



# Horizon Elite™

remote 1010, 1410, 1412 series Chewblet® ice machine

## Features

### High performance Horizon Elite ice machines

- automatically transport ice through a tube with RIDE® technology from up to 75' (22.9 m) away
- consumer-preferred Chewblet ice is preferred 2:1 over cube ice
- ice dispenses reliably from ice and beverage dispensers
- quiet production without noisy harvest cycles

### Revolutionary, scale inhibiting design

- produces ice that has 15% the TDS of the incoming water for optimum dispensing and long life in drinks
- quarantines and regularly expels scale producing dissolved solids to dramatically reduce scale buildup
- increases time between descaling and reduces or eliminates the need for expensive scale treatment
- uses 35% less water than comparable cubers
- three phase D1010R ENERGY STAR® certified

### Durable, attractive ice machine

- regular bearing inspection or replacement is not required
- upgraded, easy-to-read LED operating status and diagnostic display

### Designed with sanitation in mind

- Agion® silver-based antimicrobial product protection of key ice and water contact components<sup>1</sup>
- floatless, sealed design inhibits formation of biofilms
- semi-automatic cleaning and sanitizing system

### Remote monitoring with Open Kitchen™

- provided in partnership with Powerhouse Dynamics (separate subscription required)
- real-time alerts and notifications
- remote diagnostics to maximize equipment uptime
- connects with equipment across other Middleby brands

### Warranty

- 3 years parts and labor, 5 years compressor parts<sup>2</sup>

### Certifications



| Model configurations          |                                                                                     |              |                 |
|-------------------------------|-------------------------------------------------------------------------------------|--------------|-----------------|
| Production capacity           | Description                                                                         | V/Hz/Ph      | Item number     |
| <b>up to 978 lb (444 kg)</b>  | air-cooled evaporator unit, for connection to remote condenser 01354059 or 01354067 | 115/60/1     | <b>D1010R</b>   |
|                               | air-cooled, single phase remote condenser for use with D1010R evaporator unit       | 208-230/60/1 | <b>01354059</b> |
|                               | air-cooled, three phase remote condenser for use with D1010R evaporator unit        | 208-230/60/3 | <b>01354067</b> |
| <b>up to 1371 lb (622 kg)</b> | air-cooled evaporator unit, for connection to remote condenser 01354042             | 115/60/1     | <b>D1410R</b>   |
|                               | air-cooled, single phase remote condenser for use with D1410R evaporator unit       | 208-230/60/1 | <b>01354042</b> |
|                               | air-cooled evaporator unit, for connection to remote condenser F1412CU              | 115/60/1     | <b>D1412R</b>   |
|                               | air-cooled, three phase remote condenser for use with D1412R evaporator unit        | 208-230/60/3 | <b>F1412CU</b>  |

| Installation kits (required)                                                                                             |                 |
|--------------------------------------------------------------------------------------------------------------------------|-----------------|
| Description                                                                                                              | Item number     |
| Installation kit for filling bins                                                                                        | <b>01564590</b> |
| Installation kit for filling countertop ice and beverage dispensers                                                      | <b>01564582</b> |
| Installation kit for filling Vision™ dispensers                                                                          | <b>01564632</b> |
| Installation kit for filling drop-in dispensers                                                                          | <b>01564640</b> |
| Installation kit for Ice Manager™ not required. Needed components are ordered and ship with Ice Manager, see form# 1050. | <b>N/A</b>      |

| Ice transport tube kits for RIDE installations (required), not needed for top mount applications |                 |
|--------------------------------------------------------------------------------------------------|-----------------|
| Description                                                                                      | Item number     |
| For bins, countertop ice and beverage dispensers and drop-in dispensers                          |                 |
| RIDE installations, 10' (3 m)                                                                    | <b>01560549</b> |
| RIDE installations, 35' (10.7 m)                                                                 | <b>01560556</b> |
| RIDE installations, 80' (24.4 m)                                                                 | <b>01560564</b> |
| For Vision dispensers                                                                            |                 |
| RIDE installations, 10' (3 m)                                                                    | <b>01564657</b> |
| RIDE installations, 35' (10.7 m)                                                                 | <b>01564665</b> |
| RIDE installation, 80' (24.4 m)                                                                  | <b>01564673</b> |

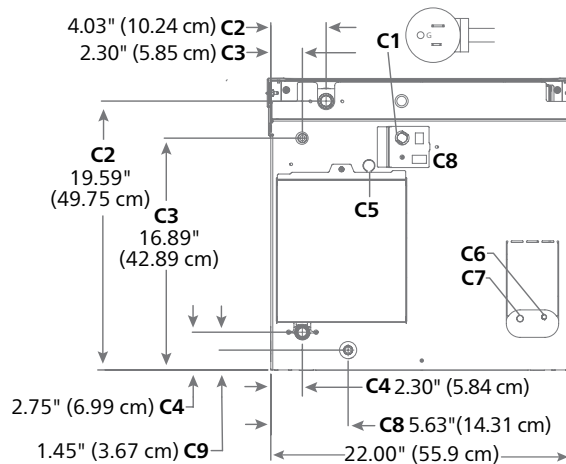
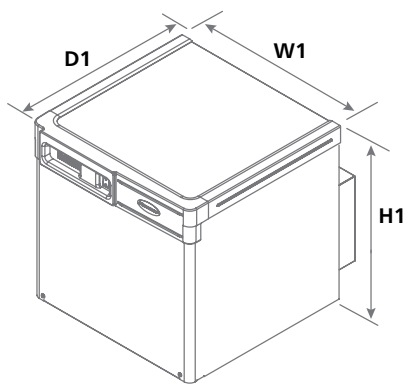
## Options and accessories

- ☐ Top kit for ice and beverage dispensers (page 5)
- ☐ Water filters (refer to form# 1058)
- ☐ Wall mount bracket (item# 00997098)
- ☐ Ice machine stand, height-adjustable (item# 00997080)
- ☐ Timer to control one or two ice machines (item# 00967265)
- ☐ Sleep cycle kit for countertop dispenser applications for improved energy efficiency and component life (item# 01338276)
- ☐ Insulated refrigeration lines (not pre-charged)
  - ☐ 35' (11 m) (item# 00193227) for 1010R and 1410R
  - ☐ 35' (11 m) (item# 00977785) for 1412R
  - ☐ 50' (50 m) (Item# 01262328) for 1010R and 1410R
- ☐ SafeCLEAN Plus™ ice machine cleaner
  - ☐ 1 x 8 oz (237 ml) bottle (item# 01147826)
  - ☐ 6 x 8 oz (237 ml) bottles (item# 01149954)
  - ☐ 24 x 8 oz (237 ml) bottles (item# 01149962)
- ☐ SaniSponge™, 24 sanitary sponges (item# 01075431)
- ☐ Three year remote monitoring subscription and hardware for Open Kitchen (item# MDD-1003) NOTE: For serial# Q34181 and above.
- ☐ For additional accessories, refer to form# 4025

<sup>1</sup> Disclaimer: Antimicrobial protection is limited to the treated components and does not treat water or ice.

<sup>2</sup> Refer to form# 4025 for additional warranty information.

## Dimensional drawing



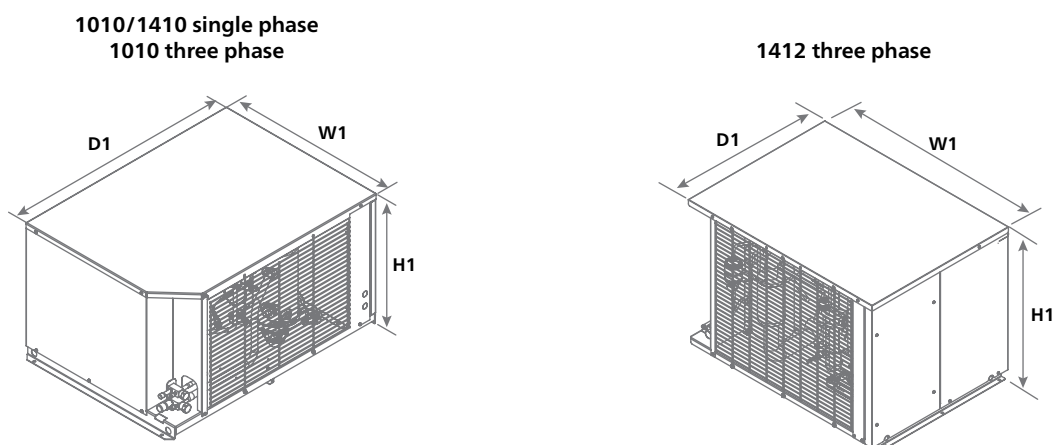
## Specification, evaporator unit

|                                                                          |                                                                                                                                                                                                                                                                                                                     |
|--------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>W1</b> Width                                                          | 22.70" (57.7 cm), fits on 22.00" wide dispensers                                                                                                                                                                                                                                                                    |
| <b>D1</b> Depth                                                          | 1010 series: 22.50" (57.2 cm)<br>1410 and 1412 series: 24.50" (62.2 cm)                                                                                                                                                                                                                                             |
| <b>H1</b> Height                                                         | 21.25" (53.9 cm)                                                                                                                                                                                                                                                                                                    |
| Clearance                                                                | 1.00" (2.54 cm) top, left and right                                                                                                                                                                                                                                                                                 |
| <b>C1</b> Electrical (115 V/60/1)                                        | 5 amps, requires dedicated 15 amp circuit, 6' (1.8 m) cord, NEMA 5-15 plug                                                                                                                                                                                                                                          |
| Operating power                                                          | 0.6 kW                                                                                                                                                                                                                                                                                                              |
| <b>C2</b> Ice transport tube                                             | see page 7 for details                                                                                                                                                                                                                                                                                              |
| <b>C3</b> Water inlet                                                    | 3/8" OD push-in water inlet – internal connection                                                                                                                                                                                                                                                                   |
| <b>C4</b> Drain                                                          | 3/4" MPT, 1" drain required. See page 7 for details.                                                                                                                                                                                                                                                                |
| <b>C5</b> Ice bin signal cord                                            | for Vision applications only                                                                                                                                                                                                                                                                                        |
| <b>C6</b> Liquid line                                                    | 3/8"                                                                                                                                                                                                                                                                                                                |
| <b>C7</b> Suction line                                                   | 1010 and 1410 series: 5/8"<br>1412 series: 7/8"                                                                                                                                                                                                                                                                     |
| <b>C8</b> Communication port, 24 VAC                                     | 1412 series: Ice machine to outdoor condensing unit (wire not included)                                                                                                                                                                                                                                             |
| <b>C9</b> Auxiliary drain (required)                                     | 3/8" OD push-in                                                                                                                                                                                                                                                                                                     |
| Air temperature                                                          | 50 - 100 F (10 - 38 C)                                                                                                                                                                                                                                                                                              |
| Water temperature                                                        | 45 - 90 F (7 - 32 C)                                                                                                                                                                                                                                                                                                |
| Potable water pressure                                                   | 10 - 70 psi (69 - 483 kPa)                                                                                                                                                                                                                                                                                          |
| Ice production                                                           | see ice production chart on page 8                                                                                                                                                                                                                                                                                  |
| Energy consumption                                                       | 1010 series: single phase – 4.68 kWh, three phase – 3.57 kWh<br>90 F (32 C) air,<br>70 F (21 C) water                                                                                                                                                                                                               |
| Water consumption                                                        | 1010 series: 12.0 gal (47 L) of potable water per 100 lb (45.4 kg) of ice (per AHRI test standards).<br>12.4 gal (46.9 L) at low TDS flush setting.<br>1410 and 1412 series: 12.5 gal (47 L) of potable water per 100 lb (45.4 kg) of ice (per AHRI test standards).<br>12.3 gal (46.5 L) at low TDS flush setting. |
| Refrigerant                                                              | 1010 and 1410 series: R404a<br>1412 series: R449a                                                                                                                                                                                                                                                                   |
| BTU/hr (Kcal/hr) at 0 F (-18 C) evaporator,<br>90 F (32 C) ambient air   | 1010 series: 7,700 (1,940)<br>1410 and 1412 series: 10,000 (2,520)                                                                                                                                                                                                                                                  |
| Rack systems EPR valve - set to<br>EPR valve to be supplied by installer | 1010 and 1410 series: 0 F (-18 C)                                                                                                                                                                                                                                                                                   |
| Approximate net weight                                                   | 1010 series: 157 lb (71 kg)<br>1410 and 1412 series: 167 lb (76 kg)                                                                                                                                                                                                                                                 |
| Approximate ship weight                                                  | 1010 series: 195 lb (88 kg)<br>1410 and 1412 series: 205 lb (93 kg)                                                                                                                                                                                                                                                 |

NOTE: For indoor use only. Outdoor installation of low side is not recommended and will void warranty.

SHORT FORM SPECIFICATION: Follett® Horizon Elite ice machine model \_\_\_\_\_ capable of producing compressed nugget ice using an efficient, sanitary horizontal evaporator/auger system and delivering ice by a flexible wire reinforced transport tube to \_\_\_\_\_ ice storage bin, \_\_\_\_\_ ice and water dispenser, \_\_\_\_\_ countertop ice and beverage dispenser, \_\_\_\_\_ Vision dispenser, \_\_\_\_\_ drop-in dispenser or \_\_\_\_\_ Ice Manager diverter valve system. Slide-out evaporator with utility docking station, front-mounted unit status display, evaporator water inlet at harvest end with automatic flush while producing ice, and semi-automatic cleaning and sanitizing system.

## Dimensional drawing



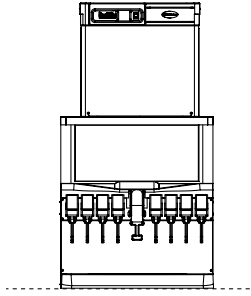
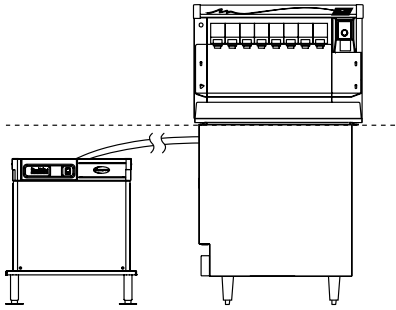
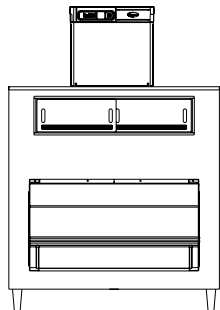
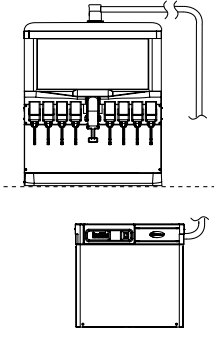
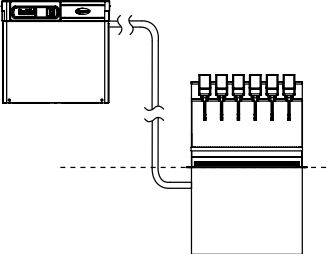
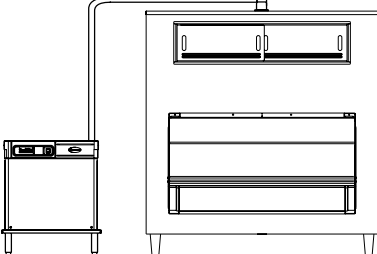
## Specification, condenser unit

|                                                            |                                                                                                                                                                   |
|------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>W1</b> Width                                            | 1010 and 1410 series: 39.90" (101 cm)<br>1412 series: 39.60" (100.6 cm)                                                                                           |
| <b>D1</b> Depth                                            | 1010 and 1410 series: 28.50" (72.4 cm)<br>1412 series: 28.20" (71.6 cm)                                                                                           |
| <b>H1</b> Height                                           | 1010 and 1410 series: 21.50" (54.6 cm)<br>1412 series: 26.00" (66.0 cm)                                                                                           |
| Electrical                                                 | 1010 and 1410 single phase: 208-230/60/1<br>1010 and 1412 three phase: 208-230/60/3                                                                               |
| Operating power                                            | 1010 single phase: 1.46 kW<br>1010 three phase: 1.42 kW<br>1410 single phase: 2.2 kW<br>1412 three phase: 3.0 kW                                                  |
| Minimum circuit ampacity                                   | 1010 and 1410 single phase: 10.6 A<br>1010 three phase: 9.7 A<br>1412 three phase: 12 A                                                                           |
| Maximum overcurrent protection                             | 1010 single phase: 15 A<br>1010 three phase: 15 A<br>1410 single phase: 25 A<br>1412 three phase: 20 A                                                            |
| Heat rejection                                             | 1010 single and three phase: 11,300 BTU/hr (2,849 Kcal/hr)<br>1410 single phase: 16,000 BTU/hr (4,035 Kcal/hr)<br>1412 three phase: 14,000 BTU/hr (3,530 Kcal/hr) |
| Outdoor condensing unit operating limits (air temperature) | min -20 F (-29 C)<br>max 120 F (49 C)                                                                                                                             |
| Maximum refrigerant line run length                        | 100' (30.5 m)                                                                                                                                                     |
| Maximum line rise above evaporator                         | 35' (10.7 m)                                                                                                                                                      |
| Evaporator mounting above condenser                        | 15' (4.6 m)                                                                                                                                                       |
| Maximum refrigeration line drop without oil trap           | 15' (4.6 m)                                                                                                                                                       |
| Refrigerant charge                                         | 1010 and 1410 single phase: 12 lb required at installation<br>1010 three phase: 12.5 lb required at installation<br>1412 three phase: 8 lb pre-charged            |
| Approximate net weight                                     | 1010 single and three phase: 222 lb (101 kg)<br>1410 single phase: 232 lb (105 kg)<br>1412 three phase: 244 (111 kg)                                              |
| Approximate ship weight                                    | 1010 single and three phase: 260 lb (118 kg)<br>1410 single phase: 270 lb (123 kg)<br>1412 three phase: 282 lb (128 kg)                                           |

NOTE: The entire liquid line should be insulated separately from the suction line.

## 1 – Locating the ice machine

Horizon Elite remote Chewblet ice machines allow top-mounting or mounting in a base cabinet, on a wall or on a floor stand up to 75' (22.9 m) from the dispenser or ice bin with RIDE technology. In-cabinet mounting (RIDE applications) require special attention to service access, unit ventilation and ice tube runs (see pages 6-7).

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Top mounting – ice and beverage dispensers (by others)</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <p><b>RIDE model – Follett low-profile Vision ice and beverage dispensers</b></p>                                                                                                                                                                                        | <p><b>Top mount on Follett ice storage bins</b></p>                                                                                                                                                                                |
| <p><b>Important specifier notes</b></p> <ol style="list-style-type: none"> <li>1. Dispenser must be compatible with nugget ice. See page 5 for compatible ice and beverage dispenser models and top kit numbers.</li> <li>2. Verify ceiling or soffit height to ensure sufficient top clearance.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <p><b>Important specifier notes</b></p> <ol style="list-style-type: none"> <li>1. See page 6 for critical clearance requirements.</li> <li>2. Ice transport tube ships with Vision ice and beverage dispenser (Vision applications only).</li> </ol>                                                                                                       | <p><b>Important specifier notes</b></p> <ol style="list-style-type: none"> <li>1. See form# 8590 for bin sizing. Not for use with Ice•Device™ or Ice Pro™.</li> <li>2. Verify ceiling or soffit height to ensure top clearance.</li> <li>3. Locate floor sink or grate and drains in front of storage bin.</li> </ol> |
| <p><b>RIDE model – ice and beverage dispensers (by others)</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <p><b>RIDE model – drop-in beverage dispensers (by others)</b></p>                                                                                                                                                                                                      | <p><b>RIDE model – Follett ice storage bins</b></p>                                                                                                                                                                              |
| <p><b>Important specifier notes</b></p> <ol style="list-style-type: none"> <li>1. Dispenser must be compatible with nugget ice. Compatible dispensers include Cornelius DB/ED/DF150/175, Lancer 4500-22N, FS-16N and FS-44N, Servend MD150/175/200/250 SV150/175/200/250 and Follett Symphony Plus™ 110CM, as well as dispensers listed on page 5.</li> <li>2. Coca-Cola Freestyle 7100 requires top adapter IC Code 46751 and ice kit IC Code 46430 only, and must be ordered from Coca-Cola. Coca-Cola Freestyle 9100 requires top kit HSF26SC. Consult with Coca-Cola and Follett to qualify application prior to ordering.</li> <li>3. RIDE application is approved only for Pepsi Spire 3.0, 5.0 and 4.1 designed for top mount ice machines and requires MSP24SC for 3.0 and MSP30SC for 5.0 and 4.1, ordered separately. For manual fill versions of Pepsi Spire 3.0, 5.0 and 4.1, contact factory.</li> <li>4. See page 6 for critical clearance requirements.</li> </ol> | <p><b>Important specifier notes</b></p> <ol style="list-style-type: none"> <li>1. Compatible with the following dispensers: Cornelius 1522, 1722, 2323 and Lancer 2200, 2300, 23300.</li> <li>2. Requires 12.00" (30.5 cm) of access space for installation on transport tube side.</li> <li>3. See page 6 for critical clearance requirements.</li> </ol> | <p><b>Important specifier notes</b></p> <ol style="list-style-type: none"> <li>1. See form# 8590 for bin sizing. Not for use with Ice•Device or Ice Pro.</li> <li>2. Locate floor sink or grate and drains in front of storage bin.</li> </ol>                                                                        |

## 1 – Locating the ice machine (continued)

| Top mounting – compatible ice and beverage dispensers <sup>1</sup> |                          |               |                            |                             |                                   |
|--------------------------------------------------------------------|--------------------------|---------------|----------------------------|-----------------------------|-----------------------------------|
| Manufacturer                                                       | Model Number             | Width in (cm) | Depth <sup>2</sup> in (cm) | Height <sup>3</sup> in (cm) | Top kit                           |
| Coca-Cola dispensers                                               | Freestyle 7000           | 30.10 (76.5)  | 33.11 (79.0)               | 47.00 (119.4)               | H22F30-F <sup>4, 5</sup>          |
|                                                                    | Freestyle 7100           | 30.00 (76.2)  | 33.80 (85.8)               | 47.00 (119.4)               | H22F30-F <sup>4, 6</sup>          |
|                                                                    | Freestyle 9000           | 25.50 (64.8)  | 35.50 (90.2)               | 73.75 (187.3)               | H22F24-F <sup>4, 7</sup>          |
|                                                                    | Freestyle 9100           | 25.50 (64.8)  | 39.25 (99.7)               | 77.25 (196.2)               | H22F26-F <sup>4</sup>             |
| Cornelius dispensers                                               | DB/ED/DF 200 series      | 30.00 (76.2)  | 30.00 (76.2)               | 34.38 (87.3)                | H22C30-F or H22C30-X <sup>8</sup> |
|                                                                    | DB/ED/DF 250 series      | 30.00 (76.2)  | 30.00 (76.2)               | 38.38 (97.5)                | H22C30-F or H22C30-X <sup>8</sup> |
|                                                                    | DB/ED/DF 300 series      | 44.00 (111.8) | 30.00 (76.2)               | 34.00 (86.4)                | H22C44-(F or B) <sup>9</sup>      |
|                                                                    | FlavorFusion/Overload    | 30.00 (76.2)  | 33.13 (84.2)               | 39.38 (100.0)               | H22C30-F-FF                       |
|                                                                    | IDC215                   | 30.00 (76.2)  | 33.13 (84.2)               | 39.38 (100.0)               | H22C30-F-IDC                      |
|                                                                    | IDC255 and Pro Fast Gate | 30.00 (76.2)  | 33.13 (84.2)               | 36.38 (92.4)                | H22C30-F-IDC                      |
|                                                                    | IDC Pro                  | 30.00 (76.2)  | 33.13 (84.2)               | 40.25 (102.2)               | H22C30-X-PRO <sup>10</sup>        |
| Lancer dispensers                                                  | 4500-30N                 | 30.00 (76.2)  | 30.50 (77.5)               | 36.50 (92.7)                | H22L30-(F or B) <sup>9</sup>      |
|                                                                    | FS-22N                   | 22.00 (55.9)  | 30.50 (77.5)               | 42.13 (107.0)               | H22L22-F                          |
|                                                                    | FS-30N                   | 30.00 (76.2)  | 30.50 (77.5)               | 42.13 (107.0)               | H22L30-(F or B) <sup>9</sup>      |
|                                                                    | Bevariety                | 30.00 (76.2)  | 31.00 (78.7)               | 37.75 (95.9)                | H22L30-F-STP                      |
|                                                                    | Sensation 30"            | 30.00 (76.2)  | 31.00 (78.7)               | 38.25 (97.2)                | H22L30-F-STP                      |
|                                                                    | Sensation 44"            | 44.00 (111.8) | 31.00 (78.7)               | 39.38 (100.0)               | H22L44-F-STP                      |
|                                                                    | Touchpoint               | 32.50 (82.55) | 33.70 (85.6)               | 40.00 (101.6)               | H22L30-F-STP                      |
| Pepsi dispensers                                                   | Spire 3.0                | 27.00 (68.6)  | 35.00 (88.9)               | 38.12 (96.8)                | H22P24-F                          |
|                                                                    | Spire 5.0 / 4.1          | 30.50 (77.5)  | 36.00 (91.4)               | 42.75 (108.6)               | H22P30-F                          |
| Servend dispensers                                                 | SV200                    | 30.00 (76.2)  | 33.13 (84.2)               | 37.63 (95.6)                | H22S30-F                          |
|                                                                    | MDH-302                  | 42.75 (108.6) | 31.00 (78.7)               | 32.38 (82.2)                | H22S44-(F or B) <sup>9</sup>      |
|                                                                    | MDH-402                  | 60.00 (152.4) | 30.50 (77.5)               | 32.38 (82.2)                | H22S60-(F or B) <sup>9, 11</sup>  |

<sup>1</sup> All approved dispensers can be filled with a RIDE model Horizon Elite ice machine without a top kit except Pepsi Spire 3.0, 5.0 and 4.1, see page 4 for details.

<sup>2</sup> Requires minimum 0.50" (1.27 cm) clearance between back of dispenser and wall.

<sup>3</sup> Net height after installation of top kit (excluding height of ice machine).

<sup>4</sup> Consult with Coca-Cola and Follett to qualify application prior to ordering.

<sup>5</sup> Top adapter IC Code 46412 and ice kit IC Code 46430 must also be ordered from Coca-Cola.

<sup>6</sup> Top adapter IC Code 46753 and ice kit IC Code 46430 must also be ordered from Coca-Cola.

<sup>7</sup> Adapter must also be ordered from Coca-Cola. KO IC Code: 46010 (Silver), 46011 (Red) or 46012 (Black).

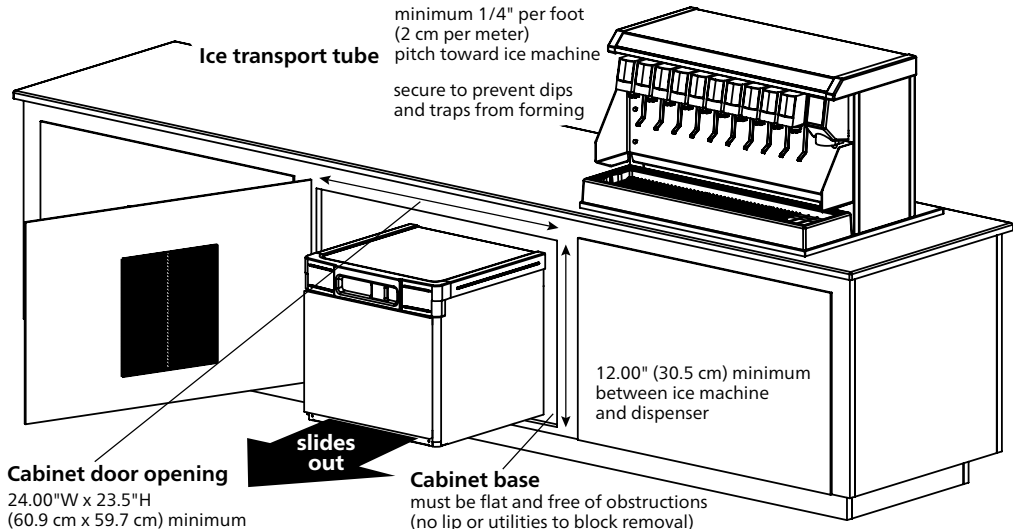
<sup>8</sup> Top designed with flexibility to accommodate front or back mounting.

<sup>9</sup> Specify "F" for front facing, or "B" for backward facing units.

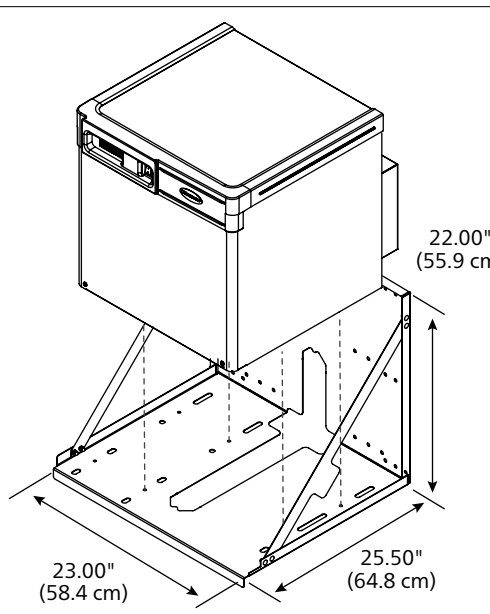
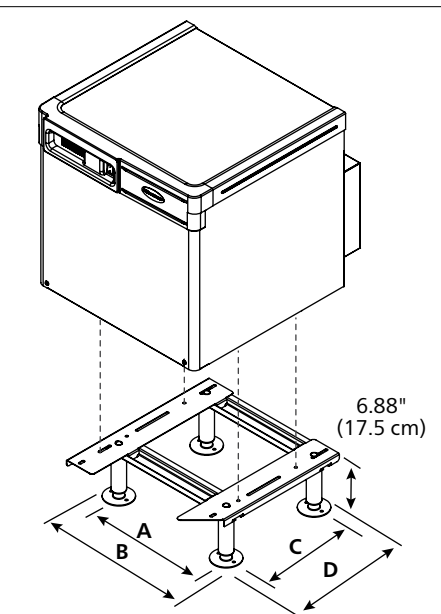
<sup>10</sup> Top designed with flexibility to accommodate front or back mounting.

<sup>11</sup> 60- inch models: Please specify number of Horizon Elite ice machines and location. D = 2; R = 1 on right side; L = 1 on left side.

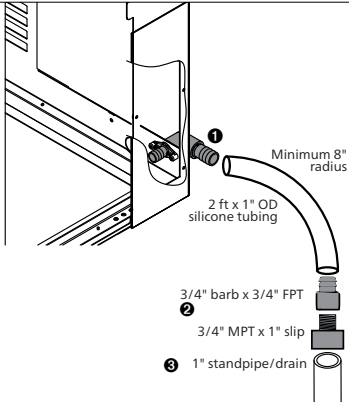
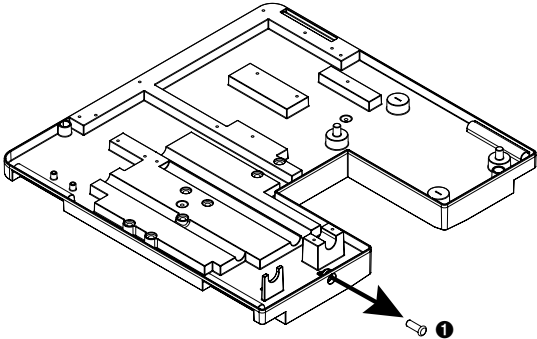
2 – Undercounter/in-cabinet mounting

| Cabinet details                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Important specifier notes                                                                                                                                                                                                                                                                                                                                                                                                                 |  <p>Ice transport tube<br/>minimum 1/4" per foot (2 cm per meter) pitch toward ice machine<br/>secure to prevent dips and traps from forming</p> <p>slides out</p> <p>12.00" (30.5 cm) minimum between ice machine and dispenser</p> <p>Cabinet door opening<br/>24.00"W x 23.5"H (60.9 cm x 59.7 cm) minimum</p> <p>Cabinet base<br/>must be flat and free of obstructions (no lip or utilities to block removal)</p> |
| <ol style="list-style-type: none"><li>1. Cabinet door opening must meet minimum size requirements shown and be free of obstructions to allow ice machine to slide out (no lip or utilities to block removal).</li><li>2. Cabinet base must be capable of supporting ice machine and allow ice machine to rest flat on cabinet bottom.</li><li>3. No counter supports, electric or plumbing can run in front of the ice machine.</li></ol> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

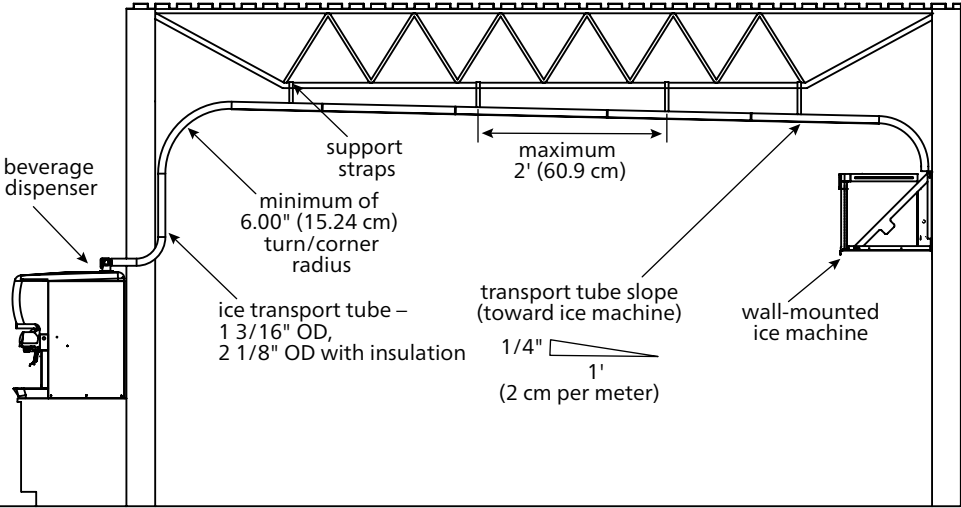
3 – Horizon Elite ice machine mounting accessories

| Optional wall mount bracket                                                                                                                                | Optional machine stand                                                                                                                                                                                                | Important specifier notes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>22.00" (55.9 cm)</p> <p>23.00" (58.4 cm)</p> <p>25.50" (64.8 cm)</p> |  <p>6.88" (17.5 cm)</p> <p>A - 15.875" (40.3 cm)    C - 13.00" (33.0 cm)</p> <p>B - 19.375" (49.2 cm)    D - 21.00" (53.3 cm)</p> | <ol style="list-style-type: none"><li>1. For secure wall mounting, specify optional wall mount bracket.</li><li>2. Wall and fasteners must support the weight of the ice machine, bracket, supply water and ice. Use of a backing board may be required with hollow wall construction.</li><li>3. Machine stand mounting adds 6.88" (17.5 cm) to height of ice machine.</li><li>4. No dips in tube routing allowed.</li><li>5. Ice transport tube needs minimum 1/4" per foot (2 cm per meter) pitch toward ice machine and should be secured to prevent dips and traps from forming.</li></ol> |

4 – Horizon Elite drains - specifier guidelines

|                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Ice machine drain plumbing</b></p>          | <p><b>Important specifier notes: Where code allows, follow recommendation below.</b></p> <ol style="list-style-type: none"><li>1. Apply Teflon tape to 3/4" male outlet ice machine fitting. Thread on either the provided straight 3/4" barb adapter or a 90 degree adaptor. Connect the supplied 2' (0.61 m) silicone hose to the 3/4" drain barb ❶.</li><li>2. It is recommended that the silicone hose be routed down into a 1.5" or 2" standpipe/drain. The minimum drain size for the ice machine is 1".</li></ol> <p>NOTE: 3/4" to 1" PVC adapter fittings are provided if a larger drain size is not possible ❷ ❸.</p> <p>NOTE: Minimum 8" radius on silicone drain line. Drain line from the ice machine must have at least 1/4" per foot pitch (6.4 mm/0.3 m).</p> <p>NOTE: Standpipe/drain provided by others. All other components provided with ice machine.</p> |
| <p><b>Chassis drain plumbing – Required</b></p>  | <p><b>Important specifier notes: Where code allows, follow recommendation below.</b></p> <ol style="list-style-type: none"><li>1. Remove white 3/8" plug from rear push-in fitting ❶.</li><li>2. Route 3/8" OD drain tubing (preferably copper) through rear of docking station and fully insert into chassis base push-in fitting. Route into drain standpipe.</li><li>3. Gravity drain. Ensure 3/8" OD tubing slopes down into drain standpipe without forming a trap.</li></ol>                                                                                                                                                                                                                                                                                                                                                                                            |

5 – Horizon Elite ice tube runs - specifier guidelines

|                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Long tube runs for RIDE remote ice delivery equipment</b></p>  | <p><b>Important specifier notes</b></p> <ol style="list-style-type: none"><li>1. 75' (22.9 m) maximum ice transport tube run.</li><li>2. Tubing routing bends must have a 6.00" (15.24 cm) radius or larger.</li><li>3. Dips and traps are not allowed. A 3" (7.62 cm) or larger PVC pipe chase is suggested to support the tubing run. If not supported, secure insulated ice transport tube at least every 2' (0.61 m) to prevent drips and traps.</li><li>4. Relative humidity levels above 80% in areas where the ice machine or ice transport tube is located may produce excessive condensation that will cause water damage.</li><li>5. Contact factory for recommendations on running tubing through a decorative soffit or chase.</li></ol> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

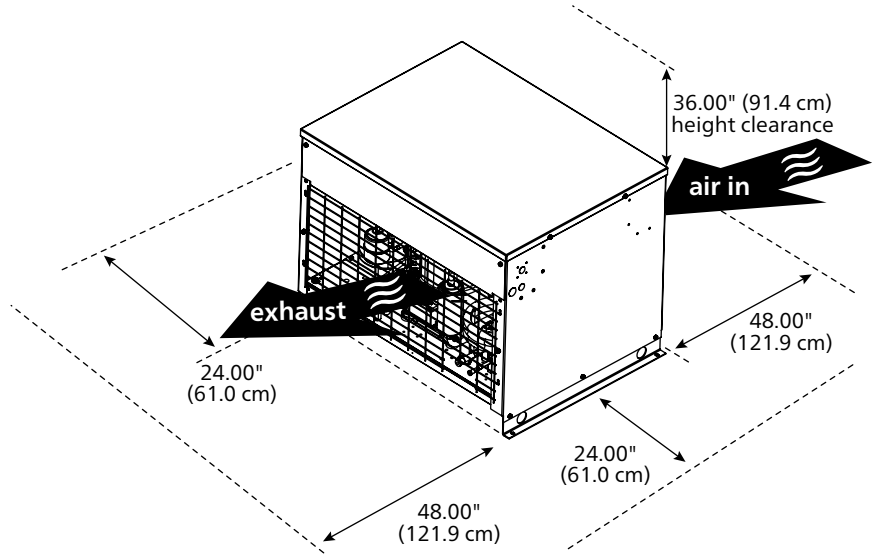


## Remote condensing unit

### Condensing unit installation specifications

#### Important specifier notes

1. Provide front, back, top and side clearances as shown.
2. The maximum refrigerant line run length is 100' (30.5 m). Installations require 12 lb for 1010/1410 single phase and 12.5 lb for 1010 three phase. 1412 three phase is pre-charged with 8 lb.
3. The maximum line rise above the evaporator is 35' (10.7 m). Condensing unit above evaporator unit – 35' (10.7 m) (installations with rise over 20' (6.1 m) require additional suction line s-trap at midpoint rise) and p-trap at top of riser.
4. The evaporator can only be mounted a maximum of 15' (4.6 m) above the condensing unit.
5. P-trap required at bottom of suction riser.



### Ice production – Horizon Elite D1010R series

| Inlet water temperature<br>F (C) | Ambient air temperature F (C) |           |           |           |           | lb (kg) production in 24 hr |
|----------------------------------|-------------------------------|-----------|-----------|-----------|-----------|-----------------------------|
|                                  | 60 (16)                       | 70 (21)   | 80 (27)   | 90 (32)   | 100 (38)  |                             |
| 50 F (10 C)                      | 1051 (477)                    | 978 (444) | 906 (411) | 834 (379) | 763 (346) |                             |
| 60 F (16 C)                      | 1037 (471)                    | 925 (420) | 855 (388) | 796 (361) | 737 (335) |                             |
| 70 F (21 C)                      | 937 (425)                     | 871 (395) | 805 (366) | 758 (344) | 711 (323) |                             |
| 80 F (27 C)                      | 904 (410)                     | 839 (381) | 774 (351) | 727 (330) | 680 (309) |                             |
| 90 F (32 C)                      | 872 (396)                     | 807 (366) | 743 (337) | 696 (316) | 648 (294) |                             |

### Ice production – Horizon Elite D1410R series

| Inlet water temperature<br>F (C) | Ambient air temperature F (C) |            |            |            |            | lb (kg) production in 24 hr |
|----------------------------------|-------------------------------|------------|------------|------------|------------|-----------------------------|
|                                  | 60 (16)                       | 70 (21)    | 80 (27)    | 90 (32)    | 100 (38)   |                             |
| 50 F (10 C)                      | 1474 (669)                    | 1372 (623) | 1269 (576) | 1212 (550) | 1154 (524) |                             |
| 60 F (16 C)                      | 1385 (628)                    | 1292 (586) | 1198 (544) | 1148 (521) | 1097 (498) |                             |
| 70 F (21 C)                      | 1296 (588)                    | 1212 (550) | 1127 (511) | 1083 (492) | 1039 (472) |                             |
| 80 F (27 C)                      | 1239 (562)                    | 1155 (524) | 1072 (487) | 1030 (468) | 988 (449)  |                             |
| 90 F (32 C)                      | 1181 (536)                    | 1099 (499) | 1017 (462) | 976 (443)  | 936 (425)  |                             |

### Ice production – Horizon Elite D1412R series

| Inlet water temperature<br>F (C) | Ambient air temperature F (C) |            |            |            |            | lb (kg) production in 24 hr |
|----------------------------------|-------------------------------|------------|------------|------------|------------|-----------------------------|
|                                  | 60 (16)                       | 70 (21)    | 80 (27)    | 90 (32)    | 100 (38)   |                             |
| 50 F (10 C)                      | 1391 (755)                    | 1371 (744) | 1339 (726) | 1306 (701) | 1235 (668) |                             |
| 60 F (16 C)                      | 1301 (705)                    | 1280 (693) | 1251 (677) | 1222 (661) | 1156 (624) |                             |
| 70 F (21 C)                      | 1224 (662)                    | 1215 (657) | 1176 (636) | 1138 (614) | 1077 (581) |                             |
| 80 F (27 C)                      | 1156 (624)                    | 1149 (621) | 1113 (601) | 1077 (581) | 1020 (549) |                             |
| 90 F (32 C)                      | 1075 (580)                    | 1055 (568) | 1036 (558) | 1016 (547) | 962 (517)  |                             |

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## Remote 1010, 1410, 1412 series ice machine