# Horizon Elite<sup>™</sup>



### Features

#### Horizon Elite

□ 1010 series - up to 1061 lb (482 kg) in 24 hours

- □ 1410 series up to 1466 lb (665 kg) in 24 hours
  - automatically transport ice through a tube with RIDE<sup>®</sup> technology from up to 75' (22.9 m) away
  - chewable, compressed nugget ice is preferred over cubes<sup>1</sup>
  - Chewblet 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<sup>™</sup> 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<sup>®</sup> silver-based antimicrobial product protection of key ice and water contact components<sup>2</sup>
- floatless, sealed design inhibits formation of biofilms
- semi-automatic cleaning and sanitizing system

#### Warranty

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

#### Certifications



### self-contained 1010, 1410 series Chewblet® ice machine

## Short form specification:

Ice machine to be a Follett<sup>®</sup> 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 □ ice storage bin, □ ice and water dispenser, □ ice and beverage dispenser, □ drop-in dispenser or □ Ice Manager<sup>™</sup> diverter valve system, slide-out compressor/condenser/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 configuratio	ns				
For use with <sup>1</sup>	Install/ mount	Condenser	V/Hz/Ph	Item number⁴ 1010 series	Item number <sup>4</sup> 1410 series
			208-230/60/1	HCC1010ABT	HCC1410ABT
	top	air	230/50/1	HCE1010ABT	HCE1410ABT
	mount		208-230/60/1	HCC1010WBT	HCC1410WB
		water	230/50/1	HCE1010WBT	HCE1410WB
ice storage bin			208-230/60/1	HCC1010ABS	HCC1410ABS
	RIDE	air	230/50/1	HCE1010ABS	HCE1410ABS
	RIDE	water	208-230/60/1	HCC1010WBS	HCC1410WB
		water	230/50/1	HCE1010WBS	HCE1410WB
Follett Vision <sup>™</sup>		air	208-230/60/1	HCC1010AVS	HCC1410AVS
undercounter	RIDE	ali	230/50/1	HCE1010AVS	HCE1410AVS
ice and beverage	RIDE	water	208-230/60/1	HCC1010WVS	HCC1410WV
lispenser		water	230/50/1	HCE1010WVS	HCE1410WV
Cornelius PR150 undercounter ice and	RIDE	air	208-230/60/1	HCC1010APS	HCC1410APS
beverage dispenser <sup>2</sup>		water	208-230/60/1	HCC1010WPS	HCC1410WP
		air	208-230/60/1	HCC1010AHT	HCC1410AH1
	top		230/50/1	HCE1010AHT	HCE1410AH1
countertop	mount3	water	208-230/60/1	HCC1010WHT	HCC1410WH
ice and beverage		water	230/50/1	HCE1010WHT	HCE1410WH
dispenser		air	208-230/60/1	HCC1010AHS	HCC1410AHS
(by others)	RIDE	all	230/50/1	HCE1010AHS	HCE1410AHS
	RIDE	water	208-230/60/1	HCC1010WHS	HCC1410WH
		water	230/50/1	HCE1010WHS	HCE1410WH
		air	208-230/60/1	HCC1010AJS	HCC1410AJS
drop-in dispenser	RIDE	aii	230/50/1	HCE1010AJS	HCE1410AJS
(by others)		water	208-230/60/1	HCC1010WJS	HCC1410WJS
		water	230/50/1	HCE1010WJS	HCE1410WJS
Ice Manager diverter	RIDE	air	208-230/60/1	HCC1010AMS	HCC1410AM
valve system		water	220/60/1	HCC1010WMS	HCC1410WM

<sup>1</sup> Ordered separately.

<sup>2</sup> Not compatible with Micro Chewblet ice.

<sup>3</sup> Requires top kit (see page 4 for item number).

<sup>4</sup> For Micro Chewblet ice, replace second character (C) with an M e.g. HMC1010ABT.

<sup>1</sup> Independent third party studies. Contact Follett for details.

<sup>2</sup> Disclaimer: Antimicrobial protection is limited to the treated components and does not treat water or ice. <sup>3</sup> Refer to price list for additional warranty information.

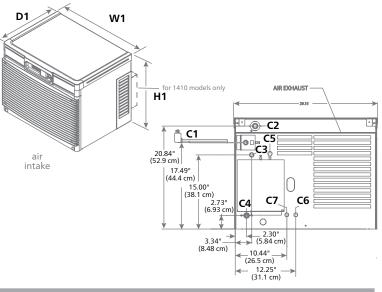


### Accessories

- □ Top kit for ice and beverage dispensers (listed on page 4)
- □ Water filters (refer to form# 9905)
- □ Wall mount bracket (item# 01085455)
- □ Ice machine stand, height-adjustable (item# 01085463)
- □ Timer to control one or two ice machines (item# 00967265)
- $\Box$  Longer ice transport tube, specify length: \_\_\_\_ ft/m in 5'/1.5 m increments (10'/3 m provided as standard for RIDE models) (item# 00174896)
- □ SafeCLEAN Plus<sup>™</sup> ice machine cleaner
  - □ 1 x 8 oz (237 ml) bottle (item# 01147826)
  - □ 6 x 8 oz (237 ml) bottles (item# 01149954)
  - □ Carton of 24 x 8 oz (237 ml) bottles (item# 01149962)

□ SaniSponge<sup>™</sup>, 24 sanitary sponges (item# 01075431)

## Dimensional drawing



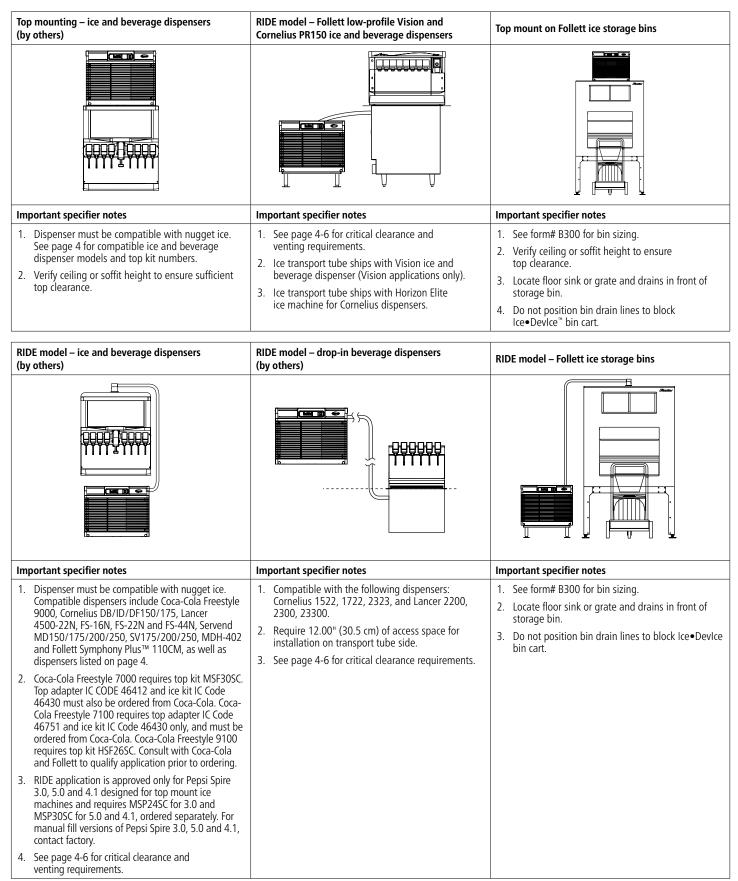
## Specification

	Horizon Elite 1010 series	Horizon Elite 1410 series
<b>W1</b> Width	29.15" (74.0 cm)	29.15" (74.0 cm)
D1 Depth	23.25" (59.1 cm)	25.15" (63.9 cm)
H1 Height	22.50" (57.2 cm)	22.50" (57.2 cm)
Clearance	top, left and right – 1.00" (2.54 cm)	top, left and right – 1.00" (2.54 cm)
Electrical (HCC models) 208-230 V/60/1	<b>C1</b> 11 amps, requires dedicated 15 amp circuit, 6' (1.8 m) cord, NEMA 6-15 plug	C1 14 amps, requires dedicated 20 amp circuit, 6' (1.8 m) cord, NEMA 6-20 plug
Electrical (HCE models) 230 V/50/1	<b>C1</b> 11 amps, requires dedicated 15 amp circuit, 6' (1.8 m) cord only, no plug	<b>C1</b> 14 amps, requires dedicated 20 amp circuit, 6' (1.8 m) cord only, no plug
Operating power	2.4 kW	3.1 kW
C2 Ice transport tube	see page 8 for details	see page 8 for details
C3 Water inlet	3/8" OD push-in water inlet – internal connection	3/8" OD push-in water inlet – internal connection
C4 Drain	3/4" MPT, 1" drain required. See page 7 for details.	3/4" MPT, 1" drain required. See page 7 for details.
C5 Ice bin signal cord	for Vision applications only	for Vision applications only
Water-cooled ice machine connections	C6 – 1/4" FPT condenser inlet C7 – 1/4" FPT condenser outlet	<b>C6</b> – 1/4" FPT condenser inlet <b>C7</b> – 1/4" FPT condenser outlet
Air temperature	50 -100 F (10 - 38 C)	50 -100 F (10 - 38 C)
Water temperature	45 - 90 F (7 - 32 C)	45 - 90 F (7 - 32 C)
Potable water pressure	10 - 70 psi (69 - 483 kPa)	10 - 70 psi (69 - 483 kPa)
Condenser water pressure	30 - 150 psi (207-1034 kPa)	30 - 150 psi (207-1034 kPa)
Ice production	60 Hz models and 50 Hz water-cooled models see page 8 50 Hz air-cooled models at 70 F (21 C) air, 50 F (10 C) water – 865 lb (393 kg) 50 Hz air-cooled models at 90 F (32 C) air, 70 F (21 C) water – 734 lb (333 kg)	60 Hz and 50 Hz models see page 8
Energy consumption 90 F (32 C) air, 70 F (21 C) water	air-cooled models – 4.80 kWh water-cooled models – 4.20 kWh per 100 lb (45.4 kg) ice	air-cooled models – 4.84 kWh water-cooled models – 3.80 kWh per 100 lb (45.4 kg) ice
Heat rejection	air-cooled models – 11,300 BTU/hr (2,849 Kcal/hr) water-cooled models – 12,800 BTU/hr (3,228 Kcal/hr)	air-cooled models – 16,000 BTU/hr (4,035 Kcal/hr) water-cooled models – 16,400 BTU/hr (4,135 Kcal/hr)
Water consumption	12.0 gal (45 L) of potable water per 100 lb (45.4 kg) of ice (per AHRI test standards). 12.4 gal (46.9 L) at low TDS flush setting.	12.0 gal (45 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.
Water flow requirement for water-cooled models	1 gallon per minute	1 gallon per minute
Refrigerant	R404a for 60 Hz models and 50 Hz water-cooled models R449a for 50 Hz air-cooled models	R404a for 60 Hz and 50 Hz models
Approximate ship weight	275 lb (125 kg)	305 lb (138 kg)
Approximate net weight	265 lb (120 kg)	295 lb (134 kg)
NOTE: For indoor use only		Solf contained 1010, 1410 series ice machin

Self-contained 1010, 1410 series ice machine

## 1 – Locating the ice machine

Horizon Elite self-contained 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 4-8).



## 1 – Locating the ice machine (continued)

Top mounting – compatil	ble 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
Concernation of the second	Freestyle 7000	30.10 (76.5)	33.11 (84.1)	47.00 (119.38)	H30F30-F <sup>4,5</sup>
Coca-Cola dispensers	Freestyle 7100	30.00 (76.2)	33.80 (85.8)	47.00 (119.4)	H22F30-F <sup>4,6</sup>
	DB/ED/DF 200 series	30.00 (76.2)	30.00 (76.2)	34.38 (87.3)	Н30С30-F
	DB/ED/DF 250 series	30.00 (76.2)	30.00 (76.2)	38.38 (97.5)	Н30С30-F
Competition discourses	DB/ED/DF 300 series	44.00 (111.8)	30.00 (76.2)	34.00 (86.4)	H30C44-(F or B) <sup>7</sup>
Cornelius dispensers	FlavorFusion / Overload	30.00 (76.2)	30.70 (78.0)	39.38 (100.0)	H30C30-F-FF
	IDC215	30.00 (76.2)	30.70 (78.0)	39.38 (100.0)	H30C30-F-IDC
	IDC255 and Pro Fast Gate	30.00 (76.2)	30.70 (78.0)	36.38 (92.4)	H30C30-F-IDC <sup>8</sup>
	4500-30N	30.00 (76.2)	30.50 (77.5)	36.50 (92.7)	H30L30-F
	FS-30N	30.00 (76.2)	30.50 (77.5)	42.13 (107.0)	H30L30-F
. I.	Bevariety	30.00 (76.2)	31.00 (78.7)	37.75 (95.9)	H22L30-F-STP
Lancer dispensers	Sensation 30"	30.00 (76.2)	31.00 (78.7)	38.25 (97.2)	H30L30-F-STP
	Sensation 44"	44.00 (111.8)	31.00 (78.7)	39.38 (100.0)	H22L44-F-STP
	Touchpoint	32.50 (82.6)	33.70 (85.6)	40.00 (101.6)	H30L30-F-STP
Pepsi dispensers	Spire 5.0 / 4.1	30.50 (77.5)	36.00 (91.4)	42.75 (108.6)	Н30Р30-F
Servend dispensers	MDH-302	42.80 (108.7)	31.00 (78.7)	32.38 (82.2)	H30S44-(F or B) <sup>7</sup>

All approved dispensers can be filled with a RIDE model Horizon Elite ice machine without a top kit except for Coca-Cola Freestyle 7000 and Pepsi Spire 3.0, 5.0 and 4.1, see page 3 for details. <sup>2</sup> Requires minimum 1.00" (2.54 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 46420 must also be ordered from Coca-Cola. <sup>6</sup> Top adapter IC Code 46412 and ice kit IC Code 46420 must also he ordered from Coca-Cola.

<sup>7</sup> Specify "F" for front facing, or "B" for backward facing units. 8 Contact factory regarding IDC Pro.

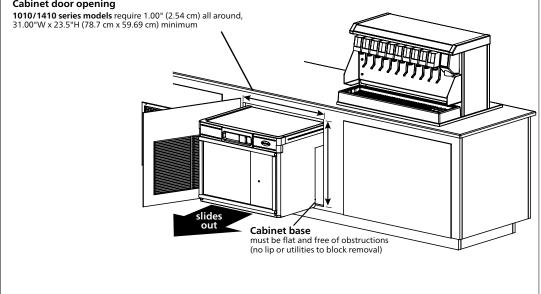
## 2 – Undercounter/in-cabinet mounting

#### **Cabinet details**

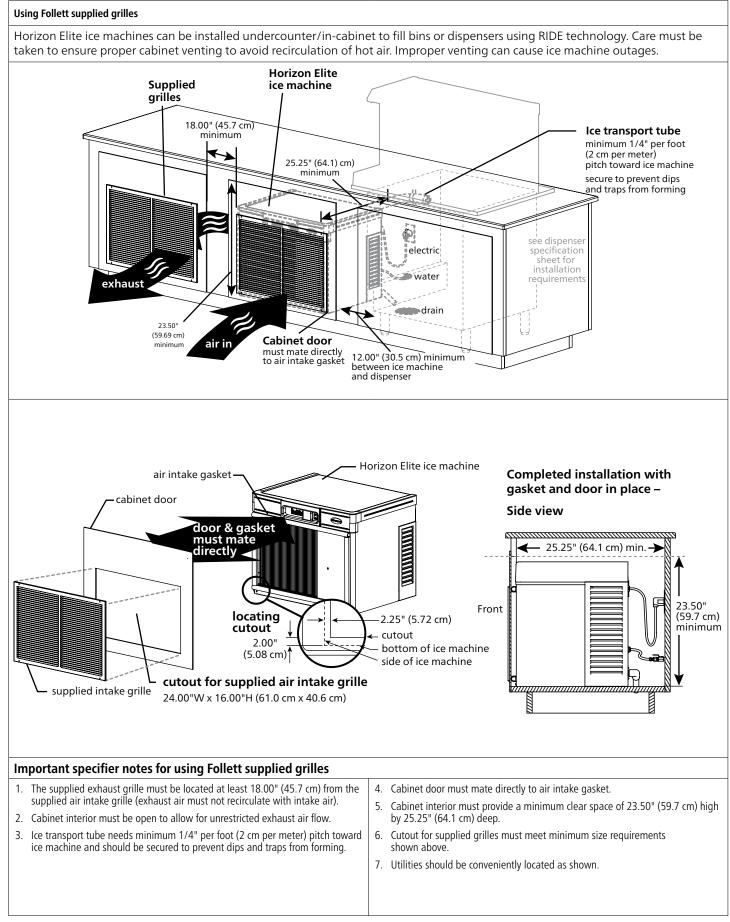
#### Important specifier notes

- 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).
- 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.

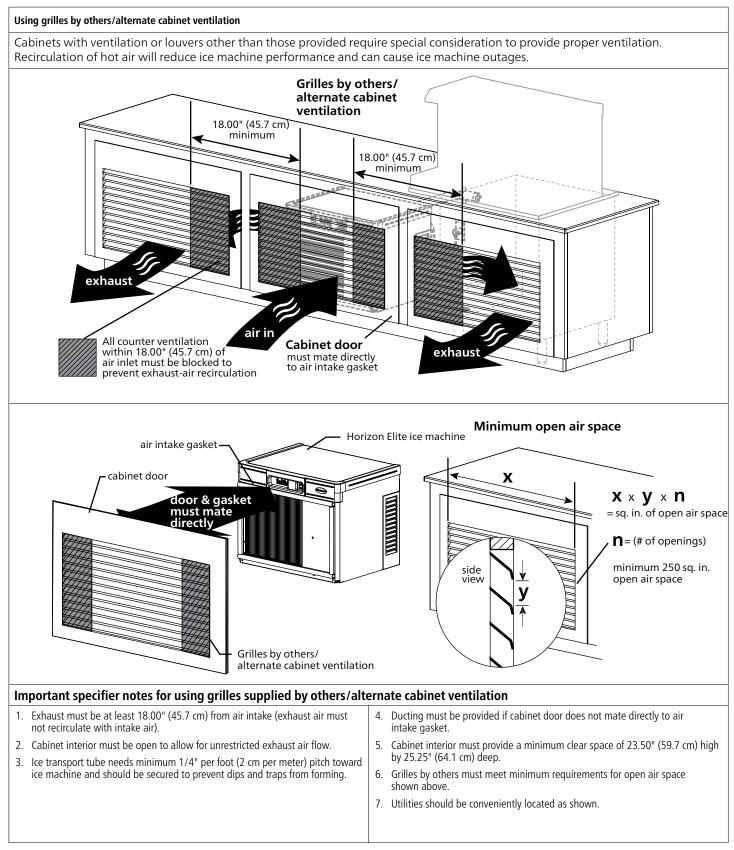
#### **Cabinet door opening**



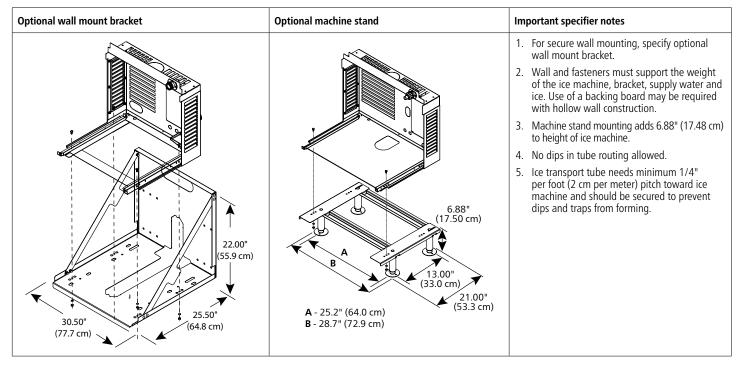
## 3 – Undercounter/in-cabinet mounting and ventilation



## 3 – Undercounter/in-cabinet mounting and ventilation (continued)



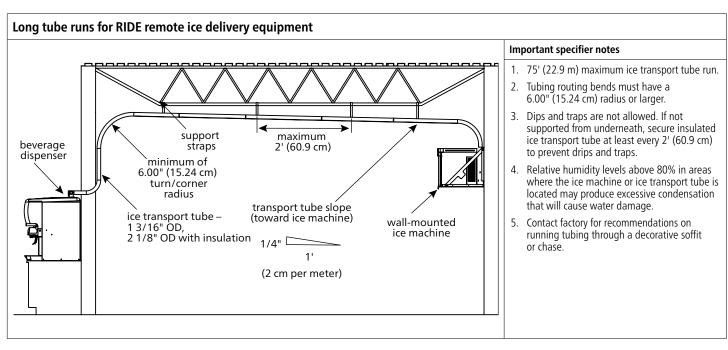
## 4 – Horizon Elite ice machine mounting accessories



## 5 – Horizon Elite drain - specifier guidelines

Flush drain plumbing – For regular machine drainage	Important specifier notes: Where code allows, follow recommendation below.
	1. Connect the silicone tubing to the ice machine 3/4" drain barb <b>①</b> .
Minimum 8" radius	2. Assemble the 3/4" barb x 3/4" FPT to the 3/4" MPT x 1" slip. Connect the other end of the silicone tubing to the 3/4" barb ❷.
2 ft x 1" OD silicone tubing	3. Connect the 1" slip fitting to the 1" stand pipe/drain ③.
3/4" barb x 3/4" FPT	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).
Ø    3/4" MPT x 1" slip      Ø 1" Stand pipe/drain	Note: Stand pipe/drain provided by others. All other components provided with ice machine.
Chassis drain plumbing – To assist with condensate in high humidity areas	Important specifier notes: Where code allows, follow recommendation below.
	1. Plug must be removed from John Guest fitting.
	<ol> <li>Route 3/8" drain tubing through knockout in back of docking station and insert fully into John Guest fitting connection at the rear of the machine chassis. Route other end of 3/8" drain tubing to drain.</li> </ol>
	3. Drain must slope 1/4" inch per foot ( 6 mm per 30.4 cm).

## 6 – Horizon Elite ice tube runs - specifier guidelines



## Ice production – Horizon Elite 1010 series, 60 Hz, air-cooled models

Inlet water	Ambient air temperature F (C)					
F (C)	60 (16)	70 (21)	80 (27)	90 (32)	100 (38)	hr
50 (10)	1160 (526)	1061 (481)	962 (436)	825 (374)	688 (312)	in 24
60 (16)	1093 (496)	1001 (454)	909 (412)	795 (361)	681 (309)	
70 (21)	1026 (465)	941 (427)	857 (389)	765 (347)	674 (306)	production
80 (27)	971 (440)	893 (405)	815 (370)	730 (331)	644 (292)	(kg) pr
90 (32)	917 (416)	941 (427)	773 (350)	694 (315)	614 (279)	y) di

## Ice production – All Horizon Elite 1010 series, water-cooled models

Potable water	Condenser water temperature F (C)					
temperature F (C)	60 (16)	70 (21)	80 (27)	90 (32)	100 (38)	hr
50 (10)	1096 (498)	1043 (473)	1001 (454)	947 (430)	892 (405)	in 24
60 (16)	1006 (457)	970 (440)	938 (426)	888 (403)	839 (381)	
70 (21)	917 (416)	898 (408)	874 (396)	830 (377)	786 (357)	production
80 (27)	874 (397)	826 (375)	826 (375)	787 (357)	749 (340)	(kg) pi
90 (32)	831 (377)	778 (353)	778 (353)	745 (338)	712 (323)	) qı



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### Self-contained 1010, 1410 series ice machine

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## Ice production – All Horizon Elite 1410 series, air-cooled models

Inlet water	Ambient air temperature F (C)					
temperature F (C)	60 (16)	70 (21)	80 (27)	90 (32)	100 (38)	hr
50 (10)	1593 (723)	1466 (665)	1339 (607)	1230 (558)	1121 (508)	in 24
60 (16)	1518 (689)	1396 (633)	1275 (579)	1163 (528)	1052 (478)	tion
70 (21)	1442 (654)	1327 (602)	1211 (549)	1097 (498)	982 (446)	production
80 (27)	1394 (632)	1272 (577)	1150 (522)	1050 (477)	950 (431)	(kg) pi
90 (32)	1345 (610)	1327 (602)	1089 (494)	1004 (456)	918 (417)	l) dl

## Ice production – All Horizon Elite 1410 series, water-cooled models

Potable water	Condenser water temperature F (C)					
temperature F (C)	60 (16)	70 (21)	80 (27)	90 (32)	100 (38)	hr
50 (10)	1436 (652)	1411 (641)	1385 (607)	1370 (622)	1354 (615)	in 24
60 (16)	1417 (643)	1367 (633)	1318 (621)	1307 (593)	1296 (588)	tion
70 (21)	1397 (634)	1324 (602)	1251 (568)	1245 (565)	1238 (562)	production
80 (27)	1318 (598)	1253 (577)	1189 (540)	1170 (531)	1151 (522)	(kg) pi
90 (32)	1238 (562)	1183 (602)	1127 (512)	1096 (497)	1064 (483)	) 9