Horizon Elite™ Ice Machine Models with RIDE® Technology
Installation Instructions for Harmony™ or
110CM Symphony™ Plus Applications

For applications using 110CM Symphony Plus and most countertop dispensers manufactured by
Cornelius • Lancer • SerVend

HCD/HMD/HCF/HMF1810RHS, HCD/HMD/HCF/HMF2110RHS,
HCD/HMD1810NHS, HCD/HMD2110NHS
(See model number configurator on page 2 for details.)

Order parts online
www.follettice.com
## 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><strong>HC</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MC Maestro™</td>
<td>208-230/60/1 (icemaking head)</td>
<td>Self-contained only.</td>
<td>A</td>
<td>Air-cooled, self-contained</td>
<td></td>
</tr>
<tr>
<td>Horizon Chewblet (425 Series)</td>
<td>D 115/60/1 (icemaking head)</td>
<td>Self-contained and remote. If remote unit, high side is 208-230/60/1.</td>
<td>W</td>
<td>Water-cooled, self-contained</td>
<td></td>
</tr>
<tr>
<td>Horizon Chewblet (710, 1010, 1410, 1810, 2110 Series)</td>
<td>E 230/50/1 (icemaking head)</td>
<td>Self-contained only.</td>
<td>R</td>
<td>Air-cooled, remote condensing unit</td>
<td></td>
</tr>
<tr>
<td>Horizon Micro Chewblet</td>
<td>F 115/60/1 (icemaking head)</td>
<td>Remote only. High side is 208-230/60/3.</td>
<td>N</td>
<td>Air-cooled, no condensing unit for connection to parallel rack system</td>
<td></td>
</tr>
<tr>
<td><strong>D</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>425 up to 425 lbs (193 kg)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>710 up to 675 lbs (306 kg)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1010 up to 1061 lbs (482 kg)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1410 up to 1466 lbs (665 kg)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1810 up to 1790 lbs (812 kg)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2110 up to 2039 lbs (925 kg)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>1810</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A</td>
<td>Vision™</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>H</td>
<td>Harmony™</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>Ice storage bin</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>J</td>
<td>Drop-in</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M</td>
<td>Ice Manager diverter valve system</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>P</td>
<td>Cornelius Profile PR150</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>S</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RIDE™ (RIDE remote ice delivery equipment)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>T</td>
<td>Top-mount</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### CAUTION!

- This appliance should be connected by a qualified person in accordance with applicable codes.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- Connect to potable water supply only.
- This appliance can be used by children aged 8 years and above and persons with reduced physical, sensory, or mental capabilities, or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children should be supervised to ensure that they do not play with the appliance.
- This appliance is intended to be used for household and similar applications such as staff kitchen areas in shops, offices and other working environments; farm houses and by clients in hotels, motels and other residential type environments; bed and breakfast type environments; catering and similar non-retail applications.
- **WARNING!** To avoid a hazard due to instability of the appliance, it must be fixed in accordance with the instructions.
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.

1.1 Unpack carton #1

Unpack carton #1

1. DO NOT TILT ICE MACHINE TO ACCESS BOLTS! COMPRESSOR DAMAGE WILL RESULT

2. 7/16”

3. 7/16”

4. DO NOT TILT ICE MACHINE TO ACCESS BOLTS! COMPRESSOR DAMAGE WILL RESULT

5. 7/16”

6. 7/16”

7.
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
- 1810(R/N)HS 120/60/1-5 amps
- 2110(R/N)HS 120/60/1-5 amps

Potable water supply (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 (3/4" Barb)
- Minimum 8" radius on silicone drain line. Drain line from the ice machine must have at least 1/4" per foot pitch (6,4mm/0,3m).

Refrigeration lines and
- 7/8" Ø (22,4 mm) diameter suction line (insulated)
- 3/8" Ø (9,5 mm) liquid line
Attention! The location of the hole in the dispenser top is dependent on the type of dispenser. Be sure to follow Step 3.1 for the appropriate dispenser.

3.1 Hole location - Harmony (Lancer, Cornelius or Servend), or 110CM Symphony Plus

Prepare the dispenser.

Locate hole position 5" (127 mm) from back and right of dispenser top

Locate hole position 10" (254 mm) from back and 9" (229 mm) from right of dispenser top

Locate hole position 5" (127 mm) from back of dispenser top

Locate hole position 5" (127 mm) from back and right of dispenser top
3.2 Top preparation

- Remove protective tape from gaskets

3.3 Top preparation

- Apply gaskets 1
- Install shuttle actuator 2 through dispenser top and secure with locking nut 3

3.4 Top preparation

- Screw 4" (102 mm) extension 1 into bottom of shuttle actuator 2

3.5 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.
### 3.6 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.

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

<table>
<thead>
<tr>
<th>SWITCH NUMBER</th>
<th>AGITATION FREQUENCY</th>
</tr>
</thead>
</table>
|               | X = ON
| 5             | O O O O O O O X X X X X X X X X X |
| 6             | O O O X X X X X O O O X X X X X X X |
| 7             | O X X O O X O X O X O X X X X X X |
| 8             | O X O X O X O X O X O X X X X X X |

3.6.1 Agitation adjustments – LANCER Sensation and Touchpoint

No agitation adjustment required
3.8 Agitation adjustments – LANCER FS SERIES

Lancer FS series only
- Hold down “cancel” and “left button” to get to hidden menu ➊
- Type in code 6655
- Type in 150 minutes “off time” and 1810 milliseconds (1 second of time) as the preferred setting

Note: See Lancer manual for more information

3.9 Agitation adjustments – SERVEND

SerVend models only
No agitation adjustment required
3.10 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)
3.11 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)

3.12 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.

BEFORE PROCEEDING
Prior to installing the louvered docking assembly, ensure that the drain fitting is oriented (right or left) correctly for your installation. An optional straight drain fitting is also supplied. You may need to remove the back panel of the docking assembly in order to re-orient or change the drain fitting. Replace back panel prior to mounting the docking assembly.

Wall bracket accessory
- Mount louvered docking assembly to wall bracket accessory

Machine stand accessory
- Mount louvered docking assembly to machine stand accessory

4.1 Louvered docking assembly
- Mount louvered docking assembly
- “Rough-in” the refrigerant piping
4.2 Undercounter installation requirements

DOCKING STATION

- Prior to installing the louvered docking assembly, ensure that the drain fitting is oriented (right or left) correctly for your installation. An optional straight drain fitting is also supplied. You may need to remove the back panel of the docking assembly in order to re-orient or change the drain fitting. Replace back panel prior to mounting the docking assembly.

- Position and screw louvered docking assembly to the bottom of counter inside of access panel/door min. of 3.25” (83 mm) from the front edge of the cross brace ➊

- The mounting surface for the louvered docking assembly must be solid. Do not mount directly onto runners or channels.

- There must be no lip or edge that would hinder the ice machine from sliding in or out of the louvered docking station ➋

- Ice machine must be installed facing forward as shown for service accessibility ➌
Install the transport tube.

**5.1 Transport tube installation.**

**Ice transport tube tips**
- Insulate entire length of ice transport tube ⃣
- Secure ice transport tube ⃣ as needed to prevent dips and traps from forming. For long tube runs see guide on page 19.
- Pitch ice transport tube at least 1/4" per foot (6.4mm/.3m) ⃣
- Ice transport tube must drain towards ice machine

**Ice transport tube to dispenser**
- Be sure tube ends are square ⃣
- 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
- Push ice transport tube onto shuttle actuator nipple ⃣
- Install hose clamp ⃣

**Ice transport tube to ice machine**
- Be sure tube ends are square ⃣
- 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
- Push transport tube onto ice machine nipple ⃣
- Install hose clamp ⃣
Connect utilities to louvered docking assembly.

External connections

6.1 Water and drain

- Rough-in ice machine potable water supply ➊.
- 3/8” push-in connection will be made at shut-off valve inside machine
- Remove access panel if necessary ➋.
- Connect the silicone tubing to the ice machine 3/4” drain barb ➌.
- 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 ➍.
- Connect the 1” slip fitting to the 1” stand pipe/drain ➎.

Note: Minimum 8” radius on silicone drain line. Drain line from the ice machine must have at least 1/4” per foot pitch (6,4mm/0,3m).
- Apply Petrol-gel to barbed drain fitting ➏
- Replace access panel.

6.2 Refrigerant

- Braze supplied quick-connect lines onto stub-ins ➊.
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
- Insert ice transport tube all the way into coupling and tighten nut firmly

7.2 Water line
- Insert potable water line into valve

7.3 Refrigeration lines
- Evacuate line set.
- Connect self-sealing liquid and suction line fittings

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
Install front cover to ice machine.

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).
  - 1810N: 15,700 Btu/hr (3956 kcal/hr)
  - 2110N: 18,200 Btu/hr (4586 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
- Insert and tighten two screws through cover and into louvered docking assembly

NOTICE
Ice machine MUST be sanitized prior to operation!
Consult Operation and Service Manual provided with ice machine for sanitizing instructions.
- Pitch ice transport tube to allow melt water to drain towards ice machine ①
- Secure insulated ice transport tube at least every 2 ft (.6m) to prevent dips or traps ②