



10-Bilt®

Walk-In Coolers & Freezers With Matching Refrigeration Systems

FEATURES

CONSTRUCTION

- Models ship within 10 working days after order is received
- 4" thick panels
- Coolers, freezers and combo units available
- Indoor and outdoor models available
- Single compartment walk-in widths range from 5'10" to 13'6" (widths of 11'7" to 13'6" recommended for indoor installations only, consult factory for more information)
- Unlimited standard Master-Bilt® lengths
- Single compartments available in heights of 7'2", 7'6", 8'2" and 8'6"
- Single compartments available with or without a floor
- Combo walk-ins range in widths from 5'10" to 13'6" and in heights of 7'6" and 8'6". Any standard Master-Bilt® length available when using remote refrigeration systems (maximum single compartment length for PRS-2 applications is 13'6")
- Odd foot nominal increments
- Combo units available in with-floor freezer/less-floor cooler and with-floor freezer/with-floor cooler

- Choice of 26", 30" or 36" width V-Series door
- Interior and exterior wall and roof finish is 26 gauge acrylic coated stucco galvanized steel
- .080 textured aluminum interior floor finish, where required

REFRIGERATION

- Refrigeration available in either pre-assembled remote M-Series systems or PRS-2 packaged systems with standard duty and heavy duty options
- Outdoor models include a weather hood, membrane covering for the walk-in roof and rain canopy for the entry door
- Most indoor models with PRS-2 systems include a power cord so the unit can be plugged in and with no piping or components to field install

WARRANTY

- One-year limited parts and labor, four-year extended compressor, 15 year panel

OPTIONS

- Door & frame kickplates (factory-mounted)
- 4 foot fluorescent light fixtures – shipped loose (less bulbs)
- 4 foot LED light fixtures (shipped loose)
- Vinyl strip curtains for entry doors (shipped loose)
- Exterior floor ramps
- Interior floor ramps (Centered in the width, or "short" dimension for even nominal sized single compartment and with-floor combos. Offset on odd-sized models. Centered in the partition for with-floor/less-floor combos.)
- 14" x 14" view windows for coolers and freezers (freezer windows are heated)
- MBWA-1 controller
- LED light fixture (in lieu of CFL fixture)
- Third hinge
- Tamper-proof screws
- Heated and insulated receivers on remote refrigeration units



10-BILT®

WALK-IN COOLERS & FREEZERS WITH MATCHING REFRIGERATION SYSTEMS

SPECIFICATIONS

1. 10-Bilt® Walk-in Coolers or Freezers

A. General

Walk-ins under this program will be constructed of prefab, precision formed, modular panels designed for accurate, rapid field assembly and in compliance with the general construction as described in the *Master-Bilt® Architectural Specifications and General Design Information* binder.

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

Walk-ins and refrigeration systems under this program will be available for shipment within ten (10) working days of received order.

B. Insulation

Insulation will be 4" thick rigid urethane, pour-type, foamed-in-place. R-values for 4" thick panels are:

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

C. Heights

Walk-in coolers, freezers or combinations will be available in 7'6" and 8'6" heights for with-floor applications as well as with-floor/less-floor combinations. Less-floor applications will be available in 7'2" and 8'2" heights. Freezers are available in with-floor models only.

D. Metal Finishes

Interior and exterior wall and roof finish of walk-in coolers and freezers under this program is 26 gauge acrylic coated stucco galvanized steel. Floor interior finish will be .080 textured aluminum. Floor panels will be designed to support an evenly distributed load of 700 lbs. per square foot loading (stationary load).

E. Ratings and Listings

Walk-ins under this program have been independently tested:

- Structural Strength
- A.S.T.M. E-84-94, D-1929-91a, D-482-91, D1622-93
- U.L. and C-U.L. listed doors
- N.S.F. Listed
- N.Y.C. Approval #59-85
- City of Los Angeles RR 25169
- State of Oregon (consult factory)
- City of Houston Approval
- State of Wisconsin Approval
- State of California Bureau of Home Furnishings and Thermal Insulation Manufacturer Approval
- Type I Fabricator's License Approval
- State of Florida Approval

- Toxicity Evaluated
- Fully compliant with all Federal EISA requirements effective January 1, 2009

Reports available from factory on request.

F. Entrance Door

Stock walk-ins will be complete with one (1) each infitting (flush-mount) self-closing V-Series entrance door. Door dimensions will be 36" x 78" with optional 26" and 30" widths.

Door energy consumption (kWh/day):

| 36" x 78" door (standard) | 26" x 78" door | 30" x 78" door |
|---------------------------|----------------|----------------|
| Coolers: 2.77 | Coolers: 2.49 | Coolers: 2.60 |
| Freezers: 7.79 | Freezers: 7.01 | Freezers: 7.33 |

Entrance door includes:

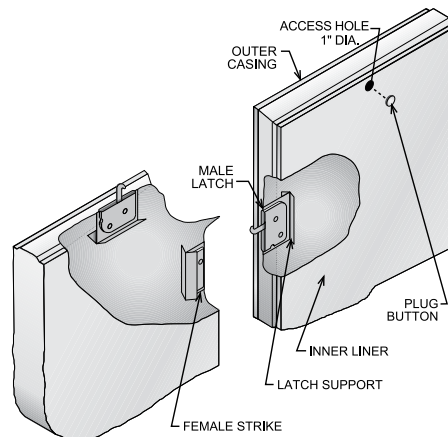
- Two (2) field adjustable cam-lift hinges with spring loaded bottom hinge
- Hydraulic door closer
- Deadbolt-locking handle
- LED light fixture mounted on top interior of door
- Inside safety release
- Mounted digital thermometer
- Magnetic gaskets along the top and both sides
- An adjustable double vinyl wiper gasket along bottom
- Drip guard over door in outdoor models

On all walk-in freezers, the infitting door jamb will be provided with a thermostatically-controlled warmer cable around the entire perimeter of the opening.

The door will be available either left hinged or right hinged (specify when ordering).

These doors will be mounted in a 46" wide door frame and will be interchangeable with any 46" wide wall panel, thereby allowing placement to fit almost any job-site requirement.

NOTE: Freezer door frame must include one (1) each heated pressure relief port, factory mounted.



Master-Bilt®'s cam-locking modular panels are designed for accurate and rapid field assembly.

Master-Bilt®'s standard floor finish is an **NSF listed** .080 inch aluminum which is **textured** for added safety. Floors are also coved to meet sanitation guidelines.



2. Remote Refrigeration Systems

A. General

Remote refrigeration systems available for this program will consist of Master-Bilt® M-Series condensing units and E-Series evaporator coils. Condensing units are factory pre-wired and pre-assembled.

Dedicated medium temp outdoor condensing units meet the DOE requirement of a minimum AWEF rating of 7.61 (Btu/W-h).

All units are provided with matching evaporator coils. Remote 2 H.P. through 6 H.P. units are available with either one (1) or two (2) matching evaporator coils.

B. Voltage

Remote 1/2 and 3/4 H.P. units are available in 230 volt, 60 cycle, one phase only. Units ranging from 1 to 4 H.P. are available in 230 volt, 60 cycle, one phase or 208/220 volt, 60 cycle, three phase. Five and six H.P. units are available in 208/220 volt, 60 cycle, three phase only.

C. Weather Package Kits

Remote condensing units under this program will be provided with weather kits containing a weather hood with unit base and a low ambient kit.

3. Packaged Refrigeration Systems

PRS-2 series refrigeration systems consist of a condensing unit and evaporator coil fully assembled inside a mill finish aluminum housing. Each system will be provided wired, piped, evacuated, optimally charged and run tested. All models will be ready to mount on top of a Master-Bilt® walk-in cooler or freezer. PRS-2 systems may be specified for compartments 13'6" long and under.

Some indoor models will be provided with power cord for direct plug in to receptacle. Indoor models will also be supplied with a condensate evaporator pan. Additionally, systems will contain a factory mounted diffuser with trim pieces provided loose for finishing box opening on inside. The evaporator grille is designed to mount flush or recessed

within a 4" thick ceiling panel.

Systems for medium temperature applications are air defrost. Low temperature models will feature electric defrost.

All units will contain R-404A refrigerant and will be designed to operate in ambient temperatures up to 100°F.

Systems for outdoor walk-ins will also contain a crankcase heater, drainline heater, head master and a weather hood.

Standard warranty includes 18 months limited parts and labor and extended four year compressor warranty.

A complete list of agency listings and approvals is available from our factory.

4. Warranty

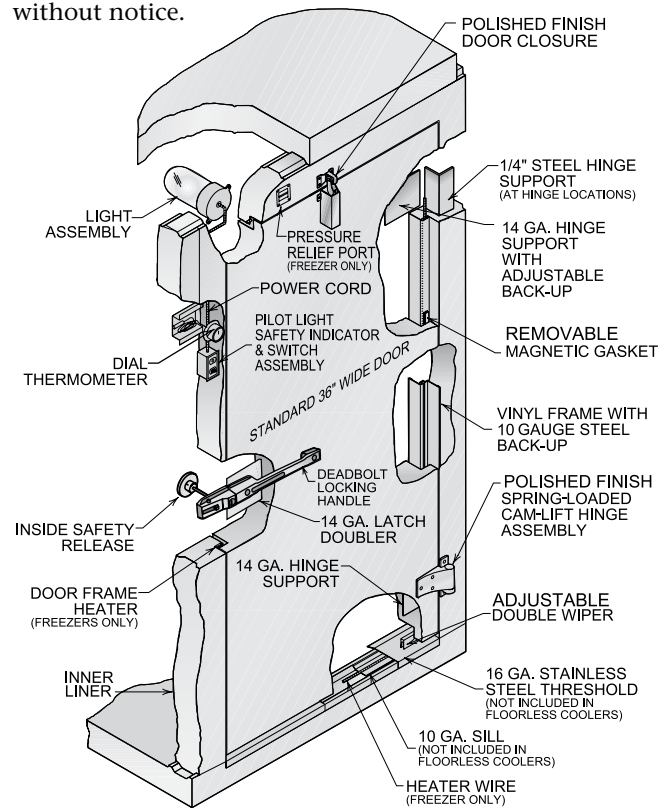
Parts and labor on the walk-ins are covered for one year with an extended four year coverage on refrigeration system compressor. Panels are covered for 15 years.

5. Exclusion

Any deviation from these specifications and listed walk-in sizes does not qualify for this program, and is subject to Master-Bilt® standard lead time.

Please consult factory for lead times on other walk-in sizes or specifications.

Master-Bilt reserves the right to discontinue this program without notice. All specifications are subject to change without notice.



The standard V-Series entry door is 36"W x 78"H with optional 26" and 30" widths.



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WALK-IN COOLERS & FREEZERS WITH MATCHING REFRIGERATION SYSTEMS

Additional condensing units available depending on application. Contact factory for more information.

REMOTE REFRIGERATION SYSTEM SPECIFICATIONS

Medium Temp R-404A Condensing Units

(Dedicated medium temp outdoor condensing units meet the DOE requirement of a minimum AWEF rating of 7.61 Btu/W-h).

| COND. UNIT MODEL* | H.P. | COMPRESSOR MODEL | BTUH @ 25°F SUCTION TEMP. 90°F AMBIENT | UNIT CONNECTION SIZES | | BASE SIZE† | RECEIVER PUMP DOWN CAP. @ 90% | SHIP WT. (LB/KG) | MCA†† | MOP†† | RLA†† | LRA†† |
|-------------------|------|------------------|--|-----------------------|---------|------------|-------------------------------|------------------|-------|-------|-------|-------|
| | | | | LIQUID | SUCTION | | | | | | | |
| HERMETIC | | | | | | | | | | | | |
| MHHZ0071B | 0.5 | RST45C1E-CAV | 6,454 | 3/8 | 5/8 | M1 | 7.7 | 230/105 | 13 | 15 | 5.1 | 26.5 |
| MHHZ0081B | 0.75 | RST55C1E-CAV | 7,147 | 3/8 | 5/8 | M1 | 7.7 | 240/109 | 13 | 15 | 6.8 | 33.7 |
| MHHZ0111B | 1 | RS70C1E-PFV | 9,080 | 3/8 | 7/8 | M1 | 7.7 | 250/114 | 20 | 20 | 7 | 34.2 |
| MHHZ0111C | 1 | RS70C1E-TFC | 9,080 | 1/2 | 5/8 | M1 | 7.7 | 250/114 | 19 | 20 | 4.7 | 31 |
| MHHZ0171B | 1.5 | CS10K6E-PFV | 14,485 | 1/2 | 7/8 | M2 | 11.4 | 360/164 | 20 | 30 | 10.9 | 56 |
| MHHZ0171C | 1.5 | CS10K6E-TF5 | 14,326 | 1/2 | 7/8 | M2 | 11.4 | 360/164 | 20 | 20 | 7.5 | 51 |
| MHHZ0191B | 2 | CS12K6E-PFV | 16,403 | 1/2 | 7/8 | M2 | 11.4 | 360/164 | 20 | 30 | 10.9 | 56 |
| MHHZ0191C | 2 | CS12K6E-TF5 | 16,248 | 1/2 | 7/8 | M2 | 11.4 | 360/164 | 20 | 20 | 7.5 | 51 |
| MHHZ0221B | 2.5 | CS14K6E-PFV | 18,310 | 1/2 | 1 1/8 | M2 | 11.4 | 360/164 | 25 | 30 | 12.4 | 61 |
| MHHZ0221C | 2.5 | CS14K6E-TF5 | 18,085 | 1/2 | 1 1/8 | M2 | 11.4 | 360/164 | 25 | 25 | 9.1 | 55 |
| MHHZ0251B | 2.75 | CS16K6E-PFV | 20,188 | 1/2 | 1 1/8 | M2 | 11.4 | 360/164 | 25 | 30 | 15.5 | 73 |
| MHHZ0251C | 2.75 | CS16K6E-TF5 | 20,009 | 1/2 | 7/8 | M2 | 11.4 | 360/164 | 25 | 25 | 9.5 | 66 |

Low Temp R-404A Condensing Units

| COND. UNIT MODEL* | H.P. | COMPRESSOR MODEL | BTUH @ -20°F SUCTION TEMP. 90°F AMBIENT | UNIT CONNECTION SIZES | | BASE SIZE† | RECEIVER PUMP DOWN CAP. @ 90% | SHIP WT. (LB/KG) | MCA†† | MOP†† | RLA†† | LRA†† |
|----------------------|------|------------------|---|-----------------------|---------|------------|-------------------------------|------------------|-------|-------|-------|-------|
| | | | | LIQUID | SUCTION | | | | | | | |
| SEMI-HERMETIC | | | | | | | | | | | | |
| MCLZ0141B | 3 | LAHB-032E-CAB | 13,799 | 1/2 | 1 1/8 | M3 | 11.4 | 500/227 | 28 | 40 | 16.7 | 105 |
| MCLZ0141C | 3 | LAHA-032E-TAC | 13,903 | 1/2 | 1 1/8 | M3 | 11.4 | 500/227 | 26 | 35 | 12.8 | 112 |
| HERMETIC | | | | | | | | | | | | |
| MHLZ0051B | 1 | CF04K6E-PFV | 3,945 | 3/8 | 7/8 | M1 | 7.7 | 240/109 | 16 | 25 | 9.6 | 59 |
| MHLZ0051C | 1 | CF04K6E-TF5 | 3,769 | 3/8 | 7/8 | M1 | 7.7 | 240/109 | 13 | 15 | 6.4 | 52 |
| MHLZ0071B | 1.5 | CF06K6E-PFV | 5,938 | 3/8 | 7/8 | M1 | 7.7 | 250/114 | 18 | 30 | 11.4 | 59.2 |
| MHLZ0071C | 1.5 | CF06K6E-TF5 | 5,722 | 3/8 | 7/8 | M1 | 7.7 | 250/114 | 13 | 20 | 7 | 52 |
| MHLZ0091B | 2 | CF09K6E-PFV | 8,060 | 1/2 | 7/8 | M2 | 11.4 | 260/118 | 26 | 40 | 16.3 | 87 |
| MHLZ0091C | 2 | CF09K6E-TF5 | 8,060 | 1/2 | 7/8 | M2 | 11.4 | 245/111 | 19 | 25 | 9.9 | 65.1 |
| MHLZ0121B | 3 | CF12K6E-PFV | 11,559 | 1/2 | 1 1/8 | M2 | 11.4 | 260/118 | 30 | 45 | 19 | 105 |
| MHLZ0121C | 3 | CF12K6E-TF5 | 11,596 | 1/2 | 1 1/8 | M2 | 11.4 | 260/118 | 21 | 30 | 11.9 | 85 |
| DISCUS | | | | | | | | | | | | |
| MDLZ0231C | 4 | 2DL3-040E-TFC | 22,958 | 1/2 | 1 1/8 | M5 | 15.2 | 530/241 | 44 | 60 | 26.3 | 161 |
| SCROLL | | | | | | | | | | | | |
| MSLZ0151B | 4 | ZF13K4E-PFV | 14,994 | 1/2 | 7/8 | M3 | 11.4 | 105/230 | 42.6 | 60 | 26.8 | 129 |
| MSLZ0151C | 4 | ZF13K4E-TF5 | 14,994 | 1/2 | 7/8 | M3 | 11.4 | 105/230 | 31.75 | 40 | 15 | 99 |
| MSLZ0181C | 5 | ZF15K4E-TF5 | 18,945 | 1/2 | 1 1/8 | M3 | 15.2 | 240/109 | 36 | 55 | 21.4 | 123 |
| MSLZ0221C | 6 | ZF18K4E-TF5 | 23,100 | 1/2 | 1 1/8 | M5 | 22.1 | 112/250 | 41 | 60 | 23.9 | 156 |

NOTES:

- 404A compressors are shipped with P.O.E. oil.
- All "M" units include low ambient kit (crankcase heater, head pressure control valve) as standard feature.

***VOLTAGE KEY:**

"B" suffix = 208-230 or 230 volt, 60 cycle, one phase

"C" suffix = 200-230 or 208-230 volt, 60 cycle, three phase

†See p. 6 for unit base drawings.

††Electrical ratings for condensing unit only. See National Electrical Code if units are combined on a single circuit.

REMOTE SYSTEM EVAPORATOR COIL SPECIFICATIONS

Medium Temp

| EVAPORATOR MODEL* | UNIT PART NO. | BTUH @ 25°F SUCTION TEMP. | NO. FANS | DIMENSIONS | | | SHIP WT. (LB/KG) | FAN AMPS |
|-------------------|---------------|---------------------------|----------|------------|----|----|------------------|----------|
| | | | | L | W | H | | |
| E1HZ0052A | SA18-53BAE | 5,300 | 1 | 28 | 15 | 16 | 46/20 | 0.9 |
| E1HZ0065A | SA18-66BA | 6,600 | 1 | 28 | 15 | 16 | 50/23 | 0.9 |
| E1HZ0070A | SA28-76BA | 7,600 | 2 | 42 | 15 | 16 | 64/29 | 1.8 |
| E1HZ0090A | SA28-97BA | 9,700 | 2 | 42 | 15 | 16 | 69/31 | 1.8 |
| E1HZ0130A | SA28-134BA | 13,400 | 2 | 46 | 15 | 16 | 77/35 | 1.8 |
| E1HZ0156A | SA38-160BA | 16,000 | 3 | 64 | 15 | 16 | 110/50 | 2.7 |

Low Temp

| EVAPORATOR MODEL* | UNIT PART NO. | BTUH @ 25°F SUCTION TEMP. | NO. FANS | DIMENSIONS | | | SHIP WT. (LB/KG) | FAN AMPS | DEFROST AMPS |
|-------------------|---------------|---------------------------|----------|------------|----|----|------------------|----------|--------------|
| | | | | L | W | H | | | |
| E1LZ0040B | SE16-41BD | 4,100 | 1 | 28 | 15 | 16 | 44/20 | 0.45 | 4.4 |
| E1LZ0065B | SE26-60BD | 6,000 | 2 | 42 | 15 | 16 | 61/28 | 0.9 | 7 |
| E1LZ0090B | SE26-92BD | 9,200 | 2 | 46 | 15 | 16 | 74/34 | 0.9 | 8.7 |
| E1LZ0120B | SE36-120BD | 12,000 | 3 | 64 | 15 | 16 | 105/48 | 1.35 | 13 |
| E1LZ0141B | SE36-140BD | 14,000 | 3 | 64 | 15 | 16 | 115/52 | 1.35 | 13 |
| E1LZ0160B | SE46-164BD | 16,000 | 4 | 82 | 15 | 16 | 140/64 | 1.8 | 17.4 |
| E1LZ0180B | SE46-185BD | 18,500 | 4 | 82 | 15 | 16 | 155/70 | 1.8 | 17.4 |
| E1LZ0200B | SE56-210BD | 21,000 | 5 | 100 | 15 | 16 | 225/102 | 2.25 | 21.8 |

NOTES:

• Medium temp evaporator coils based on 12° T.D. Low temp coils based on 10° T.D.

• VOLTAGE KEY:

"A" suffix = 115 volt, 60 cycle, one phase

"B" suffix = 208-230 volt, 60 cycle, one phase

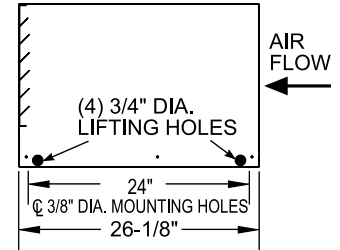
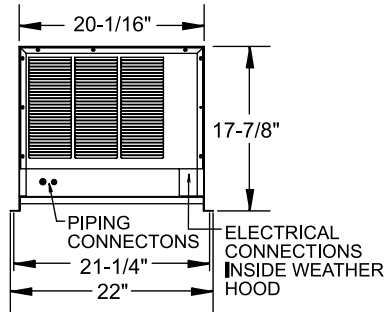


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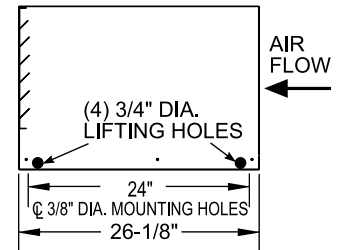
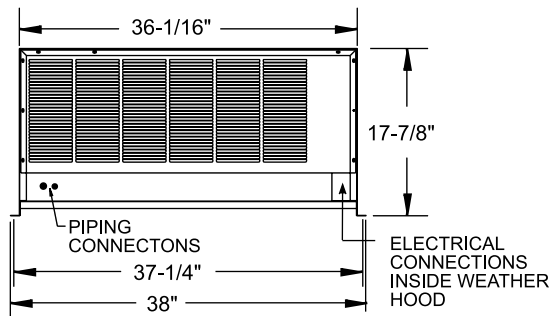
WALK-IN COOLERS & FREEZERS WITH MATCHING REFRIGERATION SYSTEMS

REMOTE CONDENSING UNIT BASE SPECIFICATIONS

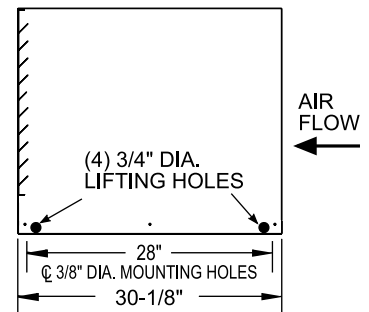
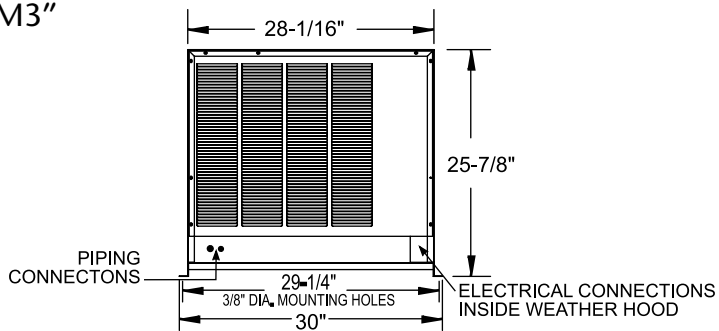
Base "M1"



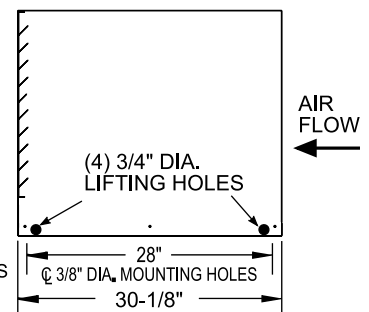
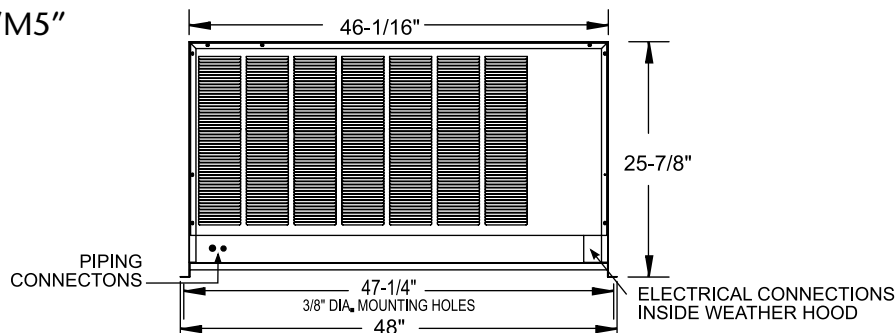
Base "M2"



Base "M3"



Base "M5"



PACKAGED REFRIGERATION SYSTEM SPECIFICATIONS

PRS-2 systems may be specified for compartments 13'6" long and under.

(Dedicated medium temp outdoor condensing units meet the DOE requirement of a minimum AWEF rating of 7.61 Btu/W-h).

| PRS-2 MODEL* | BTUH @ 90°F -10°F BOX TEMP | BTUH @ 90°F 35°F BOX TEMP | REFG. TYPE | DIMENSIONS SEE FIGURE... (P. 8) | ELECTRICAL DATA | | | | | | | SHIP WT. LB/KG |
|--------------------------------------|--|---------------------------------------|---------------|---------------------------------------|-------------------------------|-----------------|------------------------|------|-----|--------------|--------------|----------------------|
| | | | | | HP | DEFROST AMPS | COMPRESSOR RLA AMPS | MCA | MOP | VOLTAGE | NEMA PLUG | |
| CEILING MOUNT COOLER SYSTEMS | | | | | | | | | | | | |
| PHHZ0050A | N/A | 5067 | R-404A | NS | 1/2 | N/A | 10.1 | 14.2 | 20 | 115/60/1 | 5-20P | 230/105 |
| PHHZ0050AT | N/A | 5067 | R-404A | NS | 1/2 | N/A | 10.1 | 14.2 | 20 | 115/60/1 | N/A | 275/125 |
| PHHZ0070B | N/A | 6966 | R-404A | NM | 3/4 | N/A | 7.7 | 10.8 | 15 | 208-230/60/1 | 6-20P | 320/145 |
| PHHZ0070BT | N/A | 6966 | R-404A | NM | 3/4 | N/A | 7.7 | 10.8 | 15 | 208-230/60/1 | N/A | 360/164 |
| PHHZ0100B | N/A | 9639 | R-404A | NL | 1 | N/A | 11.0 | 16.7 | 20 | 208-230/60/1 | N/A | 410/186 |
| PHHZ0100BT | N/A | 9639 | R-404A | NL | 1 | N/A | 11.0 | 16.7 | 20 | 208-230/60/1 | N/A | 480/218 |
| CEILING MOUNT FREEZER SYSTEMS | | | | | | | | | | | | |
| PHXZ0100B | 4182 | N/A | R-404A | NM | 1 | N/A | 9.6 | 13.4 | 20 | 208-230/60/1 | N/A | 265/120 |
| PHXZ0100BT | 4850 | N/A | R-404A | NM | 1 | 6.7 | 9.6 | 13.4 | 20 | 208-230/60/1 | N/A | 410/186 |
| PHXZ0125B | 5090 | N/A | R-404A | NL | 1 ¹ / ₄ | N/A | 8.4 | 11.7 | 15 | 208-230/60/1 | N/A | 465/211 |
| PHXZ0125BT | 5090 | N/A | R-404A | NL | 1 ¹ / ₄ | 8.8 | 8.4 | 11.7 | 15 | 208-230/60/1 | N/A | 510/232 |
| PHXZ0150B | 6060 | N/A | R-404A | NL | 1 ¹ / ₂ | 12.2 | 11.4 | 17.2 | 25 | 208-230/60/1 | 6-20P | 525/239 |
| PHXZ0150BT | 6060 | N/A | R-404A | NL | 1 ¹ / ₂ | 10.9 | 11.4 | 17.2 | 25 | 208-230/60/1 | N/A | 565/257 |
| PHXZ0200B | 6510 | N/A | R-404A | NL | 2 | 10.2 | 11.4 | 16.6 | 25 | 208-230/60/1 | 6-20P | 525/239 |
| PHXZ0200BT | 6510 | N/A | R-404A | NL | 2 | 8.5 | 11.4 | 16.6 | 25 | 208-230/60/1 | N/A | 565/257 |
| PHXZ0201B | 7916 | N/A | R-404A | NL | 2 | 11.4 | 11.2 | 18 | 20 | 208-230/60/1 | N/A | 611/278 |
| PHXZ0201BT | 7916 | N/A | R-404A | NL | 2 | 10.3 | 11.0 | 17 | 20 | 208-230/60/1 | N/A | 691/314 |

*Outdoor models denoted with a "T" suffix.

PRS-2 refrigeration is sized for holding duty only. If the ambient is higher than 100°F or pull down capacity is required, a custom quote will be needed.



10-BILT®

WALK-IN COOLERS & FREEZERS WITH MATCHING REFRIGERATION SYSTEMS

PACKAGED REFRIGERATION SYSTEM BASE SPECIFICATIONS

Figure NS

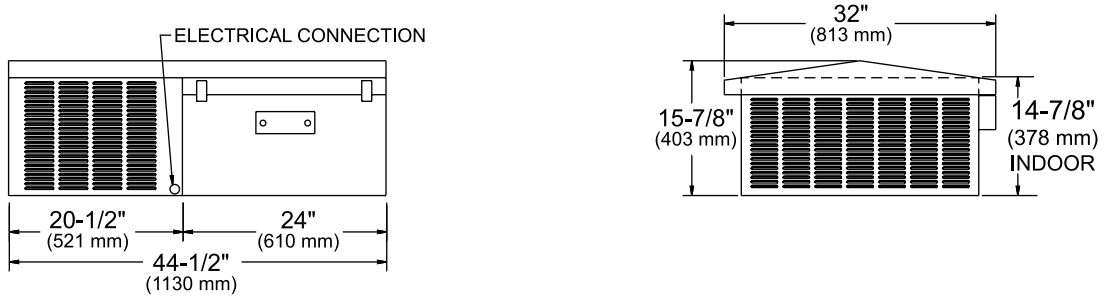


Figure NM

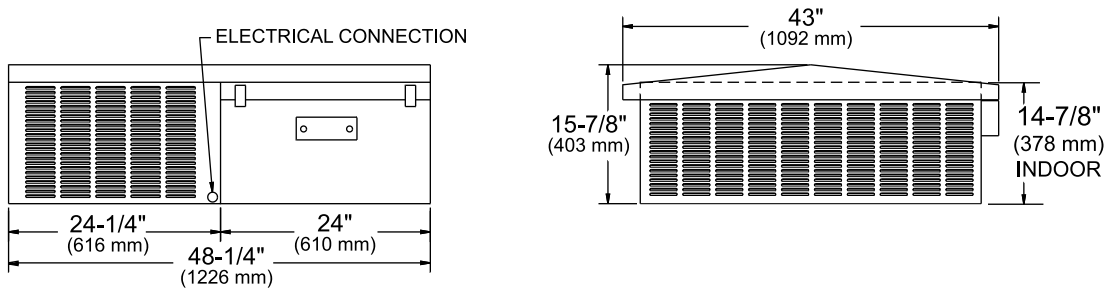
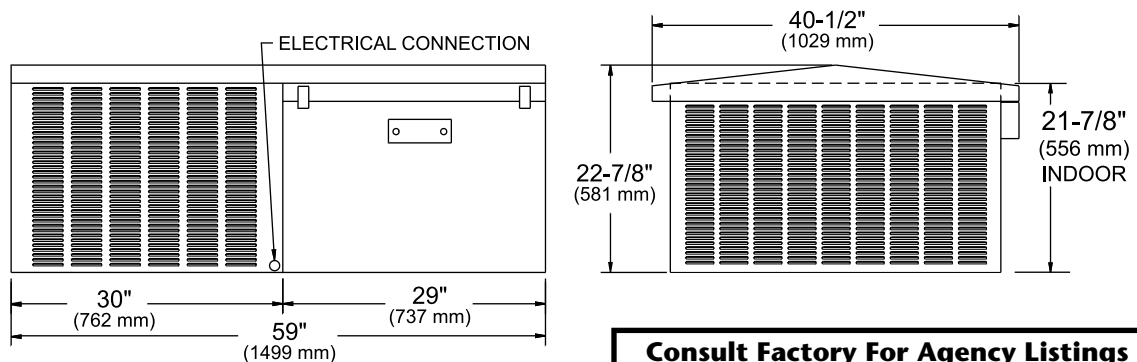


Figure NL



Consult Factory For Agency Listings



908 Highway 15 North • New Albany, MS 38652

PHONE: 800-647-1284 or 662-534-9061 • FAX: 800-232-3966 or 662-534-6049 • www.master-bilt.com

