



Master-Bilt® initiated our Energy Saver program to help you quickly identify features that serve your efficiency needs. Below is a list of features and options included in the program.



See www.master-bilt.com/products/energy_saver.htm for future updates.

Product/Feature	Energy-Saving Function	Where Used
Meets Department of Energy 2017 Standards	Cabinets and merchandisers designed for optimum energy efficiency.	Cabinets and merchandisers
ENERGY STAR® qualification	Cabinet refrigeration systems designed for optimum energy efficiency and may be eligible for rebate programs.	Select cabinets & merchandisers
Demand defrost	Initiates electric defrost heaters only as needed	As part of the optional Master Controller Reverse Cycle Defrost electronic control system on walk-ins
Electric expansion valve	Highly efficient valve eliminates need to maintain a high head pressure (head pressure control valve eliminated also) allowing a lower head pressure and condensing temperature. A compressor operating at a lower condensing temperature yields higher capacity with less energy input.	As an integrated part of the optional Master Controller Reverse Cycle Defrost system for walk-ins and in Super Controller
Reverse cycle defrost	A reverse cycle valve reverses the flow of high temperature refrigerant through evaporator coil, heating along its entire length and eliminating frost buildup. Results in up to an 80% decrease in defrost energy usage as well as a major reduction in defrost time.	As an integrated part of the optional Master Controller Reverse Cycle Defrost system for walk-ins
LED lighting	LEDs use less electricity than fluorescent lights with electromagnetic ballasts and introduce less heat into the refrigerated space which reduces the workload on the refrigeration system's compressor. The less the compressor operates, the more energy is saved. LEDs also last up to 50,000 hours.	Standard in numerous cabinets and in all walk-ins
MBWA-1 digital alarm/light management system	Door open alarm prevents door from being left open. Optional light management system automatically turns off lights after a programmed interval.	An option on walk-in coolers and freezers
Glass Sentry II	The Glass Sentry II anti-sweat control module is designed to save energy by turning off glass door and frame heaters when no door heat is necessary.	An option on glass door walk-in coolers and freezers
EC motors on fans	Amount of torque and current required to start ECMs is low, making them more efficient. ECMs run cooler, reducing heat load to refrigerated space which makes the compressor run less.	Standard on single phase walk-in evaporator coils and numerous cabinets
4" thick walk-in panels	Standard 4-inch panel with R-32 rating meets federal EISA requirements for freezers and surpasses R-25 requirements for coolers.	Standard thickness on all walk-in coolers and freezers
5" and 6" thick walk-in panels	Thickness of panels produces a higher R-factor and energy efficiency which surpasses federal EISA requirements. 6-inch panels also meet "LEED 2009 for Retail: New Construction and Major Renovations" requirements.	An option on walk-in coolers and freezers
Low energy or energy free standard walk-in entry doors	V-series doors have a PVC thermal break between the door and frame which minimizes heat transfer between the refrigerated space and the outside. Cooler doors don't require anti-sweat heat and freezer doors only require a low wattage heater in the frame.	Standard on walk-in coolers and freezers
Scroll compressors	Up to 20% increase in efficiency vs. reciprocating compressors. Scrolls are also 50% more reliable than reciprocating types.	Optional on walk-in cooler and freezer refrigeration systems and in rack systems
MRS & DRS series multi-compressor remote refrigeration systems	Since these systems are remote, the heat produced by multiple condensing units is removed from the kitchen or sales space reducing the air conditioning load and energy bill	Walk-ins and cabinets with remote refrigeration systems
PS series multi-compressor parallel refrigeration systems	Parallel units can match refrigeration capacity to actual load for a 20%+ savings over a single compressor unit.	Walk-ins and cabinets with remote refrigeration systems