

## Buffer Tanks

The North Star **Buffer Tank** is designed to provide temporary remote storage for up to 2.2 US tons (2.0 metric tons) of flake ice. Designed for use in projects that require dispensing of ice at high delivery rates (400 to 700 lbs {200 kg to 350 kg}) per minute repeatedly for brief amounts of time (4 to 60 seconds). They are typically installed near the point of use so ice is instantly available without waiting for ice to be delivered from the storage bin. This is especially beneficial for projects where quick response and even ice flow are critical. The North Star **Buffer Tank** is capable of delivering up to 24 US tons (21 metric tons) per hour.

<b>Feature</b>	<b>Benefit</b>
<i>Designed &amp; Manufactured for Reliability &amp; Durability</i>	<ul style="list-style-type: none"> <li>• Incorporates independent drives for agitators and discharge screw.</li> <li>• Water-tight electrical connection on level control to avoid water intrusion through the connection.</li> <li>• Reinforced agitator paddles.</li> <li>• Fully insulated hopper.</li> </ul>
<i>Automatic Shut-Off &amp; Protection Devices</i>	<ul style="list-style-type: none"> <li>• Paddle-type high-level control stops ice delivery when Buffer Tank is full.</li> <li>• Hinged cover with sensor to detect excessive ice. Automatically shuts off to prevent damage to the system.</li> </ul>
<i>Saves Money &amp; Time</i>	<ul style="list-style-type: none"> <li>• Reduces time by having ice always available at dispensing area.</li> <li>• Pre-wired electrical motors and junction box. Prevents wiring errors.</li> <li>• Prevents damage to main delivery system which is not designed for short on/off sequences that are repetitively required.</li> </ul>
<i>Easy to Install</i>	<ul style="list-style-type: none"> <li>• Shipped fully assembled with installation instructions.</li> <li>• Fork lift channels included. Prevents damage during transportation and lifting.</li> </ul>

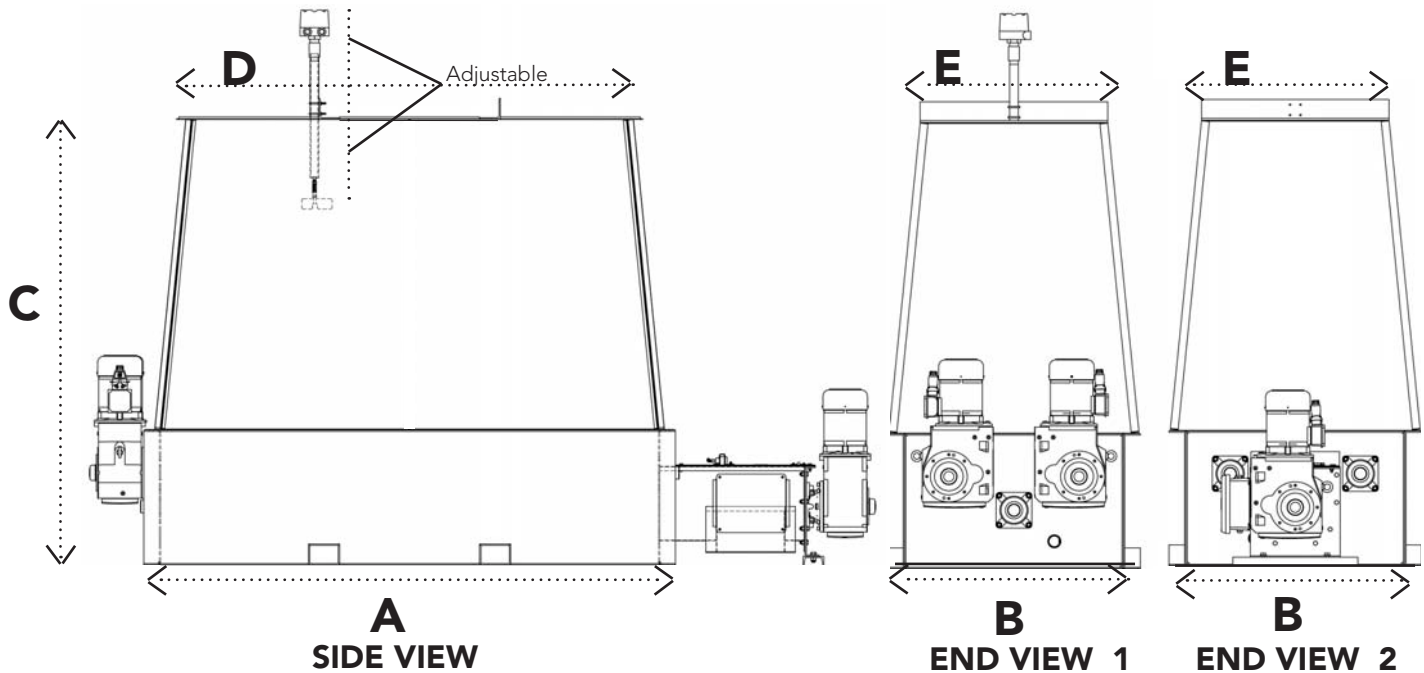


# Buffer Tanks

## Major System Components

Frame Assembly  
 Hopper Assembly  
 Standard CEMA Screw Conveyor Flanged Outlet  
 Trough Support Channels  
 12" Diameter Heavy-Duty Discharge Screw Conveyor  
 Agitator Conveyors

Safety Grate Over Discharge Screw Outlet  
 Hinged Trough Cover Assembly  
 Junction Box Assembly  
 Overfeed Detector Sensor  
 Level Control Assembly (120 or 220 V)  
 Plastic Hopper Cover



## Dimensions

### 2 Ton (1.8 Metric Ton) Buffer Tank

A.	11'-4 3/4" (3473 mm)
B.	48 1/2" (1232 mm)
C.	7'-0" (2134 mm)
D.	7'-0" (2134 mm)
E.	2'-6" (762 mm)

### Notes:

1. All motors utilize European style electrical cable plugs to facilitate quick replacement of motors.
2. For 480v/3ph/60Hz or 380v/3ph/50Hz operation.
3. Starter motors for Buffer Tank can be incorporated into the main rake control panel. (Additional charge)

## Weights and Capacities

Model	Weight - Empty	Capacity	Drive Motors (3)	Delivery Rate
DT2000M	4,000 lbs (1814 kg)	2.2 US Tons (2.0 MT)	17.5 Total HP (13.0 kW)	24 US TPH (21 MTPH)

Note: Also available in 3 US Ton (2.7 Metric Ton) capacity

### North Star Ice Equipment Corp.

8151 Occidental Avenue South  
 P.O. Box 80227  
 Seattle, WA 98108 USA  
 Tel: 206-763-7300

Toll-free in USA: 1-800-321-1381  
 Fax: 206-763-7323  
 Email: info@northstarice.com

© 2010 North Star Ice Equipment Corporation.  
 Printed in USA. 5.11.1

www.northstarice.com