



BEM/BEL SERIES REMOTE

Endless Glass Door Merchandisers
 With Bottom Mounted Coil &
 30-Inch Wide Doors

MEDIUM TEMP MODELS

- BEM-2-30 BEM-4-30
- BEM-3-30 BEM-5-30

LOW TEMP MODELS

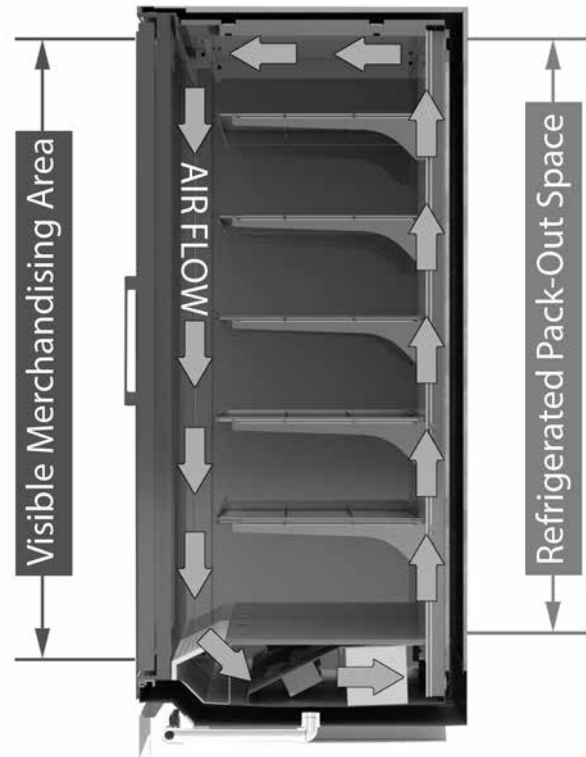
- BEL-2-30 BEL-4-30
- BEL-3-30 BEL-5-30



BEL-3-30 (shown with ends installed)

MAXIMUM MERCHANDISING & EFFICIENCY

- Master-Bilt® exclusive larger cu. ft. pack-out area
- 23" deep shelves – deepest standard shelves available
- Pack-out space and visible area are aligned for the ultimate in product merchandising
- 100% of pack-out space falls within the visible merchandising area
- Additional 200+ square inches of viewing area per door
- Largest glass door height and tallest interior case height means more product visible to customers
- Front air curtain prevents warm, moist air from entering merchandiser during door openings for the most energy efficient design
- Lights are more energy efficient with more lumens per watt while also maximizing product appearance
- Remote refrigeration system





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ENDLESS GLASS DOOR MERCHANDISERS

WITH BOTTOM MOUNTED COIL & 30-INCH WIDE DOORS

ADDITIONAL FEATURES

CONSTRUCTION

- Front air screen blocks warm outside air and means fewer required defrosts and greater energy efficiency
- Designed from the ground up to fit through an 80" tall door opening
- Narrow footprint and shallow bumper for minimum intrusion into sales space
- Strategic venting ensures proper air flow across product
- Cam-locked panels on back, top and bottom for added strength and rigidity to the case
- 2 1/2" thick back wall, bottom, ends and partitions meets or exceeds competitor models
- Ends must be ordered separately
- Baked-on polyester textured steel finish on exterior and interior
- Five cantilever epoxy-coated welded wire shelves with price tag molding per door
- Shelves rated to support 135 lbs. each
- Product stop feature to prevent product from falling behind shelves
- Zero ODP insulation

- Drain piped to base for easy connection to drain line or condensate pump
- Standard electronic controller with these features:
 - Ability to monitor defrost functions from the front panel interface
 - Audible and visual alarm
 - Eliminates room thermostat, defrost termination/fan delay control, defrost timer and digital thermometer or other temperature indicator

DOORS

- 30" wide glass doors
- Tallest glass door available for this class of merchandiser
- Tallest glass door package of any case capable of fitting through an 80" opening
- Improved thermal efficiency design eliminates heat from both cooler and freezer doors
- Self-closing door hinge with adjustable torsion control

- Standard black door and frame (optional colors available)

REFRIGERATION

- All models designed for remote refrigeration systems
- EC fan motors are up to 65% more efficient than standard motors with less waste heat present inside the cold space
- Refrigerant: R-448A/R-449A
- Factory tested refrigeration system
- Heavy-duty copper tube evaporator coil
- Electric defrost standard on low temp models
- Pre-mounted expansion valve
- Temperature range:
 - BEM models: 34° to 41°F (1° to 5°C)
 - BEL models: 0° to -15°F (18° to -26°C)
- R-factor (insulation efficiency rating): 18.75

WARRANTY

- 2 year limited parts and labor on cabinet with 1 year parts and labor on condensing unit

When ordering multi-cabinet line-ups, please note:

- Pre-wired cabinet-to-cabinet electrical terminal block connectors are standard
- A 2 1/2" thick partition is required between each endless module if:
 - Each utilizes its own condensing unit and
 - One module is a freezer and one is a cooler
- A 1/16" thick partition is required between each module of like temperatures
- Joining kits for linking together modules are standard
- Please allow an additional 1" clearance for case and assembly dimensional tolerance stack-up

OPTIONS

- Anti-fog film on glass doors (factory applied) keeps doors clear even after opening
- Motion sensors for lighting control save energy during off-peak hours and closings
- Super Controller for remote systems saves as much as 25% on condensing unit energy cost annually. Also provides these advantages:
 - Electronic expansion valve more precise and responsive than mechanical valve
 - Faster initial pull-down saves installation time
 - Faster recovery from defrost

TECHNICAL SPECIFICATIONS

MODEL	DIMENSIONS (in.)			DIMENSIONS (mm)			NO. OF DOORS	NO. OF SHELVES	SHELF DEPTH (in.)	PRODUCT FACING SQ. FT.	PACK-OUT CU. FT.	NO. OF INTERIOR LIGHTS
	L*	D**	H***	L*	D	H						
BEM/BEL-2-30	62	37 ³ / ₈	81 ³ / ₄	1581	949	2076	2	10	23	28.2	54.1	3
BEM/BEL-3-30	92 ⁷ / ₁₆	37 ³ / ₈	81 ³ / ₄	2354	949	2076	3	15	23	42.0	80.6	4
BEM/BEL-4-30	122 ⁷ / ₈	37 ³ / ₈	81 ³ / ₄	3102	949	2076	4	20	23	55.9	107.1	5
BEM/BEL-5-30	153 ⁵ / ₁₆	37 ³ / ₈	81 ³ / ₄	3900	949	2076	5	25	23	69.7	133.7	6

*Add 2¹/₂" (64 mm) to length for each end or insulated partition. Also allow an additional 1" clearance for case and assembly dimensional tolerance stack-up. **Includes end panels and door handles. ***Includes removable skid runner for installation purposes. Without runner – 79³/₄"H. **NOTE: All models furnished with R-448A/R-449A expansion valve unless otherwise specified.**

ELECTRICAL*

**120/208-230VAC/60/1 INPUT CIRCUIT
(REQUIRES 4-WIRE 208-230 SERVICE CONNECTION)**

MODEL	120 VOLT, 1 PHASE			220 VOLT, 1 PHASE		MCA	MOP	MIN. WIRE SIZE
	LIGHTS	HEATERS	FANS	FANS	DEFROST			
BEM-2-30	0.3	0.63	0.4	N/A	N/A	7.66	15.00	12 GA.
BEM-3-30	0.45	0.83	0.6	N/A	N/A	8.35	15.00	12 GA.
BEM-4-30	0.6	1.05	0.8	N/A	N/A	9.06	15.00	12 GA.
BEM-5-30	0.75	1.28	1.0	N/A	N/A	9.79	15.00	12 GA.
BEL-2-30	0.3	0.95	0.4	N/A	6.0	12.13	15.00	12 GA.
BEL-3-30	0.45	1.36	0.6	N/A	9.1	16.29	20.00	12 GA.
BEL-4-30	0.6	1.82	0.8	N/A	12.2	20.41	25.00	10 GA.
BEL-5-30	0.75	2.32	1.0	N/A	15.2	24.71	25.00	10 GA.

*If condensate evaporator pan accessory is used, it must be field installed and requires a dedicated 20 amp, 120 volt circuit.

SHIP WEIGHTS

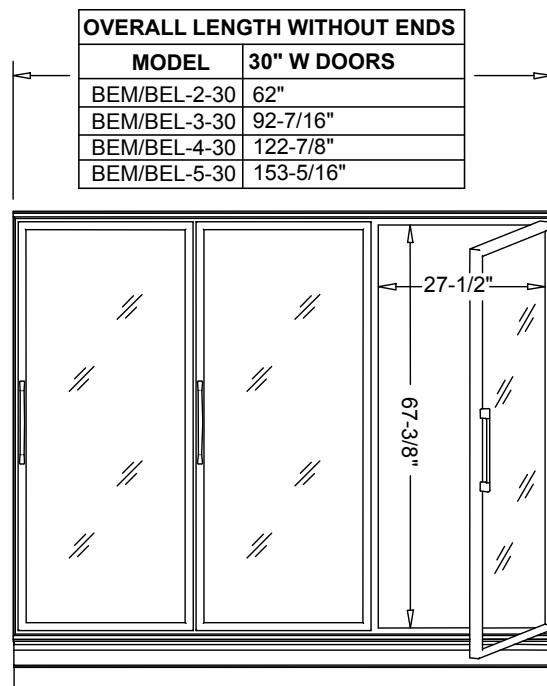
MODEL	CABINET WT. WITH ENDS LB/KG
BEM-2-30	755/343
BEM-3-30	1375/625
BEM-4-30	1670/759
BEM-5-30	2000/909
BEL-2-30	1085/493
BEL-3-30	1325/602
BEL-4-30	1785/811
BEL-5-30	1955/889

LISTINGS

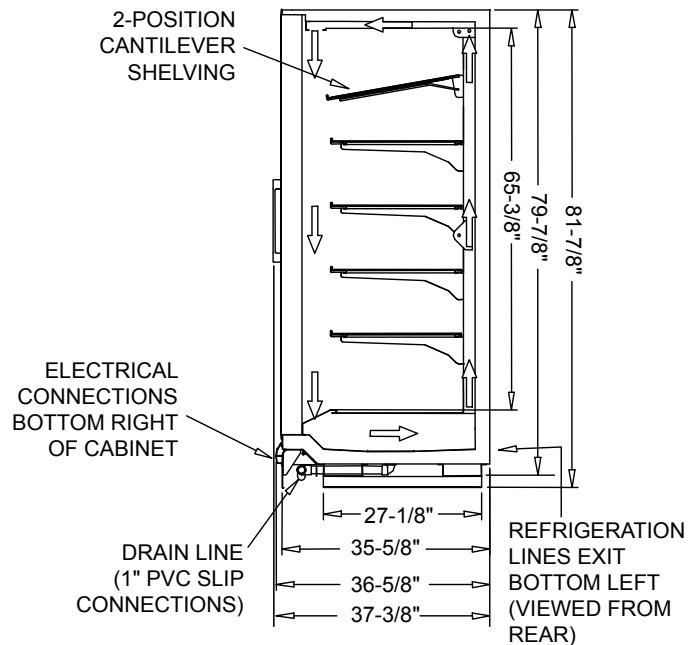


HOOKUP

Hardwire, remote refrigeration



ELEVATION VIEW



SIDE VIEW

MODULES REQUIRED FOR 30" WIDE DOOR LINEUPS & BTU PERFORMANCE DATA

NO. OF DOORS	MODULES REQUIRED				TOTAL OVERALL LENGTH (IN.) WITH ONE PAIR OF 2 1/2" ENDS	+20°F SUCTION MIN. BTUs (75°F STORE, 55% RH, +35°F AVERAGE PRODUCT TEMP.)	-11°F SUCTION MIN. BTUs (75°F STORE, 55% RH, -3°F AVERAGE PRODUCT TEMP.)	-18°F SUCTION MIN. BTUs (75°F STORE, 55% RH, -12°F AVERAGE PRODUCT TEMP.)
	2 DOOR	3 DOOR	4 DOOR	5 DOOR				
2	1				67	2800	3300	3550
3		1			97 ^{7/16}	3750	4750	5125
4			1		127 ^{7/8}	4600	6150	6550
5				1	158 ^{3/16}	5750	7625	8300
6		2			189 ^{13/16}	6900	9150	9960
7	1			1	220 ^{1/4}	8050	10,675	11,620
8		1		1	250 ^{3/4}	9200	12,200	13,280
9			1	1	281 ^{1/8}	10,350	13,725	14,940
10				2	311 ^{9/16}	11,500	15,250	16,600
11		2		1	343 ^{1/16}	12,650	16,775	18,260
12	1			2	373 ^{1/2}	13,800	18,300	19,920
13		1		2	403 ^{15/16}	14,950	19,825	21,580
14			1	2	434 ^{3/8}	16,100	21,350	23,240
15				3	464 ^{13/16}	17,250	22,875	24,900
16		2		2	496 ^{5/16}	18,400	24,400	26,560
17	1			3	526 ^{3/4}	19,550	25,925	28,220
18		1		3	557 ^{3/16}	20,700	27,450	29,880
19			1	3	587 ^{1/2}	21,850	28,975	31,540
20				4	618 ^{1/16}	23,000	30,500	33,200
21		2		3	649 ^{9/16}	24,150	32,025	34,860
22	1			4	680	25,300	33,550	36,520
23		1		4	710 ^{7/16}	26,450	35,075	38,180
24			1	4	740 ^{7/8}	27,600	36,600	39,840
25				5	771 ^{5/16}	28,750	38,125	41,500

REQUIRED CONDENSING UNITS

Use this chart to determine the correct condensing unit for your endless lineup. Replace * with suffix "B" for one phase or "C" for three phase model. Condensing unit is less timer and relies on the case to control defrost functions.

NO. OF DOORS	+35°F BOX TEMP, +20°F SST 75°F AIR CONDITIONED STORE, 55% RH		0°F BOX TEMP, -10°F SST 75°F AIR CONDITIONED STORE, 55% RH		-10°F BOX TEMP, -20°F SST 75°F AIR CONDITIONED STORE, 55% RH	
	COND. UNIT REQUIRED FOR AMBIENT TEMP		COND. UNIT REQUIRED FOR AMBIENT TEMP		COND. UNIT REQUIRED FOR AMBIENT TEMP	
	100°F	110°F	100°F	110°F	100°F	110°F
2	MHMD002EB	MHMD002EB	MSLD010E*	MSLD010E*	MSLD010E*	MSLD012E*
3	MHMD003EB	MHMD003EB	MSLD012E*	MSLD012E*	MSLD015E*	MSLD020E*
4	MHMD003EB	MHMD005EB	MSLD015E*	MSLD015E*	MSLD020E*	MSLD020E*
5	MHMD005EB	MHMD007EB	MSLD020E*	MSLD020E*	MSLD025E*	MSLD025E*
6	MHMD007EB	MHMD008EB	MSLD020E*	MSLD020E*	MSLD030E*	MSLD030E*
7	MHMD008EB	MHMD008EB	MSLD025E*	MSLD025E*	MSLD035E*	MSLD035E*
8	MHMD008EB	MHMD010E*	MSLD025E*	MSLD030E*	MSLD035E*	MSLD040E*
9	MHMD010E*	MHMD012E*	MSLD030E*	MSLD035E*	MSLD040E*	MSLD050E*
10	MHMD012E*	MHMD012E*	MSLD035E*	MSLD035E*	MSLD050E*	MSLD050E*
11	MHMD012E*	MSMD015E*	MSLD035E*	MSLD040E*	MSLD050E*	MSLD060EC
12	MSMD015E*	MSMD017E*	MSLD040E*	MSLD040E*	MSLD060EC	MSLD060EC
13	MSMD015E*	MSMD017E*	MSLD040E*	MSLD050E*	MSLD060EC	MSLD060EC
14	MSMD017E*	MSMD020E*	MSLD050E*	MSLD050E*	MSLD060EC	MSLD075EC
15	MSMD017E*	MSMD020E*	MSLD050E*	MSLD050E*	MSLD075EC	MSLD075EC

This chart is valid for the following conditions: (1) Anthony doors with LED lights, (2) 75°F store with 55% relative humidity, (3) Refrigeration line run of 100' or less. Please consult factory for other operating conditions.

NOTE: Cabinet designed for optimum performance in air-conditioned area at 75°F ambient and 55% relative humidity. All specifications subject to change without notice.



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