- Panel is based on PLC
- Key features:
 - Customizable settings
 - Remote access and control
 - Advanced security features
 - Modbus RTU, Modbus TCP, and Ethernet/IP communication



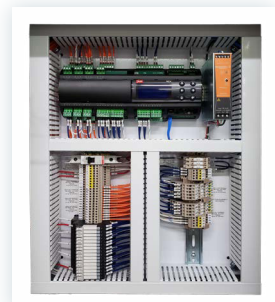
Vessel Control Panel

- Comprehensive control for industrial refrigeration vessels
- Designed to meet specific application demands
- Controls the smart liquid feed, liquid level, and up to 3 pumps
- Key features:
 - Seamless integration with other control systems
 - Enhanced monitoring and control capabilities
 - Reliable and efficient performance
 - Customizable to meet unique requirements
 - Built to ensure optimal safety and functionality



Condenser Panel

- A complete solution for controlling the capacity of a condenser in industrial refrigeration applications
- Controls up to 8 fans and pump motors
- Supports Across The Line (ATL) or Variable Frequency Drive (VFD) motors
- Ensures optimal condenser performance
- Integrates seamlessly with existing systems
- Available for new or retrofit projects





CoolCtrl **power panels**

VFD Panels

Variable Frequency Drive and Soft Starter panels

- Designed for new and retrofit applications
- Provides a bypass option for redundancy
- Available for compressors, condensers, liquid recirculator, and complete motor control centers (MCC)
- Features:
 - Cost-efficient, whole-system solution
 - Packaged with system controls and valves
 - Tested and programmed prior to shipment
 - UL508A, cUL, CSA, and CE compliant
 - Low and Medium Voltage (460V, 2300V, 4160V) and systems between 1/4HP to 1000HP
- Benefits:
 - Reduces start-up time
 - Ensures reliability and safety
 - Meets environmental, control, functionality, and safety needs
 - Custom-designed to fit any needs available



CoolCtrl **centralized systems**

PLC control systems

Customized PLC control systems for optimized plant operations

- Non-proprietary hardware which is readily available on the market
- Key features:
 - Intelligent energy management
 - Built around IIR safety standards
 - UL508A, cUL, CSA, and CE compliant
 - User-friendly graphical interface
 - Reduces energy consumption and operating costs
 - Ensures maximum safety



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