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

HCD/HMD700RHS
HCD/HMD700NHS
(See model number configurator on page 2 for details.)

For applications using 110CM Symphony Plus and most countertop dispensers manufactured by Cornelius • Lancer • SerVend
### Chewblet® Ice Machine Model Number Configurations

<table>
<thead>
<tr>
<th>Machine</th>
<th>Voltage</th>
<th>Series</th>
<th>Condenser</th>
<th>Application</th>
<th>Configuration</th>
</tr>
</thead>
<tbody>
<tr>
<td>MC Maestro™</td>
<td>C 208-230/60/1</td>
<td>400 up to</td>
<td>Air-cooled, self-contained</td>
<td>V Vision™</td>
<td>S RIDE®</td>
</tr>
<tr>
<td>HC Horizont</td>
<td>D 115/60/1</td>
<td>700 up to 454 lbs</td>
<td>Water-cooled, self-contained</td>
<td>H Harmony™</td>
<td>(RIDE remote ice delivery equipment)</td>
</tr>
<tr>
<td>HM Micro</td>
<td>E 230/50/1</td>
<td>1000 up to 750 lbs</td>
<td>Air-cooled, remote condensing unit</td>
<td>R</td>
<td>T Top-mount</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1400 up to 1036 lbs</td>
<td>N Air-cooled, no condensing unit for connection to parallel rack system</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1650 up to 1580 lbs</td>
<td>(471kg)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(658kg)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(717kg)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **C**: Air-cooled, self-contained
- **W**: Water-cooled, self-contained
- **R**: Air-cooled, remote condensing unit
- **N**: Air-cooled, no condensing unit for connection to parallel rack system
- **V**: Vision™
- **H**: Harmony™
- **B**: Ice storage bin
- **J**: Drop-in
- **M**: Ice Manager™ diverter valve system
- **A**: Drop-in
- **S**: RIDE®
- **T**: Top-mount

Note: Self-contained only.

**Remote HARMONY and Symphony Plus • RIDE Technology**
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 ice machine

1. Unpack ice machine

2. Remove packing materials and components

3. Remove securing straps and braces

4. Remove top panel

5. Remove side panels

6. Lift and remove ice machine from pallet

Unpack 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
- 120/60/1-6 amps

Potable water supply 2
- 10-70 psi (69-483kpa)
- 45-90 F (7-32 C)
- Water supply must be treated by a scale-inhibiting filter (item# 00130286)

Drain 3
- The drain line from the ice machine must be vented and have at least 1/4" per foot pitch (6,4mm/0,3m)

Refrigeration lines 4
- 5/8" (15,8mm) diameter suction (insulated) 4
- 3/8" (9,5mm) liquid 5
Prepare the dispenser.

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

- **Lancer Sensation and Touchpoint**
  - Locate hole position 9" (254 mm) from back and 9" (229 mm) from right of dispenser top

- **Standard (Cornelius, Lancer, or Servend)**
  - Locate hole position 5" (127 mm) from back of dispenser top

- **110CM Symphony Plus**
  - 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 ➊
- Install shuttle actuator ➋ through dispenser top and secure with locking nut ➌
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.
### Agitation adjustments – LANCER FS SERIES

#### Initialization Screen
(Boot Up Only)

<table>
<thead>
<tr>
<th>Main Menu</th>
<th>Sub-Catagory</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS-16 Setup</td>
<td>Brands Per Side</td>
</tr>
<tr>
<td>Major/Minor</td>
<td>V:1 L:2 R:1</td>
</tr>
<tr>
<td>FS-16 Setup</td>
<td>Bonus Key Setup</td>
</tr>
<tr>
<td>Config Bonus Key</td>
<td>V:1 T:F M:S B:W</td>
</tr>
<tr>
<td>FS-16 Setup</td>
<td>Soda/Plain Water</td>
</tr>
<tr>
<td>Soda/Plain Water</td>
<td>V:2 1:S 2:W 3:S 4:W</td>
</tr>
<tr>
<td>FS-16 Setup</td>
<td>Dispense Delay</td>
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<tr>
<td>Config Dispense Only</td>
<td>V:1 B1 DL Y1</td>
</tr>
<tr>
<td>FS-16 Setup</td>
<td>Set PC Mode Menu</td>
</tr>
<tr>
<td>PC Mode</td>
<td>Off On</td>
</tr>
<tr>
<td>FS-16 Setup</td>
<td>On Time (MSEC)</td>
</tr>
<tr>
<td>PC Time</td>
<td>05000</td>
</tr>
<tr>
<td>FS-16 Setup</td>
<td>OFF Time (MIN)</td>
</tr>
<tr>
<td>Ice Stir Off</td>
<td>00150</td>
</tr>
<tr>
<td>FS-16 Setup</td>
<td>On Time (MSEC)</td>
</tr>
<tr>
<td>Ice Stir On</td>
<td>01000</td>
</tr>
<tr>
<td>FS-16 Setup</td>
<td>Selection Sold Out</td>
</tr>
<tr>
<td>Sold Out</td>
<td>Sold Out #1</td>
</tr>
<tr>
<td>FS-16 Setup</td>
<td>Upper Lower</td>
</tr>
<tr>
<td>Carb Sensors</td>
<td>1000 500</td>
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<tr>
<td>FS-16 Setup</td>
<td>Ice Bin Optic</td>
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<tr>
<td>Ice Bin Sensors</td>
<td>1000</td>
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<tr>
<td>FS-16 Setup</td>
<td>Valve Code Version</td>
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<td></td>
<td>12 0.104 0.104</td>
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<tr>
<td>FS-16 Setup</td>
<td>Number Of Valves</td>
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<tr>
<td></td>
<td>34 0.104 0.104</td>
</tr>
<tr>
<td>FS-16 Setup</td>
<td>1 2 3 4</td>
</tr>
<tr>
<td>Reset Defaults</td>
<td>On On On On</td>
</tr>
<tr>
<td></td>
<td>Reload Defaults?</td>
</tr>
<tr>
<td></td>
<td>No Yes</td>
</tr>
</tbody>
</table>

#### Lancer FS series only
- Hold down “cancel” and “left button” to get to hidden menu 1
- Type in code 6655
- Type in 150 minutes “off time” and 1000 milliseconds (1 second of time) as the preferred setting

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

### Agitation adjustments – SERVEND

#### Servend models only
No agitation adjustment required
3.9 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)
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)
4. Install the louvered docking assembly.

4.1 Louvered docking assembly

- Mount louvered docking assembly to wall bracket accessory
- Mount louvered docking assembly to machine stand accessory

- Mount louvered docking assembly
- "Rough-in" the refrigerant piping

Dimensions:
- 1 13/16" (46mm)
- 2 7/8" (73mm)
- 1" (25.4mm)
- 3/8" high pressure line
- 5/8" low pressure line
- 2" (50.8mm)
DOCKING STATION

- Position and screw louvered docking assembly to the bottom of counter inside of access panel/door min. of 3.25" (82.55 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.
- Icemaker 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 1
• Secure ice transport tube 2 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) 3
• Ice transport tube must drain towards ice machine

Ice transport tube to dispenser
• Be sure tube ends are square 4
• Heat end of transport tube in cup of 160 F (71 C) hot water to soften and spread with pliers 5 before making connection to ease assembly
• Push ice transport tube onto shuttle actuator nipple 6
• Install hose clamp 7

Ice transport tube to Ice machine
• Be sure tube ends are square 8
• Heat end of transport tube in cup of 160 F (71 C) hot water to soften and spread with pliers 5 before making connection to ease assembly
• Push transport tube onto ice machine nipple 9
• Install hose clamp 10
Connect utilities to louvered docking assembly.

6.1 Water and drain

- Remove access panel if necessary.
- Install drain line ①. The rigid drain line from the ice machine must be vented and have at least 1/4" per foot (6.4mm/0.3m) pitch.
- Install icemaker potable water supply ②. (Water supply must be treated by a scale-inhibiting filter (item# 00130286)
- Replace access panel

6.2 Refrigerant

- 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
- Insert ice transport tube all the way into coupling and tighten nut firmly

### 7.2 Water and drain lines
- Insert potable water line into valve

### 7.3 Refrigeration lines
- Braze refrigerant lines

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

- Position plate into opening and secure with supplied screw
Install front cover to ice machine.

8.1 Install condensing unit

- Complete installation of condensing unit or connection to rack system.

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 ➊, then tighten two screws through cover.

NOTICE

- Ice machine MUST be sanitized prior to operation!
- Consult Operation and Service Manual provided with ice machine for sanitizing instructions.
- To prevent circuit breaker overload, wait 15 minutes before restarting this unit. This allows the compressor to equalize and the evaporator to thaw.
Long tube run recommendations

- 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
- Maximum length of transport tube is 75' (22.5 m).
- Maximum rise is 20' (7.5 m).
- Maximum length of transport tube for Micro Chewblet applications is 10' (3 m).