

We reserve the right to change or revise specifications and product design in connection with any feature of our products. Such changes do not entitle the buyer to corresponding changes, improvements, additions or replacements for equipment previously sold or shipped.

| Item | Part # | Description | Wiring Item # | Item | Part # | Description | Wiring Item # |
|---------------------------------------|----------------------------------|---|---------------|---------------------------|---------------------------------------|---|---------------|
| FAN ASSEMBLIES AND THERMOSTATS | | | | LAMPS AND BALLASTS | | | |
| A. | 7W Parent Fan Assembly | (1) | | E. | Ballast, Electronic | | |
| | 0058698 | Fan Motor, Standard (MO.4410102) | | | 0466234 | 2 lamps (BA.4480823) | (5) |
| | 0142780 | Fan Blade (FB.0142780) embossing toward motor | | | 0376410 | 3 lamps (BA.4480901) | (5) |
| B. | 12W End Compartment Fan Assembly | (2) | | F. | Ballast, Electronic (End Compartment) | | |
| | 0477655 | Fan Motor, Standard (MO.4410546) | | | 0135966 | 1 lamp (BA.4480883) | (6) |
| | 0377253 | Fan Blade (FB.4780616) embossing away from motor | | G. | 0039764 | Lamp Starter (EP.4481081) | (7) |
| C. | 0398558 | Standard Non-Adjustable Defrost Thermostat (CT.4481088) | (3) | H. | | Fluorescent Lamp <i>Replace with like fixtures</i> | (8) |
| D. | 0144732 | Optional Adjustable Refrigeration Thermostat (CT.4481085) | (4) | | | | |

NOTE: Revision D updates Btu note on page 3



Engineering Plan Views

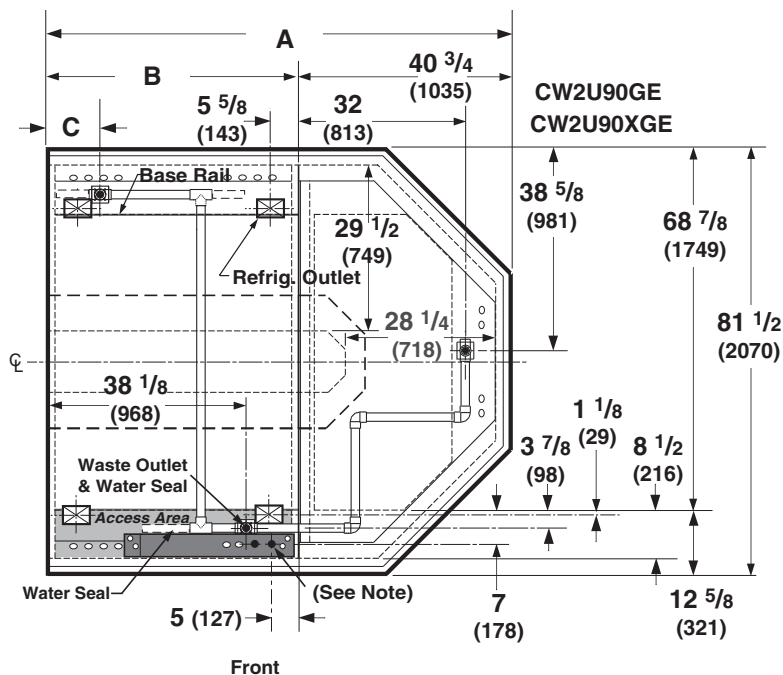
Unitized Convertible Island

05-2003

PHYSICAL DATA

| | |
|---------------------------------|-------|
| Merchandiser Drip Pipe (in.) | 1 1/4 |
| Merchandiser Liquid Line (in.) | 1/2 |
| Merchandiser Suction Line (in.) | 1 1/8 |

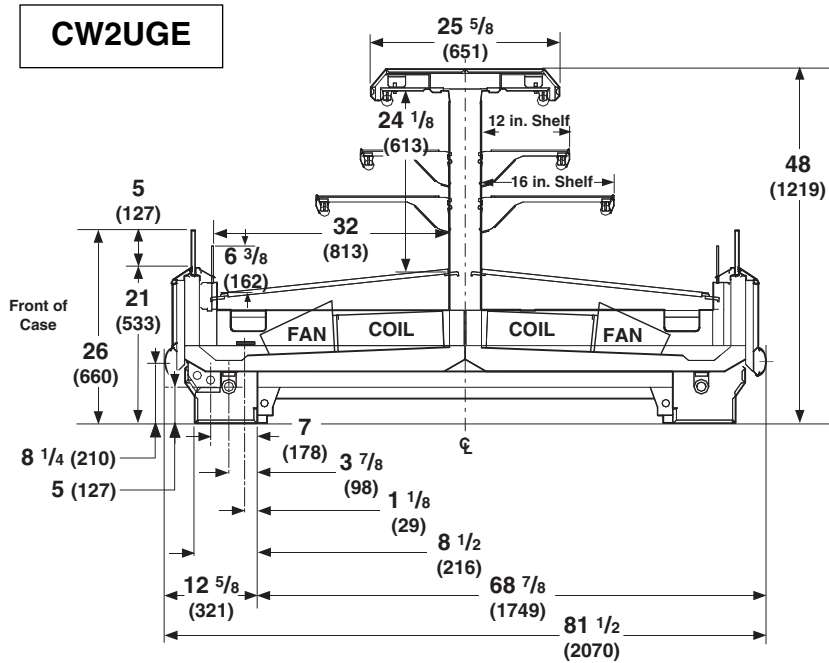
Dimensions shown as inches and (mm).



| | 90 in. | 138 in. |
|---|---------------|---------------|
| General | | |
| (A) Case Length (<i>without ends or partitions</i>) <i>(Each flat end adds 1 1/2 in. [38 mm] to lineup; each contour end adds 5 in. [127 mm].</i> Maximum O/S dimension of case front to rear (<i>includes bumper</i>) | 89 (2261) | 137 (3480) |
| (B) End of case to end of compartment | 48 1/4 (1226) | 96 1/4 (1478) |
| Length of the end compartment | 40 3/4 (1035) | 40 3/4 (1035) |
| Front of splashguard to O/S edge of base rail | 8 1/2 (216) | 8 1/2 (216) |
| Front edge of case to O/S edge of base rail | 12 5/8 (321) | 12 5/8 (321) |
| Rear of case to O/S edge of front base rail | 68 7/8 (1749) | 68 7/8 (1749) |
| Width of base rail | 2 1/8 (54) | 2 1/8 (54) |
| Stub-up area between front base rail and splashguard | 7 1/4 (184) | 7 1/4 (184) |
| Electrical Service | | |
| Note: <i>Electrical Field Wiring connection point</i> | | |
| Center of Electrical service to O/S edge of front base rail | 7 (178) | 7 (178) |
| Right end of case to center of knockout | 5 (127) | 5 (127) |
| Length of electrical raceway | 32 5/8 (829) | 32 5/8 (829) |
| Waste Outlet | | |
| (C) LH end of case to the center of rear waste outlet | 10 1/8 (257) | 58 1/8 (1476) |
| Center of waste outlet to O/S edge of rear base rail | 3 7/8 (98) | 3 7/8 (98) |
| Left end of case to center of front waste outlet | 38 1/8 (968) | 38 1/8 (968) |
| Left edge of end compartment to center of waste outlet | 32 (813) | 32 (813) |
| Rear edge of end compartment to center of waste outlet | 38 5/8 (981) | 38 5/8 (981) |
| Water Seal | | |
| Water seal length | 11 (279) | 11 (279) |
| Schedule 40 PVC drip pipe | 1 1/4 (32) | 1 1/4 (23) |
| <i>Water seal outlet must be near front skid rail.</i> | | |
| Refrigeration Outlet | | |
| RH & LH end of case to center of refrigeration outlets | 5 5/8 (143) | 5 5/8 (143) |
| Center of refrigeration outlet to O/S edge of front base rail | 1 1/8 (29) | 1 1/8 (29) |

Impact CW2UGE
Unitized Convertible Island

Dimensions shown as inches and (mm).



NSF Certification

This merchandiser model is manufactured to meet ANSI/NSF (National Sanitation Foundation) Standard #7 requirements for construction, materials & cleanability.

REFRIGERATION DATA

Note: This data is based on store temperature and humidity that does not exceed 75°F and 55% R.H.

| | CW2U 90GE | CW2U 138GE |
|----------------------------|--------------|---------------|
| Discharge Air (°F) | 28 | 28 |
| Evaporator Air (°F) | 21 | 21 |
| Unit Sizing (°F) | 19 | 19 |

| <i>Btu/hr/case*</i> | CW2U 90GE | CW2U 138GE |
|---------------------|--------------|---------------|
| Parallel | 10,520 | 16,440 |
| Conventional | 11,660 | 18,220 |

*Optional energy efficient motors reduce the refrigeration load of:
CW2U-90GE by 171 Btu/hr/case
CW2U-138GE by 341 Btu/hr/case.

DEFROST DATA

| | CW2U 90GE | CW2U 138GE |
|---|--------------|---------------|
| Frequency (hr) | 6 | 6 |
| Defrost Water (lb/day) | 72 | 112 |
| <i>(± 15% based on case configuration and product loading.)</i> | | |
| OFFTIME | CW2U 90GE | CW2U 138GE |
| Temp Term (°F) | 48° | 48° |
| Failsafe (minutes) | 45 | 45 |

ELECTRIC OR GAS Not Recommended

Standard Defrost Thermostat

Close on rise: close 48°F — open 33°F

CONVENTIONAL CONTROLS

Low Pressure Backup Control

| | CW2U 90GE | CW2U 138GE |
|-------------------------|--------------|---------------|
| CI/CO (Temp °F)* | 17°/7° | 17°/7° |

Indoor Unit Only, Pressure Defrost Termination (Temp °F)*48° 48°

*Use a Temperature Pressure Chart to determine PSIG conversions.

PHYSICAL DATA

Estimated Charge (lb)**

| | |
|-------------------|-----|
| CW2U-90GE | 4.0 |
| CW2U-138GE | 6.3 |

**This is an average for all refrigerant types. Actual refrigerant charge may vary by approximately half a pound.

| |
|--|
| Impact CW2UGE Unitized Convertible Island |
|--|

Electrical Data

| | | | 90 in. | 138 in. | | |
|--|------|------------------|----------------|----------------|---------------|----------------|
| Number of Fans—7W | | | 2 | 4 | | |
| Number of Fans—12W | | | 2 | 2 | | |
| | | | Amperes | | | |
| | | | 90 in. | 138 in. | | |
| | | | | | Watts | |
| | | | | | 90 in. | 138 in. |
| Evaporator Fan | | | | | | |
| 120V | 60Hz | Standard | 1.60 | 2.60 | 114 | 192 |
| 120V | 50Hz | Standard | | | | |
| 230V | 60Hz | Export | NA | | NA | |
| 230V | 50Hz | Export | NA | | NA | |
| 120V | 60Hz | Energy Efficient | 0.98 | 1.36 | 64 | 92 |
| 230V | 60Hz | Energy Efficient | | | | |
| Cycling Anti-sweat Heaters | | | None | | | |
| Minimum Circuit Ampacity | | | | | | |
| 120V | 60Hz | Standard | 1.80 | 2.80 | | |
| 120V | 50Hz | Standard | NA | | | |
| 230V | 60Hz | Export | NA | | | |
| 230V | 50Hz | Export | NA | | | |
| 120V | 60Hz | Energy Efficient | 1.18 | 1.56 | | |
| 230V | 60Hz | Energy Efficient | NA | | | |
| Maximum Over Current Protection 120V | | | 20 | 20 | | |
| Maximum Over Current Protection 230V | | | 15 | 15 | | |
| 208V Electric Defrost Heaters | | | None | | | |
| Standard Lighting (T-8 Fluorescent) | | | | | | |
| 1 Row Canopy | | | 1.31 | 1.82 | 99 | 158 |
| Optional Lighting (T-8 Fluorescent) | | | | | | |
| Additional 1 Row Canopy | | | | | | |
| Additional 2 Row Canopy | | | 1.82 | 2.84 | 158 | 276 |
| Optional Shelf Lighting (T-8 Fluorescent) | | | | | | |
| 1 Rows of Shelves | | | 1.31 | 1.82 | 99 | 158 |
| 2 Rows of Shelves | | | 2.62 | 3.64 | 198 | 316 |

Note 1: All CW2 end compartments are equipped with Energy Efficient fan motors as standard.

Note 2: CW2 end compartments are not available with 2 row canopy lighting due to space constraints.

Impact CW2UGE
Unitized Convertible Island

Product Data

CW2U90GE

| | |
|--|---|
| <i>Recommended Usable Cube</i> ¹ (Cu Ft / Case) | 43.07 ft ³ /case (1.22 m ³ /case) |
| <i>ARI Total Display Area</i> ² (Sq Ft / Case) | 39.66 ft ² /case (3.68 m ² /case) |
| <i>Shelf Area</i> ³ (Sq Ft / Case) | 70.40 ft ² /case (6.54 m ² /case) |

- ¹ ARI Refrigerated Volume less shelving and other unusable space: Refrigerated Volume/Unit of Length, ft³/ft [m³/m]
- ² Computed using ARI 1200 standard methodology: Total Display Area, ft² [m²]/Unit of Length, ft [m]
- ³ Shelf surface area is composed of bottom deck plus standard shelf complement, as shown in the Hussmann *Product Reference Guide*. The standard shelf complement for this model is (2) rows of 12-inch shelves and (2) rows of 18-inch shelves.

Product Data

CW2U138GE

| | |
|--|--|
| <i>Recommended Usable Cube</i> ¹ (Cu Ft / Case) | 67.67 ft ³ /case (1.92m ³ /case) |
| <i>ARI Total Display Area</i> ² (Sq Ft / Case) | 61.02 ft ² /case (5.67 m ² /case) |
| <i>Shelf Area</i> ³ (Sq Ft / Case) | 110.24 ft ² /case (10.24m ² /case) |

- ¹ ARI Refrigerated Volume less shelving and other unusable space: Refrigerated Volume/Unit of Length, ft³/ft [m³/m]
- ² Computed using ARI 1200 standard methodology: Total Display Area, ft² [m²]/Unit of Length, ft [m]
- ³ Shelf surface area is composed of bottom deck plus standard shelf complement, as shown in the Hussmann *Product Reference Guide*. The standard shelf complement for this model is (2) rows of 12-inch shelves and (2) rows of 18-inch shelves.

ESTIMATED SHIPPING WEIGHT ⁵

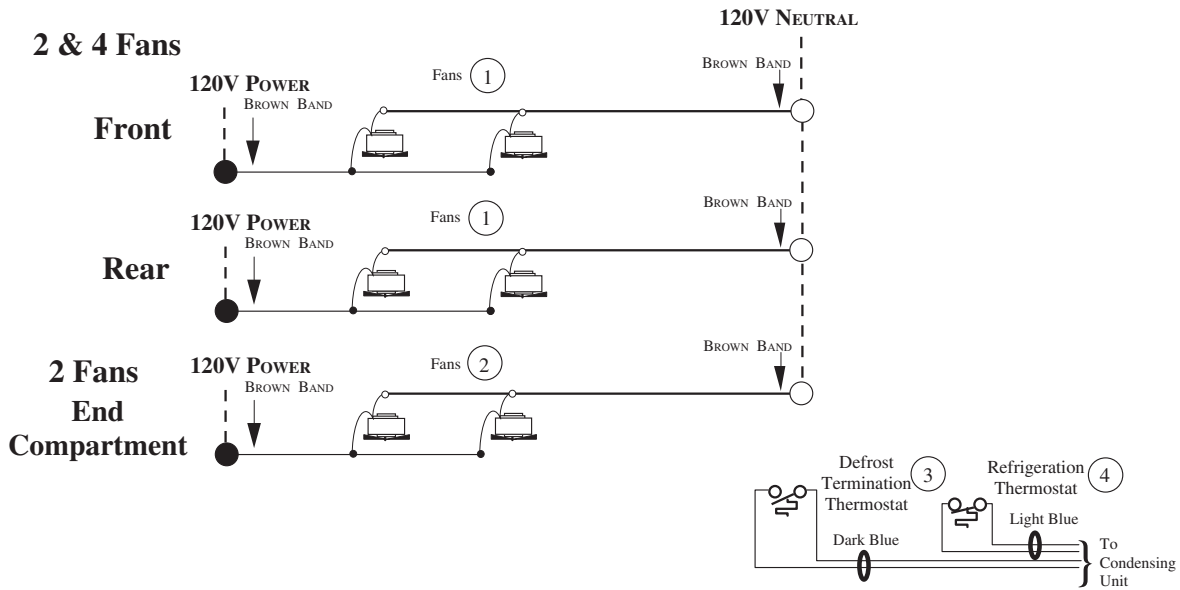
Case

CW2U-90GE *CW2U-138GE*

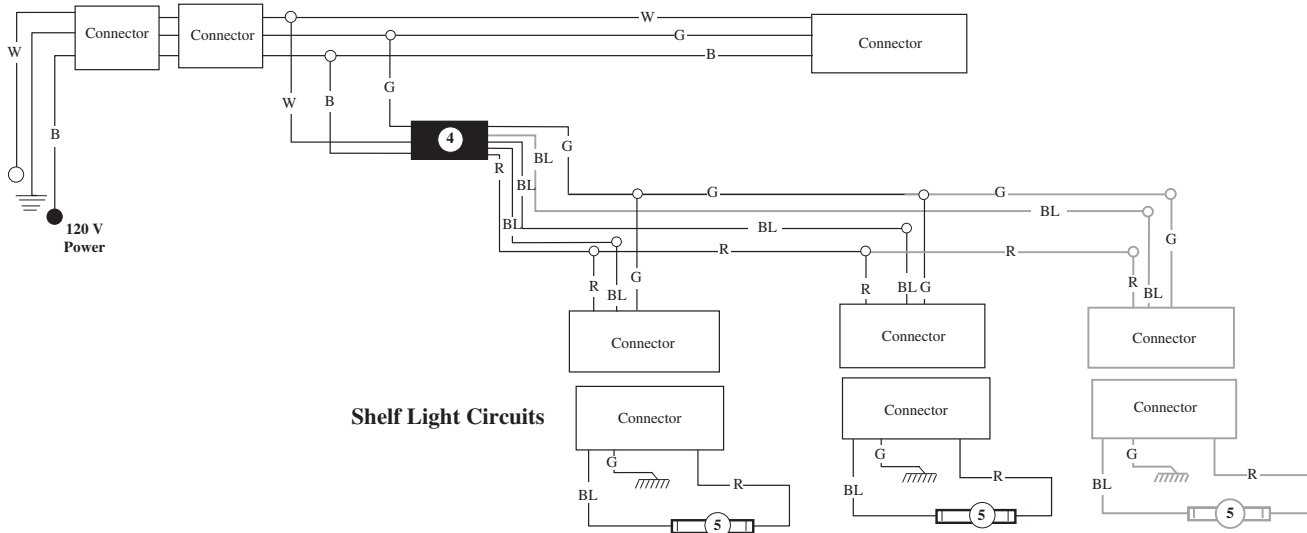
lb (kg)

⁵ Actual weights will vary according to optional kits included.

Fan Wiring Offtime Defrost



Optional Shelf Lighting



WARNING

All components must have mechanical ground, and the merchandiser must be grounded.

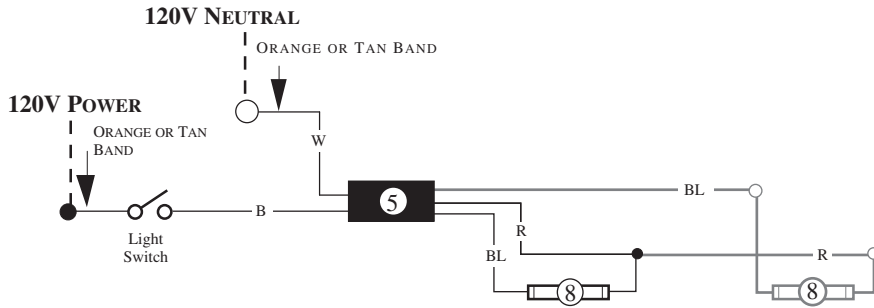
CIRCLED NUMBERS = PARTS LIST ITEM NUMBERS

Grayed components in 138 models only.

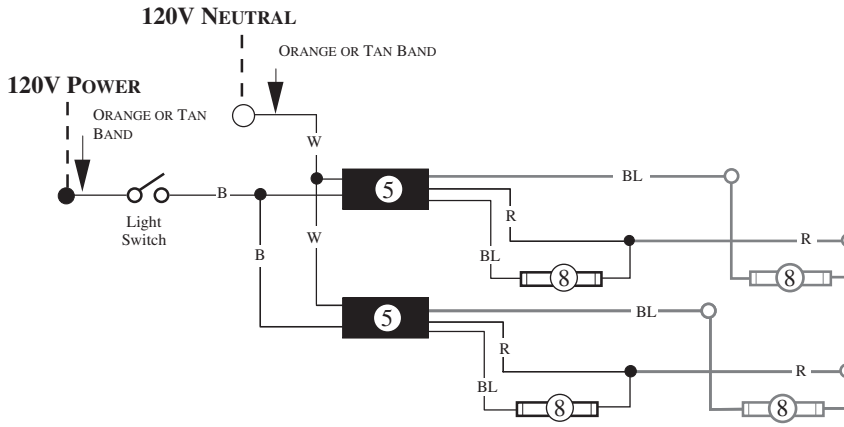
R = Red Y = Yellow G = Green BL = Blue B = Black W = White

● = 120V POWER ○ = 120V NEUTRAL ≡ = FIELD GROUND ≡ = CASE GROUND

Standard Lighting 1 Row Canopy



Optional Lighting 2 Rows Canopy



WARNING

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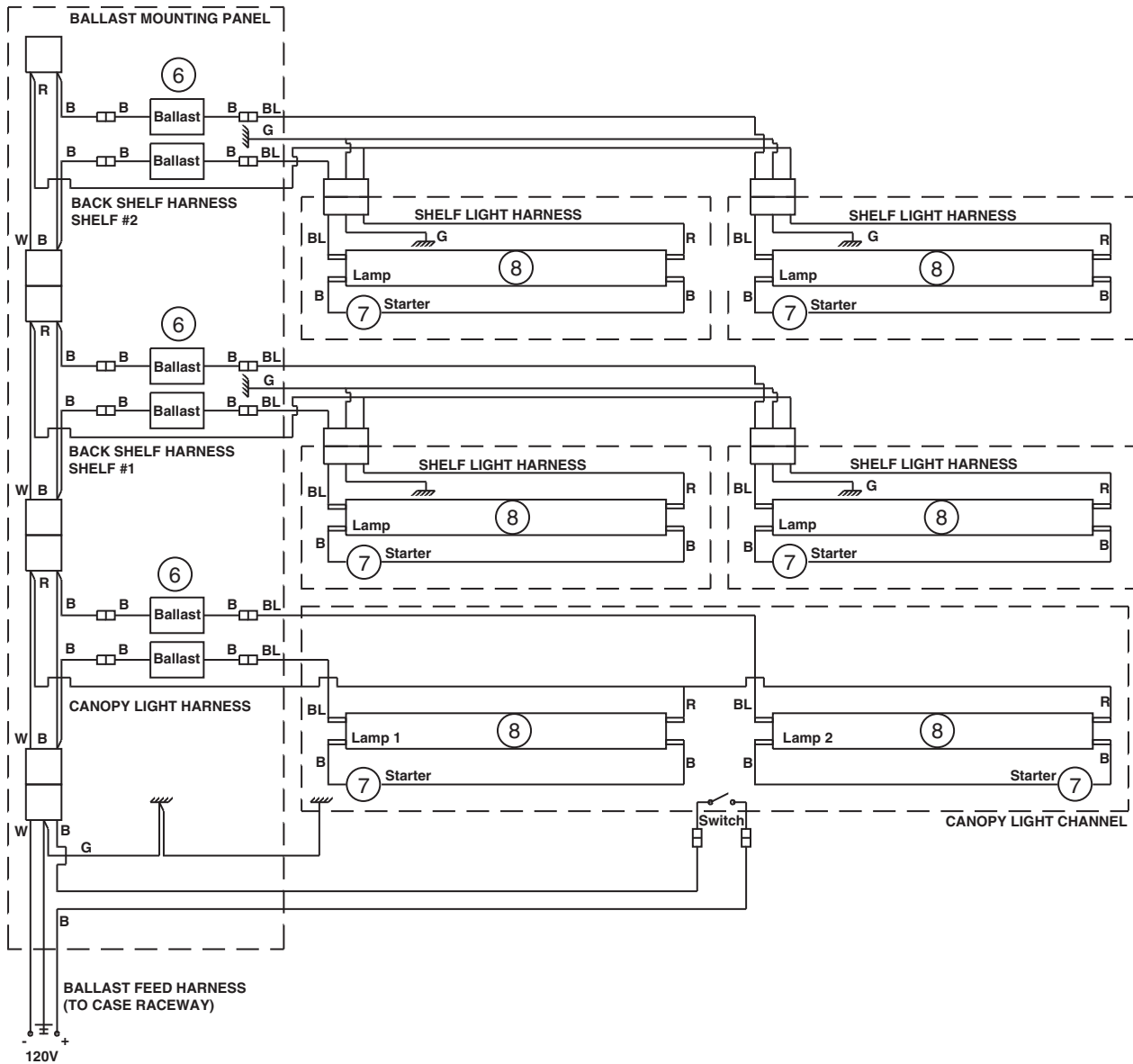
R = Red Y = Yellow G = Green BL = Blue B = Black W = White

● = 120V POWER ○ = 120V NEUTRAL

Light Circuits

CW2U-90GE/138GE End Compartment Lighting Schematic

(Standard canopy lighting and optional shelf lighting are shown)



WARNING

All components must have mechanical ground, and the merchandiser must be grounded.

CIRCLED NUMBERS = PARTS LIST ITEM NUMBERS

R = Red Y = Yellow G = Green BL = Blue B = Black W = White

● = 120V POWER ○ = 120V NEUTRAL