PRESTON
REFRIGERATION

Electrical Automation & Controls

Preston Refrigeration's Electrical Division designs and delivers dependable control systems that help facilities automate, manage, monitor, and optimize the performance of their industrial refrigeration systems.
Our team provides turnkey electrical and controls integration including custom design, panel fabrication, installation, startup, commissioning, and ongoing support.

Built for Your Refrigeration System

Preston control systems are designed around the needs of each facility and built in our UL-certified panel shop. Using programmable logic controllers, touchscreen HMIs, remote interfaces, and variable speed controls, we can automate and coordinate equipment throughout the refrigeration system.

Controls can be configured to manage compressor sequencing, condensers, fans, chillers, pumps, motorized valves, defrost cycles, pump out, water and ammonia levels, variable speed drives, and other critical refrigeration processes.

Visibility & Control for Operators

Our systems give operators access to the information they need to understand system performance and respond quickly when conditions change. Facilities can monitor pressures, vessel levels, refrigeration motor status, ammonia detection, zone temperatures, energy usage, and temperature and pressure trends.

Touchscreen and remote interfaces make it easier to monitor equipment, adjust operating parameters, identify alarms, and manage the refrigeration system from a centralized location.



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Automation That Supports Efficiency

Beyond equipment control, Preston can develop automation strategies that help facilities operate more efficiently. Depending on the application, this may include suction and discharge optimization, variable temperature setback, load shedding, recipe controls, power factor correction, and variable-speed equipment operation.

Systems can also incorporate offline operational capabilities to help maintain essential control functionality when network connectivity is unavailable.

From Design Through Commissioning

Preston provides the electrical expertise needed to take a controls project from concept to operation. Our turnkey approach brings design, fabrication, installation, startup, and commissioning together under one team.

At project completion, customers receive the associated electrical schematics, field wiring drawings, PLC programs, and HMI programs, providing the documentation needed to operate and support the system long term.



Contact Us to Schedule a Site Visit!

Are you ready to improve your facility's controls capabilities? Contact us to scheduled a site visit and start identifying the right solution for your system.

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