

ELECTRONIC CONTROLLER SYSTEMS

For Cabinets & Merchandisers



From

MB MASTER-BILT[®]
Refrigeration Solutions

Electronic controller systems, a standard feature on many Master-Bilt cabinets and merchandisers, take refrigeration control to the next degree.

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

All control board functions and diagnostics are accessed through a simple-to-use panel display mounted on the cabinet. No need for manually adjusting mechanical timers or other components. Electronic controllers also allow a higher degree of precision over conventional methods when adjusting defrost and temperature settings.

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

Controller Features

- Controllers are standard on many models.
Consult individual spec sheets or operations manuals to determine if equipped.
- Solid state control for increased product reliability
- Digitally displays temperature, time and built-in diagnostics
- Regulates room temperature and defrost settings
- Pre-programmed settings for common industry applications
- Time defrost
- Audible and visual alarms
- Three relay outputs: compressor, defrost and evaporator fan
- Input voltage: 115V/208V/230V/1PH/50Hz/60Hz

Mechanical Parts Eliminated

- Room thermostat
- Defrost termination and fan delay control
- Defrost timer
- Compressor contactor when the freezer amp draw is less than 16 amp, single phase
- Digital temperature display or other temperature indicator

Parts Added (Factory-mounted)

- Controller with LED readout and setup keys
- Two solid state temperature sensors

Panel Interface Features*



- ❄️ **Thermostat output.** Light next to this symbol indicates thermostat is in operation.
- 🌀 **Fan output.** Light indicates fans are running.
- ❄️ **Defrost output.** Light indicates cabinet is in defrost mode.
- 🔔 **Alarm**

Info/Setpoint button

Manual activation/Increase button

Manual defrost/Decrease button

Exit/Stand-by button

***Panel interface layout may vary.**

Cabinet System Diagram

