# Horizon Elite<sup>™</sup>



## remote three phase 1400 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 evaporator with utility docking station, front-mounted unit status display, evaporator water inlet at harvest end with automatic flush while producing ice, and semiautomatic cleaning and sanitizing system, plus all the features listed below and mounting/performance-enhancing accessories checked.

Model configurat	tions			
For use with <sup>1</sup>	Install/mount	Condenser	V/Hz/Ph	Item number 1412 series <sup>2</sup>
ice storage bin	top mount	condensing and evaporator unit	115/60/1	HCF1412RBT
		evaporator unit only <sup>3</sup>	115/60/1	HCF1412KBT
	RIDE	condensing and evaporator unit	115/60/1	HCF1412RBS
		evaporator unit only <sup>3</sup>	115/60/1	HCF1412KBS
Follett Vision <sup>™</sup> undercounter ice and beverage dispenser	RIDE	condensing and evaporator unit	115/60/1	HCF1412RVS
		evaporator unit only <sup>3</sup>	115/60/1	HCF1412KVS
countertop ice and beverage dispenser (by others)	top mount <sup>4</sup>	condensing and evaporator unit	115/60/1	HCF1412RHT
		evaporator unit only <sup>3</sup>	115/60/1	HCF1412KHT
	RIDE	condensing and evaporator unit	115/60/1	HCF1412RHS
		evaporator unit only <sup>3</sup>	115/60/1	HCF1412KHS
drop-in dispenser (by others)	RIDE	condensing and evaporator unit	115/60/1	HCF1412RJS
		evaporator unit only <sup>3</sup>	115/60/1	HCF1412KJS
lce Manager diverter valve system	RIDE	condensing and evaporator unit	115/60/1	HCF1412RMS
		evaporator unit only <sup>3</sup>	115/60/1	HCF1412KMS

<sup>1</sup>Ordered separately.

<sup>2</sup> For Micro Chewblet ice, replace second character (C) with an M, e.g. HMF1412RBT. Not for use with Ice Manager.

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

<sup>4</sup> Requires top kit (see page 5 for part number).

### Features

### Horizon Elite

□ 1412 series - 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 cubes<sup>1</sup>
- 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

### 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>3</sup>

Certifications



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

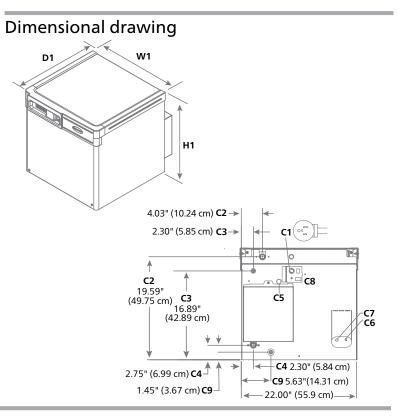
<sup>2</sup> Disclaimer: Antimicrobial protection is limited to the treated components and does not treat water or ice.

<sup>3</sup> Refer to price list for additional warranty information



### Accessories

- □ Top kit for ice and beverage dispensers (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 for models ending in HS and HT (item# 01338276).
- □ Insulated refrigeration lines (not pre-charged) for 1412 □ 35' (11 m) (item# 00977785)
- □ 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)
  - □ 24 x 8 oz (237 ml) bottles (item# 01149962)
- □ SaniSponge<sup>™</sup>, 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

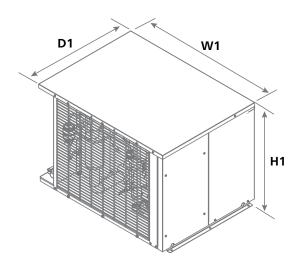


# Specification, evaporator unit

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)
<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
C2 Ice transport tube	see page 7 for details
C3 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
C5 Ice bin signal cord	for Vision applications only
<b>C6</b> 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)
NOTE: For indoor use only. Outdoor installa	tion of low side is not recommended and will void warranty.

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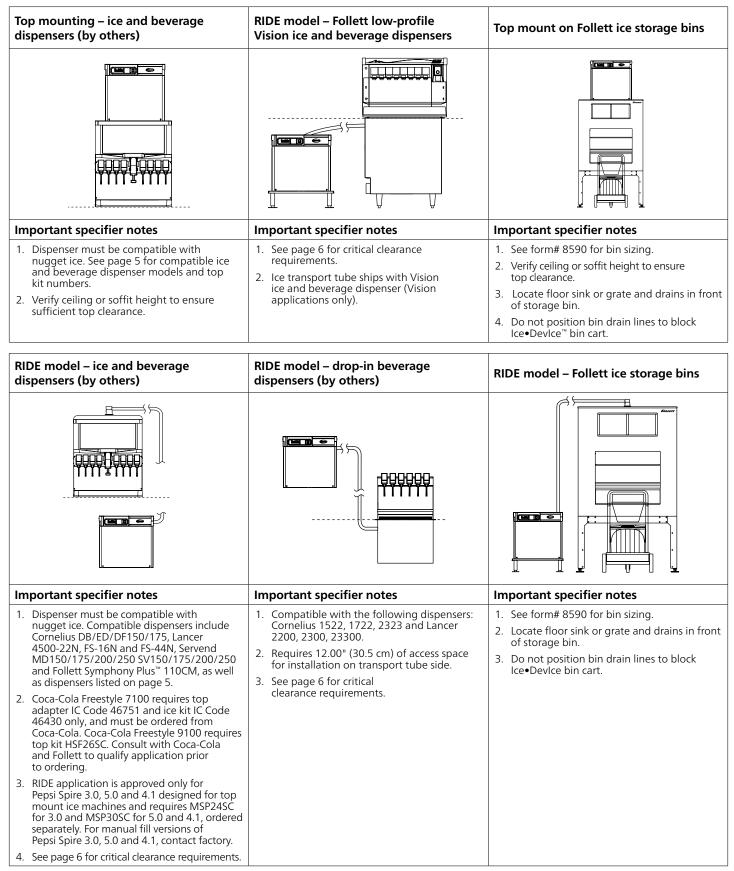
# Dimensional drawing



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

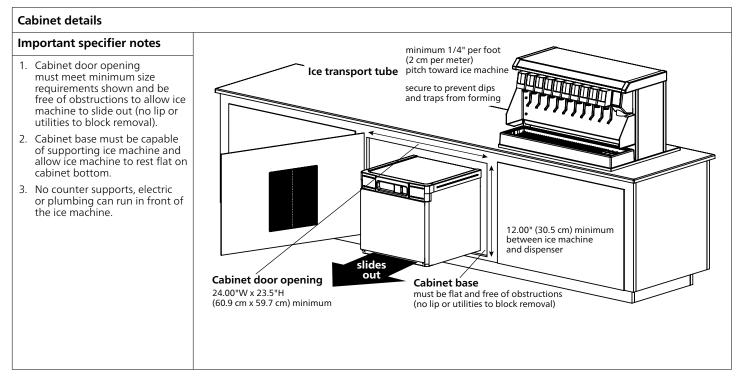
Horizon Elite remote Chewblet ice machines allow top-mounting or mounting in a base cabinet, on a wall or on a floor stand up to 75' (22.9 m) from the dispenser or ice bin with RIDE technology. In-cabinet mounting (RIDE applications) require special attention to service access, unit ventilation and ice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



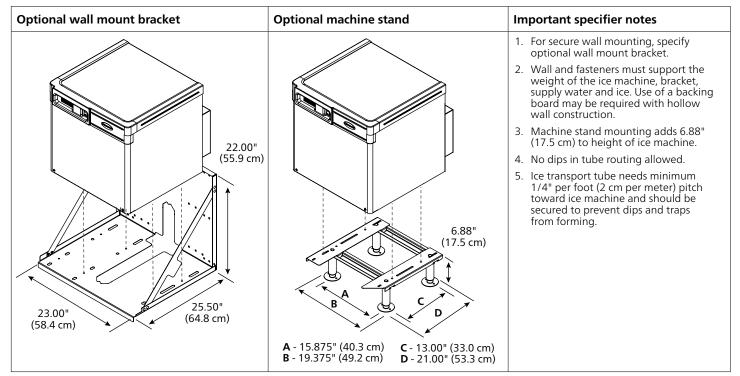
# 1 – Locating the ice machine (continued)

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>
	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>
Cornelius dispensers	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>
	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>
Lancer dispensers	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
Pepsi dispensers	Spire 5.0 / 4.1	30.50 (77.5)	36.00 (91.4)	42.75 (108.6)	H22P30-F
Convend dispensers	MDH-302	42.75 (108.6)	31.00 (78.7)	32.38 (82.2)	H22S44-(F or B) <sup>9</sup>
Servend dispensers	MDH-402	60.00 (152.4)	30.50 (77.5)	32.38 (82.2)	H22S60-(F or B) 9, 11

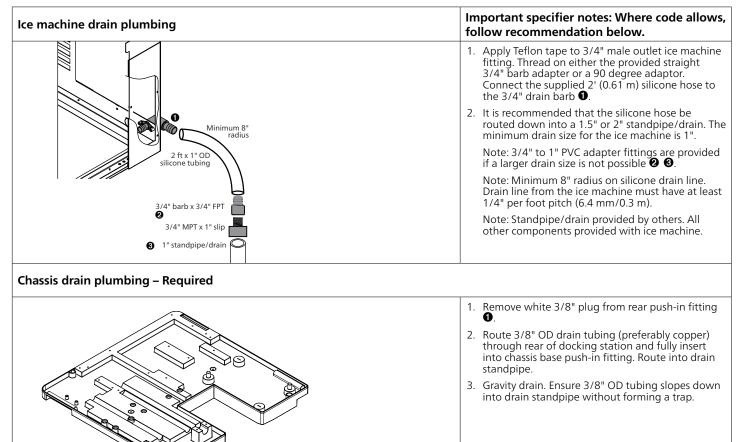
# 2 – Undercounter/in-cabinet mounting



# 3 – Horizon Elite ice machine mounting accessories

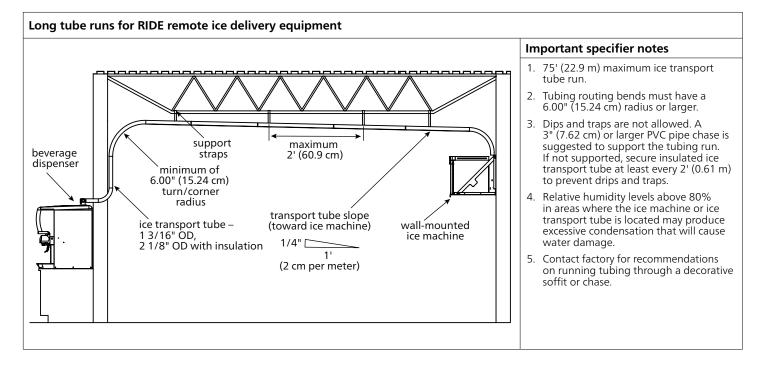


### 4 - Horizon Elite drains - specifier guidelines



# 5 – Horizon Elite ice tube runs - specifier guidelines

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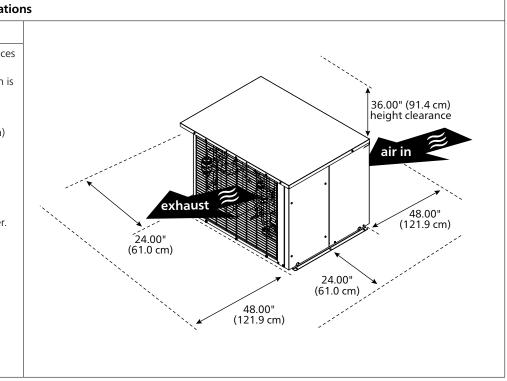


### Remote condensing unit

### **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)	hr
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)	) qi

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Remote 1412 series ice machine

