

# HUSSMANN®

# microSC™

## FNGSC-A

Dual Temperature

Deli / Beverage / Frozen Food /

Produce / Meat

Air-Cooled

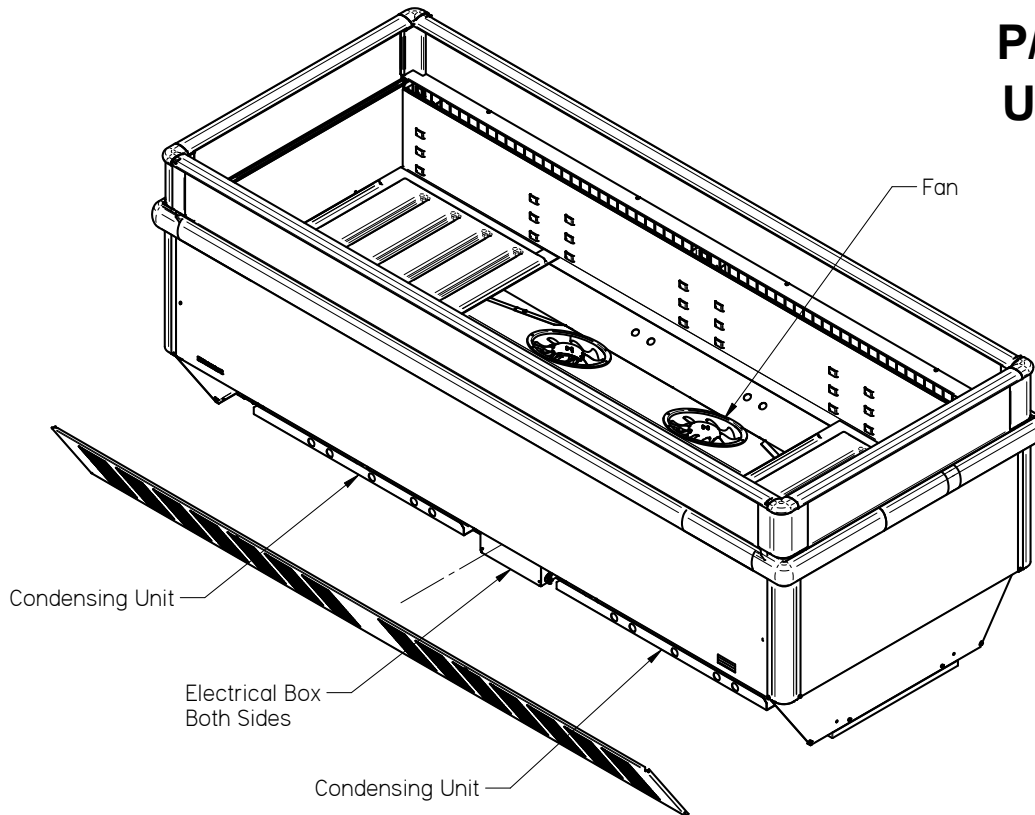
R-290

Merchandise Data Sheet

**P/N 3141957\_E**

**UL EPH® Certified**

December 2021



8 foot model shown above.

Portion of parts removed for clarity.

**This product is certified for NSF Type I ambient applications (75°F / 55% RH).**

### UL EPH Certification

This merchandiser model is manufactured to meet ANSI/SCC Standards requirements for construction, materials, and cleanability.

|                                |        |   |        |
|--------------------------------|--------|---|--------|
| Performance Data               | Page 2 | Estimated Shipping Weights                | Page 5 |
| Product Data (AHRI Statistics) | Page 2 | Wiring Diagrams                           | Page 6 |
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| Electrical Loads               | Page 5 |   |        |

Data sheet-FNGSC-A

**⚠ WARNING**  
 Component parts shall be replaced with like components, and servicing shall be done by factory authorized service personnel only, so as to minimize the risk of possible ignition due to incorrect parts or improper service.

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.

# FNGSC-A

Deli / Beverage / Frozen Food / Produce / Meat

## Refrigeration Data <sup>1\*\*</sup>

|                      |                                      | Deli / Beverage / Frozen Food / Produce / Meat |                           |                           |                           |                           |                           |
|----------------------|--------------------------------------|--|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
|                      |                                      | 4 Foot   |                           | 6 Foot                    |                           | 8 Foot                    |                           |
|                      |                                      | Low Temp - FF                                  | Medium Temp - NSF Type 1  | Low Temp - FF             | Medium Temp - NSF Type 1  | Low Temp - FF             | Medium Temp - NSF Type 1  |
| Refrigeration        | Discharge Air °F (°C)                | -19 to -9<br>(-28 to -22)                      | 20 to 38<br>(-6 to 3)     | -19 to -9<br>(-28 to -22) | 16 to 40<br>(-8 to 4)     | -19 to -9<br>(-28 to -22) | 20 to 38<br>(-6 to 3)     |
|                      | Average Evaporator °F (°C)           | -23 to 19<br>(-31 to -7)                       | -1.5 to 6<br>(-18 to -14) | -23 to 19<br>(-31 to -7)  | -1.5 to 6<br>(-18 to -14) | -23 to 19<br>(-31 to -7)  | -1.5 to 6<br>(-18 to -14) |
|                      | Total Heat of Rejection <sup>2</sup> | 3343   |                           | 5064                      |                           | 6686                      |                           |
| Condensing Unit      | System Cooling Capacity <sup>3</sup> | 2018   |                           | 2366                      |                           | 4036                      |                           |
| Evaporator Fan Speed | 8" Fan Assembly                      | 900  |                           | 1100                      |                           | 900                       |                           |
| Compressors          | Compressor Quantity                  | 1  |                           | 2                         |                           | 2                         |                           |

**Notes:**

- All data based on store temperature and humidity that does not exceed NSF Type 1 ambient conditions of 75°F and 55% relative humidity except where noted.
- Total Heat of Rejection listed for maximum design conditions, normal operating loads may be lower.
- System Cooling Capacity is calculated at an evaporator temperature of -31°F and a condensing temperature of 113°F.

## Defrost Data

|                                      |         |
|--------------------------------------|---------|
| Frequency (hours between defrost)    | 8       |
| Defrost Type                         | Hot Gas |
| Defrost Termination (Temperature °F) |         |
| Low Temperature                      | 38      |
| Medium Temperature                   | 45      |
| Time (minutes)                       | 50      |

## Sound Data

| 4 Foot  | 6 Foot  | 8 Foot  |
|---------|---------|---------|
| 63.1 dB | 63.9 dB | 67.3 dB |

## Energy Consumption Data<sup>4, 5</sup> DEC (kWh/day)

| 4 Foot | 6 Foot | 8 Foot |
|--------|--------|--------|
| 17.22  | 30.81  | 30.66  |

<sup>4</sup> Energy values obtained under AHRI 1200 evaluating case performance with frozen food conditions of IAT 0°F.

<sup>5</sup> 4 and 8 foot cases utilize variable speed compressors (6 foot cases utilize fixed speed compressors).

## Refrigerant Data Refrigerant Type: R-290

### Charge<sup>6</sup>

|        |        |        |       |
|--------|--------|--------|-------|
| 4 Foot | .26 lb | 4.2 oz | 120 g |
| 6 Foot | .40 lb | 6.3 oz | 180 g |
| 8 Foot | .57 lb | 9.2 oz | 260 g |

<sup>6</sup> 8 foot has 2 circuits (each circuit has 130 g.). 6 foot has 2 circuits (each circuit is 90 g.). 4 foot has 1 circuit.

## Product Data<sup>7</sup>

|  | 4 Foot | 6 Foot | 8 Foot |
|--|--------|--------|--------|
| Total Display Area (ft <sup>2</sup> )                | 11.1   | 16.65  | 22.2   |
| Total Display Area (ft <sup>2</sup> /ft)             | 2.78   |        |        |
| Shelf Area (in <sup>2</sup> )                        | 1598.4 | 2397.6 | 3196.8 |
| Shelf Area (ft <sup>2</sup> )                        | 11.10  | 16.65  | 22.20  |
| Shelf Area (ft <sup>2</sup> /ft)                     | 2.8    |        |        |
| AHRI Gross Refrigerated Volume (cu ft <sup>3</sup> ) | 8.3    | 12.5   | 16.6   |
| AHRI Gross Refrigerated Volume (cu ft/ft)            | 2.1    |        |        |
| AHRI Gross Refrigerated Volume (cu m/m)              | 0.19   |        |        |
| Total Display Area (sq m/m)                          | 2.07   |        |        |
| Shelf Area (m <sup>2</sup> /m)                       | 0.85   |        |        |

<sup>7</sup> Computed using AHRI 1200 standard methodology.

Self-Contained Horizontal Merchandiser,  
Air-Cooled, Self-Contained R-290

**FNGSC-A**  
Deli / Beverage /  
Frozen Food /  
Produce / Meat

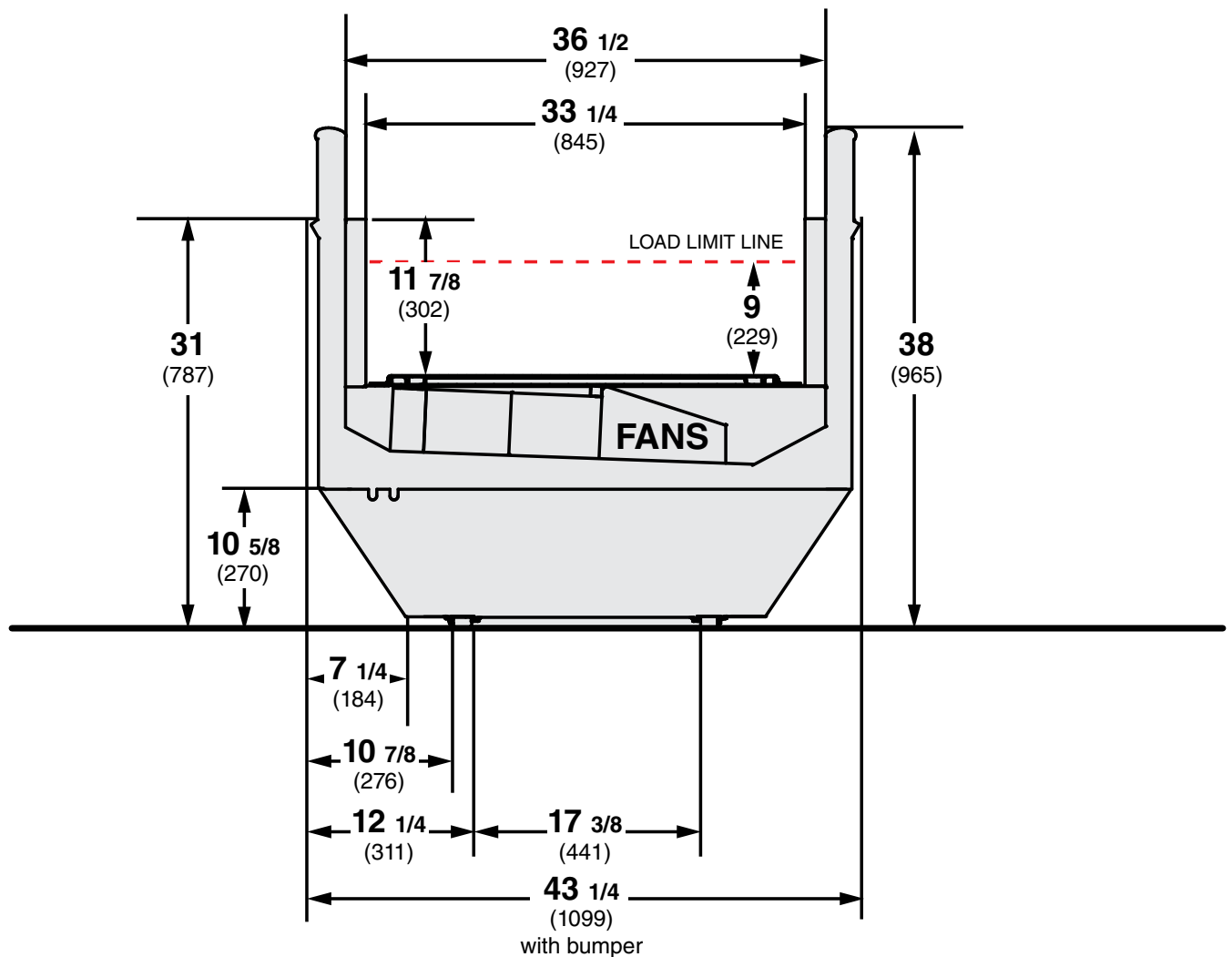
**DOE 2017**  
Energy Efficiency  
Compliant

Husmann refrigerated merchandisers configured for sale for use in the United States meet or surpass the requirements of the DOE 2017 energy efficiency standards.

A clearance of 30-in is needed around the case to ensure no obstruction in the condensing unit air flow.

Dimensions shown as in. and (mm).

**FNGSC-A**



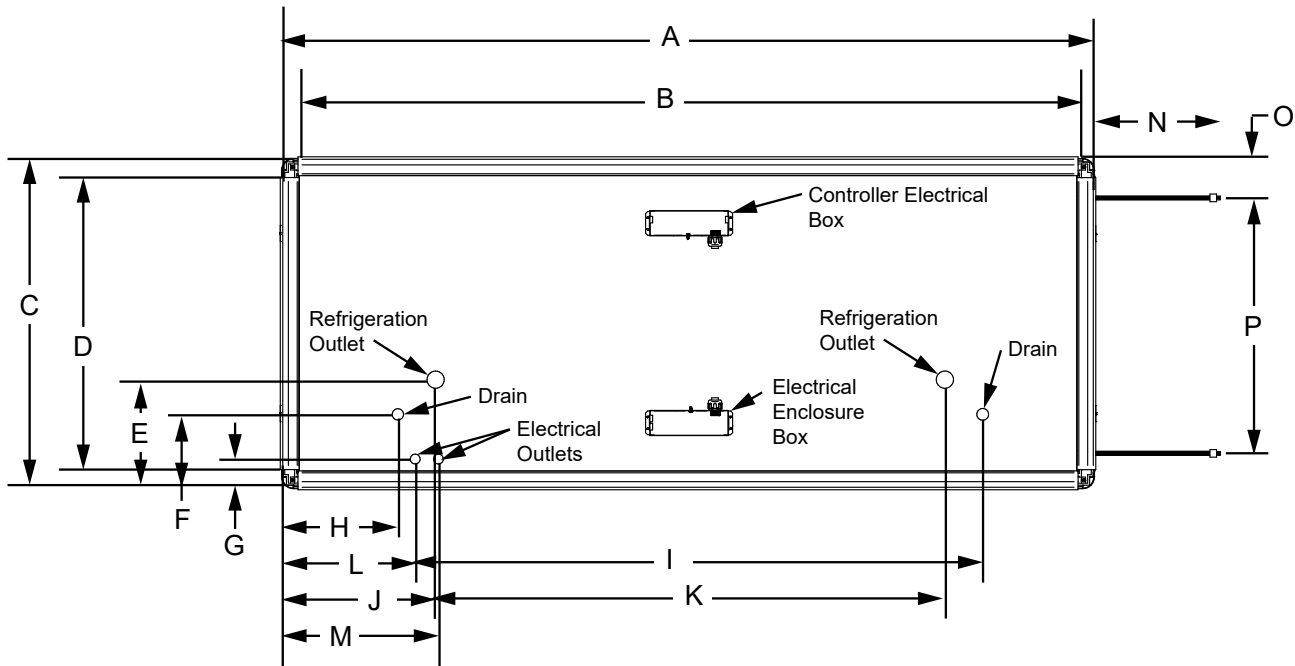
# FNGSC-A

Deli / Beverage /  
Frozen Food /  
Produce / Meat

|      | Controller Box | Enclosure Box |
|------|----------------|---------------|
| 4 ft | Right          | Right         |
| 6 ft | Center         | Left          |
| 8 ft | Center         | Center        |

# Engineering Plan View

Dimensions shown as in. and (mm).



Front

|  | 4 ft                                  | 6 ft                                  | 8 ft                                   |
|--|---------------------------------------|---------------------------------------|--|
| <b>General Dimensions</b>  |                                       |                                       |  |
| (A) Case Length (includes bumper)  | 52 <sup>7</sup> / <sub>8</sub> (1343) | 78 <sup>7</sup> / <sub>8</sub> (2003) | 102 <sup>7</sup> / <sub>8</sub> (2613) |
| (B) Case Length (without bumper)   | 48 <sup>1</sup> / <sub>8</sub> (1222) | 73 <sup>1</sup> / <sub>2</sub> (1867) | 96 <sup>1</sup> / <sub>8</sub> (2442)  |
| (C) Maximum O/S dimension of case back to front (includes bumper)            | 43 <sup>1</sup> / <sub>2</sub> (1105) | 43 <sup>1</sup> / <sub>2</sub> (1105) | 43 <sup>1</sup> / <sub>4</sub> (1099)  |
| (D) Maximum O/S dimension of case back to front (without bumper)             | 33 <sup>1</sup> / <sub>4</sub> (845)  | 33 <sup>1</sup> / <sub>4</sub> (845)  | 33 <sup>1</sup> / <sub>4</sub> (845)   |
| (E) Center of refrigeration outlet to front of case                          | 12 <sup>1</sup> / <sub>4</sub> (311)  | 11 <sup>1</sup> / <sub>4</sub> (286)  | 13 <sup>5</sup> / <sub>8</sub> (346)   |
| (F) Center of drain to front of case   | 9 <sup>3</sup> / <sub>8</sub> (238)   | 9 <sup>3</sup> / <sub>8</sub> (238)   | 9 <sup>3</sup> / <sub>8</sub> (238)    |
| (G) Center of electrical outlets to front of case                            | 4 <sup>1</sup> / <sub>4</sub> (108)   | 5 <sup>1</sup> / <sub>2</sub> (140)   | 4 <sup>1</sup> / <sub>8</sub> (105)    |
| (H) Left of case to center of drain  | 14 <sup>1</sup> / <sub>4</sub> (362)  | 14 <sup>1</sup> / <sub>8</sub> (359)  | 14 <sup>1</sup> / <sub>8</sub> (359)   |
| (I) Center of left drain to center right drain                               | 24 <sup>1</sup> / <sub>8</sub> (616)  | 49 <sup>5</sup> / <sub>8</sub> (1260) | 72 <sup>1</sup> / <sub>4</sub> (1835)  |
| (J) Left of case to center of refrigeration outlet                           | 11 <sup>5</sup> / <sub>8</sub> (295)  | 56 <sup>1</sup> / <sub>2</sub> (1435) | 18 <sup>3</sup> / <sub>8</sub> (473)   |
| (K) Center of left refrigeration outlet to center right refrigeration outlet | N/A                                   | 12 (305)                              | 62 <sup>7</sup> / <sub>8</sub> (1597)  |
| (L) Left of case to center of first electrical outlet                        | 17 <sup>3</sup> / <sub>4</sub> (451)  | 17 <sup>1</sup> / <sub>2</sub> (445)  | 15 <sup>7</sup> / <sub>8</sub> (403)   |
| (M) Left of case to center of second electrical outlet                       | 20 <sup>5</sup> / <sub>8</sub> (524)  | 20 <sup>3</sup> / <sub>8</sub> (518)  | 18 <sup>3</sup> / <sub>4</sub> (476)   |
| (N) Right end of case to end of extension cord                               | 76 (1930)                             | 73 (1854)                             | 74 <sup>1</sup> / <sub>2</sub> (1892)  |
| (O) Back of case to extension cord   | 3 <sup>7</sup> / <sub>8</sub> (98)    | 3 <sup>7</sup> / <sub>8</sub> (98)    | 3 <sup>7</sup> / <sub>8</sub> (98)     |
| (P) Back extension cord to front extension cord                              | N/A                                   | N/A                                   | 32 <sup>3</sup> / <sub>8</sub> (822)   |

## Electrical Data

**FNGSC-A**  
 Deli / Beverage /  
 Frozen Food /  
 Produce / Meat

*NOTE: These values below are rated values for individual components and should not be added together to determine total merchandiser electrical load.*

|   | 4 Ft | 6 Ft | 8 Ft |
|---|------|------|------|
| <b>Merchandiser Requirements</b>                    |      |      |      |
| Power Supply 115V / 1ph / 60Hz                      |      |      |      |
| Total Load (Amps) (Load per each power supply cord) | 10.5 | 16   | 10.5 |
| Power cord Quantity                                 | 1    | 1    | 2    |

<sup>1</sup> Connect this plug to a single outlet circuit.

### NEMA Plug

5-20P



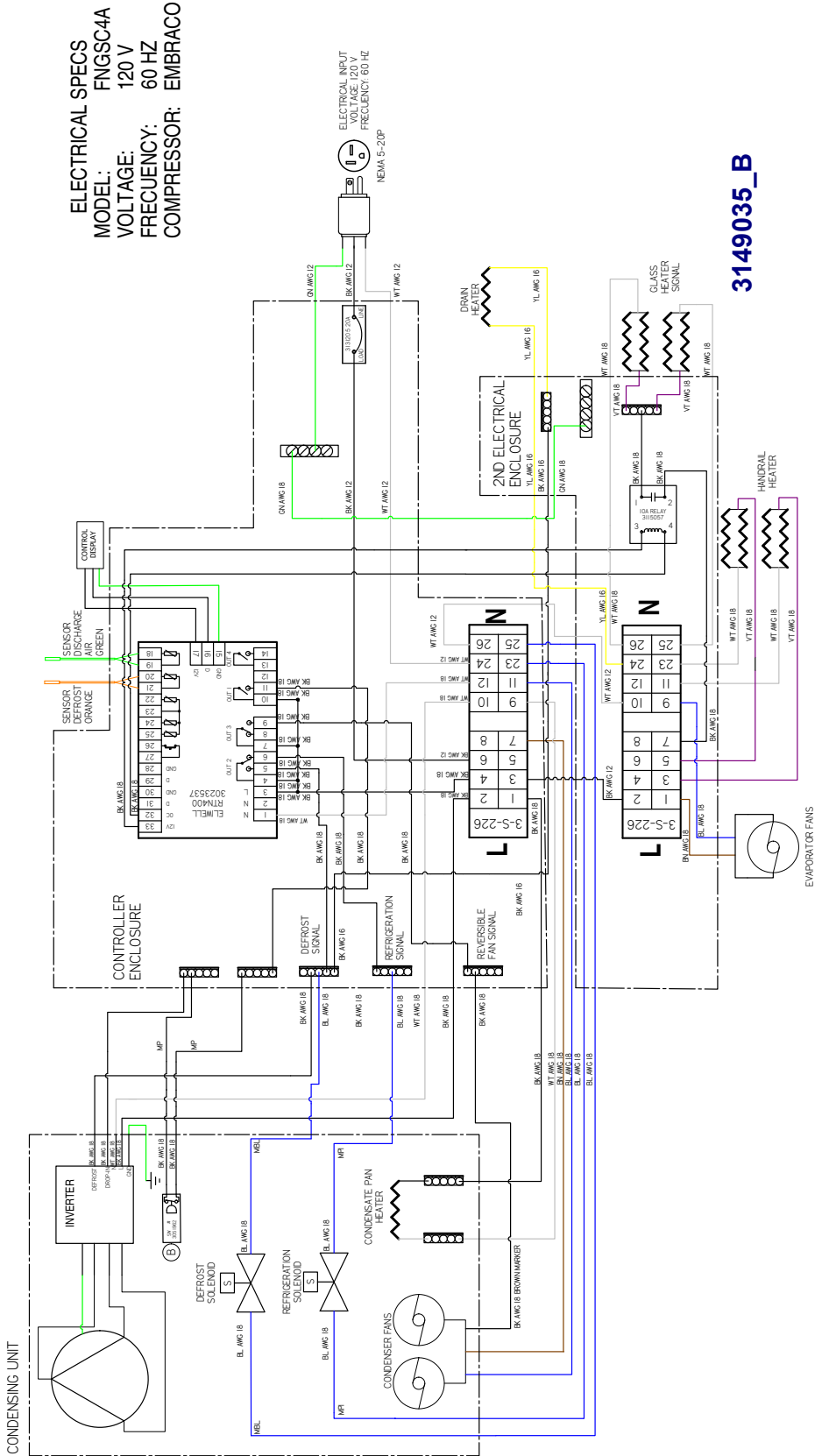
| <b>ESTIMATED SHIPPING WEIGHT †</b>                              |               |               |               |                  |
|---|---------------|---------------|---------------|------------------|
| <b>Case</b>   | <b>4 Foot</b> | <b>6 Foot</b> | <b>8 Foot</b> | <b>Solid End</b> |
| <b>lb (kg)</b>  |               |               |               | <b>(each)</b>    |
|   | 582 (263.8)   | 746 (338.4)   | 918 (415.4)   | Included         |
| † Actual weights will vary according to optional kits included. |               |               |               |                  |

# FNGSC-A

Deli / Beverage /  
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# Wiring Diagram 4 Foot

ELECTRICAL SPECS  
MODEL: FNGSC4A  
VOLTAGE: 120 V  
FREQUENCY: 60 HZ  
COMPRESSOR: EMBRACO



FACTORY 14GA WIRE  
FACTORY 10GA WIRE  
FIELD WIRE

UL COLOR CODES / ABBREVIATIONS  
RED = RD  
BLACK = BK  
BLUE = BL  
BROWN = BN  
YELLOW = YL  
GRAY = GR  
WHITE = WT  
GREEN = CN  
PURPLE = PN  
ORANGE = OR  
VIOLET = VT

WIRE MARKER COLORS/ABBREVIATIONS  
BLACK = MBR  
BLUE = MBL  
BROWN = MBR  
DARK BLUE = MDB  
LIGHT BLUE = MLB  
MAROON = MMR  
ORANGE = MO  
PINK = MPI  
PURPLE = MP  
RED = MR  
YELLOW = MYL

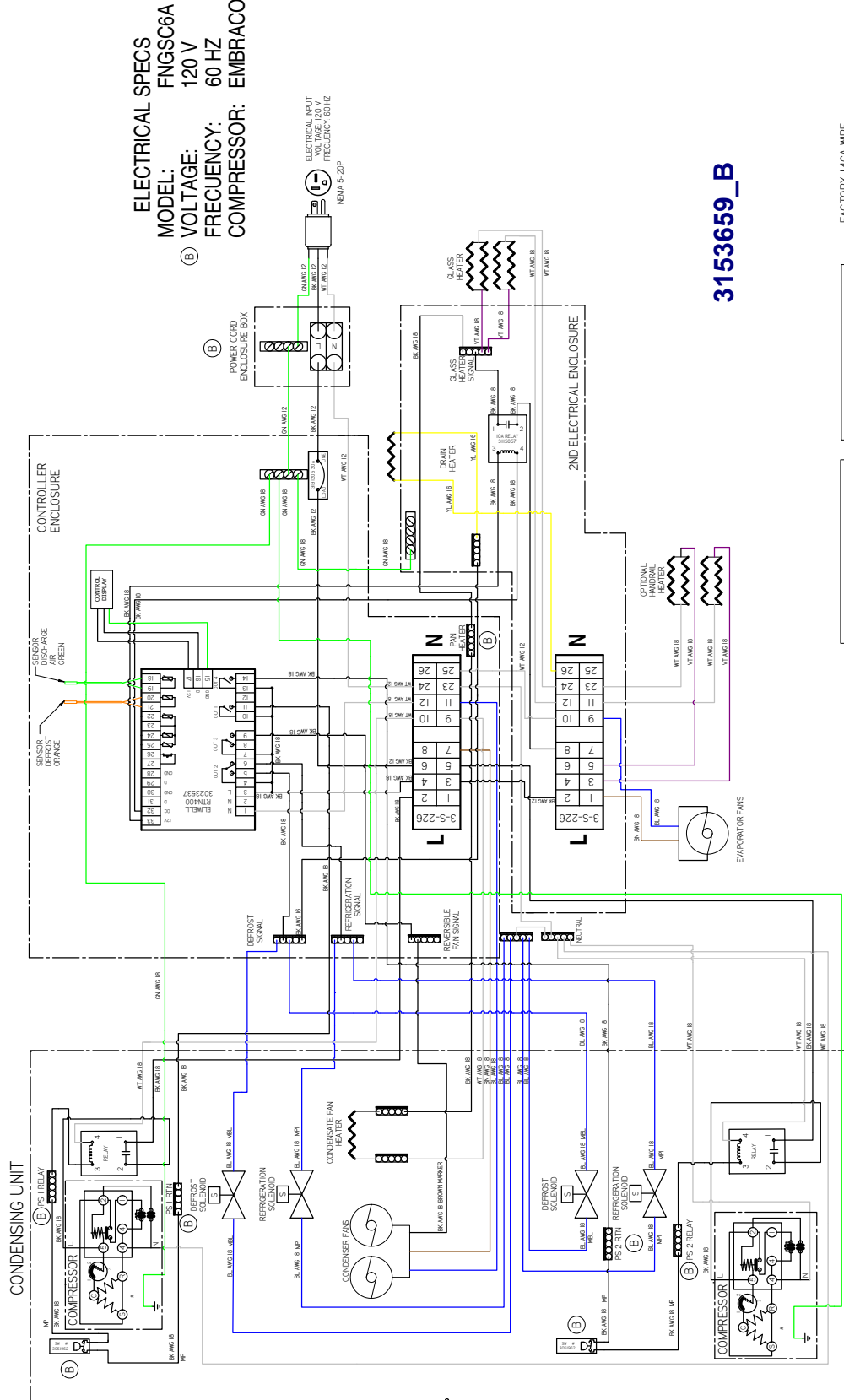
NOTES:  
1. PRINTED DOCUMENT REQUIRED. SETTING: ALL COLORS BLACK & WHITE.  
2. MATERIAL - WHITE BOND PAPER, LETTER SIZE.

# Wiring Diagram 6 Foot

# FNGSC-A

Deli / Beverage /  
Frozen Food /  
Produce / Meat

**ELECTRICAL SPECS**  
MODEL: FNGSC6A  
VOLTAGE: 120 V  
FREQUENCY: 60 HZ  
COMPRESSOR: EMBRACO



3153659\_B

FACTORY #4CA WIRE  
FACTORY 10CA WIRE  
FIELD WIRE

- WIRE MARKER COLORS/ABBREVIATIONS**
- BLACK = MBK
  - BLUE = MBL
  - BROWN = MBR
  - DARK BLUE = MDB
  - LIGHT BLUE = MLB
  - MAROON = MMR
  - ORANGE = MO
  - PINK = MPI
  - PURPLE = MP
  - RED = MR
  - YELLOW = MYL
- UL COLOR CODES / ABBREVIATIONS**
- WHITE = WT
  - GREEN = GN
  - BROWN = BN
  - ORANGE = OR
  - VIOLET = VT

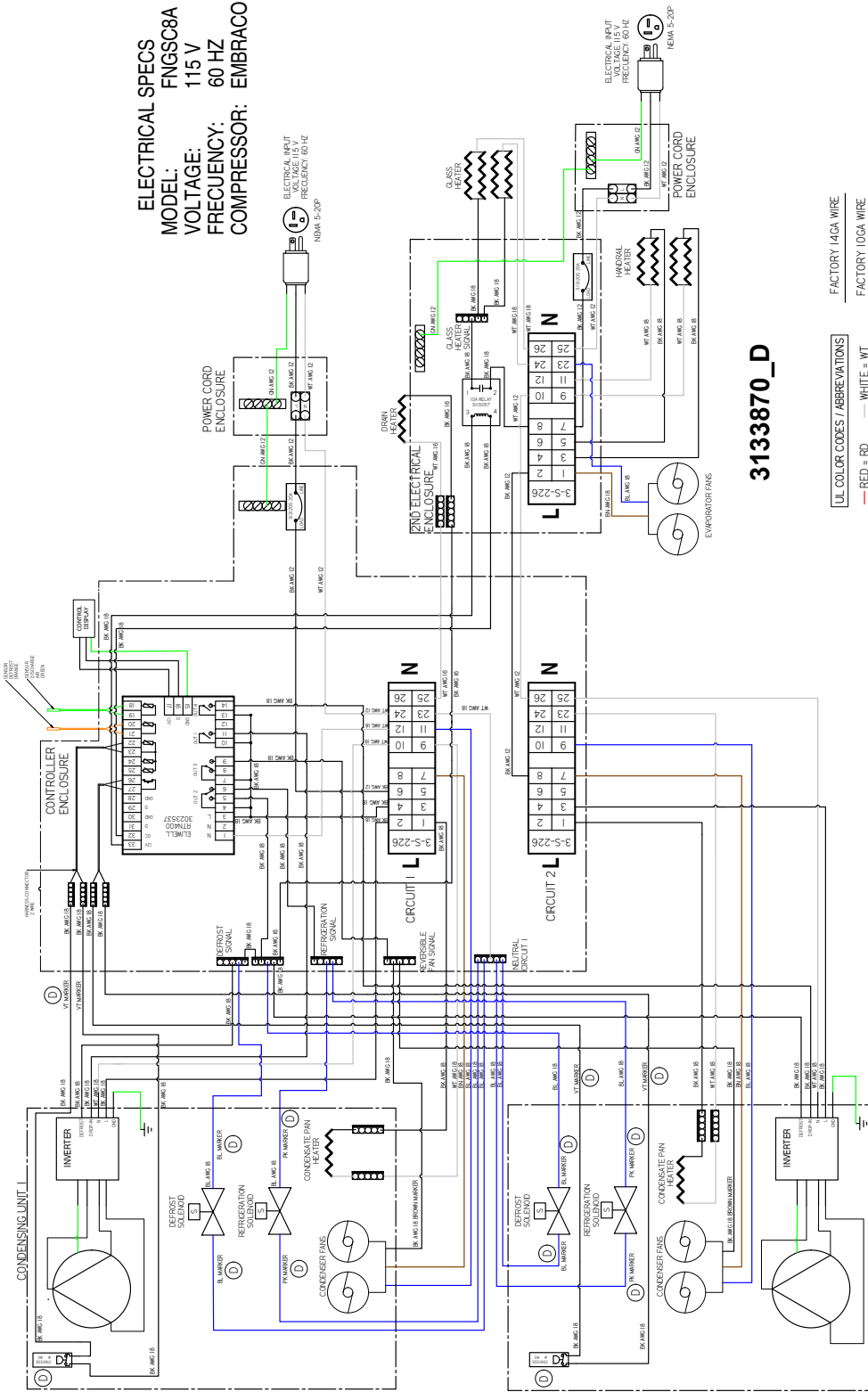
NOTES:  
1. PRINTED DOCUMENT REQUIRED SETTING: ALL COLORS BLACK & WHITE  
2. MATERIAL-WHITE BOND PAPER, LETTER SIZE.

# FNGSC-A

Deli / Beverage /  
Frozen Food /  
Produce / Meat

# Wiring Diagram 8 Foot

**ELECTRICAL SPECS**  
MODEL: FNGSC8A  
VOLTAGE: 115 V  
FREQUENCY: 60 HZ  
COMPRESSOR: EMBRACO



- UL COLOR CODES / ABBREVIATIONS**
- RED = RD
  - BLACK = BK
  - BLUE = BL
  - YELLOW = YL
  - GRAY = GT
  - WHITE = WT
  - GREEN = GN
  - BROWN = BN
  - ORANGE = OR
  - VIOLET = VT
- FACTORY IAGA WIRE**
- FACTORY IAGA WIRE
  - FIELD WIRE

3133870\_D

NOTES:  
1. PRINTED DOCUMENT REQUIRED. SETTING ALL COLORS BLACK & WHITE.  
2. MATERIAL - WHITE BOND PAPER, LETTER SIZE.



# **FNGSC-A**

**Deli / Beverage /  
Frozen Food /  
Produce / Meat**



Scan the QR code with your mobile device to access additional product information or order parts.

Parts may also be ordered at:

**[parts.husmann.com](http://parts.husmann.com)**

**Call toll free: 1.855.487.7778**

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## **Revision History**

Revision A: March 2021: Original Issue

Revision B: May 2021: Updated wiring diagram.

Revision C: October 2021: Updated refrigeration data.

Revision D: October 2021: Updated defrost data.

Revision E: December 2021: Added 4 and 6 foot data.