Horizon Elite[™]



remote 1810, 2110 series Chewblet[®] 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 □ 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 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	Evaporator	Item number ⁶ 1810 series	Item number ⁶ 2110 series		
	top mount	with	115/60/14,5	HCD1810RBT	HCD2110RB		
		without	115/60/1	HCD1810NBT	HCD2110NB		
ice storage bin		with	115/60/14,5	HCD1810RBS	HCD2110RB		
	RIDE	without	115/60/1	HCD1810NBS	HCD2110NB		
Follett Vision [™] undercounter ice and beverage dispenser	RIDE	with	115/60/14,5	HCD1810RVS	HCD2110RV		
		without	115/60/1	HCD1810NVS	HCD2110NV		
Cornelius PR150 undercounter ice and beverage dispenser ²	RIDE	with	115/60/14,5	HCD1810RPS	HCD2110RP		
		without	115/60/1	HCD1810NPS	HCD2110NP		
	top mount ³	with	115/60/14,5	HCD1810RHT	HCD2110RH		
countertop ice and beverage		without	115/60/1	HCD1810NHT	HCD2110NH		
dispenser (by others)	RIDE	with	115/60/14,5	HCD1810RHS	HCD2110RH		
(by others)		without	115/60/1	HCD1810NHS	HCD2110NH		
drop-in dispenser	RIDE	with	115/60/14,5	HCD1810RJS	HCD2110RJ		
(by others)		without	115/60/1	HCD1810NJS	HCD2110NJ		
lce Manager diverter	RIDE	with	115/60/14,5	HCD1810RMS	HCD2110RN		
valve system		without	115/60/1	HCD1810NMS	HCD2110NN		

Ordered separately

² Not compatible with Micro Chewblet ice
³ Requires top kit (see page 5 for part number)

⁴ Condensing unit is 208-230/60/1

⁵ For three phase remote condensing unit, replace third character (D) with an F e.g. HCF1810RBT

⁶ For Micro Chewblet ice, replace second character (C) with an M

e.g. HMD2110RBT

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.

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Features

Horizon Elite

□ 1810 series - up to 1784 lb (810 kg) in 24 hours

- 2110 series up to 2039 lb (925 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
 - 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[™] 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
- three phase models 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 components²
- floatless, sealed design inhibits formation of biofilms
- semi-automatic cleaning and sanitizing system

Warranty

- 3 years parts and labor, 5 years compressor parts³

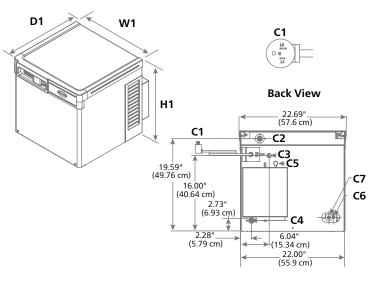
Certifications



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, specify length: ____ ft/m in 5'/1.5 m increments (10'/3 m provided as standard for RIDE models) (item# 00174896)
- □ Insulated 35' (10.7 m) refrigeration lines (item# 00977785) – (not pre-charged) for 1810R and 2110R
- □ SafeCLEAN Plus[™] 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[™], 24 sanitary sponges (item# 01075431)

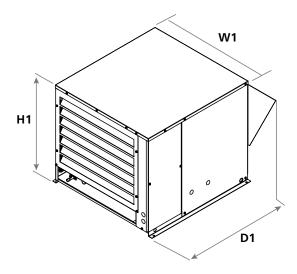
Dimensional drawing



Specification, evaporator unit

specification, evaporator		
	Horizon Elite 1810 series	Horizon Elite 2110 series
W1 Width	22.70" (57.7 cm) Fits on 22.00" wide dispensers	22.70" (57.7 cm) Fits on 22.00" wide dispensers
D1 Depth	23.70" (60.2 cm)	23.70" (60.2 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)
C1 Electrical 115 V/60/1	5 amps, requires dedicated 15 amp circuit, 6' (1.8 m) cord, NEMA 5-15 plug	5 amps, requires dedicated 15 amp circuit, 6' (1.8 m) cord, NEMA 5-15 plug
Operating power	368 W	368 W
C2 Ice transport tube	see page 7 for details	see page 7 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
C6 Liquid line	3/8"	3/8"
C7 Suction line	7/8"	7/8"
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)
Ice production	see ice production chart on page 8	see ice production chart on page 8
Energy consumption 90 F (32 C) air, 70 F (21 C) water	single phase – 4.59 kWh three phase – 3.33 kWh per 100 lb (45.4 kg) ice	single phase – 4.65 kWh three phase – 2.93 kWh per 100 lb (45.4 kg) ice
Water consumption	12.4 gal (47 L) of potable water per 100 lb (45.4 kg) of ice (per AHRI test standards). 13.9 gal (53 L) at low TDS flush setting.	12.4 gal (47 L) of potable water per 100 lb (45.4 kg) of ice (per AHRI test standards). 13.9 gal (53 L) at low TDS flush setting.
Refrigerant	R404a	R404a
BTU/hr (Kcal/hr) at 0 F (-18 C) evaporator, 90 F (32 C) ambient air	15,700 (3,956)	18,200 (4,586)
Rack systems EPR valve set point EPR valve to be supplied by installer	0 F (-18 C)	0 F (-18 C)
Approximate ship weight	170 lb (77 kg)	175 lb (79 kg)
Approximate net weight	160 lb (73 kg)	165 lb (75 kg)
NOTE: For indoor use only. Outdoor in	stallation of evaporator unit is not recommende	d and will void warranty.

Dimensional drawing



Specification, condenser unit

Horizon	Elite	1810	series
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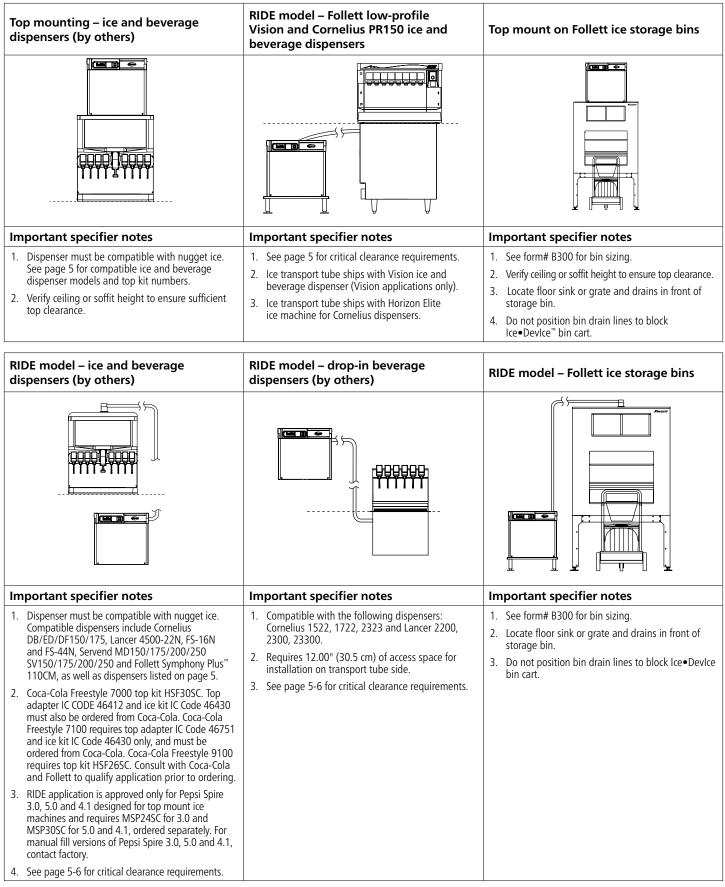
Horizon Elite 2110 series

W1 Width	30.00" (76.2 cm) – all models	30.00" (76.2 cm) – all models
D1 Depth (hail guard included)	38.50" (97.8 cm) – all models	38.50" (97.8 cm) – all models
H1 Height	25.75" (65.4 cm) – all models	25.75" (65.4 cm) – all models
Electrical	single phase – 208-230/60/1 three phase – 208-230/60/3	single phase – 208-230/60/1 three phase – 208-230/60/3
Operating power	single phase – 6.0 kW three phase – 3.6 kW	single phase – 6.2 kW three phase – 4.6 kW
Minimum circuit ampacity	single phase – 26.2 A three phase – 15.7 A	single phase – 27.1 A three phase – 19.9 A
Maximum circuit HVACR breaker size	single phase – 45 A three phase – 25 A	single phase – 45 A three phase – 30 A
Outdoor condensing unit operating limits (air temperature)	min -20 F (-29 C) max 120 F (49 C)	min -20 F (-29 C) max 120 F (49 C)
Maximum refrigerant line run length	75' (22.9 m)	75' (22.9 m)
Maximum line rise above evaporator	35' (10.7 m)	35' (10.7 m)
Evaporator mounting above condenser	15' (4.6 m)	15' (4.6 m)
Maximum refrigeration line drop without oil trap	15' (4.6 m)	15' (4.6 m)
Refrigerant charge	14.5 lb required at installation	14.5 lb required at installation
Approximate ship weight	305 lb (138 kg)	305 lb (138 kg)
Approximate net weight	295 lb (134 kg)	295 lb (134 kg)
NOTE:		

1. 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 5-7).



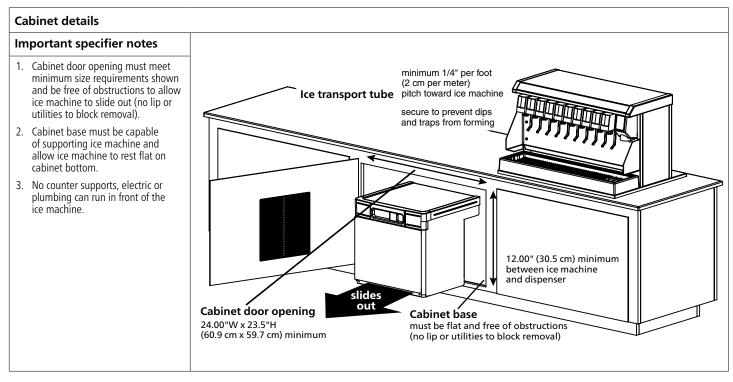
1 – Locating the ice machine (continued)

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)	77.2 (196.2)	H22F26-F ⁴			
DB/ED/DF 200 series	30.00 (76.2)	30.00 (76.2)	34.38 (87.3)	H22C30-F			
DB/ED/DF 250 series	30.00 (76.2)	30.00 (76.2)	38.38 (97.5)	H22C30-F			
DB/ED/DF 300 series	44.00 (111.8)	30.00 (76.2)	34.00 (86.4)	H22C44-(F or B) ⁸			
FlavorFusion/Overload	30.00 (76.2)	30.70 (78.0)	39.38 (100.0)	H22C30-F-FF			
IDC215	30.00 (76.2)	30.70 (78.0)	39.38 (100.0)	H22C30-F-IDC			
IDC255 and Pro Fast Gate	30.00 (76.2)	30.70 (78.0)	36.38 (92.4)	H22C30-F-IDC ⁹			
4500-30N	30.00 (76.2)	30.50 (77.5)	36.50 (92.7)	H22L30-(F or B) ⁸			
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) ⁸			
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) ⁸			
MDH-402	60.00 (152.4)	30.50 (77.5)	32.38 (82.2)	H22S60-(F or B) ^{8,10}			
	Model NumberFreestyle 7000Freestyle 7100Freestyle 9000Freestyle 9100DB/ED/DF 200 seriesDB/ED/DF 250 seriesDB/ED/DF 300 seriesFlavorFusion/OverloadIDC215IDC255 and Pro Fast Gate4500-30NFS-22NFS-30NBevarietySensation 30"Sensation 44"TouchpointSpire 3.0Spire 5.0 / 4.1MDH-302MDH-402	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) IDC255 and Pro Fast Gate 30.00 (76.2) FS-30N 30.00 (76.2) Bevariety 30.00 (76.2) Sensation 30" 30.00 (76.2) Sensation 30" 30.00 (76.2) Spire 3.0 27.00 (68.6) 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) Depth ² 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 200 series 30.00 (76.2) 30.00 (76.2) DB/ED/DF 300 series 44.00 (111.8) 30.00 (76.2) DB/ED/DF 300 series 44.00 (76.2) 30.70 (78.0) IDC215 30.00 (76.2) 30.70 (78.0) IDC255 and Pro Fast Gate 30.00 (76.2) 30.70 (78.0) IDC255 and Pro Fast Gate 30.00 (76.2) 30.50 (77.5) FS-30N 30.00 (76.2) 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 (88.9) Spire 3.0 / 4.	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) 77.2 (196.2) DB/ED/DF 200 series 30.00 (76.2) 30.00 (76.2) 34.38 (87.3) DB/ED/DF 200 series 30.00 (76.2) 30.00 (76.2) 34.00 (86.4) FlavorFusion/Overload 30.00 (76.2) 30.70 (78.0) 39.38 (100.0) IDC215 30.00 (76.2) 30.70 (78.0) 39.38 (100.0) IDC255 and Pro Fast Gate 30.00 (76.2) 30.70 (78.0) 39.38 (100.0) IDC255 and Pro Fast Gate 30.00 (76.2) 30.50 (77.5) 42.13 (107.0) 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) 31.00 (78.7) 32.38 (100.0) Touchpoint			

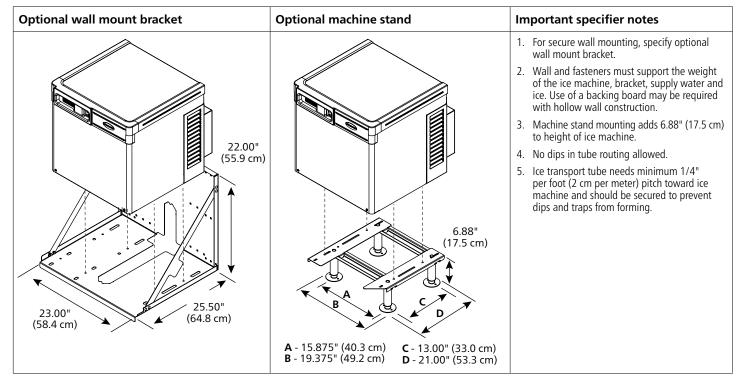
¹ All approved dispensers can be filled with a RIDE model Horizon Elite ice machine without a top kit except for Coca-Cola Freestyle 7000 and Pepsi Spire 3.0, 5.0 and 4.1, see page 4 for details.

All approved dispensers can be filled with a RIDE model Horizon Elite ice machine without a top kit except for Coca-Cola Freestyl 2 Requires minimum 0.50" (1.27 cm) clearance between back of dispenser and wall.
Net height after installation of top kit (excluding height of ice machine).
Consult with Coca-Cola and Follett to qualify application prior to ordering.
Top adapter IC Code 46412 and ice kit IC Code 46430 must also be ordered from Coca-Cola.
Top adapter IC Code 46753 and ice kit IC Code 46430 must also be ordered from Coca-Cola.
Top adapter IC Code 46753 and ice kit IC Code 46430 must also be ordered from Coca-Cola.
Adapter must also be ordered from Coca-Cola. KO IC Code: 46010 (Silver), 46011 (Red) or 46012 (Black).
Specify "F" for front facing, or "B" for backward facing units.
Contact factory regarding IDC Pro.
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



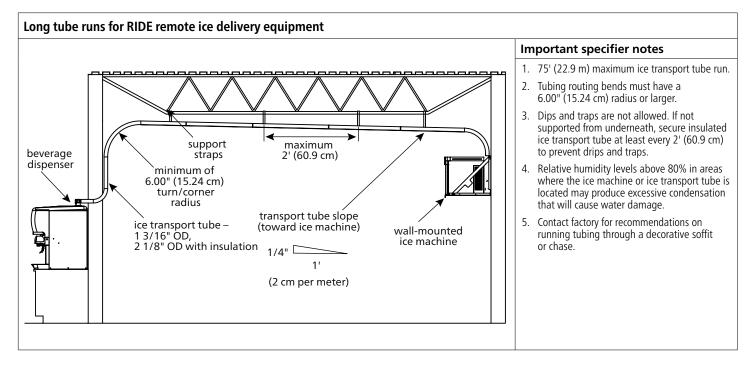
3 – Horizon Elite ice machine mounting accessories



4 – Horizon Elite drain - specifier guidelines

Flush drain plumbing – For regular machine drainage	Important specifier notes: Where code allows, follow recommendation below.		
	 Connect the silicone tubing to the ice machine 3/4" drain barb ①. 		
Minimum 8" radius	 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).		
3/4" MPT x 1" slip	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.		
	 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. 		
	3. Drain must slope 1/4" inch per foot (6 mm per 30.4 cm).		

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. 36.00" (91.4 cm) height clearance 2. The maximum refrigerant line run length is 75' (22.9 m). Installations require 14.5 lb of refrigerant. air in 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). 4. The evaporator can only be mounted a maximum 48.00" of 15' (4.6 m) above the condensing unit. (121.9cm) 24.00" 0 Note: The service loop is not included when (61.0cm) 0 calculating length, rise or drop in the tubing run. exhaust 24.00" (61.0cm) 48.00" (121.9cm)

Note: To connect evaporator/ice machine to rack systems, see page 3.

Ice production – Horizon Elite 1810 series

Inlet water temperature F (C)	Ambient air temperature F (C)						
	60 (16)	70 (21)	80 (27)	90 (32)	100 (38)	hr	
	50 F (10 C)	1859 (844)	1784 (810)	1685 (765)	1616 (734)	1500 (681)	in 24
	60 F (16 C)	1723 (782)	1684 (765)	1578 (716)	1563 (710)	1409 (640)	
	70 F (21 C)	1620 (735)	1594 (724)	1514 (687)	1420 (645)	1319 (599)	production
	80 F (27 C)	1550 (704)	1487 (675)	1485 (674)	1351 (613)	1299 (590)	(kg) pr
	90 F (32 C)	1471 (668)	1435 (651)	1370 (622)	1285 (583)	1207 (548)	lh (k

Ice production – Horizon Elite 2110 series

Inlet water temperature F (C)	Ambient air temperature F (C)						
	60 (16)	70 (21)	80 (27)	90 (32)	100 (38)	hr	
50 F (10 C)	2039 (925)	2039 (925)	1934 (877)	1825 (828)	1703 (772)	in 24	
60 F (16 C)	1943 (881)	1888 (856)	1878 (852)	1710 (776)	1584 (718)		
70 F (21 C)	1833 (831)	1781 (808)	1789 (811)	1634 (741)	1489 (675)	production	
80 F (27 C)	1754 (796)	1686 (765)	1643 (745)	1535 (696)	1426 (647)	(kg) pr	
90 F (32 C)	1650 (748)	1603 (727)	1577 (715)	1457 (661)	1395 (633)	4) qi	





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Remote 1810, 2110 series ice machine

