

Keep food safe
while reducing
energy &
installation costs



MASTER CONTROLLER REVERSE CYCLE DEFROST SYSTEM

The Master Controller Reverse Cycle Defrost (MCRCDD) system is an electronic controller for Master-Bilt walk-in cooler and freezer refrigeration systems. It is designed to increase food safety while reducing energy and installation costs.

FOOD SAFETY

- The reverse cycle defrost function helps prevent food spoilage because it completely and rapidly removes the ice build-up in evaporator coils that lowers performance. Reverse cycle works from the inside of the coil outward compared to less efficient methods that work from the outside in.
- Should there be an issue with the refrigeration system, operators will know instantly through error codes and data provided through online Web2Walk-In software.

INSTALLATION SAVINGS

- No wiring is required between evaporator coils and condensing units (two pairs of low voltage wires, typically thermostat cables, are required to operate the Reverse Cycle Defrost valve and the compressor relay at the condensing unit).
- A system with MCRCDD uses less refrigerant with no winter charge necessary.
- In some cases, the savings on wiring installation alone covers the cost of the MCRCDD.



The Master Controller Reverse Cycle Defrost control board is factory installed inside the evaporator coil with an easy to use interface mounted on the outside. The coil features a removable side panel for access to the control board.

ENERGY SAVINGS

- Patented design saves up to 27% more energy than an all-mechanical system.
- Reverse cycle technology reduces defrost energy usage by up to 80% over traditional electric heaters.
- Demand Defrost technology initiates reverse cycle defrosts only as needed, allowing further energy savings.
- Defrost time, when initiated, is also greatly shortened. The average defrost time for a freezer with electric heaters is 20-30 minutes. Reverse cycle can perform a defrost in as little as 3-5 minutes in a freezer or 1 $\frac{1}{2}$ -2 minutes in a cooler. Shorter defrost times also help protect food integrity.
- Save 2-4% more energy with the fan cycle option which saves electricity by cycling the evaporator fans during the compressor's off cycle.

CONNECTIVITY

- Web2Walk-In software loaded on each controller allows remote monitoring and programming using any device with a wireless internet or cabled (cat 5) connection.
- No need for a service tech to climb onto a roof or enter the walk-in to monitor or adjust the refrigeration system.
- Constant access to data allows users to improve refrigeration system performance and avoid service issues.



Master-Bilt's Web2Walk-In software gives users constant access to refrigeration system performance data. Web2Walk-In can be accessed from any device with an internet connection, including PC, Mac, smartphone or tablet.



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