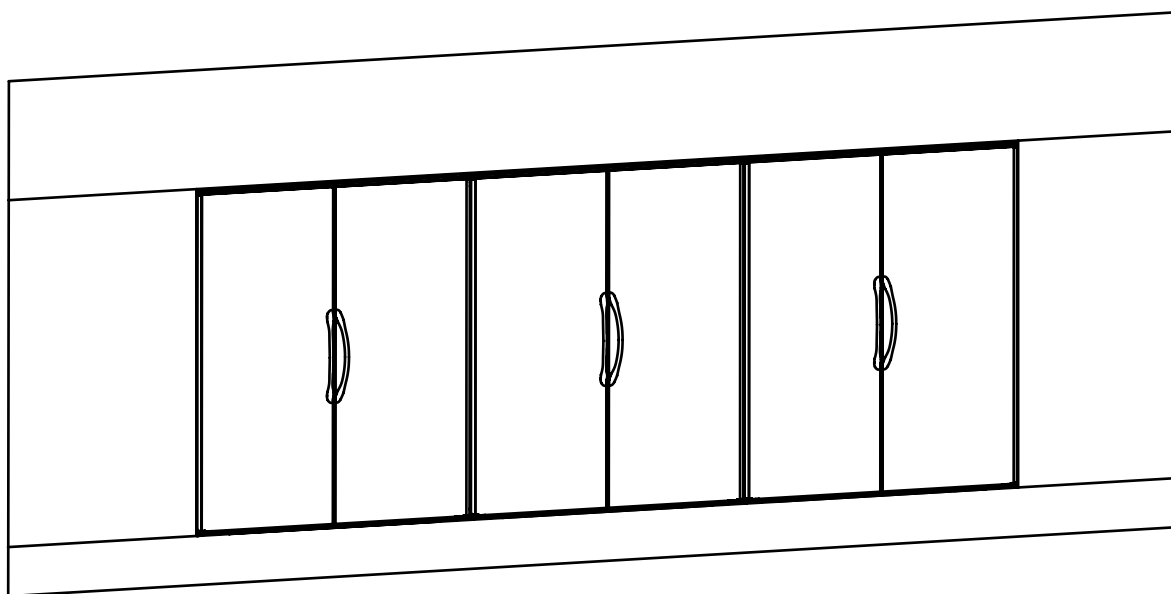


ECOVISION DOOR SYSTEM FOR MEDIUM TEMPERATURE WALK-IN COOLERS



French Style Doors 2-door, (3-door French/Single Swing), 4-door, & 6-door

Do not allow cooler air to be blown directly on the doors or door condensation may occur.

Doors For Walk-In Coolers



This warning does not mean that Hussmann products will cause cancer or reproductive harm, or is in violation of any product-safety standards or requirements. As clarified by the California State government, Proposition 65 can be considered more of a 'right to know' law than a pure product safety law. When used as designed, Hussmann believes that our products are not harmful. We provide the Proposition 65 warning to stay in compliance with California State law. It is your responsibility to provide accurate Proposition 65 warning labels to your customers when necessary. For more information on Proposition 65, please visit the California State government website.



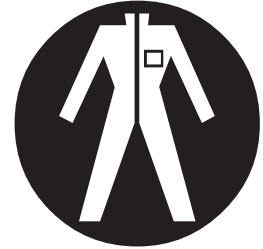
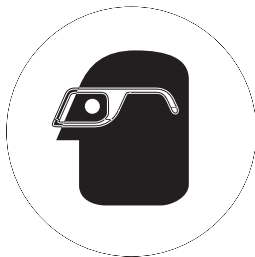
BEFORE YOU BEGIN

Read these instructions completely and carefully.



PERSONAL PROTECTION EQUIPMENT (PPE)

Personal Protection Equipment (PPE) is required whenever installing or servicing this equipment. Always wear safety glasses, gloves, protective boots or shoes, long pants, and a long-sleeve shirt when handling glass.



REVISION HISTORY

Revision J — Updated California Warning

Revision G;H — Updated heater data & Wiring Diagrams

Revision F — Added 30" door with 66" G and 75" H heights

Revision E — Removed Plus from EcoVision

Revision D — Updated Page 4

Revision C — Cover Page Note

Revision B — Removed low temperature references, Page 3

Revision A — Original Issue

IMPORTANT
KEEP IN STORE FOR FUTURE REFERENCE
Quality that sets industry standards!

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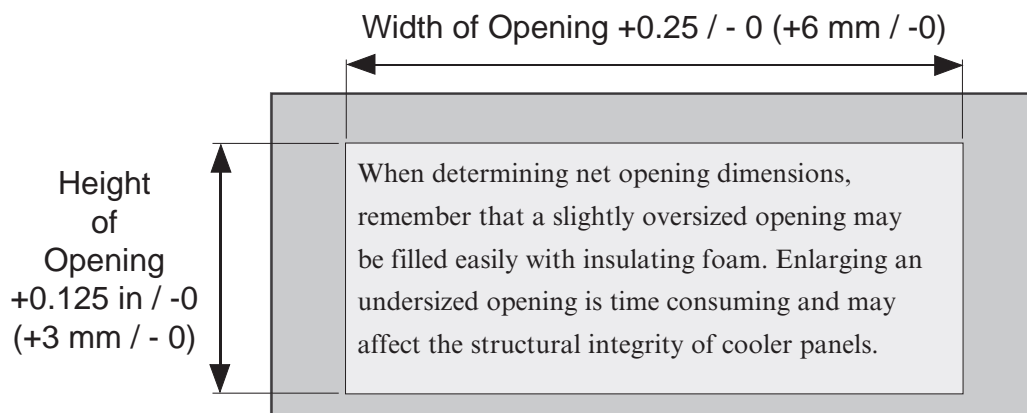
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Doors For Walk-In Coolers

Doors are designed for use in areas where temperature does not exceed 75°F (24°C) and relative humidity does not exceed 55%. The doors are Argon-filled low “E” coated glass.

Net Opening Width (from formula on page 3) +0.25 / - 0



Nomenclature Explanation

Platform:

W = Walk-in 24" w x (74.55" h + Clearance Doors)

G=Walk-in 30" w X (67.74" h+Clearance Doors)

H=Walk-in 30" w X (74.55" h+Clearance Doors)

Temperature:

M = Medium Temperature

Number of Doors:

2

3

4

6

Door Style:

F = French Doors

S = Single Swing

Frame Style/Joining Type:

L = Lh Flanged Frame, Right Joined To Another Frame

R = Rh Flanged, Left Joined To Another Frame

B = Both Sides Flanged, Stand alone Frame

N = No Flanges, Joined To A Frame On Both Sides

Color:

B= Black

G= Gray

3 Door French Location:

Left French = \ / x

Right French = x \ /

3 Door Hinge Location:

Left Swing = \

Right Swing = /

W M 3 F L B L R

NET OPENING WIDTH FORMULA
**Consult cooler wall manufacturer to determine the
maximum number of continuous doors
allowed in a lineup between mullion supports.**

EcoVision Walk-In Cooler Frame. Ensure frames are installed in the correct order according to customer requirements.

NET HEIGHT FRAME (Opening)

$$74.55 \text{ in. (1894 mm) W, H} \quad / \quad 67.74 \text{ in. (1721 mm) G} \\
+ .188 \text{ (5 mm) for clearance} \\
\hline
74.738 \text{ in. (1898 mm)} \quad / \quad 67.928 \text{ in. (1725 mm)}$$

Frame Dimensions — WIDTH (OPENING) CALCULATION to be used in formula below

24" x 75" W	2 Doors	49.224 in. (1250 mm)
	3 Doors	73.600 in. (1869 mm)
	4 Doors	97.409 in. (2474 mm)
	6 Doors	145.654 in. (3700 mm)
30" x 66" G & 30" x 75" H	2 Doors	61.87 in. (1571.5 mm)
	3 Doors	92.23 in. (2342.64 mm)
	4 Doors	122.75 in. (3117.85 mm)

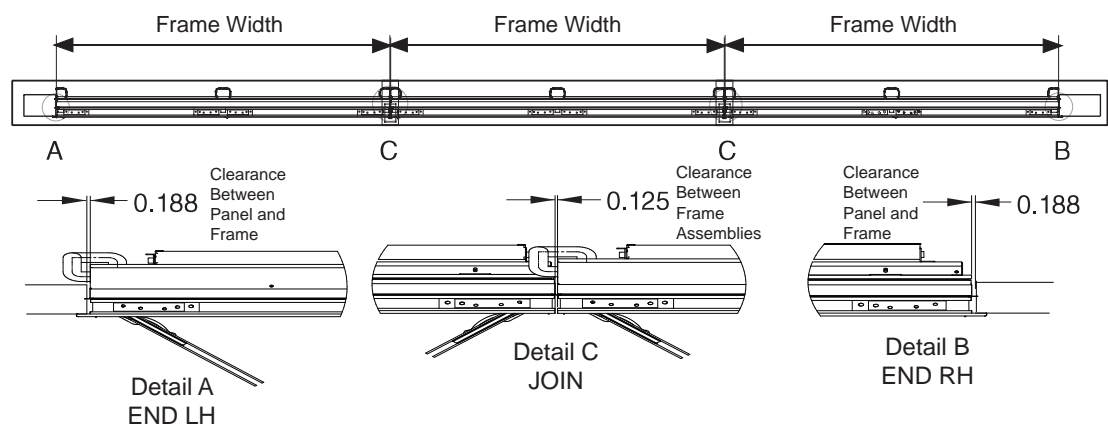
Formula to Determine Minimum Net Opening for a Continuous Run of Doors with No Mullions Between Frames – Two Frame Assembly										
Clearance LH	+	Frame Width	+	Join	+	Frame Width	+	Clearance RH	=	NET OPENING
0.188				0.125				0.188		
		Frame 1			Frame 2					

Formula to Determine Minimum Net Opening for a Continuous Run of Doors with No Mullions Between Frames – Three Frame Assembly														
Clearance LH	+	Frame Width	+	Join	+	Frame Width	+	Join	+	Frame Width	+	Clearance RH	=	NET OPENING
0.188				0.125				0.125				0.188		
		Frame 1				Frame 2				Frame 3				

Formula to Determine Minimum Net Opening for a Continuous Run of Doors with No Mullions Between Frames – Four Frame Assembly																		
Clearance LH	+	Frame Width	+	Join	+	Frame Width	+	Join	+	Frame Width	+	Join	+	Frame Width	+	Clearance RH	=	NET OPENING
0.188				0.125				0.125				0.125				0.188		
		Frame 1				Frame 2				Frame 3				Frame 4				

Using the illustration below as **an example**, the formula for a 3-frame assembly of 3 doors each gives
Clearance LH + Frame Width + Join + Frame Width + Join + Frame Width + Clearance RH = Net Opening Width
0.188 + 73.6 + 0.125 + 73.6 + 0.125 + 73.6 + 0.188 = 221.426 in. Net Opening Width (frame dimensions shown above). **Always use the fewest frames possible to achieve the number of doors required.**

THREE-FRAME ASSEMBLY



Doors For Walk-In Coolers

*Contact your Hussmann supplier,
Hussmann service organization or
Hussmann representative to obtain
replacement parts.*

CAUTION

Use caution handling glass parts. Always wear safety glasses, long pants, gloves and arm guards when handling glass doors. Do not lean doors against case. Doors should remain in packing crate until it is time to install on to case.

Excessive ambient conditions may cause condensation and therefore sweating of doors. Facility operators should monitor doors and floor conditions to ensure safety of persons.

Light and Frame Energy Output

ELECTRICAL DATA

Tool List (Recommended)

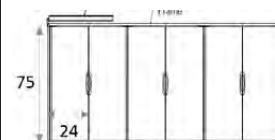
½ inch open end wrench
¼ inch nut driver or socket
4ft level
caulk gun / caulk
rubber mallet
Phillips bit
T25 for shoulder screws
small screw driver - (to remove doors if necessary)
gloves
safety glasses
hard hat
arm guards
small size screw driver
to open doors if necessary

Frame Watt	Total Amp	30X66	Total Amp	30X75	Total Amp	24X75	Total Amp	24X66
2 Door	0.193	23.2	0.21	24.57	0.18	22.02	NA	NA
3 Door	0.286	34.34	0.3	36.39	0.27	32.67	NA	NA
4 Door	0.337	40.47	0.35	42.51	0.31	37.42	0.29	35.37
6 Door	NA	NA	NA	NA	0.44	52.83	NA	NA

Vertical Mullion LEDS								
Frame Type	2 Door		3 Door		4 Door		6 Door	
	Amperes	Watts	Amperes	Watts	Amperes	Watts	Amperes	Watts
LEDs 30 x 66	0.17	21.2	0.353	42.4	0.353	42.4	N/A	N/A
LEDs 30 x 75	0.177	21.2	0.353	42.4	0.353	42.4	N/A	N/A
LEDs 24 x 75	0.177	21.2	0.353	42.4	0.353	42.4	0.53	63.6

EcoVision II Walk In Nomenclatures

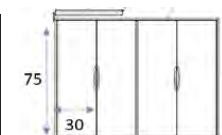
Kit Number	Door Width	Door Height	Number of Doors	Flange Style	Color	3 door French Location	3rd door Hinge Location
6 Door							
WM6FBG	24	75	6	Both sides	Grey	N/A	N/A
WM6FNG	24	75	6	No Flange	Grey	N/A	N/A
WM6FLG	24	75	6	Left Flange	Grey	N/A	N/A
WM6FRG	24	75	6	Right Flange	Grey	N/A	N/A
WM6FBB	24	75	6	Both sides	Black	N/A	N/A
WM6FNB	24	75	6	No Flange	Black	N/A	N/A
WM6FLB	24	75	6	Left Flange	Black	N/A	N/A
WM6FRB	24	75	6	Right Flange	Black	N/A	N/A



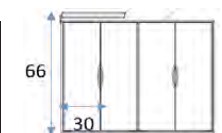
4 Door							
WM4FBG	24	75	4	Both sides	Grey	N/A	N/A
WM4FNG	24	75	4	No Flange	Grey	N/A	N/A
WM4FLG	24	75	4	Left Flange	Grey	N/A	N/A
WM4FRG	24	75	4	Right Flange	Grey	N/A	N/A
WM4FBB	24	75	4	Both sides	Black	N/A	N/A
WM4FNB	24	75	4	No Flange	Black	N/A	N/A
WM4FLB	24	75	4	Left Flange	Black	N/A	N/A
WM4FRB	24	75	4	Right Flange	Black	N/A	N/A



HM4FBG	30	75	4	Both sides	Grey	N/A	N/A
HM4FNG	30	75	4	No Flange	Grey	N/A	N/A
HM4FLG	30	75	4	Left Flange	Grey	N/A	N/A
HM4FRG	30	75	4	Right Flange	Grey	N/A	N/A



WM4FBB66	24	66	4	Both sides	Black	N/A	N/A
4 Door							
GM4FBG	30	66	4	Both sides	Grey	N/A	N/A
GM4FNG	30	66	4	No Flange	Grey	N/A	N/A
GM4FLG	30	66	4	Left Flange	Grey	N/A	N/A
GM4FRG	30	66	4	Right Flange	Grey	N/A	N/A

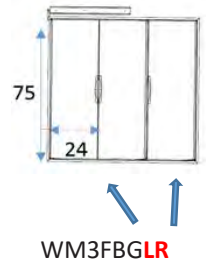


HM4FBB	30	75	4	Both sides	Black	N/A	N/A
HM4FNB	30	75	4	No Flange	Black	N/A	N/A
HM4FLB	30	75	4	Left Flange	Black	N/A	N/A
HM4FRB	30	75	4	Right Flange	Black	N/A	N/A

WM4FBB66	24	66	4	Both sides	Black	N/A	N/A
4 Door							
GM4FBB	30	66	4	Both sides	Black	N/A	N/A
GM4FNB	30	66	4	No Flange	Black	N/A	N/A
GM4FLB	30	66	4	Left Flange	Black	N/A	N/A
GM4FRB	30	66	4	Right Flange	Black	N/A	N/A

Doors For Walk-In Coolers

3 Door							
WM3FBGLR	24	75	3	Both sides	Grey	LEFT	Right
WM3FBGLL	24	75	3	Both sides	Grey	LEFT	LEFT
WM3FBGRL	24	75	3	Both sides	Grey	Right	LEFT
WM3FBGRR	24	75	3	Both sides	Grey	Right	Right
WM3FBBLR	24	75	3	Both sides	Black	LEFT	Right
WM3FBBLL	24	75	3	Both sides	Black	LEFT	LEFT
WM3FBBRL	24	75	3	Both sides	Black	Right	LEFT
WM3FBBRR	24	75	3	Both sides	Black	Right	Right



French doors on the Left
Remaining door swings to R

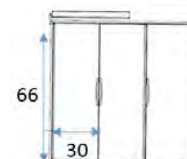
WM3FLGLR	24	75	3	Left Flange	Grey	LEFT	Right
WM3FLGLL	24	75	3	Left Flange	Grey	LEFT	LEFT
WM3FLGRL	24	75	3	Left Flange	Grey	Right	LEFT
WM3FLGRR	24	75	3	Left Flange	Grey	Right	Right
WM3FLBLR	24	75	3	Left Flange	Black	LEFT	Right
WM3FLBLL	24	75	3	Left Flange	Black	LEFT	LEFT
WM3FLBRL	24	75	3	Left Flange	Black	Right	LEFT
WM3FLBRR	24	75	3	Left Flange	Black	Right	Right

WM3FRGLR	24	75	3	Right Flange	Grey	LEFT	Right
WM3FRGLL	24	75	3	Right Flange	Grey	LEFT	LEFT
WM3FRGRL	24	75	3	Right Flange	Grey	Right	LEFT
WM3FRGRR	24	75	3	Right Flange	Grey	Right	Right
WM3FRBLR	24	75	3	Right Flange	Black	LEFT	Right
WM3FRBLL	24	75	3	Right Flange	Black	LEFT	LEFT
WM3FRBRL	24	75	3	Right Flange	Black	Right	LEFT
WM3FRBRR	24	75	3	Right Flange	Black	Right	Right

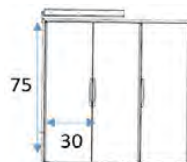
Kit Number	Door Width	Door Height	Number of Doors	Flange Style	Color	3 door French Location	3rd door Hinge Location
WM3FNGLR	24	75	3	No Flange	Grey	LEFT	Right
WM3FNGLL	24	75	3	No Flange	Grey	LEFT	LEFT
WM3FNGRL	24	75	3	No Flange	Grey	Right	LEFT
WM3FNGRR	24	75	3	No Flange	Grey	Right	Right
WM3FNBLR	24	75	3	No Flange	Black	LEFT	Right
WM3FNBLL	24	75	3	No Flange	Black	LEFT	LEFT
WM3FNBRL	24	75	3	No Flange	Black	Right	LEFT
WM3FNBRR	24	75	3	No Flange	Black	Right	Right

Doors For Walk-In Coolers

GM3FBBLR	30	66	3	Both sides	Black	LEFT	Right
GM3FNBLR	30	66	3	No Flange	Black	LEFT	Right
GM3FLBLR	30	66	3	Left Flange	Black	LEFT	Right
GM3FRBLR	30	66	3	Right Flange	Black	LEFT	Right



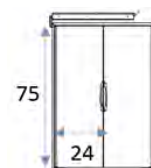
HM3FBBLR	30	75	3	Both sides	Black	LEFT	Right
HM3FNBLR	30	75	3	No Flange	Black	LEFT	Right
HM3FLBLR	30	75	3	Left Flange	Black	LEFT	Right
HM3FRBLR	30	75	3	Right Flange	Black	LEFT	Right



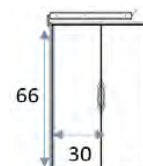
GM3FBGLR	30	66	3	Both sides	Black	LEFT	Right
GM3FNGLR	30	66	3	No Flange	Black	LEFT	Right
GM3FLGLR	30	66	3	Left Flange	Black	LEFT	Right
GM3FRGLR	30	66	3	Right Flange	Black	LEFT	Right

HM3FBGLR	30	75	3	Both sides	Black	LEFT	Right
HM3FNGLR	30	75	3	No Flange	Black	LEFT	Right
HM3FLGLR	30	75	3	Left Flange	Black	LEFT	Right
HM3FRGLR	30	75	3	Right Flange	Black	LEFT	Right

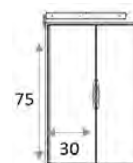
2 Door							
WM2FBG	24	75	2	Both sides	Grey	N/A	N/A
WM2FNG	24	75	2	No Flange	Grey	N/A	N/A
WM2FLG	24	75	2	Left Flange	Grey	N/A	N/A
WM2FRG	24	75	2	Right Flange	Grey	N/A	N/A
WM2FBB	24	75	2	Both sides	Black	N/A	N/A
WM2FNB	24	75	2	No Flange	Black	N/A	N/A
WM2FLB	24	75	2	Left Flange	Black	N/A	N/A
WM2FRB	24	75	2	Right Flange	Black	N/A	N/A



GM2FBB	30	66	2	Both sides	Black	N/A	N/A
GM2FLB	30	66	2	Left Flange	Black	N/A	N/A
GM2FRB	30	66	2	Right Flange	Black	N/A	N/A



HM2FBB	30	75	2	Both sides	Black	N/A	N/A
HM2FLB	30	75	2	Left Flange	Black	N/A	N/A
HM2FRB	30	75	2	Right Flange	Black	N/A	N/A



GM2FBG	30	66	2	Both sides	Black	N/A	N/A
GM2FLG	30	66	2	Left Flange	Black	N/A	N/A
GM2FRG	30	66	2	Right Flange	Black	N/A	N/A

HM2FBG	30	75	2	Both sides	Black	N/A	N/A
HM2FLG	30	75	2	Left Flange	Black	N/A	N/A
HM2FRG	30	75	2	Right Flange	Black	N/A	N/A

Doors For Walk-In Coolers

INSTALLATION INSTRUCTIONS

1. Check the width dimension of the cooler door opening. This dimensions should match, or be slightly larger than the size of the net opening. The net opening is calculated on Page 3 using the number and length of the frames to be installed.

2. Measure the height of the cooler door opening to ensure it is properly sized for the dimensions of the door frames to be installed. Also check for level at the bottom and sides of the cooler door opening. Make any adjustments to the cooler door dimension as needed.

3. Once it is known that the cooler opening is of sufficient size to install the frames, remove the crate and packaging from the first frame to be installed, working from left to right of the cooler opening. Remove the power supply box from the top of the frame, so it hangs from the conduit. Measure the frame to ensure it is straight.

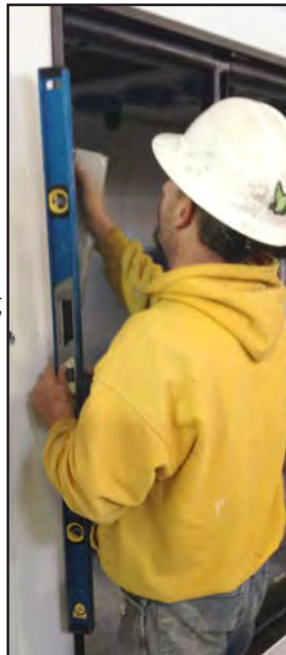
4. Pick up the first frame, and place it bottom first at the left side of the cooler opening. Find the right spacing, and check for level. If shims are needed, they must be used under the frame at frame fastening locations.

If the frame sits too tight in the cooler opening, insert the bottom of the frame into the bottom of the opening first. Tap top or bottom at right side of frame gently with a rubber mallet if necessary to move the frame square in the opening.

Drive to seat screws.

Do not over-torque door frame screws!

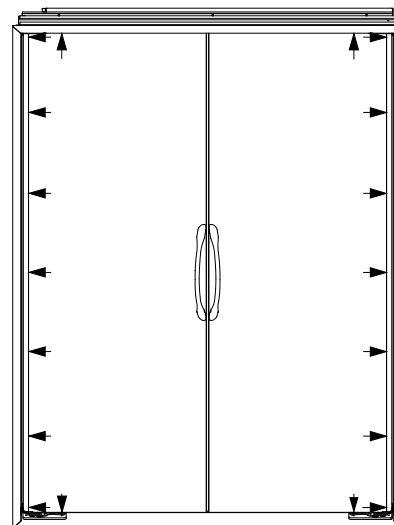
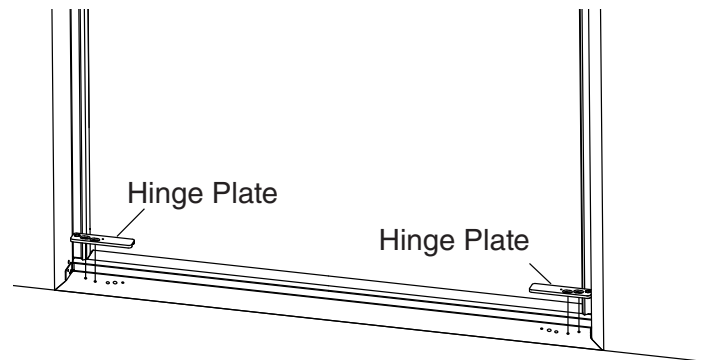
Do not hammer frame hard or it will crack!



REMOVE THE SHOULDER SCREW AND BOTTOM HINGE PLATE TO ACCESS PRE-DRILLED SCREW HOLE LOCATIONS. ANCHOR FRAME SCREWS TO BOTTOM AND TOP OF COOLER OPENING USING SCREWS. PLUG BUTTON MAY ALSO NEED TO BE REMOVED.



Bottom Hinge Plate
Shoulder Screw



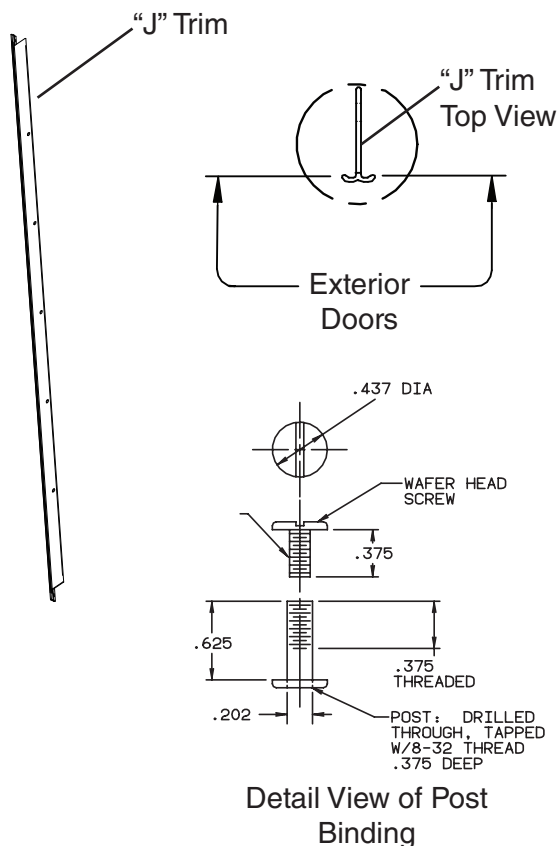
Frame Fastening Locations

Doors For Walk-In Coolers

4. Remove any braces from the cooler opening as frames are installed left to right. Use a level on the right horizontal side of the frame that was installed to make sure cooler frame is plumb. Install the remaining frames similarly. Plastic caps are provided for installation to hide the screws. For connecting frames, use a different screw post binding. Cover gap with moulding. Replace bottom hinge plates after the frames are secured to the opening. Set shoulder screws aside, shoulder screws will be installed to the door cams later in the instructions.

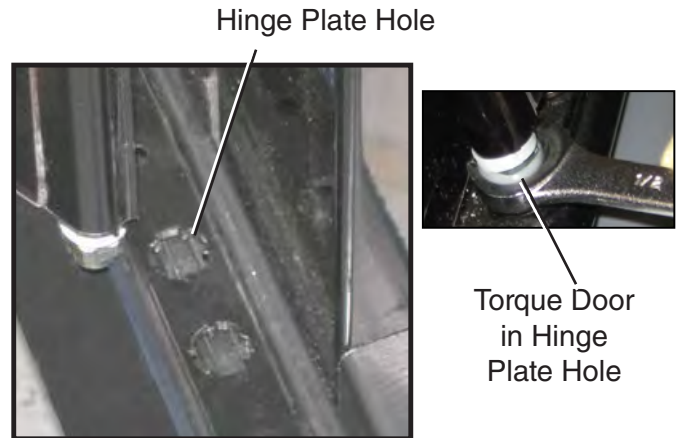
5. Remove the 1/4 in. screws from the power supply box. Use pre-drilled holes to screw the power supply box above the frames to the wall inside the cooler using supplied screws. Do not over-torque screws.

6. Install "J" (joint trim) between frames. If pre-drilled holes do not match, new holes may need to be drilled. Fasten screw binding male to female as shown below.



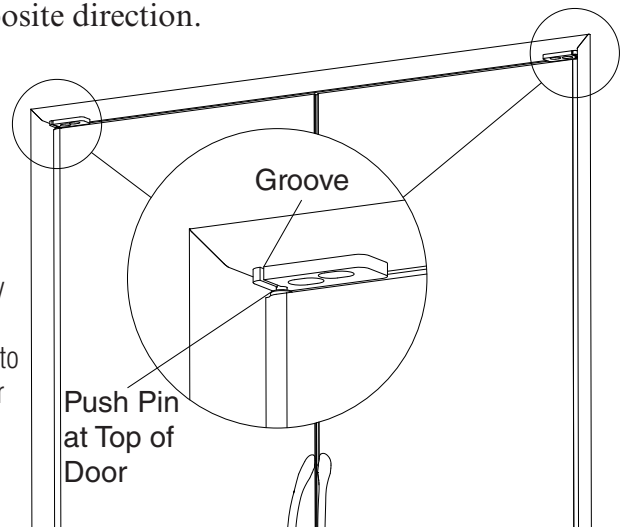
7. Install all the doors left to right. (Left and right side doors are crated separately.) Never lift doors by the handle during installation. Top of door must be in top push pin. Set the bottom of the door into the hinge plate hole. Push the pin down at top of door, and insert pin into groove at the top of the frame until it "snaps" into place. Torque the door using a 1/2 in. open-end wrench. **TURNING WRENCH TOWARD DOOR HANDLE ADDS TENSION.** Door will be adjusted again later in the instructions - 6 to 8 "clicks".

DO NOT OVER-TORQUE DOOR — NO MORE THAN 8 "CLICKS."



To remove torque from door, lift door directly out of the hinge plate. Do not attempt to remove torque by turning the wrench in the opposite direction.

NOTE: A small screwdriver may be used to push down Push Pin to remove the door (if necessary)

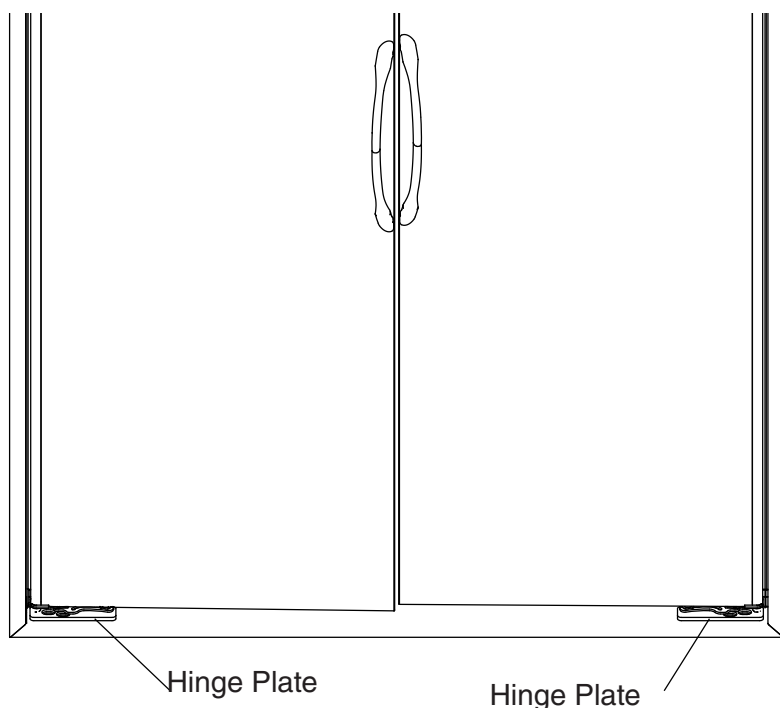


Doors For Walk-In Coolers

8. After all the doors are installed, some doors will need to be adjusted for good fit and finish. Effort to open door handle should not exceed 25 lbs. maximum force.

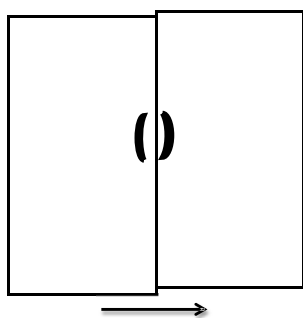
Loosen the hinge plate screws. Loosen the top hinge plate first and the bottom hinge plate next. Never loosen both at the same time. The doors can be slide left and right for adjustment.

Adjust saw tooth to fix any gaps or sag between the doors. Insert shoulder screw, passing through the door hold open cam. Door tension may be adjusted to no more than 8 clicks. If the door torsion rod is over torqued, damage to the hinge plate or door torsion rod may result.

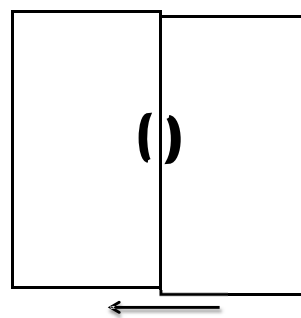


CAUTION

***Do not carry doors by handle.
Personal injury and damage to the
doors may result.***



To Correct Shift the Bottom Plate to the Right

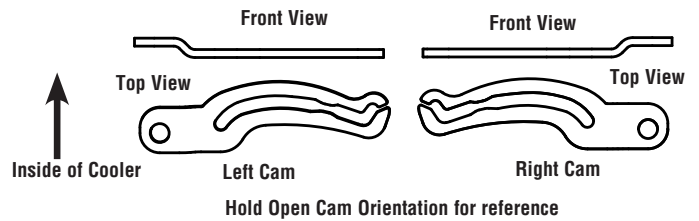


To Correct Shift the Bottom Plate to the Left

EcoVision Door Alignment - Modular Bottom Hinge Plate

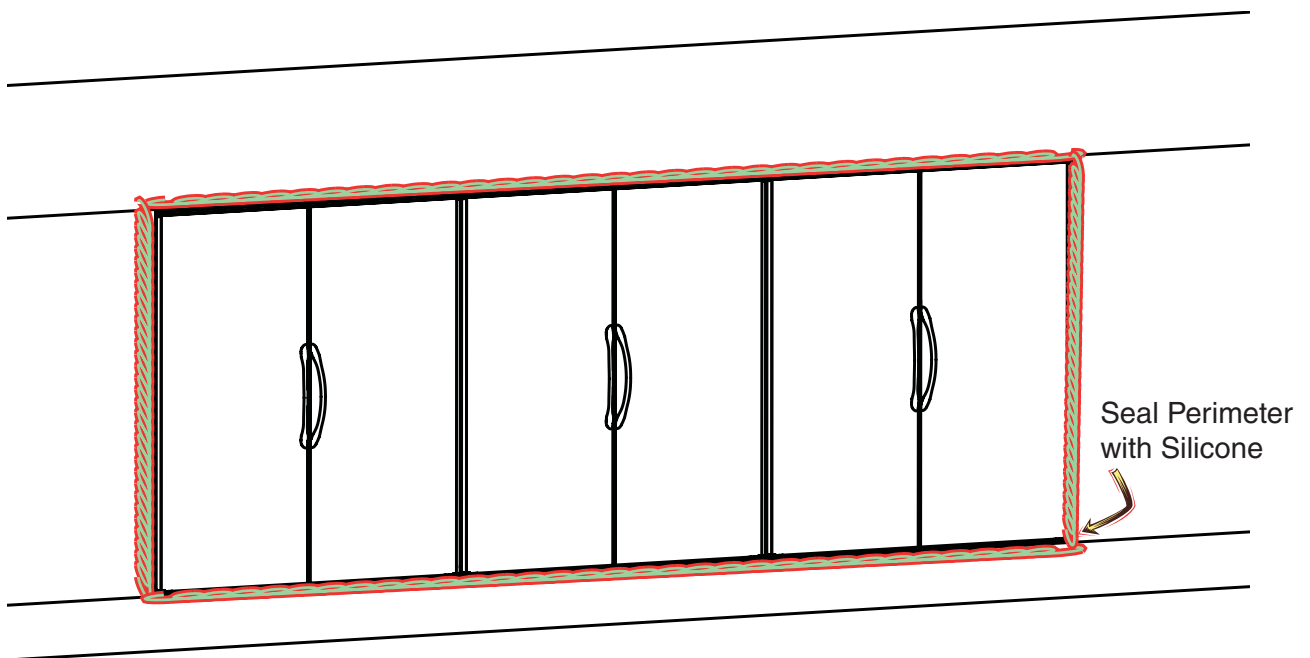
Doors For Walk-In Coolers

9. Ensure each door opens and closes properly. Left and right doors must close together at the same height, and gasket should lightly touch in the middle of the french doors when the doors are closed. Open all the doors to ensure the cams hold the doors open.



10. Silicone the perimeter of the cooler opening to ensure there are no air gaps around the frame and the cooler opening.

NOTE:
The cooler shelves have a 250 lb/ft load capacity.



Maintenance:

Follow store maintenance program. Add door open and closure check to periodic maintenance schedule. Door hold opens should be greased periodically according to store maintenance schedule (Crystal FM #2 Grease). Adjust all doors as shown in the illustration instructions if necessary.

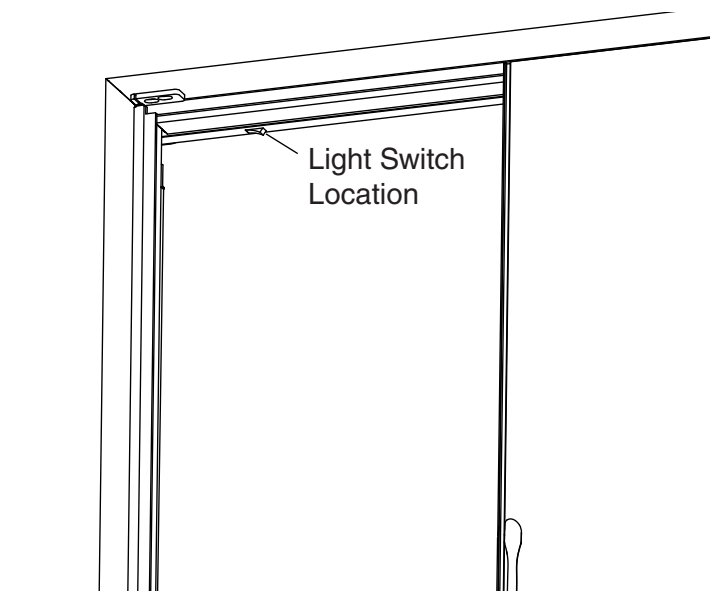
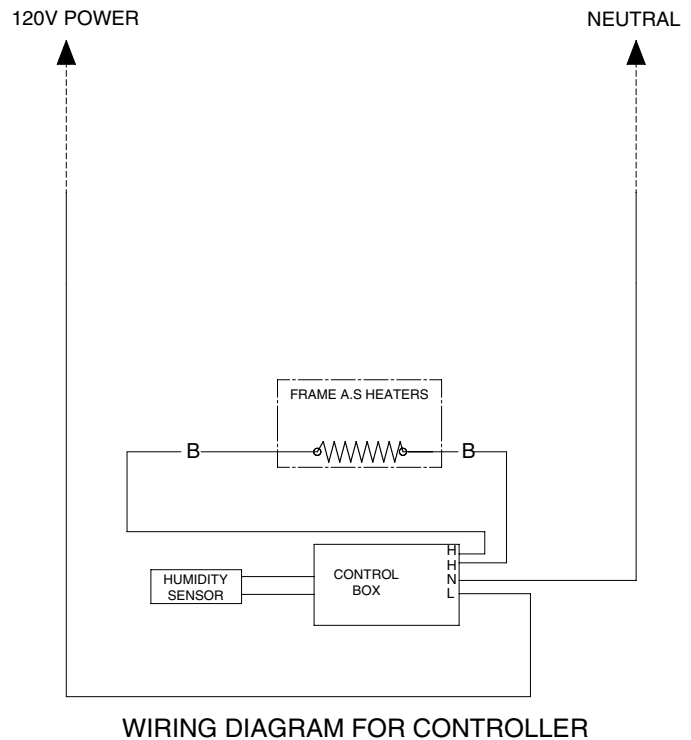
Doors For Walk-In Coolers

Conduit from Wireway

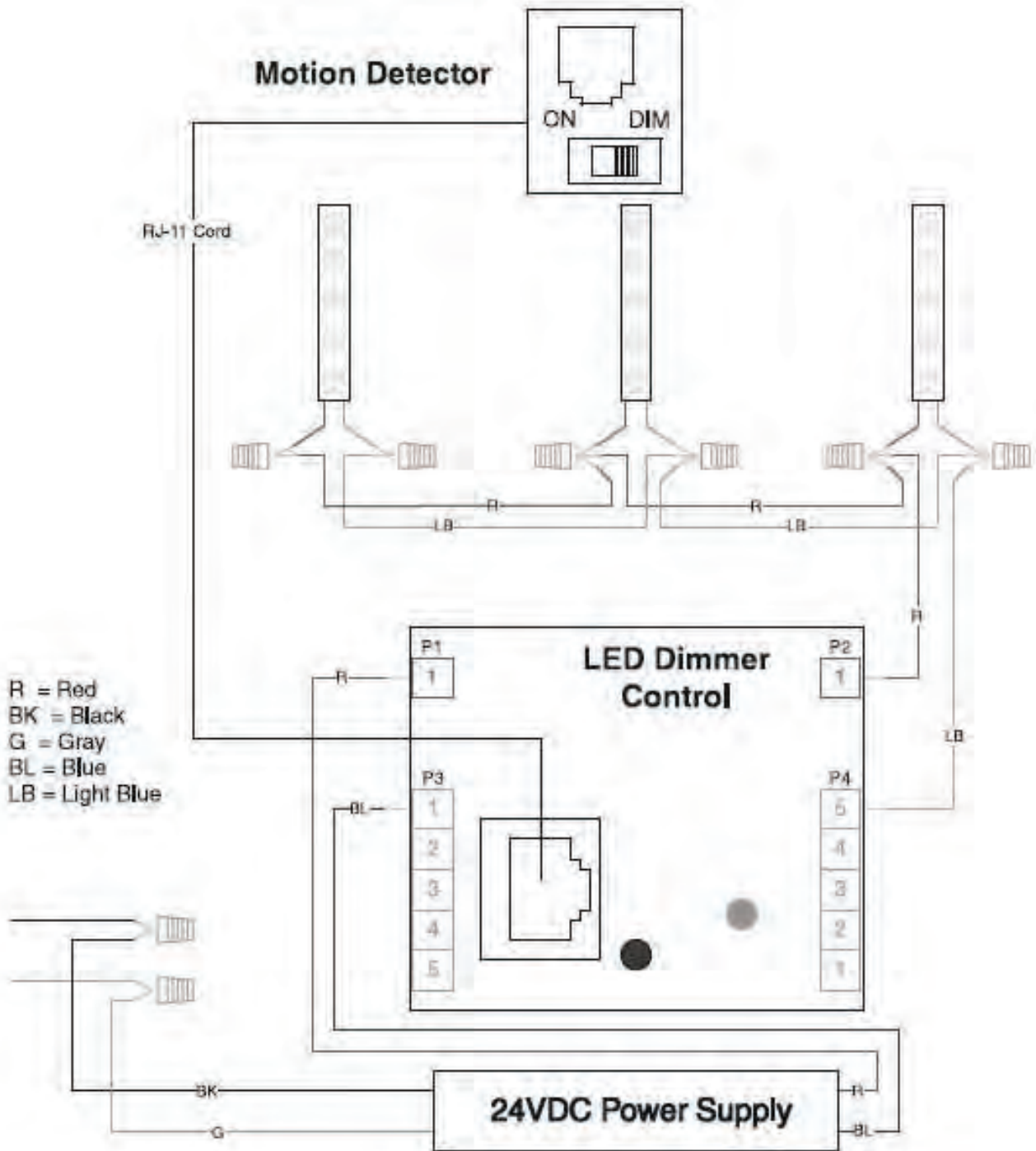
Each frame has the following wires in flexible conduit:

- A. The **Frame Heater Harness** is made of one black and one white wire; one or both will have a part number stamped visibly along the length of the wire.
- B. The **LED Harness** has one white wire and one black wire bound with Tiewrap.
- C. The **Ground** wire is green.

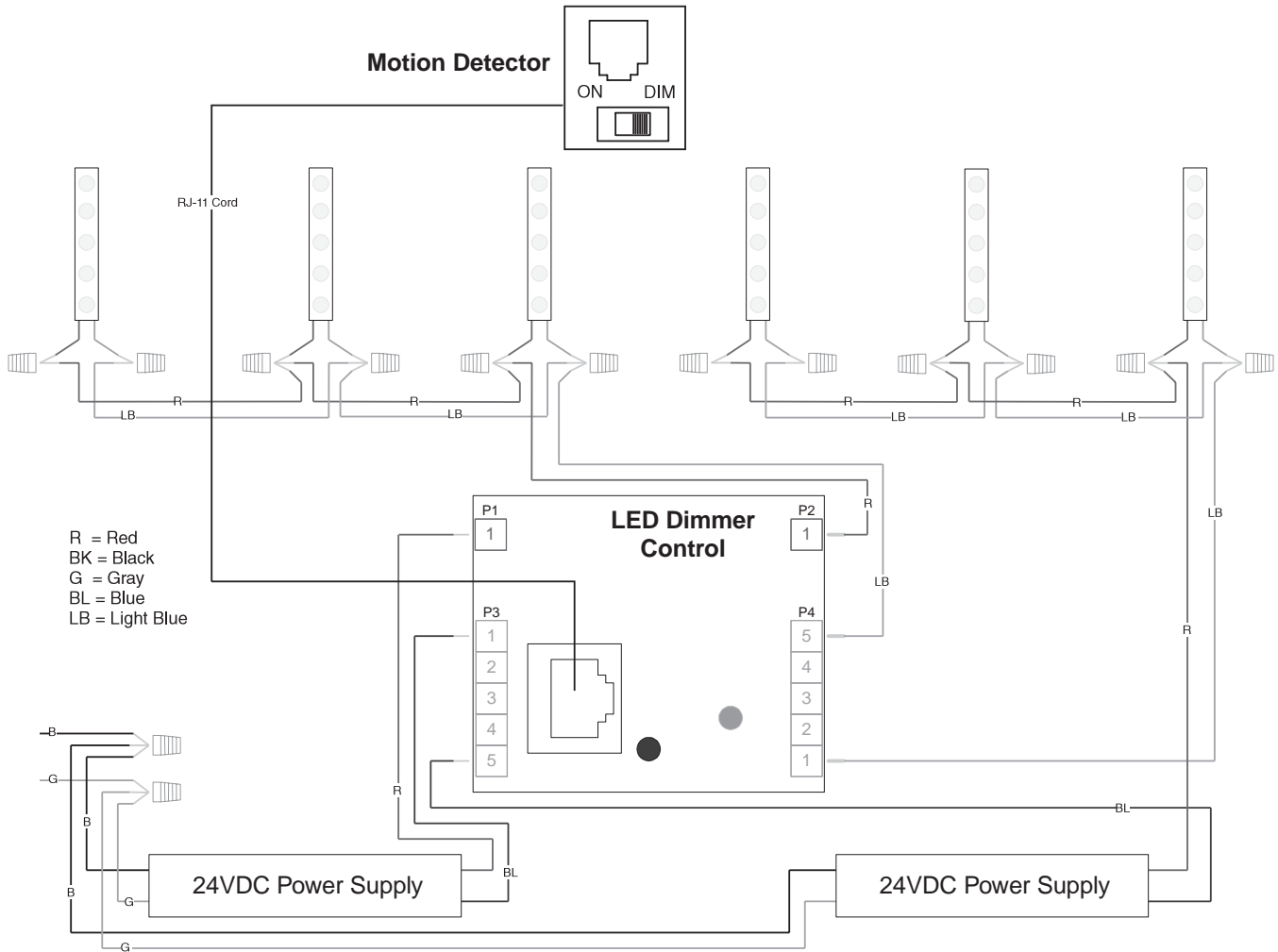
This photo shows the wiring with labels added for clarity. The diagram shows how the wires must be connected.



Doors For Walk-In Coolers



Doors For Walk-In Coolers



2 Door Wiring Diagram



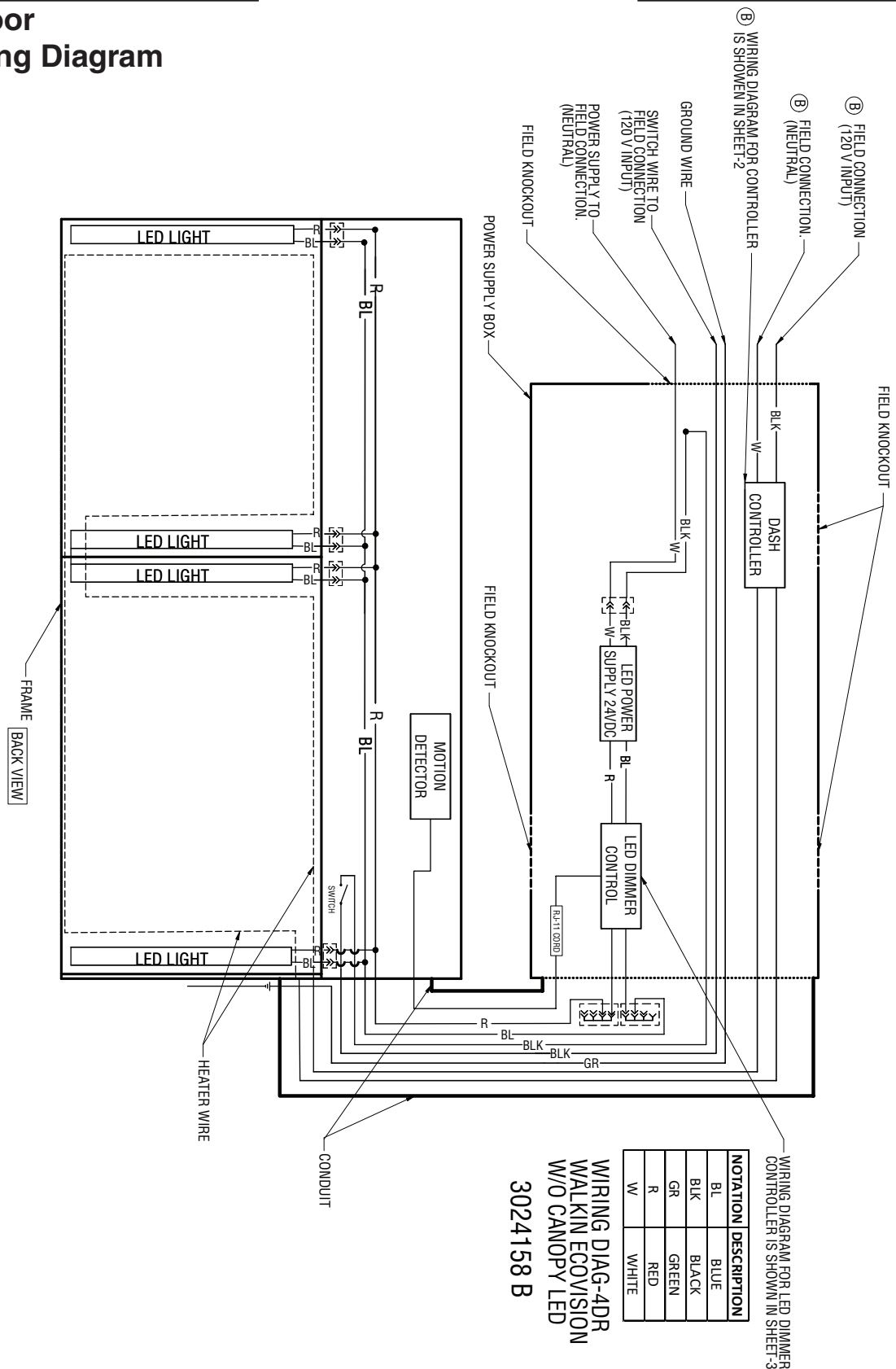
3 Door Left Hand and Right Hand Wiring Diagram



Doors For Walk-In Coolers

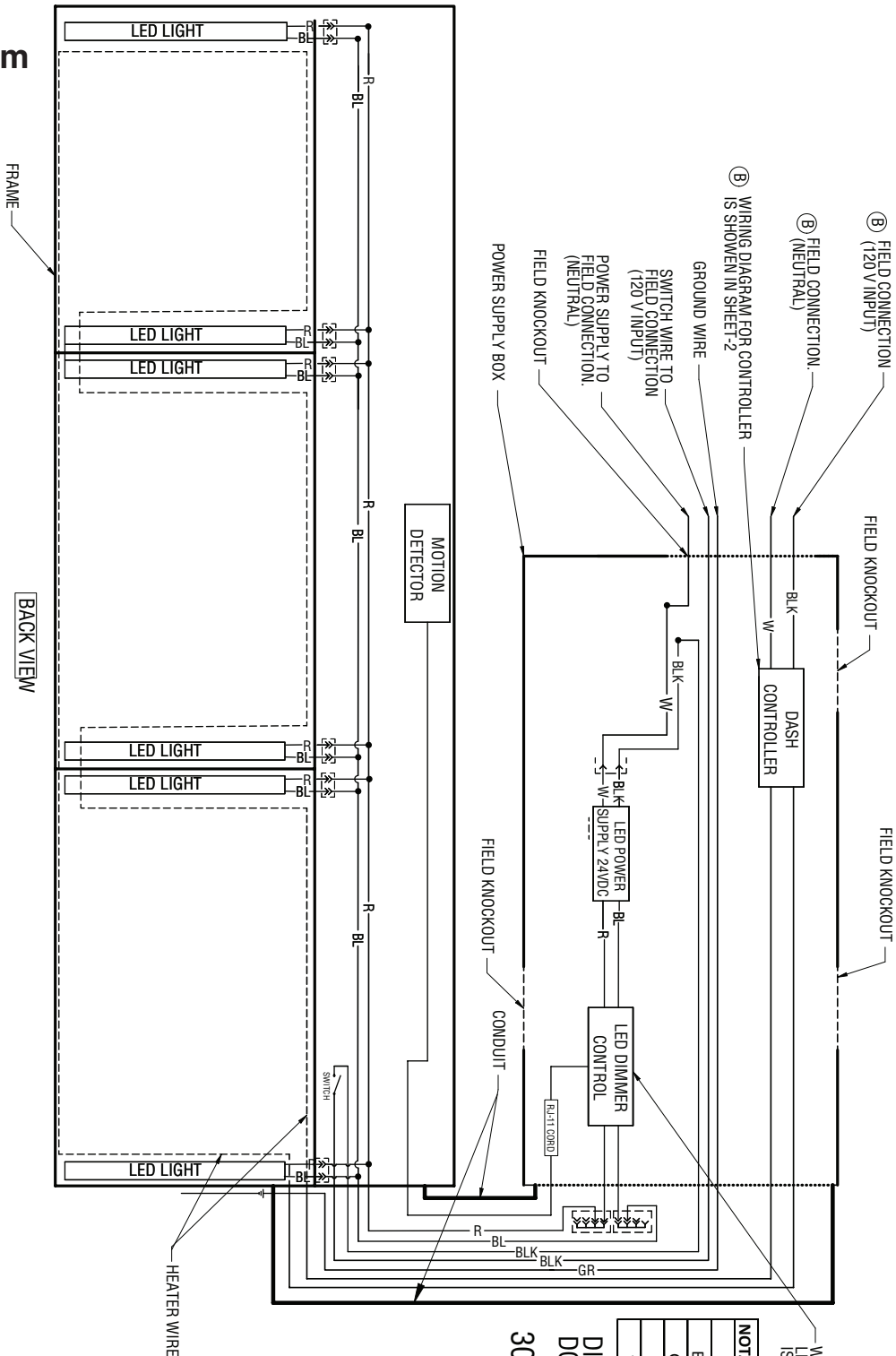
4 Door Wiring Diagram

Doors For Walk-In Coolers



Doors For Walk-In Coolers

6 Door Wiring Diagram



(B) WIRING DIAGRAM FOR
CLIMATE CONTROLLER
SHOWN IN SHEET-3

NOTATION	DESCRIPTION
BL	BLUE
BLK	BLACK
GR	GREEN
R	RED
W	WHITE

DIAGRAM-WIRING 6 DOOR LED

3032805 B



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or other support, contact your
Hussmann representative.
Please include the model and
serial number of the product.**

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