



MCE414ABS shown

# Maestro Plus™

self-contained E 414 series Chewblet® RIDE® ice machine

## Features

Maestro Plus Chewblet ice machine with up to 193 kg (425 lb) daily production of consumer-preferred Chewblet ice

- automatically transport ice through a tube with RIDE technology from up to 6 m (20') away
- available with approximately 2.54 cm (1.00") long standard Chewblet ice or optional 0.95 cm (3/8") long Micro Chewblet™ ice
- water and energy efficient
- no noisy harvest cycles means quiet ice production

## Consumer-preferred Chewblet ice

- chewable, compressed nugget ice is preferred over cubes<sup>1</sup>
- more reliable dispensing than nugget or pellet ice
- slow melting, maintains drink temperature and quality comparable to cubes
- higher displacement than cube ice

## Key Maestro Plus design features

- durable construction, versatile design – sturdy stainless steel exterior frame
- stainless steel evaporator, auger and top bearing
- oversized, heavy duty, tapered roller bearings ensure long, low-maintenance life
- automatic self-flushing of ice machine for superior scale control
- compact design offers in-cabinet/undercounter, floor stand or wall bracket mounting
- 3 m (10 ft) flexible ice transport tube and insulation standard with RIDE model ice machines (except for "V" models)

## Maintenance and service benefits

- cleaning and sanitizing of entire machine takes less than 1 hour
- LED control board provides at-a-glance machine status

## Warranty

- 3 years parts and labor, 5 years compressor parts<sup>2</sup>

<sup>1</sup> Consumer study conducted by independent agency Roper ASW.

<sup>2</sup> Refer to price list for additional warranty information.

| Model configurations  |                                        |           |                   |                  |
|-----------------------|----------------------------------------|-----------|-------------------|------------------|
| Ice type              | For use with <sup>1</sup>              | Condenser | V/Hz <sup>2</sup> | Item number      |
| <b>Chewblet</b>       | ice storage bin                        | air       | 230/50            | <b>MCE414ABS</b> |
|                       | Follett Vision™ dispenser              | air       | 230/50            | <b>MCE414AVS</b> |
|                       | ice and beverage dispenser (by others) | air       | 230/50            | <b>MCE414AHS</b> |
|                       | drop-in dispenser (by others)          | air       | 230/50            | <b>MCE414AJS</b> |
| <b>Micro Chewblet</b> | ice storage bin                        | air       | 230/50            | <b>MME414ABS</b> |
|                       | drop-in dispenser (by others)          | air       | 230/50            | <b>MME414AJS</b> |

<sup>1</sup> Ordered separately

<sup>2</sup> Alternate voltage not for use in the United States.

Accessories

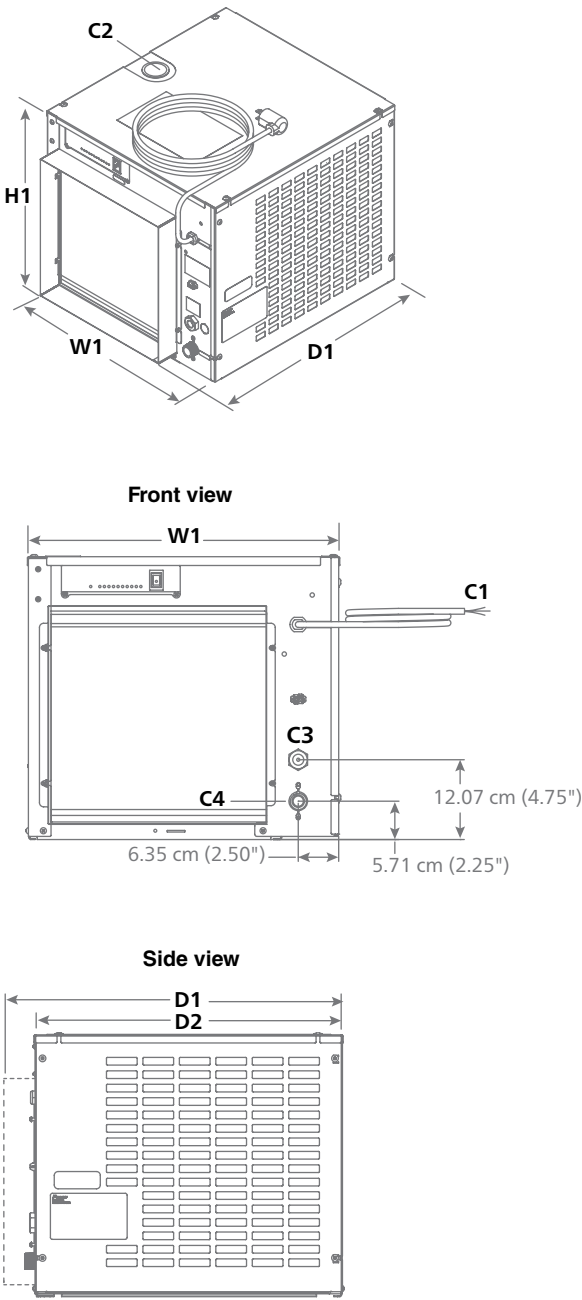
- ☐ Water filters (refer to form# 1058 )
- ☐ Wall mount bracket (refer to form# 3311)
- ☐ Ice machine stand, height-adjustable (refer to form# 3311)
- ☐ Longer ice transport tube (3 m/10' is standard) – Specify length:  
\_\_\_\_\_ ft/m in 1.5 m/5' increments (6 m/20' max)

Specification

|                                                             |                                                                                                                                                 |
|-------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>W1</b> Width                                             | 47.8 cm (18.80")                                                                                                                                |
| <b>D1</b> Depth                                             | 56.1 cm (22.09")                                                                                                                                |
| <b>H1</b> Height                                            | 43.4 cm (17.10")                                                                                                                                |
| Service clearance                                           | 30.5 cm (12.00") top –<br>no front obstructions<br>15.24 cm (6.00") on exhaust side<br>(left, right and rear)                                   |
| <b>C1</b> 230 V/50/1 electrical                             | 5 amps, 0.8 kW<br>2.4 m (8') cord only                                                                                                          |
| <b>C2</b> Ice transport tube                                | see page 7 for details                                                                                                                          |
| <b>C3</b> Water inlet                                       | 3/8" FPT                                                                                                                                        |
| <b>C4</b> Drain                                             | 3/4" MPT                                                                                                                                        |
| Refrigerant and charge                                      | R290, 99 grams (3.49 oz)                                                                                                                        |
| Air temperature                                             | 10 - 38 C (50 - 100 F)                                                                                                                          |
| Water temperature                                           | 10 - 32 C (45 - 90 F)                                                                                                                           |
| Potable water pressure                                      | 69 - 483 kPa (10 - 70 psi)                                                                                                                      |
| Ice production at<br>21 C (70 F) air,<br>10 C (50 F) water  | 193 kg (425 lb)                                                                                                                                 |
| Ice production at<br>32 C (90 F) air,<br>21 C (70 F) water  | 148 kg (325 lb)                                                                                                                                 |
| Energy consumption<br>32 C (90 F) air,<br>21 C (70 F) water | 5.4 Wh, per 45.4 kg (100 lb) ice                                                                                                                |
| Heat rejection                                              | 5,000 BTU/hr                                                                                                                                    |
| Water consumption                                           | 45.4 L (12.0 gal) of potable water per<br>45.4 kg (100 lb) of ice (per AHRI test<br>standards). 47.3 L (12.5 gal) at standard<br>flush setting. |
| Approximate ship weight                                     | 58 kg (127 lb)                                                                                                                                  |
| NOTE: For indoor use only                                   |                                                                                                                                                 |

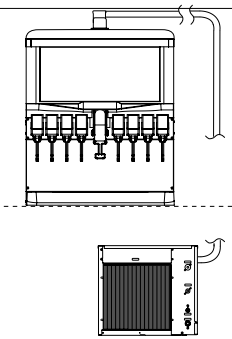
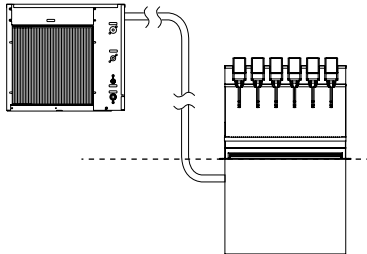
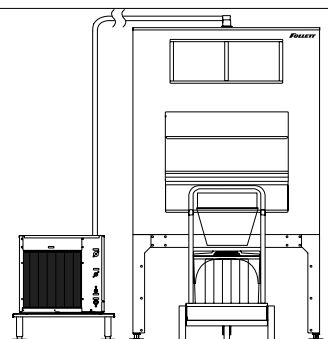
SHORT FORM SPECIFICATION: Ice machine to be a Follett® Maestro Plus Chewblet ice machine model \_\_\_\_\_ capable of producing \_\_\_\_\_ Chewblet or \_\_\_\_\_ Micro Chewblet using an efficient, sanitary vertical evaporator/auger system and delivering ice by a flexible wire reinforced, transport tube to ☐ ice storage bin, or ☐ ice and beverage dispenser and provided with a stainless steel frame, plus all the features listed and mounting/performance-enhancing accessories checked above. Ice machine to be equipped with automatic self-flushing. NSF and CE listed. EU food contact compliant.

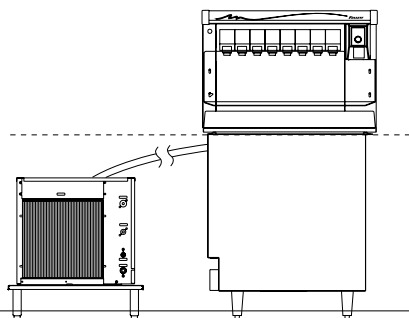
Dimensional drawing



# 1 – Locating the ice machine

Maestro Plus self-contained Chewblet ice machines with RIDE technology allow mounting in a base cabinet, on a wall or on a floor stand up to 6 m (20') from the dispenser or ice bin. In-cabinet mounting requires special attention to service access, unit ventilation and ice tube runs.

| RIDE model – ice and beverage dispensers (by others)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | RIDE model – drop-in beverage dispensers (by others)                                                                                                                                                                                                                                                                                                    | RIDE model – Follett ice storage bins                                                                                                                                                                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                        |                                                                                                                                                                                          |
| <b>Important specifier notes:</b> <ol style="list-style-type: none"> <li>1. Dispenser must be compatible with nugget ice. Compatible dispensers include Cornelius DF/ED300BC, DB/DF/ED, 150 BC, 175 BC, 200 BC, 250 BC, 300 BC, IDC215/255, FlavorFusion/Overload, Lancer 4500-22N, 4500-30N, FS16N, FS30N, FS44N, Servend MD150/175/200/250, MDH302/402, SV175/200/250 and Coca-Cola Freestyle.</li> <li>2. Ice enters through the top of the ice and beverage dispenser. Contact factory for side entry.</li> <li>3. Coca-Cola Freestyle 7000 requires top kit MSF30SC. Top adapter IC CODE 46412 and ice kit IC Code 46430 must also be ordered from Coca-Cola. Coca-Cola Freestyle 7100 requires top adapter IC Code 46751 and ice kit IC Code 46430 only, and must be ordered from Coca-Cola. Coca-Cola Freestyle 9100 requires top kit MSF26SC. Consult with Coca-Cola and Follett to qualify application prior to ordering.</li> <li>4. RIDE application is approved only for Pepsi Spire 3.0, 5.0 and 4.1 designed for top mount ice machines and requires MSP24SC for 3.0 and MSP30SC for 5.0 and 4.1, ordered separately. For manual fill versions of Pepsi Spire 3.0 and 5.0 and 4.1, contact factory.</li> </ol> | <b>Important specifier notes:</b> <ol style="list-style-type: none"> <li>1. Compatible with the following dispensers: Cornelius 1522, 1722, 2323 and Lancer 2200, 2300, 23300.</li> <li>2. Requires 12.00" (30.5 cm) of access space for installation on transport tube side.</li> <li>3. See pages 4-6 for critical clearance requirements.</li> </ol> | <b>Important specifier notes:</b> <ol style="list-style-type: none"> <li>1. See form# B300 for bin sizing.</li> <li>2. Locate floor sink or grate and drains in front of storage bin.</li> <li>3. Do not position bin drain lines to block Ice•Devlce™ bin cart.</li> </ol> |

|                                                                                                                                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>RIDE model – Follett low-profile Vision™ ice and beverage dispensers</b>                                                                           |
|                                                                    |
| <b>Important specifier notes:</b> <ol style="list-style-type: none"> <li>1. See pages 4-6 for critical clearance and venting requirements.</li> </ol> |

## 2 – Undercounter/in-cabinet mounting

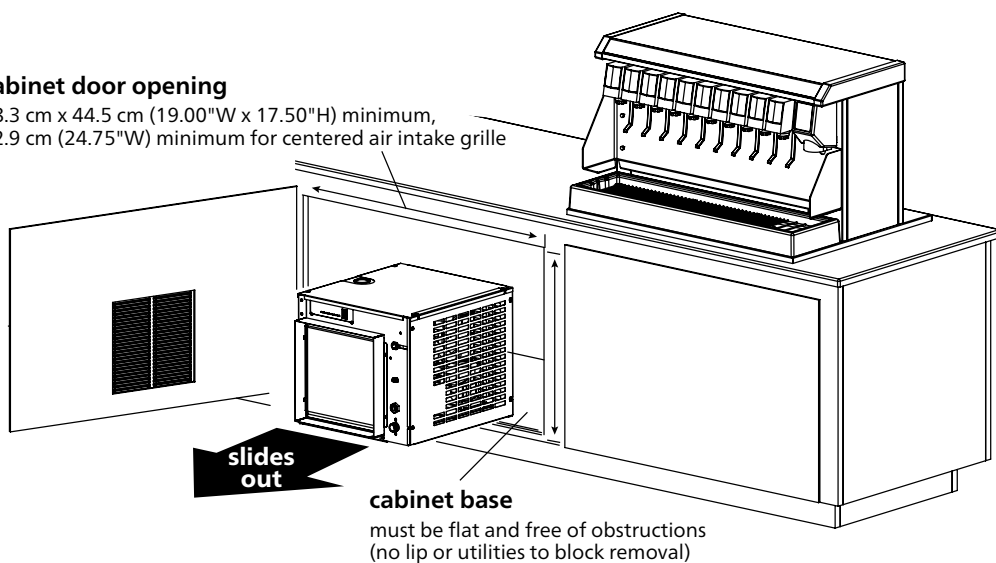
### Cabinet details

#### Important specifier notes

1. Cabinet door opening must meet minimum size requirements shown and be free of obstructions to allow ice machine to slide out (no lip or utilities to block removal).
2. Cabinet base must be capable of supporting ice machine and allow ice machine to rest flat on cabinet bottom.
3. No counter supports, electric or plumbing can run in front of the ice machine.

#### cabinet door opening

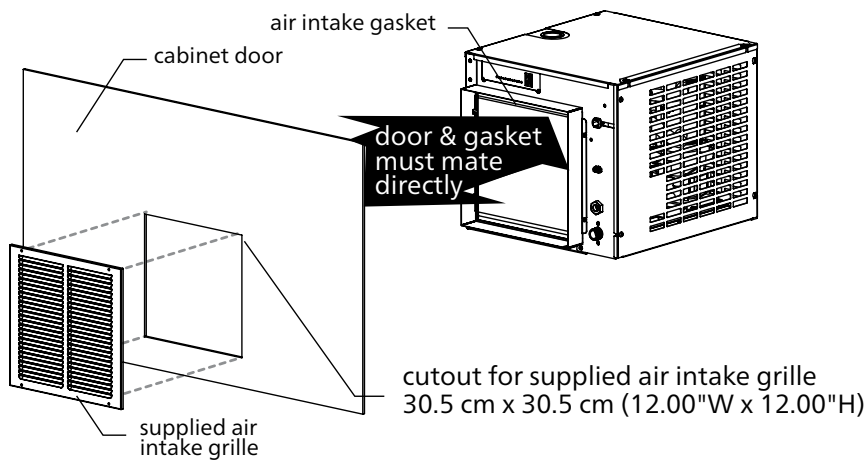
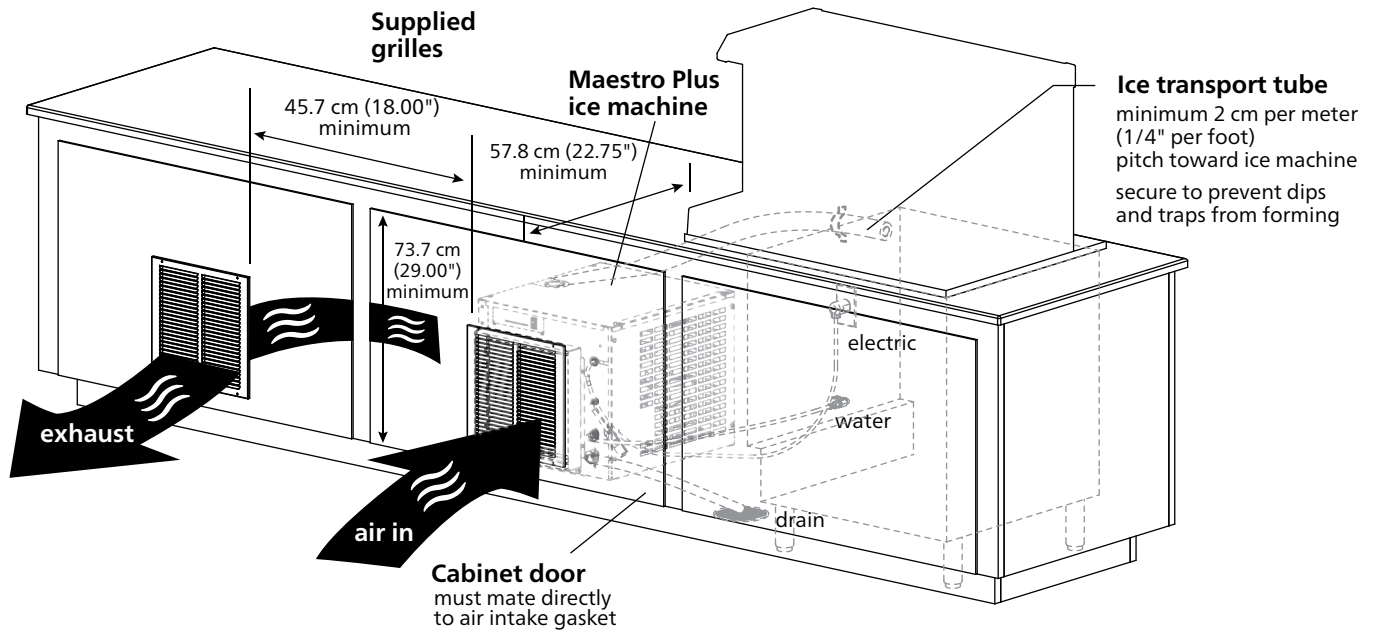
48.3 cm x 44.5 cm (19.00"W x 17.50"H) minimum,  
62.9 cm (24.75"W) minimum for centered air intake grille



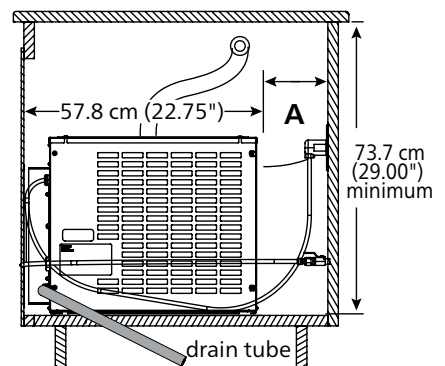
### 3 – Undercounter/in-cabinet mounting and ventilation

#### Using Follett supplied grilles

Maestro Plus ice machines can be installed undercounter/in-cabinet to fill bins or dispensers using RIDE technology. Care must be taken to ensure proper cabinet venting to avoid recirculation of hot air. Improper venting can cause ice machine outages.



completed installation with gasket and door in place side view



A: additional 7.6 cm (3") required if receptacle located directly behind unit.

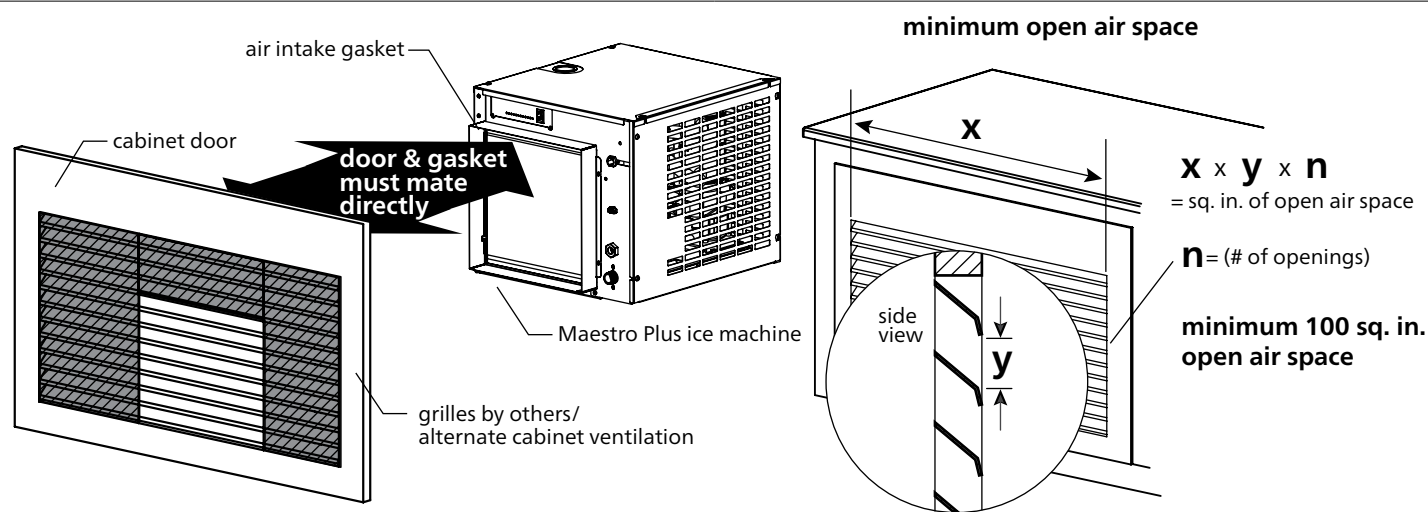
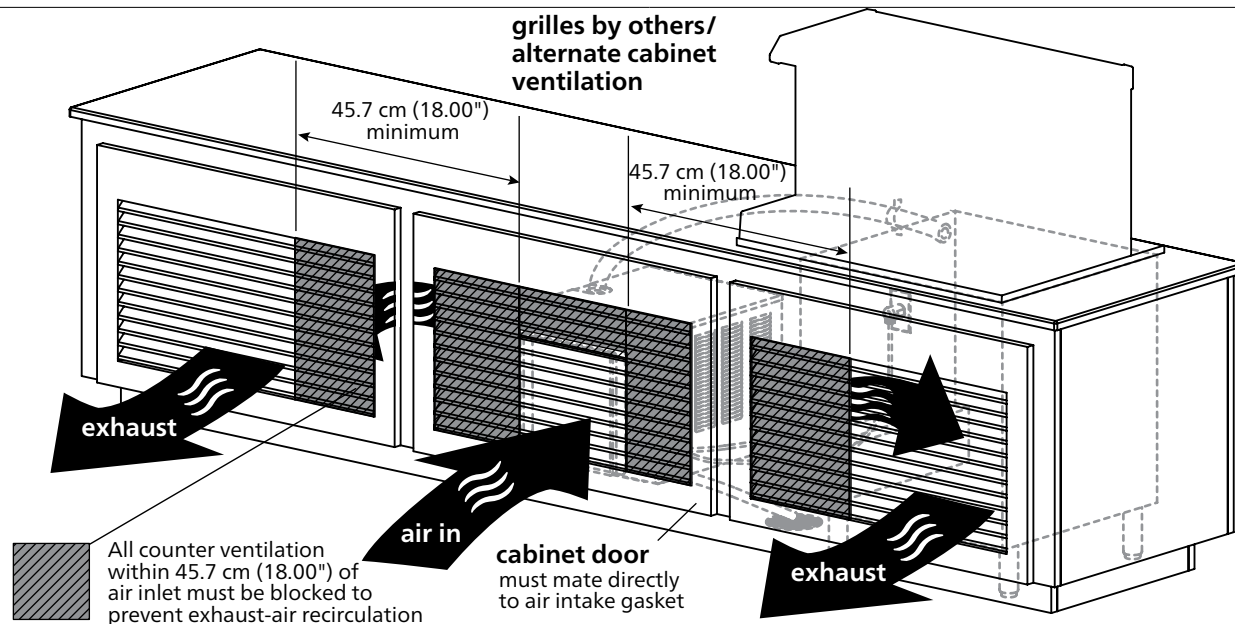
#### Important specifier notes for using Follett supplied grilles:

1. The supplied exhaust grille must be located at least 45.7 cm (18.00") from the supplied air intake grille (exhaust air must not recirculate with intake air).
2. Cabinet interior must be open to allow for unrestricted exhaust air flow.
3. Ice transport tube needs minimum 2 cm per meter (1/4" per foot) pitch toward ice machine and should be secured to prevent dips and traps from forming.
4. Cabinet door must mate directly to air intake gasket.
5. Cabinet interior must provide a minimum clear space of 57.8 cm deep (22.75") by 73.7 cm high (29.00").
6. Supplied grilles must meet minimum requirements for open air space shown above.
7. Utilities should be conveniently located as shown.

### 3 – Undercounter/in-cabinet mounting and ventilation (continued)

#### Using grilles by others/alternate cabinet ventilation

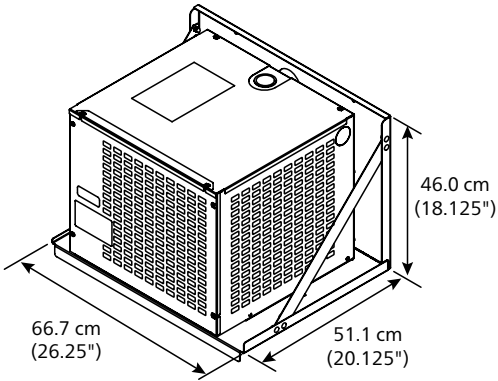
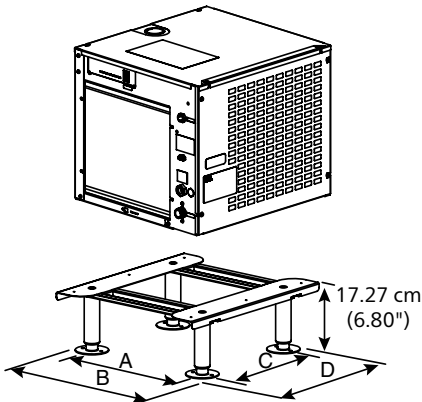
Cabinets with ventilation or louvers other than those provided by Follett require special consideration to provide proper ventilation. Recirculation of hot air will reduce ice machine performance and can cause ice machine outages.



#### Important specifier notes for using grilles supplied by others/alternate cabinet ventilation:

1. Exhaust must be at least 45.7 cm (18.00") from air intake (exhaust must not recirculate with intake air).
2. Cabinet interior must be open to allow for unrestricted exhaust air flow.
3. Ice transport tube needs minimum 2 cm per meter (1/4" per foot) pitch toward ice machine and should be secured to prevent dips and traps from forming.
4. Ducting must be provided if cabinet door does not mate directly to air intake gasket.
5. Cabinet interior must provide a minimum clear space of 57.8 cm deep (22.75") by 73.7 cm high (29.00").
6. Grilles by others must meet minimum requirements for open air space shown above.
7. Utilities should be conveniently located as shown.

4 – Maestro Plus ice machine mounting accessories

| Optional wall mount bracket                                                       | Optional machine stand                                                                                                                                                              |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  |  <p>A - 38.4 cm (15.125") C - 33.6 cm (13.25")<br/>B - 47.3 cm (18.625") D - 52.7 cm (20.75")</p> |

Important specifier notes:

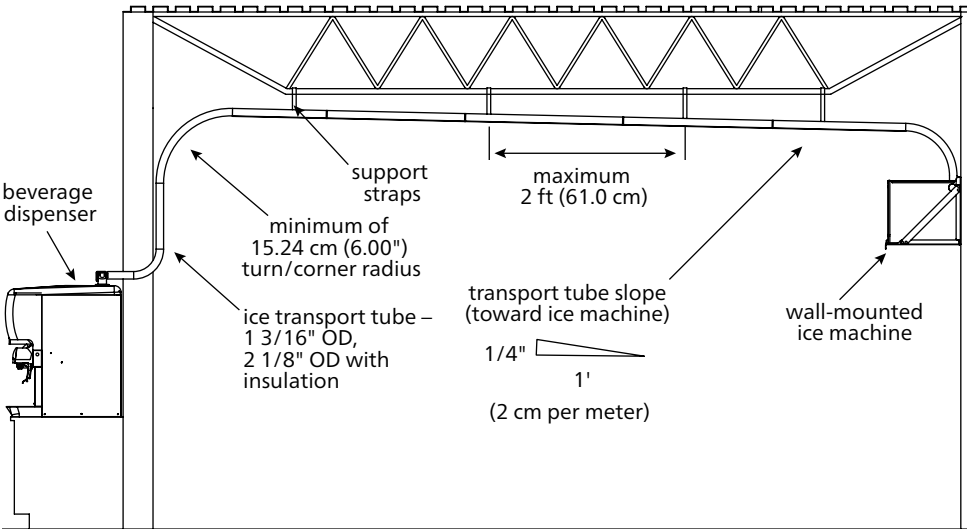
1. For secure wall mounting, specify optional wall mount bracket.

2. Wall and fasteners must support the weight of the ice machine, bracket, supply water and ice. Use of a backing board may be required with hollow wall construction.

3. Machine stand mounting adds 17.27 cm (6.80") to height of ice machine.
4. No dips in tube routing allowed.

5. Ice transport tube needs minimum 2 cm per meter (1/4" per foot) pitch toward ice machine and should be secured to prevent dips and traps from forming.

5 – Maestro Plus ice tube runs – specifier guidelines

| Long tube runs for RIDE remote ice delivery equipment                                | Important specifier notes:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <div>1. 6 m (20') maximum ice transport tube run.</div> <div>2. Tubing routing bends must have a 15.24 cm (6.00") radius or larger.</div> <div>3. If not supported from underneath, secure insulated ice transport tube at least every 61.0 cm (2') to prevent dips or traps.</div> <div>4. Relative humidity levels above 80% in areas where the ice machine or ice transport tube are located may produce excessive condensation that will cause water damage.</div> <div>5. Contact factory for recommendations on running tubing through a decorative soffit or chase.</div> |

# Ice production – air-cooled models

| Inlet water temperature<br>C (F) | Ambient air temperature C (F) |           |             |           |             | kg (lb) production in 24 hr |
|----------------------------------|-------------------------------|-----------|-------------|-----------|-------------|-----------------------------|
|                                  | 16 (60)                       | 21 (70)   | 27 (80)     | 32 (90)   | 38 (100)    |                             |
| 10 (50)                          | 208 (460)                     | 193 (425) | 177 (390)   | 161 (355) | 145 (320)   |                             |
| 16 (60)                          | 198 (437.5)                   | 184 (405) | 169 (372.5) | 154 (340) | 139 (307.5) |                             |
| 21 (70)                          | 188 (415)                     | 175 (385) | 161 (355)   | 147 (325) | 134 (295)   |                             |
| 27 (80)                          | 184 (405)                     | 170 (375) | 156 (345)   | 142 (315) | 129 (285)   |                             |
| 32 (90)                          | 179 (395)                     | 166 (365) | 152 (335)   | 138 (305) | 125 (275)   |                             |

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## Self-contained E 414 series RIDE ice machine

