



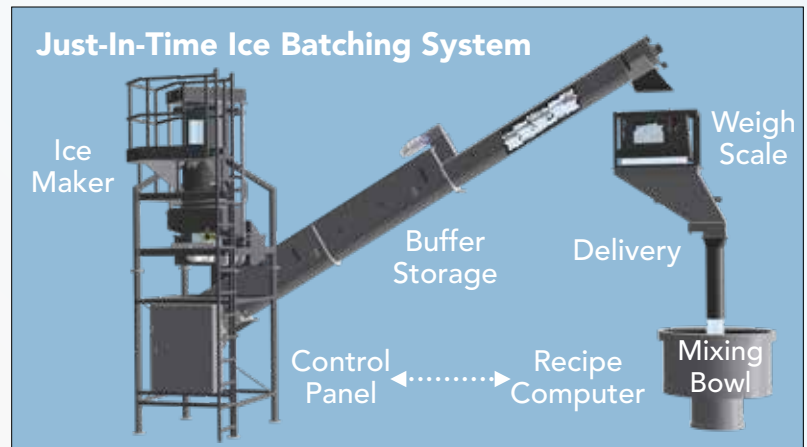
Cool Ideas For A Thermal World

Thermal Applications

BAKING

Complete dough cooling solutions: ice and ingredient water chilling

Morris Just-In-Time Ice and Chilled water systems ensure dough quality by providing precise weight control of ice and chilled water necessary to rapidly lower dough temperature. The fully automated system communicates with the recipe computer to serve a single mixer or multiple mixers. The Morris system has a small footprint, in-line ice storage which removes the need for an ice room and associated labor, and can be placed adjacent to the mixers. Both the ice makers and ingredient water chillers use environmentally friendly refrigerants and are rated for maximum energy efficiency.



Systems Include:

- Morris Ice Maker
- Dosing Scale
- Just-In-Time Storage & Delivery
- In-Line Water Chiller
- Touch screen controls - fully integrates with dough recipe system
- Hygienic design with CIP system

Morris & Associates, Inc.
803 Morris Drive | Garner, NC 27529
Phone: 1.919.582.9200
MorrisThermal.com

Morris Just-In-Time ice systems can deliver up to 44 tons of flake-type ice per day or 3,333 lbs (1,515 kgs)/ice per hour). Morris dosing scales meter ice from 50 to 250 lbs (23 to 114 kg) per batch and the system can continuously serve multiple mixers. Morris in-line ingredient water chillers provide 1°C chilled water at rates up to 100 gpm (380 kg/m).

Morris Ice Maker Specifications

Model	Nominal Tons ¹	Water Usage ² gal/hr [l/hr]	Dimensions ft [m]			Water Pump HP	Approx. Shipping Weight lb [kg]	Approx. Operating Weight lb [kg]
			L	W	H ³			
CIM-R#-2605**-100	20	220 [830]	5' 0" [1.5]	4' 10" [1.5]	7' 8" [2.3]	3	3,000 [1360]	4,000 [1815]
CIM-R#-2607**-100	25	275 [1040]	5' 0" [1.5]	4' 10" [1.5]	9' 8" [2.9]	3	3,200 [1450]	4,200 [1900]
CIM-R#-2610**-100	35	385 [1460]	6' 0" [1.8]	6' 3" [1.9]	16' 3" [4.5]	5	8,000 [3650]	10,500 [4800]
CIM-R#-3010**-100	55	605 [2290]	6' 0" [1.8]	6' 3" [1.9]	16' 3" [4.5]	5	10,400 [4750]	12,400 [5650]

Refrigerant Type: A=Ammonia (R-717), 5=R-507

** NC = No Cutter

Ice Type: Flake or Tube: 1" diameter.

1. Capacity based on R-717 @ 0°F suction temperature and 60°F inlet water temperature for tube ice without cutter. Tube with cutter decrease capacity by 10%. For flake type ice, decrease capacity by 25%.

2. Water usage includes 10% blowdown for non-RO water supplies.

3. Height noted is to the top of the ice maker for liquid recirculated refrigeration systems.

Morris Ingredient Water Chiller Specifications

Model Number	Tube Length ft [m]	Capacity Per Tube* TonsR [kW/R]
IC-S-08TT-3	8' [2.4]	1.31 [4.61]
IC-S-16TT-3	16' [4.9]	2.62 [9.22]
IC-S-32TT-3	32' [9.8]	5.25 [18.46]

*Sizing example: IC-S-1608-3 has 8, 16' long tubes and a total capacity of 20 TonsR.

S: Refrigerant system type: LRA= Liquid recirculated Ammonia; GLY = Glycol

TT = Number of Tubes



Morris & Associates, Inc.
803 Morris Drive | Garner, NC 27529
Phone: 1.919.582.9200
MorrisThermal.com

MORRIS
Cool Ideas For A Thermal World
Since 1949