Horizon Chewblet[®] ice machine

□ 1000 series □ 1400 series or □ 1650 series with remote air-cooled condensing unit

(See model number guide)

Short form specification

Ice machine to be a Follett[®] Horizon Chewblet ice machine

model [Insert size from model number guide]
without remote condensing unit (for connection with rack system) or \Box with remote air-cooled condensing unit, 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 \Box ice storage bin, \Box ice and water dispenser, \Box ice and



7,263,844, 7,469,548,and 7,469,552 HCD1400RBS shown

beverage dispenser, □ drop-in dispenser or □ Ice Manager[™] diverter valve system and provided with a stainless steel frame and exterior, slide-out evaporator unit with utility docking station, front-mounted unit status display, automatic self-flush, and semi-automatic cleaning & sanitizing system, plus all the features listed below and mounting/ performance-enhancing accessories checked:

Horizon performance features

- Produces popular Chewblet nugget ice and 3/8" (9.5 mm) length Micro Chewblet ice (see Ice production tables on page 8):
- □ 1000 series up to 900 pounds (409 kg) in 24 hours or
- □ 1400 series up to 1333 pounds (605 kg) in 24 hours or
- □ 1650 series up to 1580 pounds (717 kg) in 24 hours
- □ Optional RIDE[™] remote ice delivery equipment transports ice through a flexible tube up to 75 ft (22.9 m) from bin/dispenser (10' (3 m) for Micro Chewblet ice)
- Horizontal evaporator maximizes ice production
- Uses less water than cube ice machines
- Rejects less heat than a typical cube ice machine
- Quiet operation without noisy batch harvest cycles •

Unique Chewblet ice advantages

- Consumer-preferred chewable ice for beverages
- More reliable dispensing compared to other nugget or pellet ice
- Higher liquid displacement than cube ice
- Standard Chewblet ice approximately 1" (25.4 mm) length, Micro Chewblet ice approximately 3/8" (9.5 mm) length

Key Horizon design features

- Compact design offers in-cabinet/undercounter, floor stand, wall bracket, on-fountain dispenser, or on-bin mounting
- Standard slide-out docking-station design allows removal of evaporator unit without disconnecting utilities
- Unique auger design reduces loads on gearmotor & bearings
- Easy-to-read LED operating status & diagnostic display
- 10 ft (3 m) flexible ice transport tube and insulation standard with **RIDE** models

Sanitation and safety features

- Aluminum-bronze evaporator has antimicrobial properties
- Automatic self-flushing reduces water scale buildup
- Floatless, sealed design inhibits formation of biofilms
- Semi-automatic cleaning & sanitizing system

Product warranty

- 3 years, parts & labor
- 5 years parts on compressor



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Available accessories

Agency approvals (NSE)

□ Harmony[™] conversion top kit for ice and beverage dispensers

(UL

- □ Water filter kit (Item# 00130286 see form# 9905 for dimensions)
 - ea. extra primary water filter cartridge ea. extra pre-filter cartridge
- □ Wall mount bracket (see accessory form# 3311)
- □ Ice machine stand, height-adjustable (see accessory form# 3311)
- □ Longer ice transport tube, specify length: ft/m in 5 ft/1.5 m increments (10 ft/3 m is standard)
- 35 ft (10.7 m) refrigeration lines (P/N: 00193227 not pre-charged) for 1000R and 1400R
- 35 ft (10.7 m) refrigeration lines (P/N: 00977785 not pre-charged) for 1650R
- Timer to control one or two Horizon ice machines (see accessory form# 3311)

Model number guide

Use/	Condenser	Installation	/mounting
application	Condenser	top mounted	RIDE
	with	HCD1000RBT	HCD1000RBS
	without	HCD1000NBT	HCD1000NBS
with ice	with	HCD1400RBT	HCD1400RBS
storage bins	without	HCD1400NBT	HCD1400NBS
	with	HCD1650RBT	HCD1650RBS
	without	HCD1650NBT	HCD1650NBS
	with		HCD1000RVS
	without]	HCD1000NVS
with Follett Vision™	with]	HCD1400RVS
line dispensers	without]	HCD1400NVS
line dispensers	with	1	HCD1650RVS
	without]	HCD1650NVS
	with	HCD1000RHT*	HCD1000RHS
with ice/	without	HCD1000NHT*	HCD1000NHS
beverage	with	HCD1400RHT*	HCD1400RHS
dispensers	without	HCD1400NHT*	HCD1400NHS
(by others)	with	HCD1650RHT*	HCD1650RHS
	without	HCD1650NHT*	HCD1650NHS
	with		HCD1000RJS
	without]	HCD1000NJS
for drop-In	with		HCD1400RJS
dispensers	without]	HCD1400NJS
	with]	HCD1650RJS
	without	1	HCD1650NJS
	with		HCD1000RMS
with	without]	HCD1000NMS
Ice Manager	with		HCD1400RMS
diverter	without]	HCD1400NMS
valve system	with]	HCD1650RMS
	without		HCD1650NMS
* Requires Harmony	v top kit (see page	3 for part number)	

equires Harmony top kit (see page 3 for part number)

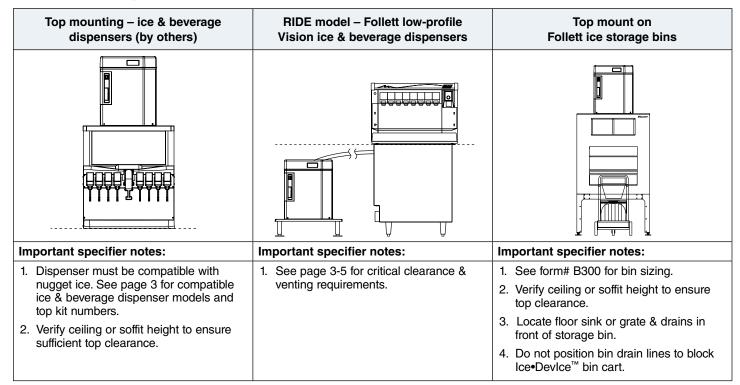
Notes: For Micro Chewblet ice, replace second character (C) with an M e.g. HMC1000ABT

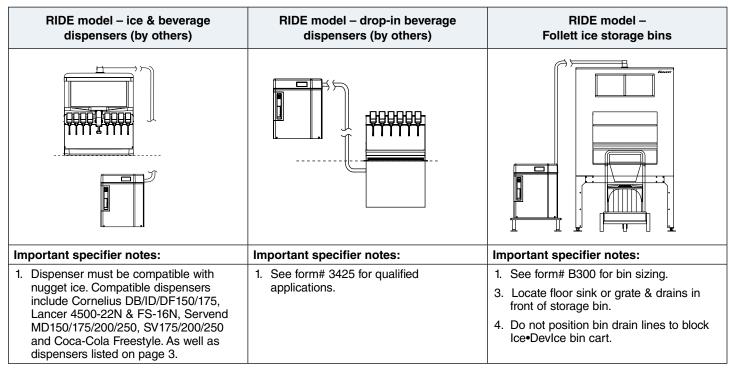
For three phase remote condensing unit, replace 3rd character (D) with F.

□ 1000 series □ 1400 series or □ 1650 series with remote air-cooled condensing unit

Locating the ice machine

Horizon remote condensing unit Chewblet ice machines allow top-mounting or mounting in a base cabinet, on a wall or on a floor stand up to 75 ft (22.9 m) from the dispenser or ice bin with RIDE technology (10' (3 m) for Micro Chewblet ice). Evaporator/ice machine must be mounted within 100 feet (30.5 m) of Follett remote condensing unit. RIDE applications require special attention to service access and **ice tube runs (see page 3-5)**.







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Locating the ice machine (continued)

	Top mounting – compatible ice & beverage dispensers*						
Manufacturer	Model Number	Width in (cm)	Depth in (cm)	Height** in (cm)	Harmony top kit – specify "F" for front facing, or "B" for backward facing units		
	4500-30N / IBD Chewable ice dispenser	30.0 (76)	30.5 (78)	36.50 (93)	HTL30RC-F		
Lancer	FS-22N	22.0 (56)	30.5 (78)	42.13 (107)	HTL22RC-F		
dispensers	FS-30N	30.0 (76)	30.5 (78)	42.13 (107)	HTL30RC- (F or B)		
	FS-44N #	44.0 (119)	30.5 (78)	42.13 (107)	(2) HTL22RC-F		
	DB/ED/DF 200 series	30.0 (76)	30.0 (76)	34.38 (87)	HTC30RC-F		
	DB/ED/DF 250 series	30.0 (76)	30.0 (76)	38.38 (98)	HTC30RC-F		
Cornelius	DB/ED/DF 300 series	44.0 (119)	30.0 (76)	34.00 (86)	HTC44RC- (F or B)		
dispensers	FlavorFusion/Overload	30.0 (76)	30.7 (78)	39.38 (100)	HTC30RC-10F-FF		
	IDC215	30.0 (76)	30.7 (78)	39.38 (100)	HTC30RC-10F-IDC		
	IDC255	30.0 (76)	30.7 (78)	36.38 (92)	HTC30RC-10F-IDC		
Servend	MDH-302	42.8 (109)	31.0 (79)	32.38 (82)	HTS44RC- (F or B)†		
dispensers	MDH-402	60.0 (152)	30.5 (78)	32.38 (82)	HTS60RC- §(F or B)†		

*All approved dispensers can be filled with a RIDE model Horizon ice machine model without a top kit.

§ 60- inch models: Please specify number of Horizon ice machines and location. D = 2; R = 1 on right side; L = 1 on left side
 ** Net height after installation of top kit (excluding height of ice machine).
 # F-44N consists of 2 separate 22" (55.9 cm) dispensers. A top kit is needed for each Horizon ice machine ordered.

Undercounter/in-cabinet mounting 2

Cabinet details Important specifier notes Ice transport tube minimum 1/4" per foot 1. Cabinet door opening (2 cm per meter) must meet minimum size Cabinet door pitch toward ice machine requirements shown and opening secure to prevent dips be free of obstructions to and traps from forming 21"W x 24.5"H allow ice machine to slide (53 cm x 62 cm) out (no lip or utilities to block minimum removal). 2. Cabinet base must be capable of supporting ice machine and allow ice machine to rest flat on cabinet bottom. electric see dispenser 3. No counter supports, electric specification or plumbing can run in front sheet for a water installation of the ice machine. requirements 4. Ice transport tube needs minimum 1/4" per foot (2 cm slides per meter) pitch toward ice 📄 drain out machine and should be secured to prevent dips and Cabinet base traps from forming. See 12" (30 cm) minimum must be flat & free of obstructions between ice machine page 4. (no lip or utilities to block removal) and dispenser

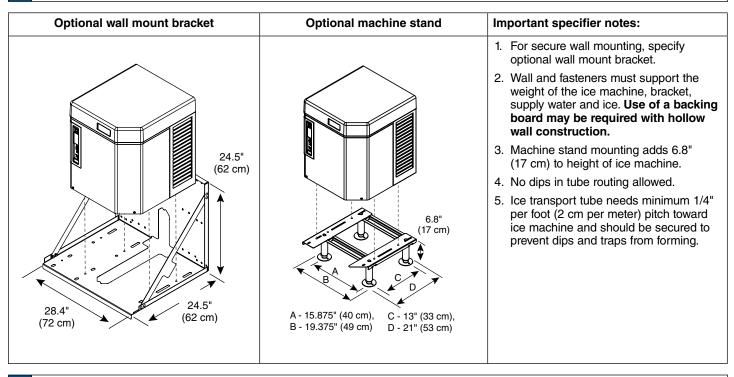


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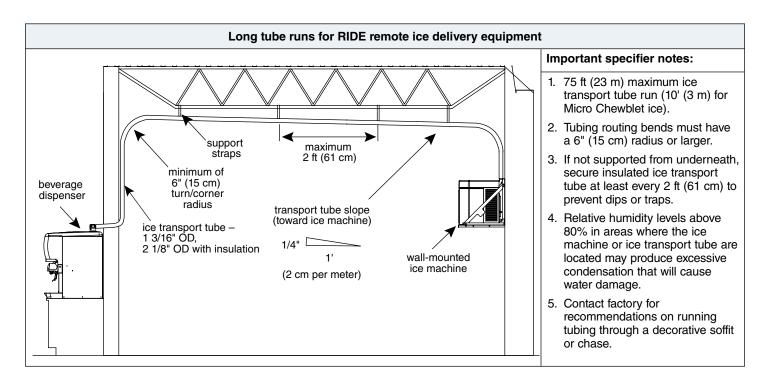
□ 1000 series □ 1400 series or □ 1650 series

with remote air-cooled condensing unit RIDE models - mounting installations/Horizon ice tube runs





Horizon ice tube runs - specifier guidelines



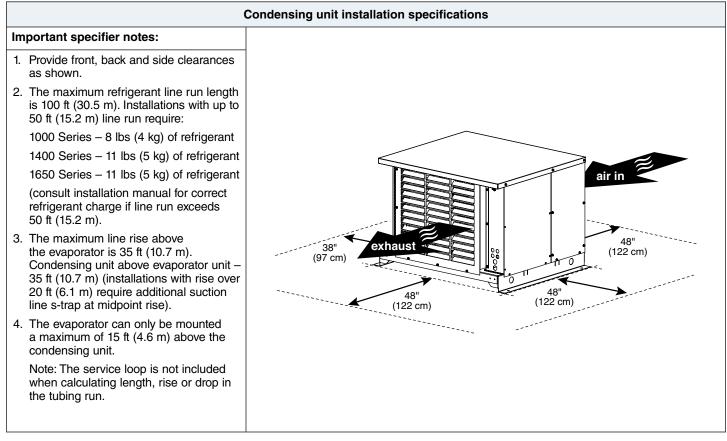


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Undercounter/in-cabinet mounting & ventilation

5 Remote condensing unit



Note: To connect evaporator/ice machine to rack systems, see page 7.



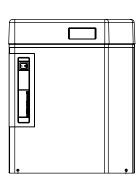
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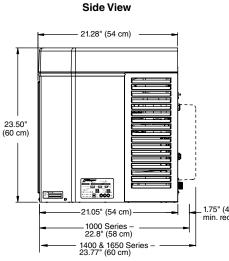
Horizon Chewblet ice machine

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Evaporator utility requirements/unit specifications

Front View





Evaporator utility requirements/unit specifications

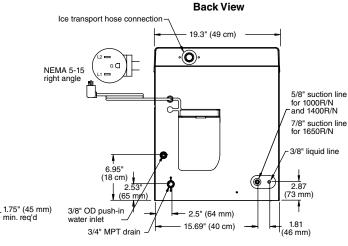
Models	1000	1400/1650
Shipping weight	180 lbs (68 kg)	190 lbs (86 kg)
Standard electrical		
Voltage	115	115
Phase	1-phase	1-phase
Hertz	60 cycles	60 cycles
Amps	6 (max.)	6 (max.)
Circuit	15 Amps	15 Amps
Cord	7 ft (2 m)	7 ft (2 m)
Plug	NEMA 5-15	NEMA 5-15

Evaporator unit operating limits

All models	Minimum	Maximum
Air temperature	50 F (10 C)	100 F (38 C)
Water temperature	45 F (7 C)	90 F (32 C)
Potable water pres- sure	10 psi (69 kpa)	70 psi (483 kpa)

Energy & water consumption*

Models	Phase	1000	1400	1650
Electricity per 100	Single	5.1 kWh	4.8 kWh	4.8 kWh
lbs (46 kg) of Ice	Three	3.9 kWh	3.5 kWh	3.7 kWh
Water per 100 lbs (46 kg) of ice		13.6 gal (52 L)	13.2 gal (50 L)	13.2 gal (50 L)
* 90 F (32 C) air temp 8				



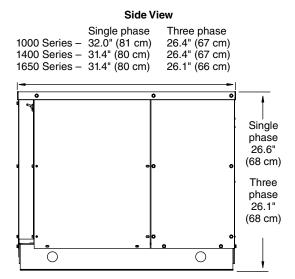
Important specification/installation notes:

- 10 ft (3 m) of ice transport tube and insulation are provided with RIDE models only. Longer tubes available as an accessory, at extra cost.
- 2. In RIDE applications, ice enters through top of ice storage bin or countertop ice and beverage dispenser. For side entry, contact factory.
- 3. Separate ice machine and condensing unit drain lines required for water-cooled models.
- 4. Drains should be hard piped and insulated. Maintain at least a ¹/₄" per foot (2 cm per meter) slope away from ice machine.
- 5. Follett recommends installation of an in-line water filtration system. See available accessories on page 1.



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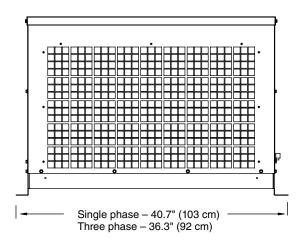
Condensing unit requirements/unit specifications



Condensing unit requirements/unit specifications

Single phase models	HCD1000	HCD1400	HCD1650
Shipping weight	225 lbs (102 kg)	330 lbs (150 kg)	385 lbs (175 kg)
Standard electrica		(100 kg)	(170 kg)
Voltage	208-230	208-230	208-230
Phase	1-phase	1-phase	1-phase
Hertz	60 cycles	60 cycles	60 cycles
Min. Circuit Amp	10.7	20.0	29.9
Maximum circuit HVACR breaker size	15 Amps	30 Amps	50 Amps
Three phase models	HCF1000	HCF1400	HCF1650
	HCF1000 320 lbs (145 kg)	HCF1400 320 lbs (145 kg)	HCF1650 340 lbs (154 kg)
models	320 lbs (145 kg)	320 lbs	340 lbs
models Shipping weight	320 lbs (145 kg)	320 lbs	340 lbs
models Shipping weight Standard electrica	320 lbs (145 kg)	320 lbs (145 kg)	340 lbs (154 kg)
models Shipping weight Standard electrica Voltage	320 lbs (145 kg) 208-230	320 lbs (145 kg) 208-230	340 lbs (154 kg) 208-230
models Shipping weight Standard electrica Voltage Phase	320 lbs (145 kg) 208-230 3-phase	320 lbs (145 kg) 208-230 3-phase	340 lbs (154 kg) 208-230 3-phase





Condensing unit operating limits

All models	Minimum	Maximum
Air temperature	-20 F (29 C)	120 F (49 C)

Condensing unit location/installation limits

All Models	
Maximum refrigerant line run length:	100 ft (30.5 m)
Maximum line rise above evaporator:	35 ft (10.7 m)
Evaporator mounting above condenser:	15 ft (4.6 m)
or maximum refrigeration line drop:	15 ft (4.6 m)

Cooling capacity for ice machines connected to rack systems

Models	HCD1000	HCD1400	HCD1650
BTU/hr (Kcal/hr) at 0 F (-18 C) evaporator, 90 F (32 C) ambient air (1000N, 1400N, 1650N units only)	7,700 (1940)	10,000 (2520)	13,000 (3275)
Rack Systems* EPR Value – set to		0 F (-18 C)	

Condensing unit specification/installation notes:

- 1. 1400 and 1650 model condensing units have a liquid suction line heat exchanger. The entire liquid line should be insulated separately from the suction line.
- 2. Outdoor installation of low side is not recommended and will void warranty.
- * EPR valve to be supplied by installer



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Ice production – 1000 series

Inlet water	Ambient air temperature F (C)					
temperature	60 (16)	70 (21)	80 (27)	90 (32)	100 (38)	
50 F (10 C)	944 (429)	900 (409)	853 (387)	819 (372)	791 (359)	ce bs/kg
60 F (16 C)	887 (493)	866 (393)	837 (380)	800 (363)	756 (343)	
70 F (21 C)	833 (378)	824 (374)	804 (365)	765 (347)	710 (322)	24 hour production
80 F (27 C)	784 (356)	774 (351)	752 (342)	714 (324)	656 (298)	prod
90 F (32 C)	740 (336)	714 (324)	680 (309)	640 (291)	594 (270)	

Ice production – 1400 series

Inlet water	Ambient air temperature F (C)					
temperature	60 (16)	70 (21)	80 (27)	90 (32)	100 (38)	
50 F (10 C)	1354 (614)	1333 (605)	1260 (571)	1243 (564)	1227 (556)	ice Ibs/kg
60 F (16 C)	1293 (586)	1272 (577)	1225 (556)	1208 (548)	1192 (541)	
70 F (21 C)	1229 (557)	1208 (548)	1190 (540)	1172 (532)	1157 (525)	24 hour production
80 F (27 C)	1167 (529)	1146 (520)	1102 (500)	1084 (492)	1069 (485)	2 proc
90 F (32 C)	1107 (502)	1060 (481)	1013 (460)	995 (451)	980 (445)	

Ice production – 1650 series

Inlet water	Ambient air temperature F (C)					
temperature	60 (16)	70 (21)	80 (27)	90 (32)	100 (38)	
50 F (10 C)	1669 (757)	1580 (717)	1479 (671)	1422 (645)	1366 (620)	ice Ibs/kg
60 F (16 C)	1596 (724)	1528 (693)	1451 (658)	1387 (629)	1310 (594)	
70 F (21 C)	1523 (691)	1474 (669)	1424 (646)	1350 (612)	1254 (569)	24 hour production
80 F (27 C)	1440 (653)	1387 (629)	1332 (604)	1267 (575)	1191 (540)	2 prod
90 F (32 C)	1356 (615)	1298 (589)	1240 (562)	1183 (537)	1127 (511)	



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