Horizon Elite™ Ice Machine Installation Instructions for Harmony™ Top-mount Applications

HCD/HMD/HCF/HMF1010RHT, HCD/HMD/HCF/HMF1410RHT, HCD/HMD1010NHT, HCD/HMD1410NHT
(See model number configurator on page 2 for details.)

Horizon top-mount ice machines fit most countertop dispensers manufactured by

Cornelius • Lancer • SerVend
## Chewblet® Ice Machine Model Number Configurations

<table>
<thead>
<tr>
<th>Icemaker</th>
<th>Voltage</th>
<th>Series</th>
<th>Condenser</th>
<th>Application</th>
<th>Configuration</th>
</tr>
</thead>
<tbody>
<tr>
<td>MC Maestro™ Chewblet® (400 Series)</td>
<td>C 208-230/60/1 (icemaking head) Self-contained only.</td>
<td>400 up to 454 lbs (206kg)</td>
<td>A Air-cooled, self-contained</td>
<td>V Vision™</td>
<td>S RIDE™ (RIDE remote ice delivery equipment)</td>
</tr>
<tr>
<td>HC Horizon Chewblet (1000, 1400, 1650 Series)</td>
<td>D 115/60/1 (icemaking head) Self-contained and remote. If remote unit, high side is 208-230/60/1.</td>
<td>1000/1010 up to 1036 lbs (471kg)</td>
<td>W Water-cooled, self-contained</td>
<td>H Harmony™</td>
<td></td>
</tr>
<tr>
<td>HM Horizon Micro Chewblet</td>
<td>E 230/50/1 (icemaking head) Self-contained only.</td>
<td>1400/1410 up to 1450 lbs (658kg)</td>
<td>R Air-cooled, remote condensing unit</td>
<td>B Ice storage bin</td>
<td></td>
</tr>
<tr>
<td></td>
<td>F 115/60/1 (icemaking head) Remote only. High side is 208-230/60/3.</td>
<td>1650 up to 1580 lbs (717kg)</td>
<td>N Air-cooled, no condensing unit for connection to parallel rack system</td>
<td>J Drop-in</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>M Ice Manager diverter valve system</td>
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<td></td>
<td></td>
<td></td>
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<td>T Top-mount</td>
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</tbody>
</table>
Read and complete the following 8 installation steps

1. Unpack
2. Site preparation
3. Dispenser preparation
4. Louvered docking assembly
5. Ice transport tube
6. External connection
7. Internal connection
8. Front cover
Carefully unpack and inspect the contents of your Follett ice machine.

1. Unpack ice machine

1.1 Unpack ice machine

1. Unpack ice machine from pallet.
2. Remove side and pusher covers.
3. Remove rear panel.
4. Remove electrical box and disconnect wiring.
5. Lift machine off pallet.
6. Place machine on floor.

Unpack

Carefully unpack and inspect the contents of your Follett ice machine.
Prepare the installation site.

Provide drainage, water supply and electrical power to within 6 feet (2m) of ice machine in accordance with local and national codes. Outdoor installation of low side is not recommended and will void warranty.

2.1 Installation site requirements

Electrical 1
- 120/60/1-5 amps

Potable water supply 2 (3/8” push-in internal connection, 3/8” OD tubing required)
- 10-70 psi (69-483kpa)
- 45-90 F (7-32 C)
- Follett recommends the use of an in-line water filtration system (item# 00130286)
- This equipment is to be installed with adequate backflow protection to comply with applicable federal, state, and local codes

Drain 3 (3/4” MPT)
- The drain line from the ice machine must have at least 1/4” per foot pitch (6.4 mm/0.3 m)

Refrigeration lines 4
- 5/8” ∅ (15.8 mm) diameter suction line (insulated) 4
- 3/8” ∅ (9.5 mm) liquid line 5
Prepare the dispenser.

**Note:** The instructions below only apply to 22" & 30" wide dispensers. 44" wide dispenser instructions may be found with the top kit.

### 3.1 Top preparation – ALL

- **All models**
  - Remove protective tape from gaskets

### 3.2 Top preparation – ALL

- Apply gaskets
- Install shuttle actuator through bottom of dispenser top and secure with locking nut

### 3.3 Top preparation – ALL

- Screw 4" (102mm) extension into bottom of shuttle actuator

### 3.4 Top preparation – CORNELIUS

- Cornelius models only
  - Remove protective tape
  - Apply gasket
### 3.5 Top preparation – LANCER

**Lancer models only**
- Remove protective tape ①
- Apply gaskets ②

### 3.6 Agitation adjust. – CORNELIUS

**Cornelius models ED, DB, DF, IDC and FLAVOR FUSION**
Adjust the agitation timer located on the Cornelius PC board to 1 second on, 1 hour off. **Note**: See Cornelius manual for more information.

### 3.7 Agitation adjustments – LANCER 4500 SERIES

**Lancer 4500 series only**
Adjust the agitation time to 1 second, and the agitation frequency to 150 minutes. See Lancer manual for more information.

#### Agitator adjustments:

<table>
<thead>
<tr>
<th>SWITCH NUMBER</th>
<th>AGITATION TIME</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>O O X X</td>
</tr>
<tr>
<td>4</td>
<td>O X O X</td>
</tr>
</tbody>
</table>

#### Agitation frequency:

<table>
<thead>
<tr>
<th>SWITCH NUMBER</th>
<th>AGITATION FREQUENCY</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>O O O O O O X X X X X X</td>
</tr>
<tr>
<td>6</td>
<td>O O O O X X X X X X X</td>
</tr>
<tr>
<td>7</td>
<td>O O X X O O X O O X O</td>
</tr>
<tr>
<td>8</td>
<td>O X O X O X O X O X O</td>
</tr>
</tbody>
</table>

X = ON
O = OFF

### 3.8 Agitation adjustments – LANCER Sensation and Touchpoint

No agitation adjustment required
### Lancer FS series only
- Hold down “cancel” and “left button” to get to hidden menu
- Type in code 6655
- Type in 150 minutes of off time and 1010 milliseconds (1 second of time) as the preferred setting

**Note:** See Lancer manual for more information.

### SerVend models only
No agitation adjustment required.
3.11 Dispenser diverter plate overview (Installation on next page)

Single Agitator

P/N 307277 — Diverter plate
(single agitator Cornelius dispensers and left-hand dispense chute on dual-agitator Cornelius dispensers)

Dual Agitator

P/N 307277 — Diverter plate
(single agitator Cornelius dispensers and left-hand dispense chute on dual-agitator Cornelius dispensers)

P/N 00996207 — Diverter plate
(right-hand dispense chute on dual-agitator dispensers)
3.12 Dispenser diverter plate installation – CORNELIUS ED, DF and DB SERIES

Cornelius ED, DF and DB series only
These dispensers require the installation of an ice diverter at the dispenser opening.
- Disassemble chute assembly
- Discard factory restrictor plate
- Replace with alternate diverter plate (supplied)

3.13 Agitation adjustments – Cornelius IDC and Flavor Fusion
These dispensers require modifications for compatibility with Chewblet ice. Agitation times must be set to 1 second ON, 1 hour OFF and the ice restrictor plate must be adjusted to the fully open position. See your beverage supplier for these modifications.
Install the louvered docking assembly.

4.1 Louvered docking assembly

- Mount louvered docking assembly ①
- “Rough-in” the refrigerant piping ②
Install the ice transport tube.

5.1 Ice transport tube

- Slide insulation onto ice transport tube
- Heat end of transport tube in cup of 160°F (71°C) hot water to soften and spread with pliers before making connection to ease assembly
- Connect ice transport tube to coupling on louvered docking station
- Connect ice transport tube to shuttle actuator
Connect utilities to louvered docking assembly.

6 External connections

6.1 Water and drain

- Remove access panel if necessary.
- Install drain line 1.
  The rigid drain line from the ice machine must have at least 1/4" per foot pitch (6,4mm/0,3m).
- Rough-in ice machine potable water supply 2.
  3/8" push-in connection will be made at shut-off valve inside machine.
- Apply Petrogel to barbed drain fitting 3
- Replace access panel.

6.2 Refrigerant lines

- Braze supplied expandable refrigerant lines in place 1
Connect louvered docking assembly to ice machine.

Internal connections

7.1 Ice transport tube installation

- Slide ice machine into louvered docking assembly ensuring that drain tube is fully seated on barbed drain fitting 1
- Insert ice transport tube all the way into coupling and tighten nut firmly 2

7.2 Water line

- Insert potable water line into valve 1

7.3 Refrigeration lines

- Braze refrigerant lines 1

7.4 Power cord

- Remove twist tie
- Carefully pass cord thru opening and plug into wall outlet
7.5 Power cord

- Position plate into opening and secure with supplied screw

7.6 TDS switch

- Set the TDS switch on the electrical box:
  HIGH: for extended service life
  LOW: for low-scale water

NOTICE

Ice machine MUST be sanitized prior to operation!
Consult Operation and Service Manual provided with ice machine for sanitizing instructions.
8.1 Install condensing unit

- Complete installation of condensing unit or connection to rack system.
- Required rack system capacity at 0 F (-18 C) evaporator (EPR supplied by installer).
  1010N: 7,700 Btu/hr (1940 kcal/hr)
  1410N: 10,000 Btu/hr (2519 kcal/hr)

8.2 Install ice machine front cover

- Slide ice machine cover over machine ensuring that tabs on back of cover slip under louvers on back of louvered docking assembly 1
- Insert and tighten two screws through cover and into louvered docking assembly 2