MASTER-BILT®
Refrigeration Solutions

Electronic Controller Systems

The Next Degree Of Control

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Take refrigeration control to the next degree with Master-Bilt's electronic controller systems. The unbeatable combination of efficiency, accuracy and reliability gives this technology a clear advantage over traditional systems. Now you can monitor practically all functions of your refrigeration system and diagnose problems from one panel interface. Controllers are standard equipment on many cabinets and merchandisers as well as an option in our walk-in refrigeration systems.

Benefits of Electronic Controller Boards

Increased Reliability
Because many mechanical parts are replaced with solid state technology, the reliability of the refrigeration system is greatly increased. Fewer parts also mean fewer potential problems and service calls. Downtime, when necessary, is greatly reduced.

Convenience
All control board functions and diagnostics are accessed through a simple-to-use panel display mounted on the cabinet or on the walk-in evaporator. An optional remote panel display is available for walk-in coolers and freezers.

Accuracy
Electronic controller board technology allows a vastly higher degree of precision over conventional methods when adjusting defrost and temperature settings.

Quicker Installation
Installation time is reduced because all the electrical components are pre-installed and tested at the factory. Because field assembly is minimal, you save on installation costs and wiring time as well.

Pre-set for Common Applications
Common industry temperature and defrost presets are already programmed into the control board. Just hook up the electrical supply and you're in business.

Demand Defrost: A Giant Leap in Efficiency

Eliminate unnecessary defrosts with Master-Bilt's revolutionary demand defrost technology featured in the optional Master Controller system for walk-ins.

Demand defrost offers an efficient alternative to the conventional defrosting method. Traditional refrigeration systems are preset to defrost at certain times of the day regardless of the amount of frost buildup on the evaporator coil.

Frost accumulation, however, is not always consistent. It is influenced by changeable conditions like ambient temperature, humidity and product load. If a defrost is initiated before a significant amount of frost accumulates, the result is wasted energy.

Conversely, demand defrost constantly checks for the buildup of ice on an evaporator coil to determine if defrosting is required. If a defrost is needed only then are the defrost heaters energized.

Our extensive laboratory tests indicate that many unnecessary defrosts can be eliminated and electricity consumption dramatically reduced. In some applications, up to 26% energy savings is possible.