

Horizon Elite"'
remote 1010, 1410 series Chewblet ${ }^{\circ}$ ice machine

## Short form specification:

Ice machine to be a Follett* Horizon Elite ice machine model [Insert size/series, condenser type and installation/mounting, from model number guide] 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
$\square i c e ~ s t o r a g e ~ b i n, ~ \square i c e ~ a n d ~ w a t e r ~ d i s p e n s e r, ~ \square i c e ~ a n d ~ b e v e r a g e ~ d i s p e n s e r, ~$ $\square$ drop-in dispenser or $\square$ Ice Manager ${ }^{\text {m" }}$ 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, plus all the features listed below and mounting/performance-enhancing accessories checked.

| Model configurations |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| For use with ${ }^{1}$ | Install/mount | Condenser | V/Hz/Ph | $\begin{array}{\|l} \text { Item number }{ }^{2} \\ 1010 \text { series } \end{array}$ | Item number ${ }^{2}$ <br> 1410 series |
| ice storage bin | top mount | with | 115/60/1 ${ }^{4}$ | HCD1010RBT | HCD1410RBT |
|  |  | without | 115/60/1 | HCD1010NBT | HCD1410NBT |
|  | RIDE | with | 115/60/1 ${ }^{4}$ | HCD1010RBS | HCD1410RBS |
|  |  | without | 115/60/1 | HCD1010NBS | HCD1410NBS |
| Follett Vision" undercounter ice and beverage dispenser | RIDE | with | 115/60/1 ${ }^{4}$ | HCD1010RVS | HCD1410RVS |
|  |  | without | 115/60/1 | HCD1010NVS | HCD1410NVS |
| countertop ice and beverage dispenser (by others) | top mount ${ }^{3}$ | with | 115/60/1 ${ }^{4}$ | HCD1010RHT | HCD1410RHT |
|  |  | without | 115/60/1 | HCD1010NHT | HCD1410NHT |
|  | RIDE | with | 115/60/1 ${ }^{4}$ | HCD1010RHS | HCD1410RHS |
|  |  | without | 115/60/1 | HCD1010NHS | HCD1410NHS |
| drop-in dispenser (by others) | RIDE | with | 115/60/1 ${ }^{4}$ | HCD1010RJS | HCD1410RJS |
|  |  | without | 115/60/1 | HCD1010NJS | HCD1410NJS |
| Ice Manager diverter valve system | RIDE | with | 115/60/1 ${ }^{4}$ | HCD1010RMS | HCD1410RMS |
|  |  | without | 115/60/1 | HCD1010NMS | HCD1410NMS |
| ${ }^{1}$ Ordered separately. <br> ${ }^{2}$ For Micro Chewblet ice, replace second character (C) with an M e.g. HMD1010RBT. <br> Not for use with Ice Manager. <br> ${ }^{3}$ Requires top kit (see page 5 for part number). <br> ${ }^{4}$ Condensing unit is 208-230/60/1. For three phase remote condensing unit, 208-230/60/3, replace third character (D) with F e.g. HCF1010RBT. |  |  |  |  |  |

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## Accessories

$\square$ Top kit for ice and beverage dispensers (page 5)
$\square$ Water filters (refer to form\# 9905)
$\square$ Wall mount bracket (item\# 00997098 )
$\square$ Ice machine stand, height-adjustable (item\# 00997080)
$\square$ Timer to control one or two ice machines (item\# 00967265)
$\square$ Longer ice transport tube (refer to the price list, form\# 4025) NOTE: 10' (3 m) provided as standard for RIDE model.
$\square$ Sleep cycle kit for improved energy efficiency and component life. For countertop dispenser applications for models ending in HS and HT (item\# 01338276).
$\square$ Insulated refrigeration lines (not pre-charged) for 1010R and 1410 R
$\square 35^{\prime}(11 \mathrm{~m})$ (item\# 00193227)
$\square 50$ ' 50 m ) (Item\# 01262328)
$\square$
SafeCLEAN Plus" ice machine cleaner
$\square 1 \times 8$ oz ( 237 ml ) bottle (item\# 01147826 )
$\square 6 \times 8$ oz ( 237 ml ) bottles (item\# 01149954 )
$\square 24 \times 8$ oz ( 237 ml ) bottles (item\# 01149962 )
$\square$ SaniSponge ${ }^{\text {m" }}$, 24 sanitary sponges (item\# 01075431)
$\square$ Three year remote monitoring subscription for Open Kitchen NOTE: For serial number Q34181 and above.
$\square$ For first piece of equipment at location (item\# MDD-1003)
$\square$ For subsequent pieces of equipment at location (item\# MDD-1004)
$\square$ For additional accessories, refer to form\# 4025

## Dimensional drawing



## Specification, evaporator unit

| W1 Width | $22.70^{\prime \prime}(57.7 \mathrm{~cm})$ <br> Fits on 22.00 " wide dispensers |
| :---: | :---: |
| D1 Depth | $\begin{aligned} & 1010 \text { series }-22.50^{\prime \prime}(57.2 \mathrm{~cm}) \\ & 1410 \text { series }-24.50^{\prime \prime}(62.2 \mathrm{~cm}) \end{aligned}$ |
| H1 Height | 21.25 " ( 53.9 cm ) |
| Clearance | 1.00 " ( 2.54 cm ) top, left and right |
| C1 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 |
| C2 Ice transport tube | see page 7 for details |
| C3 Water inlet | 3/8" OD push-in water inlet - internal connection |
| C4 Drain | 3/4" MPT, 1" drain required. See page 7 for details. |
| C5 Ice bin signal cord | for Vision applications only |
| C6 Liquid line | 3/8" |
| C7 Suction line | 5/8" |
| C8 Auxiliary drain (required) | 3/8" OD push-in |
| Air temperature | $50-100 \mathrm{~F}(10-38 \mathrm{C})$ |
| 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 90 F (32 C) air, 70 F (21 C) water | 1010 single phase -4.68 kWh 1010 three phase -3.57 kWh 1410 single phase -4.63 kWh per $100 \mathrm{lb}(45.4 \mathrm{~kg})$ ice |
| Water consumption | 1010 series $-12.0 \mathrm{gal}(47 \mathrm{~L})$ of potable water per $100 \mathrm{lb}(45.4 \mathrm{~kg})$ of ice (per AHRI test standards). $12.4 \mathrm{gal}(46.9 \mathrm{~L})$ at low TDS flush setting <br> 1410 series $-12.5 \mathrm{gal}(47 \mathrm{~L})$ of potable water per $100 \mathrm{lb}(45.4 \mathrm{~kg})$ of ice (per AHRI test standards). 12.3 gal ( 46.5 L ) at low TDS flush setting |
| Refrigerant | R404a |
| $\mathrm{BTU} / \mathrm{hr}$ (Kcal/hr) at $0 \mathrm{~F}(-18 \mathrm{C})$ evaporator, 90 F (32 C) ambient air | $\begin{aligned} & 1010 \text { series }-7,700(1,940) \\ & 1410 \text { series }-10,000(2,520) \end{aligned}$ |
| Rack systems EPR valve - set to EPR valve to be supplied by installer | 0 F (-18C) |
| Approximate ship weight | $\begin{aligned} & 1010 \text { series }-195 \mathrm{lb}(88 \mathrm{~kg}) \\ & 1410 \text { series }-205 \mathrm{lb}(93 \mathrm{~kg}) \end{aligned}$ |
| Approximate net weight | $\begin{aligned} & 1010 \text { series }-157 \mathrm{lb}(71 \mathrm{~kg}) \\ & 1410 \text { series }-167 \mathrm{lb}(76 \mathrm{~kg}) \end{aligned}$ |
| NOTE: For indoor use only. Outdoor installation of low side is not recommended and will void warranty. |  |

## Dimensional drawing

## 1010/1410 single phase

## 1010 three phase



## Specification, condenser unit

| w1 Width | All models - 39.90" (101 cm) |
| :---: | :---: |
| D1 Depth | All models - 28.50" ( 72.4 cm ) |
| H1 Height | All models - 21.50 " ( 54.6 cm ) |
| Electrical | 1010 and 1410 single phase - 208-230/60/1 1010 three phase - 208-230/60/3 |
| Operating power | 1010 single phase -1.46 kW 1010 three phase -1.42 kW 1410 single phase -2.2 kW |
| Minimum circuit ampacity | 1010 and 1410 single phase - 10.6 A 1010 three phase -9.7 A |
| Maximum overcurrent protection | 1010 single phase - 15 A 1010 three phase - 15 A 1410 single phase - 25 A |
| Outdoor condensing unit operating limits (air temperature) | $\begin{aligned} & \min -20 \mathrm{~F}(-29 \mathrm{C}) \\ & \max 120 \mathrm{~F}(49 \mathrm{C}) \end{aligned}$ |
| Maximum refrigerant line run length | 100' (30.5 m) |
| Maximum line rise above evaporator | $35^{\prime}$ (10.7 m) |
| Evaporator mounting above condenser | $15^{\prime}(4.6 \mathrm{~m})$ |
| Maximum refrigeration line drop without oil trap | 15' (4.6 m) |
| Refrigerant charge | 1010 and 1410 single phase - 12 lb 1010 three phase - 12.5 lb required at installation |
| Approximate ship weight | 1010 single and three phase $-260 \mathrm{lb}(118 \mathrm{~kg})$ <br> 1410 single phase - $270 \mathrm{lb}(123 \mathrm{~kg}$ ) |
| Approximate net weight | 1010 single and three phase $-222 \mathrm{lb}(101 \mathrm{~kg})$ 1410 single phase $-232 \mathrm{lb}(105 \mathrm{~kg})$ |

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 $75^{\prime}(22.9 \mathrm{~m})$ 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).

| Top mounting - ice and beverage <br> dispensers (by others) | RIDE model - Follett low-profile <br> Vision ice and beverage dispensers | Top mount on Follett ice storage bins |
| :--- | :--- | :--- |


| RIDE model - ice and beverage dispensers (by others) | RIDE model - drop-in beverage dispensers (by others) | RIDE model - Follett ice storage bins |
| :---: | :---: | :---: |
|  |  |  |
| Important specifier notes | Important specifier notes | Important specifier notes |
| 1. Dispenser must be compatible with nugget ice. Compatible dispensers include Cornelius DB/ED/DF150/175, Lancer $4500-22 \mathrm{~N}, \mathrm{FS}-16 \mathrm{~N}$ and FS-44N, Servend MD150/175/200/250 SV150/175/200/250 and Follett Symphony Plus"' 110 CM , as well as dispensers listed on page 5. <br> 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. <br> 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. <br> 4. See page 6 for critical clearance requirements. | 1. Compatible with the following dispensers: Cornelius 1522, 1722, 2323 and Lancer 2200, 2300, 23300. <br> 2. Requires 12.00 " ( 30.5 cm ) of access space for installation on transport tube side. <br> 3. See page 6 for critical clearance requirements. | 1. See form\# 8590 for bin sizing. <br> 2. Locate floor sink or grate and drains in front of storage bin. <br> 3. Do not position bin drain lines to block Ice•Device bin cart. |

## 1 - Locating the ice machine (continued)

## Top mounting - compatible ice and beverage dispensers ${ }^{1}$

| Manufacturer | Model Number | Width <br> in (cm) | Depth ${ }^{2}$ <br> in (cm) | Height ${ }^{3}$ in (cm) | Top kit |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Coca-Cola dispensers | Freestyle 7000 | 30.10 (76.5) | 33.11 (79.0) | 47.00 (119.4) | H22F30-F ${ }^{4,5}$ |
|  | Freestyle 7100 | 30.00 (76.2) | 33.80 (85.8) | 47.00 (119.4) | H22F30-F ${ }^{4,6}$ |
|  | Freestyle 9000 | 25.50 (64.8) | 35.50 (90.2) | 73.75 (187.3) | H22F24-F ${ }^{4,7}$ |
|  | Freestyle 9100 | 25.50 (64.8) | 39.25 (99.7) | 77.25 (196.2) | H22F26-F ${ }^{4}$ |
| Cornelius dispensers | DB/ED/DF 200 series | 30.00 (76.2) | 30.00 (76.2) | 34.38 (87.3) | H22C30-F or H22C30-X8 |
|  | DB/ED/DF 250 series | 30.00 (76.2) | 30.00 (76.2) | 38.38 (97.5) | H22C30-F or H22C30-X ${ }^{8}$ |
|  | DB/ED/DF 300 series | 44.00 (111.8) | 30.00 (76.2) | 34.00 (86.4) | H22C44-(F or B) ${ }^{9}$ |
|  | 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 ${ }^{10}$ |
| Lancer dispensers | 4500-30N | 30.00 (76.2) | 30.50 (77.5) | 36.50 (92.7) | H22L30-(F or B) ${ }^{9}$ |
|  | 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) ${ }^{9}$ |
|  | 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 | MDH-302 | 42.75 (108.6) | 31.00 (78.7) | 32.38 (82.2) | H22S44-(F or B) ${ }^{9}$ |
|  | MDH-402 | 60.00 (152.4) | 30.50 (77.5) | 32.38 (82.2) | H22S60-(F or B) ${ }^{9,11}$ |

[^1]
## 2 - Undercounter/in-cabinet mounting



## 3 - Horizon Elite ice machine mounting accessories

Optional wall mount bracket

| Ice machine drain plumbing | Important specifier notes: Where code allows, follow recommendation below. |
| :---: | :---: |
|  | 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 $2^{\prime}(0.61 \mathrm{~m})$ silicone hose to the $3 / 4$ " drain barb <br> 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 $1^{\prime \prime}$. <br> NOTE: 3/4" to 1" PVC adapter fittings are provided if a larger drain size is not possible (2) <br> NOTE: Minimum 8" radius on silicone drain line. Drain line from the ice machine must have at least $1 / 4$ " per foot pitch ( $6.4 \mathrm{~mm} / 0.3 \mathrm{~m}$ ). <br> NOTE: Standpipe/drain provided by others. All other components provided with ice machine. |
| Chassis drain plumbing - Required | Important specifier notes: Where code allows, follow recommendation below. |
|  | 1. Remove white $3 / 8$ " plug from rear push-in fitting (1. <br> 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. <br> 3. Gravity drain. Ensure 3/8" OD tubing slopes down into drain standpipe without forming a trap. |

## 5 - Horizon Elite ice tube runs - specifier guidelines



## Remote condensing unit



Ice production - Horizon Elite 1010 series, air-cooled models

| Inlet water temperature F (C) | Ambient air temperature F (C) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 60 (16) | 70 (21) | 80 (27) | 90 (32) | 100 (38) |  |
| $50 \mathrm{~F}(10 \mathrm{C})$ | 1051 (477) | 978 (444) | 906 (411) | 834 (379) | 763 (346) | $\stackrel{\text { N }}{\sim}$ |
| $60 \mathrm{~F}(16 \mathrm{C})$ | 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) | $\bigcirc$ |
| 90 F (32 C) | 872 (396) | 807 (366) | 743 (337) | 696 (316) | 648 (294) | 으 |

Ice production - Horizon Elite 1410 series, air-cooled models

| Inlet water temperature F (C) | Ambient air temperature F (C) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 60 (16) | 70 (21) | 80 (27) | 90 (32) | 100 (38) |  |
| 50 F (10 C) | 1474 (669) | 1372 (623) | 1269 (576) | 1212 (550) | 1154 (524) | $\underset{\sim}{~}$ |
| 60 F (16 C) | 1385 (628) | 1292 (586) | 1198 (544) | 1148 (521) | 1097 (498) | $\bigcirc$ |
| 70 F (21 C) | 1296 (588) | 1212 (550) | 1127 (511) | 1083 (492) | 1039 (472) | 5 |
| 80 F (27 C) | 1239 (562) | 1155 (524) | 1072 (487) | 1030 (468) | 988 (449) | $\bigcirc$ |
| 90 F (32 C) | 1181 (536) | 1099 (499) | 1017 (462) | 976 (443) | 936 (425) | $\bigcirc$ |


[^0]:    Independent third party studies. Contact Follett for details.
    ${ }^{2}$ Disclaimer: Antimicrobial protection is limited to the treated components and does not treat water or ice
    ${ }^{3}$ Refer to price list for additional warranty information.

[^1]:    ${ }^{1}$ 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.
    ${ }^{2}$ Requires minimum 0.50 " $(1.27 \mathrm{~cm})$ clearance between back of dispenser and wall.
    ${ }^{3}$ Net height after installation of top kit (excluding height of ice machine).
    ${ }^{4}$ Consult with Coca-Cola and Follett to qualify application prior to ordering.
    ${ }^{5}$ Top adapter IC Code 46412 and ice kit IC Code 46430 must also be ordered from Coca-Cola
    ${ }^{6}$ Top adapter IC Code 46753 and ice kit IC Code 46430 must also be ordered from Coca-Cola.
    ${ }^{7}$ Adapter must also be ordered from Coca-Cola. KO IC Code: 46010 (Silver), 46011 (Red) or 46012 (Black).
    ${ }^{8}$ Top designed with flexibility to accommodate front or back mounting.
    ${ }^{9}$ Specify " $F$ " for front facing, or " B " for backward facing units.
    ${ }^{10}$ Top designed with flexibility to accommodate front or back mounting.
    ${ }^{11} 60$ - inch models: Please specify number of Horizon Elite ice machines and location. $D=2 ; R=1$ on right side; $L=1$ on left side.

