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

HCD/HMD/HCF/HMF1810RHT, HCD/HMD/HCF/HMF2110RHT, HCD/HMD1810NHT, HCD/HMD2110NHT
(See model number configurator on page 2 for details.)

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

Cornelius • Lancer • SerVend
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. Unpack ice machine

1.1 Unpack ice machine

1. Unpack ice machine box.

2. Remove top cover.

3. Remove side covers.

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

5. Remove front panel.

6. Remove ice chute.

7. Place ice machine on floor.
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**
- 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**
- 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**
- 7/8" Ø (22.4 mm) diameter suction line (insulated)
- 3/8" Ø (9.5 mm) liquid line
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.

3.8 Agitation adjustments – LANCER Sensation and Touchpoint

- No agitation adjustment required
**3.9 Agitation adjustments – LANCER FS SERIES**

**Initialization Screen**
(Boot Up Only)

- **Main Menu**
  - FS-16 Setup
    - Major/Minor
    - FS-16 Setup
      - Config Bonus Key
    - FS-16 Setup
      - Soda/Plain Water
    - FS-16 Setup
      - Config Dispense Only
    - FS-16 Setup
      - PC Mode
    - FS-16 Setup
      - PC Time
    - FS-16 Setup
      - Ice Stir Off
    - FS-16 Setup
      - Ice Stir On
    - FS-16 Setup
      - Sold Out
    - FS-16 Setup
      - Carb Sensors
    - FS-16 Setup
      - Ice Bin Sensors
    - FS-16 Setup
      - Valve Code Version
    - FS-16 Setup
      - Number Of Valves
    - FS-16 Setup
      - Reset Defaults
  - **Sub-Catagory**
    - Brands Per Side
      - V:1 L:2 R:1
    - Bonus Key Setup
      - V:1 T:F M:S B:W
    - Soda/Plain Water
      - V:2 1:S 2:W 3:S 4:W
    - Dispense Delay
      - V:1 B1 DLY1
    - Set PC Mode Menu
      - Off On
    - On Time (MSEC)
      - 05000
    - OFF Time (MIN)
      - 00150
    - On Time (MSEC)
      - 01000
    - Selection Sold Out
      - Sold Out #1
    - Upper Lower
      - 1000 500
    - Ice Bin Optic
      - 1000
    - Ice Bin Sensors
      - 12 0.104 0.104
      - 34 0.104 0.104
    - Selection Sold Out
      - Sold Out #1
    - Number Of Valves
      - 1 2 3 4
      - On On On On
    - Reload Defaults?
      - No Yes

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

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

**3.10 Agitation adjustments – SERVEND**

**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**

![Diagram of dispenser diverter plate installation]

**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.

**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.
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.

External connections

6

6.1 Water and drain

- Rough-in ice machine potable water supply ①.
- Connect the silicone tubing to the ice machine 3/4” drain barb ③.
- 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 ④.
- Connect the 1” slip fitting to the 1” stand pipe/drain ⑤.
- Apply Petrol-gel to barbed drain fitting ⑥.

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).

6.2 Refrigerant lines

- Braze supplied quick-connect lines onto stub-ins ①.

Water and drain

Minimum 8” radius

2 ft. x 1” OD silicone tubing

3/4” barb x 3/4” FPT

3/4” MPT x 1” slip

1” Stand pipe/Drain

3/4” barb x 3/4” FPT

3/4” MPT x 1” slip

1” Stand pipe/Drain
Connect louvered docking assembly to ice machine.

Internal connections 7

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

7.2 Water line
- Insert potable water line into valve ➊

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

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).
  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