



See page 2.



See page 4.

**BILT2SPEC**<sup>™</sup>  
Custom Walk-In Coolers, Freezers  
& Refrigerated Warehouses

# Explore Master-Bilt's Many Advantages

## Flexibility in Application

Master-Bilt walk-ins are engineered with flexibility to meet your needs across a wide variety of applications including:

- Convenience stores
- Restaurants
- Institutional and corporate cafeterias
- Processing facilities
- Data storage facilities
- Scientific testing chambers
- Telecommunications housing and many others

## Flexibility in Size

From a minimum 6 x 6 foot size to the more elaborate 10,000 square foot warehouses, Master-Bilt walk-ins can be customized to provide the right amount of temperature-controlled space. Basic modular panel sizes and heights, as well as many options, offer the right flexibility to fulfill any design requirement.

## LEED Walk-Ins Sold Here

Master-Bilt supplies walk-in coolers and freezers that meet or exceed the U.S. Green Building Council's LEED prescriptives as detailed in "LEED 2009 for Retail: New Construction and Renovations."

For more details, visit [www.master-bilt.com/customer-support/energy-savers/master-bilt-leed](http://www.master-bilt.com/customer-support/energy-savers/master-bilt-leed).

## Flexibility in Options

Using our wide range of options, you can make your walk-in an extension of your business personality. Numerous interior and exterior finish options adapt to decor or durability requirements. Choose from many refrigeration system options to reliably and efficiently cool your stored products. Many door accessories and other add-on features are also available to increase convenience and ease of use.

2

## Quick Answers to Storage Needs

*When rapid delivery or installation is the highest priority, Master-Bilt has the right options.*



### Quick Ship Walk-ins

These walk-ins ship within five working days after an order is received.

Basic options include standard four wall coolers or freezers and two-compartment combos.

Choose from hundreds of freezer and cooler configurations ranging in size from 3'11" x 5'10" up to 9'8" x 32'8".

Refrigeration options include either a remote M-Series system or a PRS-2 packaged system.



### 10-Bilt® Walk-ins

10-Bilt® walk-ins include all the features of the Quick Ship program plus additional sizes and options. These coolers, freezers and combinations ship within 10 business days after order receipt.

10-Bilt® models are available in unlimited Master-Bilt standard lengths and ship with either remote M-Series or PRS-2 packaged refrigeration systems.



### Ready-Bilt™ Walk-ins

These walk-ins are completely factory pre-assembled and ready to set in place at the job site. They are delivered typically by gooseneck truck with no field installation necessary. Just provide electricity for a single source hook up (one per refrigeration system) and the walk-in is ready to use.



*From convenience stores to foodservice kitchens to refrigerated warehouses, Master-Bilt walk-ins can be configured to fit practically any application.*

## Strength and Safety Tested

You can be assured of strength, durability and safety with Master-Bilt because of rigorous testing by UL and other agencies.

Master-Bilt doors, for example, are both UL and C-UL listed while standard floors with textured aluminum surface fully meet NSF sanitation guidelines.

## Master-Bilt Warranty

Service shouldn't end after the sale. That's why Master-Bilt's standard warranty covers workmanship and protects against insulation failure. Should there be a need for service, we can easily locate an agent in our network of service centers across the U.S.

## Refrigerated Warehouses: A Complete Solution

Coordinating all the construction details for refrigerated warehouses can be challenging. Master-Bilt makes the job much easier with one source service for panels, refrigeration and installation.

Experienced sales and design personnel will work with you to determine your needs at each stage of construction. From the first steel beam to the last insulated panel, Master-Bilt ensures your specifications are met. Plus, we are always ready to assist with future modifications or expansions.



*Master-Bilt walk-ins provide ample storage space for refrigerated items. Interior welded wire shelves are available to further increase your storage capacity.*

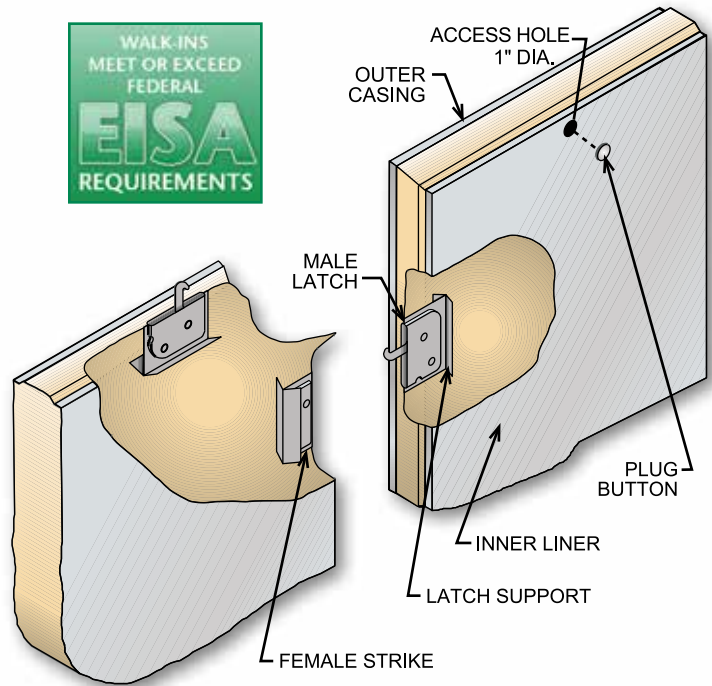
# Panels That Perform

## Panel Basics

Standard Master-Bilt walk-in panels are four inches thick with optional five-inch and six-inch thicknesses available. Panels above 10 ft. in height have scored ribs spaced  $5\frac{3}{4}$ " apart for added rigidity. Standard panels below 10 ft. in height are provided without ribs but have them available as an option. The standard panel finish is 26 gauge acrylic-coated stucco galvanized steel. However, there are numerous options in interior and exterior finishes to match your design scheme or durability requirements.

## Cam-Lock System

The Master-Bilt cam-locking system, together with tongue and groove construction and a dual gasket system, provides an accurate, tight fit between panels. Locks require only a factory-supplied  $\frac{5}{16}$ -inch hex wrench to operate. Should the walk-in need relocation or expansion, panels can be taken apart as easily as they are assembled.



## Foamed-in-place Insulation

Master-Bilt uses foamed-in-place polyurethane insulation to deliver the highest quality panels. Advantages of this construction method include:

- Per DOE requirements, panels are designed and certified for use in walk-in cooler and freezer applications.
- Standard 4-inch panels with R-32 rating meet federal requirements for freezers and surpasses R-25 requirement for coolers. Optional 5- and 6-inch thicknesses surpass both requirements.
- Polyurethane foam permanently adheres to metal panels adding strength and reliability
- Superior moisture resistance due to polyurethane's 97% closed cell content
- Maximum walk-in storage space because polyurethane foam allows for thinner walls
- Energy efficiency due to polyurethane's greater temperature-retaining properties
- An environmentally-friendly 245fa blowing agent with zero ozone depletion potential
- For added insurance against foam voids, Master-Bilt utilizes horizontal presses so panels lie flat during the foaming process and the injected foam doesn't have to rise as far



*(Left) Master-Bilt cam-lock construction makes it easy to assemble a walk-in. Simply set the panels in place and activate the locks with a factory-provided wrench.*

## Raising The Standard In Floors

Durability and safety are two of the major concerns with walk-in floors. We've gone the extra mile to make sure your floor is both safe enough and strong enough for your everyday usage.

To begin with, all floors are standard with a .080 textured aluminum surface. The added traction provided by the raised surface pattern reduces the potential of slip-and-fall accidents, even in wet conditions.

Because the surface pattern is designed to be easily cleaned, it fully meets NSF guidelines.



Corners in floor panels are also coved to avoid trapping contaminants.

Standard floors support 700 pounds per square foot (evenly distributed stationary load). Reinforced floors can be provided in case of frequent traffic from

heavy handcarts, dollies or forklifts.

Customize your floor with our large range of options. Interior and exterior ramps (provided with non-skid safety strips), floor mats and a range of finishes are just a few of many possibilities.

Master-Bilt can supply up to a 23 ft. long ceiling panel in 6-inch thickness with no additional panel support required.

### Maximum Panel Heights & Widths

PANEL THICKNESS	WALL PANEL MAX. HEIGHT ACTUAL	CEILING PANEL MAX. WIDTH ACTUAL
4 in. (standard)	27 ft. <sup>1</sup>	20 ft. <sup>2</sup>
5 in.	24 ft. <sup>1</sup>	24 ft. <sup>3</sup>
6 in.	24 ft. <sup>1</sup>	24 ft. <sup>4</sup>

<sup>1</sup>Additional support may be required when exceeding 18'0"

<sup>2</sup>Additional support may be required when exceeding 15'5"

<sup>3</sup>Additional support may be required when exceeding 19'3"

<sup>4</sup>Additional support may be required when exceeding 23'1"

#### Note:

Dimensions shown are for indoor applications only and predicated upon 10 lbs. per square foot roof and/or side wall loading. Dimensions are subject to change depending on specific application and local building authority official's approval.

### Panel Efficiency Rating

	R10	R20	R30	R40	R50
4" Thick (102 mm)	Master-Bilt® Polyurethane Panel		R32		
	EPS Polystyrene Panel				
5" Thick (127 mm)	Master-Bilt® Polyurethane Panel			R40	
	EPS Polystyrene Panel				
6" Thick (152 mm)	Master-Bilt® Polyurethane Panel				R48
	EPS Polystyrene Panel				

(Above) The R-value rating is a standard method of determining insulation efficiency and Master-Bilt's foamed-in-place polyurethane consistently scores higher. All panels meet or surpass these minimum R-values required by the DOE:

- Cooler walls, ceilings and doors: R-25
- Freezer walls, ceilings and doors: R-32
- Freezer floors: R-28

# The Doorway to Reliability

## The Most Critical Component

No other part of a walk-in plays a bigger role in its overall success than the door. As a barricade between your perishable items inside and warmer temperatures outside, the door must withstand the numerous openings and closings of a typical business day without losing structural integrity. That's why Bilt2Spec walk-ins include a heavy-duty ColdSeal Max® entry door to ensure dependable service for many years.

## Strong, Innovative Construction

At the core of ColdSeal Max doors is a welded, structural anodized aluminum rigid frame. A heavy duty, molded ABS breaker strip is also foamed-in-place in each door to prevent heat transfer from outside the walk-in.

Self-closing, spring-loaded, cam-lift hinges provide an easier, more positive door closure. These hinges are available for either a left- or right-hand opening door.



Master-Bilt ColdSeal Max doors can be customized with kickplates and other options to fit your application.

## ColdSeal Max Doors: Designed For A Lifetime Of Service

*Constructed for convenience and years of reliable service even in the most demanding environments.*



### LED Lighting

- Uses less energy and lasts up to 50,000 hours vs. 1000 hours for incandescent bulbs.
- Mounted at the interior top of the door to avoid blockage from shelves and stored items & provide full illumination.
- Minimal heat output reduces cooling costs.



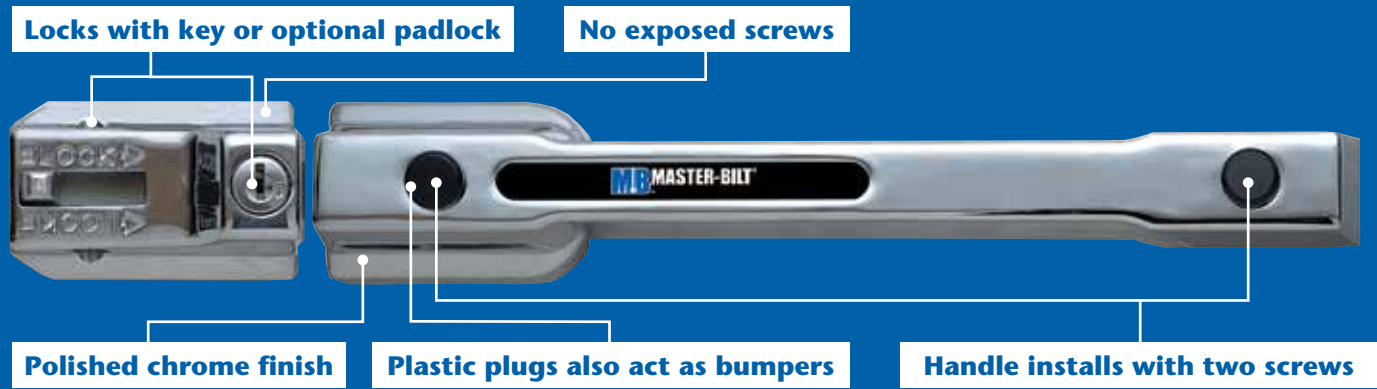
### Digital Thermometer/ Light Switch

- Conveniently integrated into one component.
- Waterproof "elbow-engaged" illuminated light switch allows user to turn on the light easily, even when their hands are full.
- The digital display is easy to read in all ambient conditions.



### Durable Hinges

- Field adjustable to compensate for door settling during install or after.
- Cam-lift, spring loaded hinges help ensure doors close completely.



A standard deadbolt-locking handle on all ColdSeal Max™ doors offers extra security without extra cost.

Other standard features include a deadbolt locking handle, a heavy-duty spring-actuated door closer and an interior safety release to prevent accidental entrapment.

ColdSeal Max doors installed on walk-in freezers also contain an anti-sweat heater wire around the entire perimeter of the door opening and under the threshold to avoid door freeze-ups.

All electrical components (light switch, light fixture, freezer door heaters and frame heaters) are factory installed and pre-wired. Additionally, the complete door section is UL listed and CSA certified.

Per DOE requirements, doors are designed and certified for use in walk-in cooler and freezer applications.

### Customize Your Door

Many options and accessories are available to extend functionality in your Master-Bilt door. Choices include:

- Third hinges
- View windows
- Temperature alarms
- Kick plates
- Strip curtains or vinyl doors
- Light management systems
- Interior and exterior floor ramps
- Foot treadle
- Heavy-duty door closer



ColdSeal Max doors provide a heavy-duty solution with a welded, structural anodized aluminum rigid frame.

# Options and Accessories

## Options for Every Walk-in Aspect

Add to the efficiency and convenience of your walk-in or warehouse with our many options.

Panel options include foamed-in-place three-inch wide metal straps inside panels spanning the width of a panel and welded on each end to cam-locks. Straps increase the overall integrity of the walk-in by resisting twisting and bending in the panels.

You may also accessorize your panels with wall protectors, view windows and swinging or sliding glass merchandising doors.

If desired, you can provide your own insulated concrete flooring and use Master-Bilt floor screeds or flat bottom walls to provide a positive seal between the concrete and panels. Heavy-duty reinforced floors or structural floors capable of supporting 5000 lbs. evenly distributed are also available.

Lighting options include 9", 24" and 48" long ceiling mounted LED fixtures.

Master-Bilt's MBWA-1 option provides an all-in-one answer for digital thermometer, alarm and light management. In addition to a digital alarm feature, The MBWA-1 warns if doors are left open or if temperatures get out of range. Its optional light

management system automatically shuts off lights at a pre-set time.

For maximum efficiency in walk-in refrigeration systems, add Master-Bilt's Master Controller Reverse Cycle Defrost system. This electronic system is custom-designed to decrease energy while simplifying installation. For more information see "Mastering Efficiency" on page 11.

## Finish Options

Master-Bilt's standard panel finish is 26 ga. acrylic-coated stucco galvanized steel. It provides the most durable surface available for prolonging the life, performance and appearance of your walk-in.

However, we also offer numerous other interior and exterior finishes to choose from such as:

- Stucco aluminum
- Stainless steel
- Stucco stainless or galvanized steel
- 24 ga. galvanized steel
- Natural aluminum
- White aluminum or galvanized steel
- White stucco aluminum or galvanized steel
- 24 gauge black textured Seville



*Master-Bilt structural flooring is designed to withstand a pallet jack (or equivalent transporter) with an evenly distributed load of 5000 lbs. over all four wheels.*



*Kick plates protect doors and other panels from dents and scratches.*



*The MBWA-1 is an all-in-one alarm, thermometer and light management system.*



*Interior and exterior ramps make it easy to enter the walk-in.*



# Standard Exterior Dimensions

## LENGTHS & WIDTHS

NOMINAL	ACTUAL	NOMINAL	ACTUAL	NOMINAL	ACTUAL	NOMINAL	ACTUAL	NOMINAL	ACTUAL	NOMINAL	ACTUAL
6'	5'10"	56'	53'9"	106'	101'8"	156'	149'7"	206'	197'6"	256'	245'5"
7'	6'9 1/2"	57'	54'8 1/2"	107'	102'7 1/2"	157'	150'6 1/2"	207'	198'5 1/2"	257'	246'4 1/2"
8'	7'9"	58'	55'8"	108'	103'7"	158'	151'6"	208'	199'5"	258'	247'4"
9'	8'8 1/2"	59'	56'7 1/2"	109'	104'6 1/2"	159'	152'5 1/2"	209'	200'4 1/2"	259'	248'3 1/2"
10'	9'8"	60'	57'7"	110'	105'6"	160'	153'5"	210'	201'4"	260'	249'3"
11'	10'7 1/2"	61'	58'6 1/2"	111'	106'5 1/2"	161'	154'4 1/2"	211'	202'3 1/2"	261'	250'2 1/2"
12'	11'7"	62'	59'6"	112'	107'5"	162'	155'4"	212'	203'3"	262'	251'2"
13'	12'6 1/2"	63'	60'5 1/2"	113'	108'4 1/2"	163'	156'3 1/2"	213'	204'2 1/2"	263'	252'1 1/2"
14'	13'6"	64'	61'5"	114'	109'4"	164'	157'3"	214'	205'2"	264'	253'1"
15'	14'5 1/2"	65'	62'4 1/2"	115'	110'3 1/2"	165'	158'2 1/2"	215'	206'1 1/2"	265'	254'1 1/2"
16'	15'5"	66'	63'4"	116'	111'3"	166'	159'2"	216'	207'1"	266'	255'0"
17'	16'4 1/2"	67'	64'3 1/2"	117'	112'2 1/2"	167'	160'1 1/2"	217'	208'1 1/2"	267'	255'11 1/2"
18'	17'4"	68'	65'3"	118'	113'2"	168'	161'1"	218'	209'0"	268'	256'11"
19'	18'3 1/2"	69'	66'2 1/2"	119'	114'1 1/2"	169'	162'1 1/2"	219'	209'11 1/2"	269'	257'10 1/2"
20'	19'3"	70'	67'2"	120'	115'1"	170'	163'0"	220'	210'11"	270'	258'10"
21'	20'2 1/2"	71'	68'1 1/2"	121'	116'1 1/2"	171'	163'11 1/2"	221'	211'10 1/2"	271'	259'9 1/2"
22'	21'2"	72'	69'1"	122'	117'0"	172'	164'11"	222'	212'10"	272'	260'9"
23'	22'1 1/2"	73'	70'1 1/2"	123'	117'11 1/2"	173'	165'10 1/2"	223'	213'9 1/2"	273'	261'8 1/2"
24'	23'1"	74'	71'0"	124'	118'11"	174'	166'10"	224'	214'9"	274'	262'8"
25'	24'1 1/2"	75'	71'11 1/2"	125'	119'10 1/2"	175'	167'9 1/2"	225'	215'8 1/2"	275'	263'7 1/2"
26'	25'0"	76'	72'11"	126'	120'10"	176'	168'9"	226'	216'8"	276'	264'7"
27'	25'11 1/2"	77'	73'10 1/2"	127'	121'9 1/2"	177'	169'8 1/2"	227'	217'7 1/2"	277'	265'6 1/2"
28'	26'11"	78'	74'10"	128'	122'9"	178'	170'8"	228'	218'7"	278'	266'6"
29'	27'10 1/2"	79'	75'9 1/2"	129'	123'8 1/2"	179'	171'7 1/2"	229'	219'6 1/2"	279'	267'5 1/2"
30'	28'10"	80'	76'9"	130'	124'8"	180'	172'7"	230'	220'6"	280'	268'5"
31'	29'9 1/2"	81'	77'8 1/2"	131'	125'7 1/2"	181'	173'6 1/2"	231'	221'5 1/2"	281'	269'4 1/2"
32'	30'9"	82'	78'8"	132'	126'7"	182'	174'6"	232'	222'5"	282'	270'4"
33'	31'8 1/2"	83'	79'7 1/2"	133'	127'6 1/2"	183'	175'5 1/2"	233'	223'4 1/2"	283'	271'3 1/2"
34'	32'8"	84'	80'7"	134'	128'6"	184'	176'5"	234'	224'4"	284'	272'3"
35'	33'7 1/2"	85'	81'6 1/2"	135'	129'5 1/2"	185'	177'4 1/2"	235'	225'3 1/2"	285'	273'2 1/2"
36'	34'7"	86'	82'6"	136'	130'5"	186'	178'4"	236'	226'3"	286'	274'2"
37'	35'6 1/2"	87'	83'5 1/2"	137'	131'4 1/2"	187'	179'3 1/2"	237'	227'2 1/2"	287'	275'1 1/2"
38'	36'6"	88'	84'5"	138'	132'4"	188'	180'3"	238'	228'2"	288'	276'1"
39'	37'5 1/2"	89'	85'4 1/2"	139'	133'3 1/2"	189'	181'2 1/2"	239'	229'1 1/2"	289'	277'1 1/2"
40'	38'5"	90'	86'4"	140'	134'3"	190'	182'2"	240'	230'1"	290'	278'0"
41'	39'4 1/2"	91'	87'3 1/2"	141'	135'2 1/2"	191'	183'1 1/2"	241'	231'1 1/2"	291'	278'11 1/2"
42'	40'4"	92'	88'3"	142'	136'2"	192'	184'1"	242'	232'0"	292'	279'11"
43'	41'3 1/2"	93'	89'2 1/2"	143'	137'1 1/2"	193'	185'1 1/2"	243'	232'11 1/2"	293'	280'10 1/2"
44'	42'3"	94'	90'2"	144'	138'1"	194'	186'0"	244'	233'11"	294'	281'10"
45'	43'2 1/2"	95'	91'1 1/2"	145'	139'1 1/2"	195'	186'11 1/2"	245'	234'10 1/2"	295'	282'9 1/2"
46'	44'2"	96'	92'1"	146'	140'0"	196'	187'11"	246'	235'10"	296'	283'9"
47'	45'1 1/2"	97'	93'1 1/2"	147'	140'11 1/2"	197'	188'10 1/2"	247'	236'9 1/2"	297'	284'8 1/2"
48'	46'1"	98'	94'0"	148'	141'11"	198'	189'10"	248'	237'9"	298'	285'8"
49'	47'1 1/2"	99'	94'11 1/2"	149'	142'10 1/2"	199'	190'9 1/2"	249'	238'8 1/2"	299'	286'7 1/2"
50'	48'0"	100'	95'11"	150'	143'10"	200'	191'9"	250'	239'8"	300'	287'7"
51'	48'11 1/2"	101'	96'10 1/2"	151'	144'9 1/2"	201'	192'8 1/2"	251'	240'7 1/2"		
52'	49'11"	102'	97'10"	152'	145'9"	202'	193'8"	252'	241'7"		
53'	50'10 1/2"	103'	98'9 1/2"	153'	146'8 1/2"	203'	194'7 1/2"	253'	242'6 1/2"		
54'	51'10"	104'	99'9"	154'	147'8"	204'	195'7"	254'	243'6"		
55'	52'9 1/2"	105'	100'8 1/2"	155'	148'7 1/2"	205'	196'6 1/2"	255'	244'5 1/2"		

## HEIGHTS

4" THICK PANELS				5" THICK PANELS				6" THICK PANELS			
WITH FLOOR OR SCREED		LESS FLOOR		WITH FLOOR OR SCREED		LESS FLOOR		WITH FLOOR OR SCREED		LESS FLOOR	
7'6"	7'2"	20'0"	32'8"	7'8"	7'3"	20'1"	32'9"	7'10"	7'4"	20'2"	32'10"
8'6"	7'6"	21'0"	33'8"	8'8"	7'7"	21'1"	33'9"	8'10"	7'8"	21'2"	33'10"
10'0"	8'2"	22'0"	34'8"	10'2"	8'3"	22'1"	34'9"	10'4"	8'4"	22'2"	34'10"
12'0"	8'6"	23'0"	35'8"	12'2"	8'7"	23'1"	35'9"	12'4"	8'8"	23'2"	35'10"
14'0"	9'8"	24'0"	36'8"	14'2"	9'9"	24'1"	36'9"	14'4"	9'10"	24'2"	36'10"
	11'8"	25'0"	37'8"		11'9"	25'1"	37'9"		11'10"	25'2"	37'10"
	13'8"	26'0"	38'8"		13'9"	26'1"	38'9"		13'10"	26'2"	38'10"
	15'0"	27'0"	39'8"		15'1"	27'1"	39'9"		15'2"	27'2"	39'10"
	16'0"	28'0"	40'8"		16'1"	28'1"	40'9"		16'2"	28'2"	40'10"
	17'0"	29'4"	41'8"		17'1"	29'5"	41'9"		17'2"	29'6"	41'10"
	18'0"	30'4"			18'1"	30'5"			18'2"	30'6"	
	19'0"	31'8"			19'1"	31'9"			19'2"	31'10"	

# Customized Refrigeration Systems

## Basic Remote, Multi-Compressor and Parallel Rack Systems

Master-Bilt condensing unit choices range from M-series basic remote units to MRS or DRS series multi-compressor to PS series parallel rack systems.

M-Series models are specially designed to function in high temperature environments. Package options on the basic standard remote unit include a factory pre-charged system with quick-connect liquid and suction line sets up to 50 ft.

M-Series units are available in hermetic and compliant scroll compressor models, with or without matching evaporator coils. They are factory assembled on a galvanized steel angle leg base and range from 1/4 to 15 HP. Additionally, dedicated medium temp outdoor condensing units meet the DOE requirement of a minimum AWEF rating of 7.61 (Btu/W-h).

MRS series modular multi-compressor systems allow users to remote all refrigeration units in an establishment, including reach-ins, walk-ins and prep units, to a single outside system. This reduces inside heat and air conditioning load as well as noise level.

Each MRS system is composed of individual modules containing a condenser, compressor, generously-sized receiver and other appropriate components all enclosed within a single galvanized steel housing (optional stainless steel finish available).

Factory pre-wired to an electrical panel for one-point connection, MRS systems are designed to be easily installed.

When a two-compressor system is required, the DRS series offers an economical advantage. While smaller in scale, DRS models share many construction features with MRS models and fit similar applications.

PS series parallel rack systems include a wide range of compressor choices, including digital scrolls, to better match capacity and budget needs while providing the most energy efficient, environmentally friendly system. Parallel units match refrigeration capacity to actual load which amounts to a 20%+ savings over a single compressor unit.

GPS series glycol parallel rack systems use a highly efficient combination of refrigeration system and glycol loop technology to cool refrigeration equipment in foodservice and retail environments.

## PRS-2 Series Packaged Systems

The PRS-2 series combines a condensing unit and evaporator coil into one unit with everything ready to mount on the top of your Master-Bilt walk-in. Standard features include a condensate evaporator pan on most indoor models (shipped loose on PHHZ0100 models) also a crankcase heater, drainline heater, head master and weather hood on outdoor models.



*From small walk-ins to the more demanding refrigerated warehouses (left), Master-Bilt can design a refrigeration system to fit your custom requirements.*

## Cold Controlled

The Master Controller Reverse Cycle Defrost (MCRCD) electronic control system brings a new level of efficiency and reliability to your refrigeration system by replacing certain mechanical parts with solid state electronic components.

Lab tests show a **Master Controller**

*The MCRCD system is optional on walk-in coolers and freezers.*



*Integrated Web2Walk-In software gives users constant access to refrigeration system performance data. Web2Walk-in can be accessed from any device with an internet connection.*

**Reverse Cycle Defrost-equipped system can save up to 27% more energy** over a conventional system depending on the application.

Installation time and labor costs are significantly reduced because all electrical components are factory pre-wired.

The MCRCD control

board, mounted to an evaporator coil, is part of a refrigeration system also containing an electric expansion valve, a single or multi-compressor condensing unit and one or more evaporators.

Built-in reverse cycle defrost is a patented innovation (U.S. patent no. 7,073,344) that uses a reverse cycle valve to switch the direction of refrigerant flow during defrost and eliminate frost buildup **while reducing defrost energy usage by up to 80%.**

Standard demand defrost technology initiates reverse cycle defrosts only as needed, for further energy savings.



*Master-Bilt's range of refrigeration system choices includes single remote condensing units and evaporator coils, packaged systems, multi-compressor units and parallel rack systems.*



For the latest product information and specifications go to [www.master-bilt.com](http://www.master-bilt.com).



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Due to continuous product enhancements, we reserve the right to change specifications without notice.

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