



remote three phase 1400 series Chewblet® ice machine

Features

High performance Horizon Elite ice machines

- up to 1372 lb (623 kg) in 24 hours
- automatically transport ice through a tube with RIDE* technology from up to 75' (22.9 m) away
- chewable, compressed nugget ice is preferred over cubes¹
- ice dispenses reliably from ice and beverage dispensers
- available with approximately 1.00" (2.54 cm) long standard Chewblet ice or optional 3/8" (0.95 cm) long Micro Chewblet™ ice
- 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
- saves 35% water compared to comparable cubers

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 components²
- 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

Warrantv

- 3 years parts and labor, 5 years compressor parts³

Certifications





Model configurations Item number V/Hz/Ph For use with1 Install/mount Condenser 1412 series² condensing and evaporator unit 115/60/1 HCF1412RBT top mount evaporator unit HCF1412KBT 115/60/1 ice storage bin condensing and evaporator unit 115/60/1 HCF1412RBS RIDE evaporator unit HCF1412KBS 115/60/1 Follett Vision" condensing and evaporator unit HCF1412RVS 115/60/1 undercounter RIDE ice and beverage evaporator unit 115/60/1 HCF1412KVS only dispenser condensing and evaporator unit 115/60/1 HCF1412RHT countertop ice top mount⁴ and beverage evaporator unit 115/60/1 HCF1412KHT dispenser only (by others) condensing and evaporator unit 115/60/1 HCF1412RHS and Follett RIDE Ice Manager⁵ evaporator unit 115/60/1 HCF1412KHS condensing and evaporator unit 115/60/1 HCF1412RIS drop-in dispenser RIDE (by others) evaporator unit 115/60/1 HCF1412KJS

Accessories

- ☐ Top kit for ice and beverage dispensers (page 5)
- ☐ Water filters (refer to form# 9905)
- ☐ Wall mount bracket (item# 00997098)
- ☐ Ice machine stand, height-adjustable (item# 00997080)
- ☐ Timer to control one or two ice machines (item# 00967265)
- ☐ Longer ice transport tube (refer to the price list, form# 4025) NOTE: 10' (3 m) provided as standard for RIDE model.
- ☐ Sleep cycle kit for improved energy efficiency and component life. For countertop dispenser applications (item# 01338276).
- ☐ 35' (11 m) insulated refrigeration lines (not pre-charged) (item# 00977785)
- ☐ 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 number Q34181 and above.
- ☐ For additional accessories, refer to form# 4025



Ordered separately.

² For Micro Chewblet ice, replace second character (C) with an M, e.g. HMF1412RBT.

³ Not for use with rack system. Only use with Follett 1412 condensing unit, item# F1412CU

⁴ Requires top kit (see page 5 for part number).

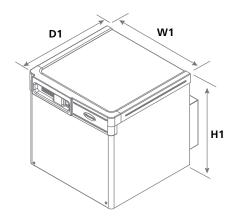
⁵ Refer to form# 1050 for Ice Manager details and requirements.

¹ 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.

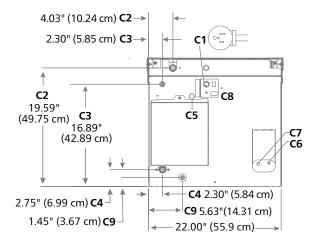
³ Refer to price list for additional warranty information

Dimensional drawing



SHORT FORM SPECIFICATION: Follett® Horizon Elite ice machine model

ice, and semi-automatic cleaning and sanitizing system.

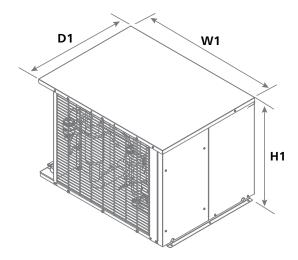


Specification, evaporator unit			
W1 Width	22.70" (57.7 cm) Fits on 22.00" wide dispensers		
D1 Depth	24.50" (62.2 cm)		
H1 Height	21.25" (53.9 cm)		
Clearance	top, left and right – 1.00" (2.54 cm)		
C1 Electrical 115 V/60/1	5 amps, requires dedicated 15 amp circuit, 6' (1.8 m) cord, NEMA 5-15 plug		
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	7/8"		
C8 Communication port, 24 VAC	ice machine to outdoor condensing unit (wire not included)		
C9 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 90 F (32 C) air, 70 F (21 C) water	4.73 kWh per 100 lb (45.4 kg) ice		
Water consumption	12.5 gal (47 L) of potable water per 100 lb (45.4 kg) of ice (per AHRI test standards) 12.3 gal (46.5 L) at low TDS flush setting		
Refrigerant	R449a		
BTU/hr (Kcal/hr) at 0 F (-18 C) evaporator, 90 F (32 C) ambient air	10,000 (2,520)		
Approximate ship weight	205 lb (93 kg)		
Approximate net weight	167 lb (76 kg)		

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, _____ ice and beverage 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

capable of producing compressed nugget ice

Dimensional drawing



Specification, condenser unit	
W1 Width	39.60" (100.6 cm)
D1 Depth	28.20" (71.6 cm)
H1 Height	26.00" (66.0 cm)
Electrical	208-230/60/3
Operating power	3.0 kW
Minimum circuit ampacity	12 A
Maximum overcurrent protection	20 A
Outdoor condensing unit operating limits (air temperature)	min -20 F (-29 C) max 120 F (49 C)
Maximum refrigerant line run length	100' (30.5 m)
Maximum line rise above evaporator	35' (11 m)
Evaporator mounting above condenser	15' (4.6 m)
Maximum refrigeration line drop without oil trap	15' (4.6 m)
Refrigerant charge	8 lb pre-charged
Approximate ship weight	282 lb (128 kg)
Approximate net weight	244 lb (111 kg)

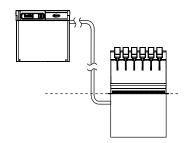
1 - Locating the ice machine

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

Top mounting – ice and beverage dispensers (by others)	RIDE model – Follett low-profile Vision ice and beverage dispensers	Top mount on Follett ice storage bins	
Important specifier notes	Important specifier notes	 Important specifier notes See form# 8590 for bin sizing. Verify ceiling or soffit height to ensure top clearance. Locate floor sink or grate and drains in fron of storage bin. Do not position bin drain lines to block Ice•Devlce™ bin cart. 	
 Dispenser must be compatible with nugget ice. See page 5 for compatible ice and beverage dispenser models and top kit numbers. Verify ceiling or soffit height to ensure sufficient top clearance. 	 See page 6 for critical clearance requirements. Ice transport tube ships with Vision ice and beverage dispenser (Vision applications only). 		
RIDE model – ice and beverage dispensers (by others)	RIDE model – drop-in beverage dispensers (by others)	RIDE model – Follett ice storage bins	

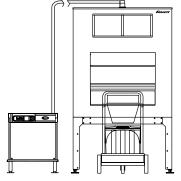
Important specifier notes

- 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.
- 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.
- 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.
- See page 6 for critical clearance requirements.



Important specifier notes

- 1. Compatible with the following dispensers: Cornelius 1522, 1722, 2323 and Lancer 2200, 2300, 23300.
- 2. Requires 12.00" (30.5 cm) of access space for installation on transport tube side.
- 3. See page 6 for critical clearance requirements.



Important specifier notes

- 1. See form# 8590 for bin sizing. 2. Locate floor sink or grate and drains in front
- of storage bin.
- 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						
Model Number	Width in (cm)	Depth ² in (cm)	Height ³ in (cm)	Top kit		
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		
DB/ED/DF 200 series	30.00 (76.2)	30.00 (76.2)	34.38 (87.3)	H22C30-F or H22C30-X ⁸		
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		
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		
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		
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}		
	Model Number Freestyle 7000 Freestyle 7100 Freestyle 9000 Freestyle 9100 DB/ED/DF 200 series DB/ED/DF 250 series DB/ED/DF 300 series FlavorFusion/Overload IDC215 IDC255 and Pro Fast Gate IDC Pro 4500-30N FS-22N FS-30N Bevariety Sensation 30" Sensation 44" Touchpoint Spire 3.0 Spire 5.0 / 4.1 MDH-302	Model Number Width in (cm) Freestyle 7000 30.10 (76.5) Freestyle 7100 30.00 (76.2) Freestyle 9000 25.50 (64.8) Freestyle 9100 25.50 (64.8) DB/ED/DF 200 series 30.00 (76.2) DB/ED/DF 250 series 30.00 (76.2) DB/ED/DF 300 series 44.00 (111.8) FlavorFusion/Overload 30.00 (76.2) IDC215 30.00 (76.2) IDC Pro 30.00 (76.2) 4500-30N 30.00 (76.2) FS-22N 22.00 (55.9) FS-30N 30.00 (76.2) Bevariety 30.00 (76.2) Sensation 30" 30.00 (76.2) Sensation 44" 44.00 (111.8) Touchpoint 32.50 (82.55) Spire 3.0 27.00 (68.6) Spire 5.0 / 4.1 30.50 (77.5) MDH-302 42.75 (108.6)	Model Number Width in (cm) Depth² in (cm) Freestyle 7000 30.10 (76.5) 33.11 (79.0) Freestyle 7100 30.00 (76.2) 33.80 (85.8) Freestyle 9000 25.50 (64.8) 35.50 (90.2) Freestyle 9100 25.50 (64.8) 39.25 (99.7) DB/ED/DF 200 series 30.00 (76.2) 30.00 (76.2) DB/ED/DF 250 series 30.00 (76.2) 30.00 (76.2) DB/ED/DF 300 series 44.00 (111.8) 30.00 (76.2) FlavorFusion/Overload 30.00 (76.2) 33.13 (84.2) IDC215 30.00 (76.2) 33.13 (84.2) IDC Pro 30.00 (76.2) 33.13 (84.2) IDC Pro 30.00 (76.2) 30.50 (77.5) FS-22N 22.00 (55.9) 30.50 (77.5) FS-30N 30.00 (76.2) 31.00 (78.7) Sensation 30" 30.00 (76.2) 31.00 (78.7) Sensation 44" 44.00 (111.8) 31.00 (78.7) Touchpoint 32.50 (82.55) 33.70 (85.6) Spire 3.0 27.00 (68.6) 35.00 (89.9) Spire 5.0 / 4.1 30.50 (77.5) <td>Model Number Width in (cm) Depth 2 in (cm) Height 3 in (cm) Freestyle 7000 30.10 (76.5) 33.11 (79.0) 47.00 (119.4) Freestyle 7100 30.00 (76.2) 33.80 (85.8) 47.00 (119.4) Freestyle 9000 25.50 (64.8) 35.50 (90.2) 73.75 (187.3) Freestyle 9100 25.50 (64.8) 39.25 (99.7) 77.25 (196.2) DB/ED/DF 200 series 30.00 (76.2) 30.00 (76.2) 34.38 (87.3) DB/ED/DF 250 series 30.00 (76.2) 30.00 (76.2) 38.38 (97.5) DB/ED/DF 300 series 44.00 (111.8) 30.00 (76.2) 34.00 (86.4) FlavorFusion/Overload 30.00 (76.2) 33.13 (84.2) 39.38 (100.0) IDC215 30.00 (76.2) 33.13 (84.2) 39.38 (100.0) IDC Pro 30.00 (76.2) 33.13 (84.2) 36.38 (92.4) IDC Pro 30.00 (76.2) 30.50 (77.5) 36.50 (92.7) FS-22N 22.00 (55.9) 30.50 (77.5) 42.13 (107.0) FS-30N 30.00 (76.2) 31.00 (78.7) 37.75 (95.9) Sensation 30" 30.00 (76.2)</td>	Model Number Width in (cm) Depth 2 in (cm) Height 3 in (cm) Freestyle 7000 30.10 (76.5) 33.11 (79.0) 47.00 (119.4) Freestyle 7100 30.00 (76.2) 33.80 (85.8) 47.00 (119.4) Freestyle 9000 25.50 (64.8) 35.50 (90.2) 73.75 (187.3) Freestyle 9100 25.50 (64.8) 39.25 (99.7) 77.25 (196.2) DB/ED/DF 200 series 30.00 (76.2) 30.00 (76.2) 34.38 (87.3) DB/ED/DF 250 series 30.00 (76.2) 30.00 (76.2) 38.38 (97.5) DB/ED/DF 300 series 44.00 (111.8) 30.00 (76.2) 34.00 (86.4) FlavorFusion/Overload 30.00 (76.2) 33.13 (84.2) 39.38 (100.0) IDC215 30.00 (76.2) 33.13 (84.2) 39.38 (100.0) IDC Pro 30.00 (76.2) 33.13 (84.2) 36.38 (92.4) IDC Pro 30.00 (76.2) 30.50 (77.5) 36.50 (92.7) FS-22N 22.00 (55.9) 30.50 (77.5) 42.13 (107.0) FS-30N 30.00 (76.2) 31.00 (78.7) 37.75 (95.9) Sensation 30" 30.00 (76.2)		

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 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.

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.

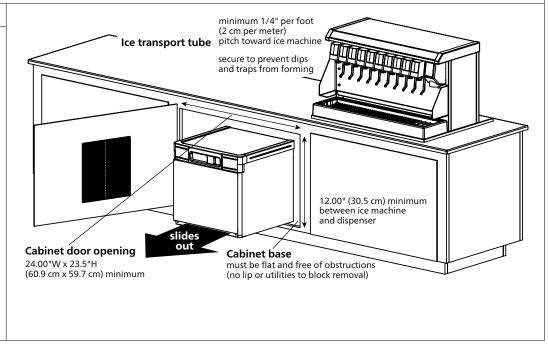
¹¹ 60- inch models: Please specify number of Horizon Elite ice machines and location. D = 2; R = 1 on right side; L = 1 on left side.

2 - Undercounter/in-cabinet mounting

Cabinet details

Important specifier notes

- 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).
- 2. Cabinet base must be capable of supporting ice machine and allow ice machine to rest flat on cabinet bottom.
- 3. No counter supports, electric or plumbing can run in front of the ice machine.



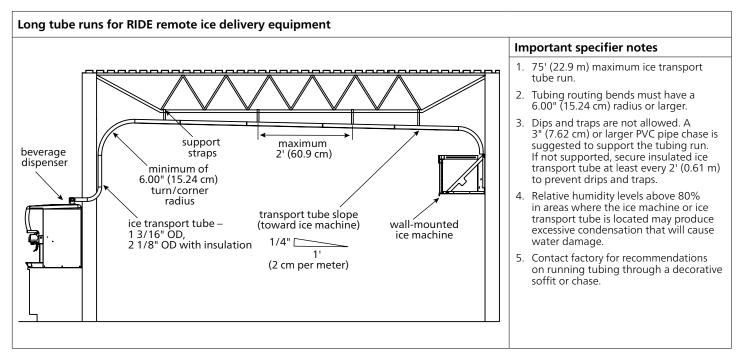
3 - Horizon Elite ice machine mounting accessories

Optional wall mount bracket Optional machine stand Important specifier notes 1. For secure wall mounting, specify optional wall mount bracket. 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. 3. Machine stand mounting adds 6.88" (17.5 cm) to height of ice machine. 22.00" (55.9 cm) 4. No dips in tube routing allowed. 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. 6.88" (17.5 cm) 25.50" 23.00" (64.8 cm) (58.4 cm) **A** - 15.875" (40.3 cm) **B** - 19.375" (49.2 cm) **C** - 13.00" (33.0 cm) **D** - 21.00" (53.3 cm)

4 - Horizon Elite drains - specifier guidelines

Important specifier notes: Where code allows, Ice machine drain plumbing 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' (0.61 m) silicone hose to the 3/4" drain barb $\mathbf{0}$. 2. It is recommended that the silicone hose be routed down into a 1.5" or 2" standpipe/drain. The Minimum 8" radius minimum drain size for the ice machine is 1". Note: 3/4" to 1" PVC adapter fittings are provided if a larger drain size is not possible 2 3 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). 3/4" barb x 3/4" FPT Note: Standpipe/drain provided by others. All other components provided with ice machine. 1" standpipe/drain Chassis drain plumbing - Required 1. Remove white 3/8" plug from rear push-in fitting 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 Gravity drain. Ensure 3/8" OD tubing slopes down into drain standpipe without forming a trap.

5 – Horizon Elite ice tube runs - specifier guidelines

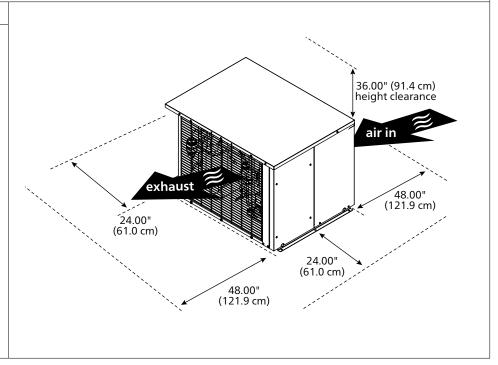


Remote condensing unit

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).
- 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 1412 series

Inlet water	Ambient air temperature F (C)						
temperature F (C)	60 (16)	70 (21)	80 (27)	90 (32)	100 (38)	110 (43)	¥
50 F (10 C)	1391 (755)	1371 (744)	1339 (726)	1306 (701)	1235 (668)	1165 (629)	in 24
60 F (16 C)	1301 (705)	1280 (693)	1251 (677)	1222 (661)	1156 (624)	1090 (588)	
70 F (21 C)	1224 (662)	1215 (657)	1176 (636)	1138 (614)	1077 (581)	1016 (547)	production
80 F (27 C)	1156 (624)	1149 (621)	1113 (601)	1077 (581)	1020 (549)	962 (517)	(kg) pr
90 F (32 C)	1075 (580)	1055 (568)	1036 (558)	1016 (547)	962 (517)	908 (487)	9

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Open Kitchen is a trademark of Powerhouse Dynamics.

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Remote 1412 series ice machine

