



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.

Feature	Energy-Saving Function	Where Used
Demand defrost	Initiates electric defrost heaters only as needed	As part of the optional Master Controller 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 system for walk-ins
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 an 80% decrease in defrost energy usage as well as a major reduction in defrost time.	An option used in conjunction with the Master Controller on walk-ins
T8 electronic and LED lighting	Both types use less electricity than fluorescent lights with electromagnetic ballasts. Both 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 optional in select cabinets, T8 with electronic ballasts standard in numerous cabinets and glass door walk-in freezers
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
Permanent Split Capacitor (PSC) Fan Motors	Amount of torque and current required to start PSC motors is low, making them more efficient. PSC motors run cooler, reducing heat load to refrigerated space which makes the compressor run less.	Optional on single phase walk-in unit coolers and standard on condensing units
5" and 6" thick panels	Thickness of panels produces a higher R-factor and energy efficiency required by California Energy Code	An option on walk-in coolers and freezers
Scroll compressors	Approximate 20% increase in efficiency	Optional on walk-in cooler and freezer refrigeration systems, standard on parallel 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. The lead compressor is a digital scroll which better matches capacity needs and provides a 3% energy saving over standard parallel units. Subcooling increases refrigerant efficiency on low temp applications by approximately 17%.	Walk-ins and cabinets with remote refrigeration systems