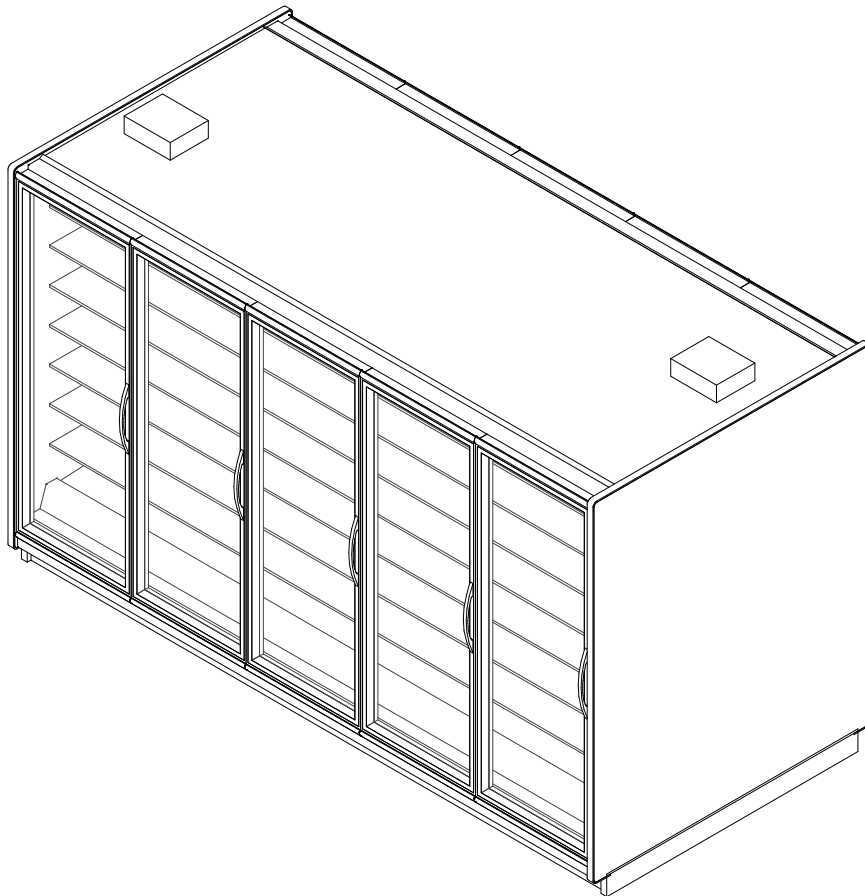


**GENERAL NOTES:**

- For back-to-back configurations, customers are required to install separate current-limiting devices for each side of the case per the amperage values listed. (Current-limiting devices are available for purchase through Hillphoenix).
- Light controls - occupancy sensors are required.
  - Option 1: OEM Provided: OEM anti-condensate and lighting controls (on/off) are standard unless otherwise specified.
  - Option 2: End User Provided: Light controls should be based on occupancy sensors. Store level A/S control should be set to 20% minimum off time at 75°F/55%RH.



| SHIPPING WEIGHT |        |
|-----------------|--------|
| Case            | Weight |
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| ELECTRICAL DATA Single-Side |               |                      |       |               |       |                             |       |           |       |
|-----------------------------|---------------|----------------------|-------|---------------|-------|-----------------------------|-------|-----------|-------|
| Case Length                 | Fans Per Case | High Efficiency Fans |       | Drain Heaters |       | Defrost Heaters (1 - Phase) |       |           |       |
|                             |               | 120 Volts            |       | 120 Volts     |       | 208 Volts                   |       | 240 Volts |       |
|                             |               | Amps                 | Watts | Amps          | Watts | Amps                        | Watts | Amps      | Watts |
| 2 Door                      | 2             | 0.60                 | 52    | 1.27          | 152   | 7.46                        | 1552  | 8.62      | 2068  |
| 3 Door                      | 3             | 1.00                 | 78    | 1.43          | 171   | 10.93                       | 2274  | 12.58     | 3018  |
| 4 Door                      | 4             | 1.30                 | 104   | 1.89          | 227   | 14.35                       | 2984  | 16.63     | 3992  |
| 5 Door                      | 5             | 1.60                 | 130   | 2.29          | 275   | 17.50                       | 3640  | 20.17     | 4840  |

| ELECTRICAL DATA Back-To-Back |               |                      |       |               |       |                             |       |           |       |
|------------------------------|---------------|----------------------|-------|---------------|-------|-----------------------------|-------|-----------|-------|
| Case Length                  | Fans Per Case | High Efficiency Fans |       | Drain Heaters |       | Defrost Heaters (1 - Phase) |       |           |       |
|                              |               | 120 Volt             |       | 120 Volts     |       | 208 Volts                   |       | 240 Volts |       |
|                              |               | Amps                 | Watts | Amps          | Watts | Amps                        | Watts | Amps      | Watts |
| 4 Door                       | 4             | 1.20                 | 104   | 2.54          | 304   | 14.92                       | 3104  | 17.24     | 4136  |
| 6 Door                       | 6             | 2.00                 | 156   | 2.83          | 342   | 21.86                       | 4548  | 25.16     | 3036  |
| 8 Door                       | 8             | 2.60                 | 208   | 3.78          | 454   | 28.70                       | 5968  | 33.26     | 7984  |
| 10 Door                      | 10            | 3.20                 | 260   | 4.58          | 550   | 35.00                       | 7280  | 40.34     | 9680  |

| LIGHTING DATA Single-Side |           |           |       |                  |       |
|---------------------------|-----------|-----------|-------|------------------|-------|
| Case Length               | Door Size | OP45      |       | OP7 Single Swing |       |
|                           |           | 120 Volts |       | 120 Volts        |       |
|                           |           | Amps      | Watts | Amps             | Watts |
| 2 Door                    | 30"       | 0.36      | 43.1  | 0.33             | 39.7  |
| 3 Door                    | 30"       | 0.54      | 65.2  | 0.49             | 59.0  |
| 4 Door                    | 30"       | 0.73      | 87.3  | 0.65             | 78.3  |
| 5 Door                    | 30"       | 0.91      | 109.4 | 0.81             | 97.6  |

| LIGHTING DATA Back-To-Back |           |           |       |                  |       |
|----------------------------|-----------|-----------|-------|------------------|-------|
| Case Length                | Door Size | OP45      |       | OP7 Single Swing |       |
|                            |           | 120 Volts |       | 120 Volts        |       |
|                            |           | Amps      | Watts | Amps             | Watts |
| 4 Door                     | 30"       | 0.72      | 86.2  | 0.66             | 79.4  |
| 6 Door                     | 30"       | 1.08      | 130.4 | 0.98             | 118.0 |
| 8 Door                     | 30"       | 1.46      | 174.6 | 1.31             | 156.6 |
| 10 Door                    | 30"       | 1.82      | 218.8 | 1.63             | 195.2 |

| GUIDELINES AND CONTROL SETTINGS |        |              |          |                                 |                 |                    |                              |
|---------------------------------|--------|--------------|----------|---------------------------------|-----------------|--------------------|------------------------------|
| Application                     | Door   | BTUH/Door    |          | Superheat Set Point @ Bulb (°F) | Evaporator (°F) | Discharge Air (°F) | Discharge Air Velocity (FPM) |
|                                 |        | Conventional | Parallel |                                 |                 |                    |                              |
| Frozen                          | Heated | 1067         | 1046     | 3 - 5                           | - 7             | - 1                | 550                          |
| Frozen                          | Low E  | 1047         | 1025     | 3 - 5                           | - 7             | - 1                | 550                          |
| Ice Cream                       | Heated | 1148         | 1125     | 3 - 5                           | - 15            | - 8                | 550                          |
| Ice Cream                       | Low E  | 1126         | 1102     | 3 - 5                           | - 15            | - 8                | 550                          |



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| ANTI CONDENSATE DATA Single-Side |           |                     |       |             |       |                   |       |             |       |            |       |
|----------------------------------|-----------|---------------------|-------|-------------|-------|-------------------|-------|-------------|-------|------------|-------|
| Case Length                      | Door Size | Individual Circuits |       |             |       |                   |       |             |       |            |       |
|                                  |           | I90 Doors           |       |             |       | ELMD, ELMH, Doors |       |             |       | Door Frame |       |
|                                  |           | Heated Doors        |       | Low E Doors |       | Heated Doors      |       | Low E Doors |       | 101-LE     |       |
|                                  |           | 120 Volts           |       | 120 Volts   |       | 120 Volts         |       | 120 Volts   |       | 120 Volts  |       |
|                                  |           | Amps                | Watts | Amps        | Watts | Amps              | Watts | Amps        | Watts | Amps       | Watts |
| 2 Door                           | 30"       | 0.65                | 78    | 0.38        | 46    | 0.73              | 87    | 0.42        | 50    | 1.41       | 169   |
| 3 Door                           | 30"       | 0.98                | 118   | 0.58        | 69    | 1.09              | 131   | 0.63        | 75    | 1.97       | 236   |
| 4 Door                           | 30"       | 1.31                | 157   | 0.77        | 92    | 1.45              | 174   | 0.84        | 100   | 2.56       | 307   |
| 5 Door                           | 30"       | 1.63                | 196   | 0.96        | 115   | 1.82              | 218   | 1.05        | 126   | 3.09       | 371   |

| ANTI CONDENSATE Back to Back |           |                     |       |             |       |                   |       |             |       |            |       |
|------------------------------|-----------|---------------------|-------|-------------|-------|-------------------|-------|-------------|-------|------------|-------|
| Case Length                  | Door Size | Individual Circuits |       |             |       |                   |       |             |       |            |       |
|                              |           | I90 Doors           |       |             |       | ELMD, ELMH, Doors |       |             |       | Door Frame |       |
|                              |           | Heated Doors        |       | Low E Doors |       | Heated Doors      |       | Low E Doors |       | 101-LE     |       |
|                              |           | 120 Volts           |       | 120 Volts   |       | 120 Volts         |       | 120 Volts   |       | 120 Volts  |       |
|                              |           | Amps                | Watts | Amps        | Watts | Amps              | Watts | Amps        | Watts | Amps       | Watts |
| 4 Door                       | 30"       | 1.30                | 156   | 0.76        | 92    | 1.46              | 174   | 0.84        | 100   | 2.82       | 338   |
| 6 Door                       | 30"       | 1.96                | 236   | 1.16        | 138   | 2.18              | 262   | 1.26        | 150   | 3.94       | 472   |
| 8 Door                       | 30"       | 2.62                | 314   | 1.54        | 184   | 2.90              | 348   | 1.68        | 200   | 5.12       | 614   |
| 10 Door                      | 30"       | 3.26                | 392   | 1.92        | 230   | 3.64              | 436   | 2.10        | 252   | 6.18       | 742   |

| DEFROST CONTROLS |                    |                  |                       |                 |                       |
|------------------|--------------------|------------------|-----------------------|-----------------|-----------------------|
| Defrosts Per Day | Run Off Time (Min) | Electric Defrost |                       | Hot Gas Defrost |                       |
|                  |                    | Fail Safe (Min)  | Termination Temp (°F) | Fail Safe (Min) | Termination Temp (°F) |
| 1                | 13 - 15            | 46               | 50                    | 24              | 73                    |

**Data Notes:**

- "---" indicates that this feature is not an option on this case model.
- Door / Frame A/S circuits and fans share the same circuit (same cycle). Default jumpers can be removed in field if separate circuits are desired for A/S and fans.
- Drain heater and fan motors share the same circuit (separate cycles). Electrical circuits must be properly sized to accommodate the higher current draw of the tank heater.
- Anti-condensate heat values for Eliminaator and Vista C represent a door with no heat on the glass.
- Listed discharge air velocity represents the average velocity at the peak of defrost.
- Defrost Run-off Time applies to Hot Gas Defrost only. Electric Defrost has a 0-minute run-off time.
- Temperature and defrost settings listed above are recommended start-up settings. Final operational settings may need to be adjusted for the store conditions in which the case operates.
- The recommended evaporator temperatures may need to be adjusted based on system setup, store conditions, etc. The minimum recommended evaporator temperature is 4°F below the listed evaporator temperature.
- Light and A/S wattages above reflect 100% run time. To determine actual daily energy usage at 75°F/55%RH conditions, reduce the light wattages above by 42% and reduce the A/S values above by the minimum off time.

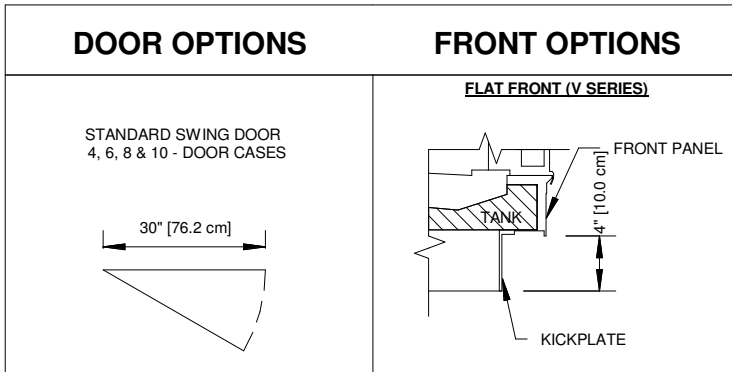


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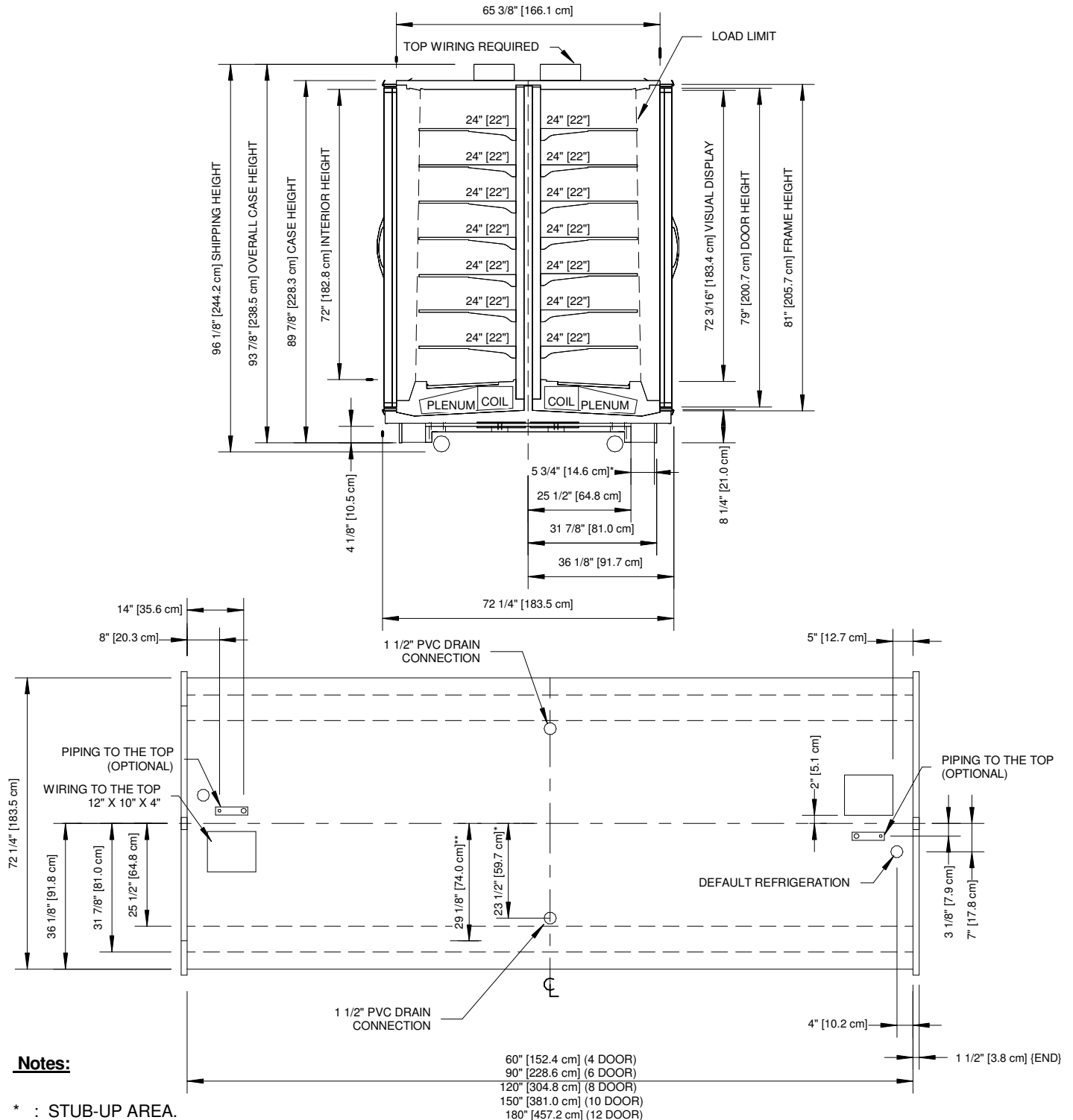




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