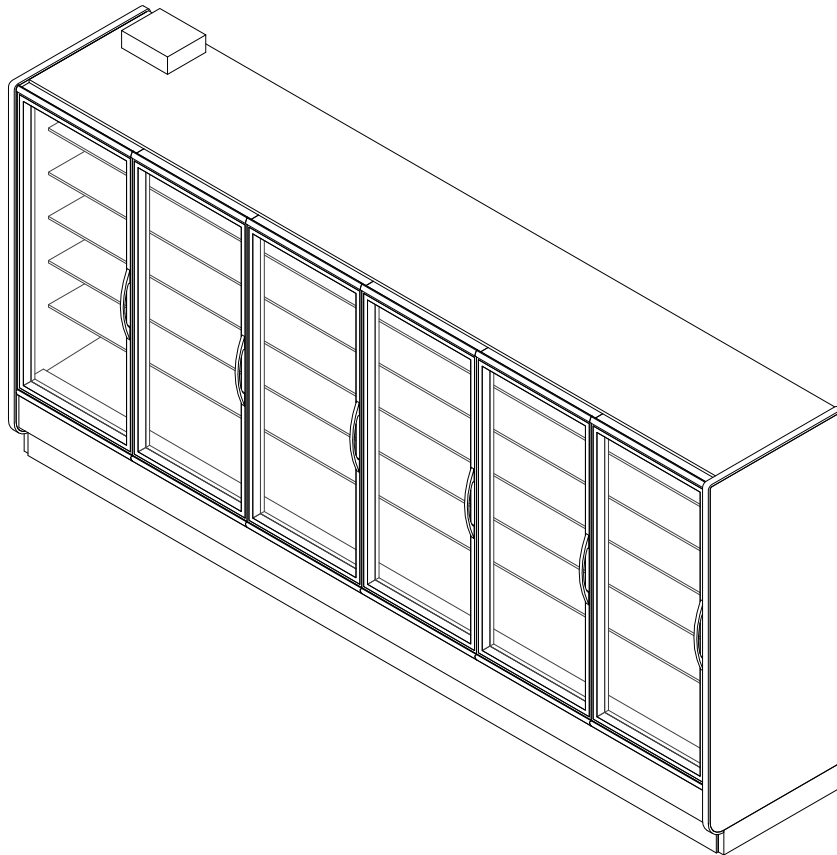


GENERAL NOTES

- 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 30% minimum off time at 75°F/55%RH.



| SHIPPING WEIGHT | |
|-----------------|--------|
| Case | Weight |
| ONRZH | --- |



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High Narrow Reach-In Glass Door Merchandiser 1, 2, 3, 4, 5 & 6 Door (Frozen Food)

ELECTRICAL DATA

| Case Length | Fans Per Case | High Efficiency Fans | | Tank Heaters | | Defrost Heaters (1-Phase) | | | | Defrost Heaters (3-Phase) | | | |
|-------------|---------------|----------------------|-------|--------------|-------|---------------------------|-------|-----------|-------|---------------------------|-------|-----------|-------|
| | | 120 Volt | | 120 Volts | | 208 Volts | | 240 Volts | | 208 Volts | | 240 Volts | |
| | | Amps | Watts | Amps | Watts | Amps | Watts | Amps | Watts | Amps | Watts | Amps | Watts |
| 1 Door | 1 | 0.30 | 25 | 0.09 | 113 | 3.27 | 680 | 3.78 | 906 | 2.85 | 680 | 3.31 | 906 |
| 2 Door | 2 | 0.60 | 50 | 1.60 | 152 | 7.50 | 1552 | 8.60 | 2068 | 6.50 | 1552 | 7.50 | 2068 |
| 3 Door | 3 | 1.00 | 75 | 1.50 | 171 | 10.90 | 2274 | 12.60 | 3018 | 9.50 | 2274 | 10.90 | 3018 |
| 4 Door | 4 | 1.30 | 100 | 1.90 | 226 | 14.30 | 2984 | 16.60 | 3992 | 12.40 | 2984 | 14.40 | 3992 |
| 5 Door | 5 | 1.60 | 125 | 2.30 | 275 | 17.50 | 3640 | 20.20 | 4840 | 15.10 | 3640 | 17.40 | 4840 |
| 6 Door | 6 | 1.90 | 150 | 2.70 | 320 | 20.30 | 4224 | 23.4 | 5624 | 17.60 | 4224 | 20.30 | 5624 |

LIGHTING DATA

| Case Length | Door Size | OP45 | | Optimax Pro 24 Low | |
|-------------|-----------|-----------|-------|--------------------|-------|
| | | 120 Volts | | 120 Volts | |
| | | Amps | Watts | Amps | Watts |
| 1 Door | 31" | 0.18 | 21.0 | 0.16 | 18.8 |
| 2 Door | 30" | 0.36 | 43.1 | 0.31 | 36.8 |
| 3 Door | 30" | 0.54 | 65.2 | 0.46 | 54.8 |
| 4 Door | 30" | 0.73 | 87.3 | 0.61 | 72.8 |
| 5 Door | 30" | 0.91 | 109.4 | 0.76 | 90.8 |
| 6 Door | 30" | 1.10 | 131.5 | 0.91 | 108.8 |

ANTI CONDENSATE DATA

| 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 |
| 1 Door | 31" | 0.28 | 34 | 0.17 | 20 | 0.32 | 38 | 0.19 | 23 | 0.76 | 91.2 |
| 2 Door | 30" | 0.56 | 67 | 0.34 | 40 | 0.64 | 76 | 0.38 | 45 | 1.26 | 151 |
| 3 Door | 30" | 0.84 | 101 | 0.51 | 61 | 0.95 | 114 | 0.57 | 68 | 1.76 | 211 |
| 4 Door | 30" | 1.12 | 135 | 0.67 | 81 | 1.27 | 152 | 0.76 | 91 | 2.29 | 275 |
| 5 Door | 30" | 1.40 | 169 | 0.84 | 101 | 1.59 | 191 | 0.95 | 114 | 2.78 | 334 |
| 6 Door | 30" | 1.69 | 202 | 1.01 | 121 | 1.91 | 229 | 1.14 | 136 | 3.28 | 394 |



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| GUIDELINES AND CONTROL SETTINGS | | | | | | | |
|---------------------------------|--------|--------------|----------|---------------------------------|-----------------|--------------------|------------------------------|
| Application | Door | BTUH/ft | | Superheat Set Point @ Bulb (°F) | Evaporator (°F) | Discharge Air (°F) | Discharge Air Velocity (FPM) |
| | | Conventional | Parallel | | | | |
| Frozen | Heated | 1044 | 1014 | 3 - 5 | - 7 | - 1 | 350 |
| Frozen | Low E | 988 | 960 | 3 - 5 | - 7 | - 1 | 350 |
| Ice Cream | Heated | 1091 | 1060 | 3 - 5 | - 15 | - 8 | 350 |
| Ice Cream | Low E | 1027 | 998 | 3 - 5 | - 15 | - 8 | 350 |

| DEFROST CONTROLS | | | | | | |
|------------------|------------------|-----------------------|--------------------|-----------------|-----------------------|--------------------|
| Defrosts Per Day | Electric Defrost | | | Hot Gas Defrost | | |
| | Fail Safe (Min) | Termination Temp (°F) | Run Off Time (Min) | Fail Safe (Min) | Termination Temp (°F) | Run Off Time (Min) |
| 1 | 46 | 50 | 0 | 24 | 73 | 13 - 15 |

NOTES

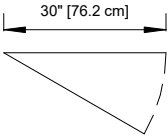
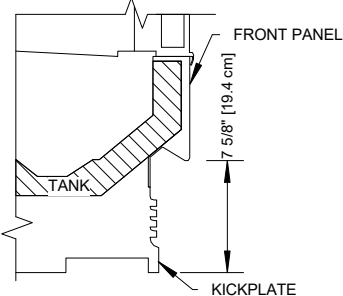
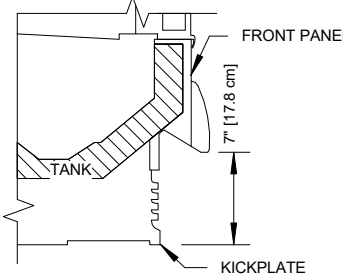
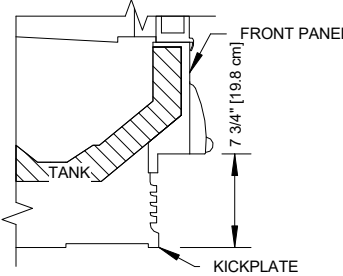
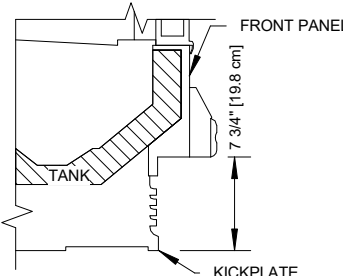
- "----" indicates that this feature is not an option on this case model.
- Door / Frame A/S circuits and fans share the same circuit (same cycle). Default jumpers can be removed in field if separate circuits are desired for A/S and fans.
- Drain heater and fan motors share the same circuit (separate cycles). Electrical circuits must be properly sized to accommodate the higher current draw of the tank heater.
- Defrost heater 3-phase load is unbalanced.
- 3-phase defrost heater data listed represents the maximum amps per phase.
- Anti-condensate heat values for Low E doors represent a door with no heat on the glass.
- Listed discharge air velocity represents the average velocity at the peak of defrost.
- 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.
- No run-off time required for electrical defrost.
- Typical electric defrost time is 20 minutes when ambient conditions are 75°F / 55%RH.
- 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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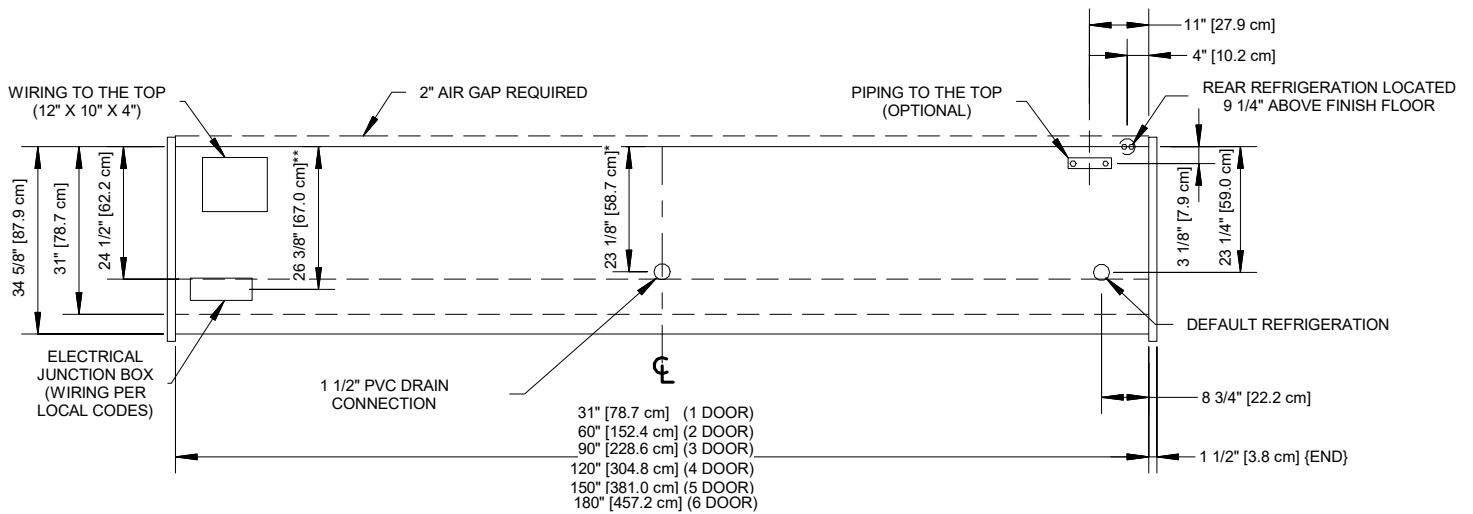
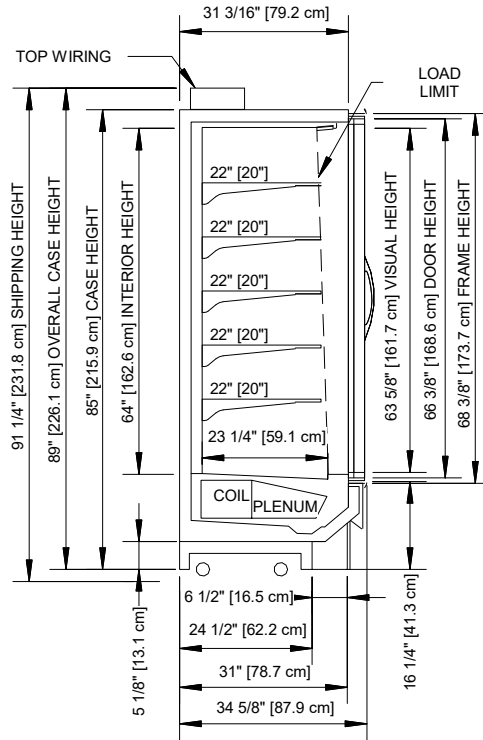
| DOOR OPTIONS | FRONT OPTIONS |
|------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| <p>STANDARD SWING DOOR 1, 2, 3, 4, 5, & 6 - DOOR CASES</p>  | <p>FLAT FRONT (O SERIES)</p>  |
| | <p>STREAMLINE BUMPER</p>  |
| | <p>HALF BUMPER</p>  |
| | <p>CLASSIC 2 BUMPER</p>  |



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NOTES

- * : STUB-UP AREA.
- ** : RECOMMENDED STUB-UP CENTERLINE FOR ELECTRICAL AND HUB DRAINS .

• Ends add approximately 1" to case height, 1/2" to the back & 1" to the front.



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