

# CERTIFIED

## PRODUCT DIRECTORY



### Certified Automatic Commercial Ice Makers: 810

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### Certified Ice Storage Bins: 820

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**2008 Edition**  
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 **Air-Conditioning and Refrigeration Institute** *Improving Life and the Environment*

This directory, and the directories listed below, are mailed regularly and free on a limited basis upon written request on business letterhead to ARI from an individual or company in the air conditioning or allied industries. A directory will be sent automatically whenever a new printed edition is issued, unless ARI is requested to stop sending them, or the Post Office Department advises that the new address is no longer deliverable.

The latest issue of the directory may be downloaded, at no charge, from [www.aridirectory.org](http://www.aridirectory.org).

For all other requests, price per copy is \$2.00.

Other certified products are published in ARI directories and on the ARI website as follows:

1. Directory of Certified
  - Unitary Air-Conditioners
  - Unitary Air-Source Heat Pumps
2. Directory of Certified Applied Air Conditioning Products
  - Air-to-Air Energy Recovery Ventilators
  - Air-Cooled Chilling Packages
  - Central Station Air-Handling Units
  - Forced Circulation Air-Cooling and Air-Heating Coils
  - Liquid to Liquid Heat Exchangers
  - Non-Condensable Gas Purge Equipment
  - Packaged Terminal Air Conditioners
  - Packaged Terminal Heat Pumps
  - Room Fan-Coil Air Conditioners
  - Single Package Vertical Systems
  - Unitary Large Equipment
  - Unit Ventilators
  - Variable Air Volume Terminals
  - Water-to-Air and Brine-to-Air Heat Pumps
  - Water Cooled Chilling Packages
3. Directory of Automatic Commercial Ice-Cube Machines and Ice Storage Bins
4. Directory of Certified Commercial Refrigerated Display Merchandisers and Storage Cabinets
5. Directory of Certified Direct Geexchange Heat Pumps
6. Directory of Certified Refrigerant Recovery/Recycling Equipment
7. Directory of Certified Reclaimed Refrigerants
8. Directory of Certified Refrigerant Testing Laboratories
9. Directory of Certified Transport Refrigeration Units

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## NOTICE

This Program is sponsored and administered by the Air-Conditioning and Refrigeration Institute (ARI).

At any time there may be some participants added or removed from the Program; also some models may be added, deleted or revised. The latest issue of the directory may be downloaded, at no charge, from [www.aridirectory.org](http://www.aridirectory.org). In the event of any question regarding the listing of any model or participant, communicate directly with

**Air-Conditioning and Refrigeration Institute**  
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# To the User of This Directory

This directory lists certified automatic commercial ice-cube machines (batch type) and ice storage bins.

The Air-Conditioning and Refrigeration Institute sponsors and administers certification programs to help ensure that industry products perform as rated.

## PERSPECTIVE

The Air-Conditioning and Refrigeration Institute (ARI) is a voluntary, nonprofit organization comprised of the manufacturers of air conditioning, refrigeration, and heating products. Members of ARI produce more than 90 percent of the air conditioning and refrigeration machinery and components manufactured in the United States.

ARI traces its history back to 1903 when the Ice Machine Builders' Association of the United States started. ARI was formed in 1953 through a merger of two related trade associations. Since that time several other related trade associations have been merged into ARI, making it the strong association that it is today.

Over the past 30 Years, ARI has emerged as the major voice for the industry. Manufacturers are drawn to ARI membership in part because of the variety of services and benefits afforded those who participate in ARI Activities. These activities include:

- Establishing standards for testing and rating products.
- Testing products to verify certified performance ratings, and publishing certification rating data.
- Providing representation and technical assistance to government entities on federal, state, and local legislative and regulatory matters.
- International trade research and analysis.
- Public relations and promotional programs for the industry.
- Consumer education programs.
- Credit information services.
- Regular statistical reports on product shipments.

## WHAT CERTIFICATION MEANS

Two of ARI's most important functions are the development of performance rating standards and the administration of performance certification programs for eligible products. Each product section, with the support of the ARI engineering staff, may develop certification programs for eligible products. Participation in the program is voluntary and open to members and nonmembers of ARI on an equal level basis.

ARI regularly selects random samples of equipment to be tested by an independent laboratory under contract to ARI. The equipment is tested, using procedures stipulated in the corresponding ARI standard, to verify that it meets the manufacturer's certified published performance ratings.

The ARI certification label appearing on products has been an indication of verified performance for more than 40 years. Once a product is certified it is listed with its performance ratings in the appropriate ARI directory. These directories serve as authoritative sources of specification and performance rating for manufacturers, wholesalers, retailers, contractors, utilities, architects, engineers, and consumers. The ARI certification directories serve as reference manuals for many government agencies.

This directory of Certified Automatic Commercial Ice-Cube Machines and Ice Storage Bins lists all eligible models, of this type of equipment, produced by each manufacturer participating in the certification program of the Air-Conditioning and Refrigeration Institute.

Listing in the directory means that the models have been certified by the manufacturers to ARI, under the applicable standard to meet the performance ratings claimed under test conditions described in the standards. Listing does not constitute a recommendation by ARI regarding safety or reliability of any listed product.

The automatic commercial ice-cube machines and ice storage bins listed herein represent a significant percentage of the total U.S. output of this type of equipment falling within the scope of the program.

Under the program, participating manufacturers must file certification data with ARI on all models produced within the scope of the program. Through the random testing program ARI conducts standard performance tests of each manufacturer's models each year.

In addition to the evaluation of the certified data, and to the ARI ongoing random testing program, participating manufacturers which question certified ratings of competitors' models may request that these models be tested.

The manufacturer of a model which fails to pass the specified tests has two basic alternatives: rerate the model in question to reflect its tested performance, or immediately stop production of that model.

If neither of the above solutions is accomplished, the manufacturer's right to use the ARI certification symbol on *all* of his models is withdrawn, and the manufacturer's name and listings are deleted from the directory.

The ARI certification program is designed to assure contractors and other equipment specifiers as well as consumers, that products manufactured by a program participant have been accurately rated and thus are eligible for the ARI certification label.

### **ARI STANDARDS COVERED**

ARI standard 810 for *Automatic Commercial Ice-Makers* was prepared to establish: definitions; requirements for testing and rating; requirements for specifications, literature and advertising; and conformance conditions.

ARI Standard 820 for *Ice Storage Bins* was prepared to establish: definitions; requirements for testing and rating and conformance conditions.

Copies of these standards may be purchased from ARI.

### **TOLERANCES**

The consumer or user of the Directory should note the tolerance provisions that are outlined in Parts I and II of the Directory. These tolerances are included in the Standards, in the ARI Certification Programs, and in the testing procedures for the following reasons: testing instrumentation accuracies, variations between laboratories, and manufacturing tolerances.

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<b>HOSHIZAKI AMERICA, INC.</b> 618 Highway 74 South Peachtree City, GA 30269	7	24
<b>IMI CORNELIUS, INC.</b> 101 Regency Drive Glendale Heights, IL 60139	9	24
<b>MANITOWOC ICE INC.</b> 2110 South 26 <sup>th</sup> Street Manitowoc, Wisconsin 54221	11	24
<b>MILE HIGH EQUIPMENT LLC</b> 11100 East 45 <sup>th</sup> Avenue Denver, Colorado 80239	15	25
<b>SCOTSMAN ICE SYSTEMS</b> 775 Corporate Woods Parkway Vernon Hills, Illinois 60061	17	25

## Part I: Automatic Commercial Ice-Cube Machines (Batch Type) Scope of Program

### A. Standard

The program references the current issue of ARI Standard 810 for AUTOMATIC COMMERCIAL ICE-MAKERS.

Certification by manufacturers of automatic commercial ice-cube machines (batch type) under this standard requires that manufacturer's certified ratings are established at the Standard Rating Conditions indicated in ARI Standard 810.

### B. Equipment Covered

All factory-made automatic commercial ice-cube machines (batch type), as defined in ARI Standard 810, are included in this Program.

An automatic commercial ice-maker is a factory-made assembly (not necessarily shipped in one package) consisting of a condensing unit and ice-making section operating as an integrated unit, with means for making and harvesting ice. It may also include means for storing or dispensing ice, or both.

A self-contained model is a model in which the ice-making mechanisms and storage compartment are in an integral cabinet.

A split system ice-maker is a model in which the ice-making mechanism and condenser or condensing units are in separate sections.

Cube Ice refers to a fairly uniform product that is hard, solid, usually clear, and generally weighs less than 2 oz. [60 g] per piece – as distinguished from flake, crushed, or fragmented ice.

THIS PROGRAM DOES NOT APPLY TO ANY MACHINES OTHER THAN AUTOMATIC COMMERCIAL ICE-CUBE (BATCH TYPE) MACHINES.

### C. Basis of Participation

Participation in the Program, by contract between each manufacturer and ARI, consists of:

1. Certification by the manufacturer to ARI that his models comply with ARI Standard 810.
2. Participation by the manufacturer in the random testing program, at an independent testing laboratory under contract to ARI. Representatives of the laboratory select units for test from manufacturer's inventories.

### D. Evidence of Certification

The participating manufacturer may indicate his participation in the certification program in the following ways:

1. Display of the Certification Symbol on all units of certified models.
2. The Certification Symbol, with the statement "Certified in accordance with the ARI Automatic Commercial Ice-Cube Machines (Batch type) Certification Program, which is based on ARI Standard 810.", shall be displayed on all specification sheets, and also, if ratings are mentioned, on other literature and advertising.
3. Distribution of the Directory carrying the name of each participating manufacturer and list of his certified models, together with their certified ratings.

#### The Symbol

The Certification Symbol, as required to cover the governing Standard, is illustrated below:



**\*See Operational Manual, OM-810 for exceptions.**

This Symbol has been registered with the United States Patent Office. The symbol may not be reproduced or copied except by permission of ARI. The Symbol may be displayed on qualified units in the form of a label obtained from ARI, or may be an integral part of the nameplate.

## THE DIRECTORY

The Directory lists the names, addresses and trade names of the participating manufacturers and their certified products.

### STANDARD CAPACITY RATING DEFINITIONS

*Standard Rating.* A *Standard Rating* is a rating based on tests performed at Standard Rating Conditions set forth in ARI Standard 810.

Standard Ratings include the following:

1. *Ice Harvest Rate*  
The amount of 32°F [0°C] ice harvested per twenty-four (24) hours (corrected to 144 Btu/lb [336 kJ/kg]), stated in multiples of 1 lb [0.45 kg]. Cube-type ice-makers are considered as producing 100% quality ice.
2. *Condenser Water Use Rate*  
The amount of water used by the condensing unit (if water-cooled), stated in gallons per 100 lbs [L/45 kg] of ice, as determined in 1. above.
3. *Potable Water Use Rate*  
The amount of potable water used in making air, including blow down, stated in gallons per 100lbs [L/45 kg] of ice, as determined in 1. above.
4. *Energy Consumption Rate*  
Total energy input rate, stated in kWh per 100 lbs[45kg] of ice, as determined in 1. above. For split systems, include condenser fan power.

The conditions of test for Standard Ratings are as follows:

Ambient temperature.....90°F [32.2 °C]\*  
Water inlet temperature..... 70°F [21.1°C]  
Water inlet pressure .30 ± 3 psig [207 ± 21 kPa].

\*For a split system unit, the condenser air inlet temperature shall be 90°F [32.2°C].

## APPLICATION RATINGS

Ratings at conditions other than at Standard Rating Conditions may be published as application ratings, and shall be based on data determined by the methods of testing prescribed in ARI Standard 810.

Wherever application ratings are published or printed, they shall be accompanied by the Standard Rating, clearly designated as such, including a statement of the conditions at which the ratings apply.

### FAILURE TO COMPLY WITH PROVISIONS OF THE PROGRAM

If it is demonstrated that a manufacturer has misrepresented the ratings or other requirements of the ARI Standard and has failed to make proper correction, the right to use the Symbol will be withdrawn, not only for the specific model concerned, but for all models produced by the manufacturer, and the manufacturer's name and listing will be removed from the Directory.

### TOLERANCES

To comply with these standards, published ratings shall be based on data obtained in accordance with the provisions of ARI Standard 810, and shall be such that any production unit selected at random and tested shall produce an ice harvest rate not less than 95% of the published rate and an energy consumption rate not more than 105% of the published rate. The actual amount of water used shall be not more than 110% of the published amount.

### BASIC ORDER OF CLASSIFICATION

Type	Description
SC	-Self-Contained
IMH	-Ice-Making Head
RCU	-Remote Condensing Unit Cooling Medium
A	-Air-Cooled
W	-Water-Cooled

## Footnotes

\* Voluntarily revised since last Directory, unless accompanied with a WAS in which case the change is involuntary.

WAS Indicates a rating that has been involuntarily changed since the last Directory.

+ (+) refers to letters E or S.

# (#) designates minor cosmetic design variations.

(1) Dispenser.

(2) Storage sleeve must be used in conjunction with the storage bin.

(3) Bin extension.

## ARI STANDARD RATINGS FOR AUTOMATIC COMMERCIAL ICE-CUBE MACHINES

Model Designation	Ice Harvest Rate (lb per 24 hr)	Potable Water Use Rate (gal per 100 lb of ice)	Condenser Water Use Rate (gal per 100 lb of ice)	Energy Consumption Rate (kWh per 100 lb of ice)	Refrigerant Type
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**Hoshizaki America, Inc.**

Trade Name: Hoshizaki

**Type: IMH-A**

KML-250MAH	238	35.2	----	8.2	HFC/HFC/HFC-404A
KM-320MAH	278	18.4	----	6.9	HFC/HFC/HFC-404A
KML-350 MAH	322	24.6	----	7.4	HFC/HFC/HFC-404A
KML-451MAH	349	18.3	----	6.7	HFC/HFC/HFC-404A
KM-461MAH	389	18.0	----	6.3	HFC/HFC/HFC-404A
KM-501MAH	416	17.8	----	7.0	HFC/HFC/HFC-404A
KML-600MAH	485	26.0	----	7.1	HFC/HFC/HFC-404A
KML-631MAH	501	26.0	----	6.2	HFC/HFC/HFC-404A
KMD-700MAH	539	35.5	----	7.5	HFC/HFC/HFC-404A
KM-650MAH	512	21.1	----	5.8	HFC/HFC/HFC-404A
KMD-900MAH	763	33.4	----	6.6	HFC/HFC/HFC-404A
KM-900MAH	738	32.1	----	6.4	HFC/HFC/HFC-404A
KM-1300SAH3	1132	23.6	----	4.9	HFC/HFC/HFC-404A
KM-1300SAH	1143	28.6	----	4.9	HFC/HFC/HFC-404A
KM-1340MAH	1167	18.3	----	4.7	HFC/HFC/HFC-404A
KM-1800SAH3	1532	21.1	----	4.6	HFC/HFC/HFC-404A
KM-1800SAH	1539	22.0	----	4.7	HFC/HFC/HFC-404A

**Type: IMH-W**

KML-250MWH	284	43.7	123	6.2	HFC/HFC/HFC-404A
KM-320MWH	337	16.8	157	5.2	HFC/HFC/HFC-404A
KML-350MWH	324	26.9	124	6.6	HFC/HFC/HFC-404A
KML-450MWH	417	26.7	130	6.1	HFC/HFC/HFC-404A
KML-451MWH	397	19.7	138	5.3	HFC/HFC/HFC-404A
KM-461MWH	416	24.5	121	5.2	HFC/HFC/HFC-404A
KM-501MWH	488	20.8	137	5.3	HFC/HFC/HFC-404A
KML-600MWH	560	27.6	96	5.4	HFC/HFC/HFC-404A
KML-631MWH	630	24.8	119	4.4	HFC/HFC/HFC-404A
KM-650MWH	662	22.5	112	3.8	HFC/HFC/HFC-404A
KMD-700MWH	611	33.3	99	6.0	HFC/HFC/HFC-404A
KMD-900MWH	793	37.9	106	5.9	HFC/HFC/HFC-404A
KM-900MWH	801	32.3	100	5.1	HFC/HFC/HFC-404A
KM-1300SWH	1278	22.1	72	4.0	HFC/HFC/HFC-404A
KM-1300SWH3	1287	22.7	72	3.9	HFC/HFC/HFC-404A
KM-1340MWH	1327	21.0	108	3.6	HFC/HFC/HFC-404A
KM-1600SWH	1558	25.3	80	4.2	HFC/HFC/HFC-404A
KM-1600SWH3	1547	30.2	106	4.1	HFC/HFC/HFC-404A
KM-1601SWH	1523	24.5	98	3.8	HFC/HFC/HFC-404A
KM-1601SWH3	1565	23.8	100	3.7	HFC/HFC/HFC-404A
KM-1800SWH	1797	19.3	92	3.4	HFC/HFC/HFC-404A
KM-1800SWH3	1778	18.4	72	3.5	HFC/HFC/HFC-404A
KM-2000SWH3	1864	20.7	77	3.8	HFC/HFC/HFC-404A

Model numbers may be followed by a letter "M" (Marine Specifications) or "P" (Correctional Facility Specifications)

For explanation of Footnotes,\* was, +, #, (1), (2), (3) see page 6.

For explanation of "Type," see page 5.

## ARI STANDARD RATINGS FOR AUTOMATIC COMMERCIAL ICE-CUBE MACHINES

Model Designation		Ice Harvest Rate (lb per 24 hr)	Potable Water Use Rate (gal per 100 lb of ice)	Condenser Water Use Rate (gal per 100 lb of ice)	Energy Consumption Rate (kWh per 100 lb of ice)	Refrigerant Type
<b>Type: RCU-A</b>						
Icemaking Head	Condenser					
KM-461MRH	URC-5F	396	18.0	----	6.0	HFC/HFC/HFC-404A
KM-501MRH	URC-6F	457	19.6	----	6.6	HFC/HFC/HFC-404A
KML-600MRH	URC-7F	561	37.1	----	7.1	HFC/HFC/HFC-404A
KML-631MRH	URC-9F	589	24.0	----	5.3	HFC/HFC/HFC-404A
KM-650MRH	URC-5F	554	20.0	----	5.4	HFC/HFC/HFC-404A
KMD-700MRH	URC-12F	679	32.1	----	6.3	HFC/HFC/HFC-404A
KMS-750MLH	SRK-7H	700	15.6	----	5.6	HFC/HFC/HFC-404A
KMD-900MRH	URC-12F	812	33.4	----	6.6	HFC/HFC/HFC-404A
KM-900MRH	URC-12F	786	31.7	----	6.2	HFC/HFC/HFC-404A
KM-900MRH3	URC-12F	809	32.1	----	6.2	HFC/HFC/HFC-404A
KM-1300SRH	URC-12F	1163	30.5	----	4.8	HFC/HFC/HFC-404A
KM-1300SRH3	URC-12F	1266	19.8	----	4.4	HFC/HFC/HFC-404A
KM-1340MRH	URC-14F	1251	18.3	----	4.5	HFC/HFC/HFC-404A
KM-1601MRH	URC-21F	1422	18.5	----	4.5	HFC/HFC/HFC-404A
KM-1601MRH3	URC-21F	1392	19.2	----	4.6	HFC/HFC/HFC-404A
KM-1601SRH	URC-21F	1505	24.9	----	4.3	HFC/HFC/HFC-404A
KM-1601SRH3	URC-21F	1511	24.0	----	4.7	HFC/HFC/HFC-404A
KM-1800SRH	URC-20F	1651	26.6	----	4.2	HFC/HFC/HFC-404A
KM-1800SRH3	URC-20F	1595	28.6	----	4.3	HFC/HFC/HFC-404A
KM-2000SRH3	URC-20F	1748	20.0	----	4.4	HFC/HFC/HFC-404A
KM-2400SRH3	URC-24F	2321	21.9	----	5.1	HFC/HFC/HFC-404A
<b>Type: SC-A</b>						
KM-101BAH		88	23.0	----	9.4	HFC/HFC/HFC-R-1349
KM-151BAH		121	17.8	----	8.4	HFC/HFC/HFC-R-1349
KM-255BAH		207	24.7	----	9.6	HFC/HFC/HFC-404A
DKM-500BAH		406	16.3	----	6.8	HFC/HFC/HFC-404A
<b>Type: SC-W</b>						
AM-150BWF		140	31.0	140	9.5	HFC/HFC/HFC-404A
KM-250BWF		207	39.5	136	9.9	HFC/HFC/HFC-404A

Model numbers may be followed by a letter "M" (Marine Specifications) or "P" (Correctional Facility Specifications)  
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 For explanation of "Type," see page 5.

## ARI STANDARD RATINGS FOR AUTOMATIC COMMERCIAL ICE-CUBE MACHINES

Model Designation	Ice Harvest Rate (lb per 24 hr)	Potable Water Use Rate (gal per 100 lb of ice)	Condenser Water Use Rate (gal per 100 lb of ice)	Energy Consumption Rate (kWh per 100 lb of ice)	Refrigerant Type
<b>IMI Cornelius Inc.</b>					
Trade Name: Cornelius					
<b>Type: IMH-A</b>					
AC322	240	27.0	----	9.8	HFC/HFC/HFC-404A
XAC322, 330	269	16.7	----	7.0	HFC/HFC/HFC-404A
CCM0322AF1, H1	249	26.9	----	8.1	HFC/HFC/HFC-404A
CCM0330AF1, H1	253	35.8	----	7.9	HFC/HFC/HFC-404A
CCM0430AF1, H1	368	28.6	----	6.1	HFC/HFC/HFC-404A
XAC522, 530	475	16.6	----	7.0	HFC/HFC/HFC-404A
CCM0522AF1, H1	370	25.4	----	5.9	HFC/HFC/HFC-404A
CCM0530AF1, H1	458	24.1	----	6.2	HFC/HFC/HFC-404A
XAC630	547	16.3	----	6.1	HFC/HFC/HFC-404A
CCM0630AF2, H2	506	25.2	----	5.9	HFC/HFC/HFC-404A
XAC830	666	16.3	----	6.9	HFC/HFC/HFC-404A
CCM0830AF2, H2	698	21.8	----	5.8	HFC/HFC/HFC-404A
XAC1030	830	13.2	----	7.0	HFC/HFC/HFC-404A
CCM1030AF2, H2	803	21.3	----	5.7	HFC/HFC/HFC-404A
XAC1230	1019	14.6	----	6.5	HFC/HFC/HFC-404A
XAC1444-3PH	1275	14.3	----	6.6	HFC/HFC/HFC-404A
XAC1444	1275	14.3	----	6.6	HFC/HFC/HFC-404A
CCM1448AF2, H2	1136	19.9	----	5.1	HFC/HFC/HFC-404A
CCM1448AF3, H3	1131	19.6	----	5.0	HFC/HFC/HFC-404A
XAC1844-3PH	1495	14.5	----	7.2	HFC/HFC/HFC-404A
XAC1844	1575	14.5	----	7.2	HFC/HFC/HFC-404A
<b>Type: IMH-W</b>					
WC322	240	27.0	160	7.6	HFC/HFC/HFC-404A
XWC322, 330	281	16.7	149	6.8	HFC/HFC/HFC-404A
CCM0322WF1, H1	308	27.3	157	5.3	HFC/HFC/HFC-404A
CCM0330WF1, H1	275	34.5	131	6.1	HFC/HFC/HFC-404A
CCM0430WF1, H1	407	28.8	148	4.6	HFC/HFC/HFC-404A
XWC522, 530	493	16.6	133	5.9	HFC/HFC/HFC-404A
CCM0522WF1, H1	442	23.2	128	4.2	HFC/HFC/HFC-404A
CCM0530WF1, H1	513	24.2	120	4.9	HFC/HFC/HFC-404A
XWC630	589	16.3	116	5.6	HFC/HFC/HFC-404A
CCM0630WF2, H2	576	29.0	148	4.7	HFC/HFC/HFC-404A
XWC830	700	16.3	116	5.6	HFC/HFC/HFC-404A
CCM0830WF2, H2	855	24.8	132	4.0	HFC/HFC/HFC-404A
XWC1030	887	13.2	112.7	5.5	HFC/HFC/HFC-404A
CCM1030WF2, H2	965	25.7	114	4.0	HFC/HFC/HFC-404A
XWC1230	1029	14.6	105	5.2	HFC/HFC/HFC-404A
XWC1444	1374	14.3	149	5.2	HFC/HFC/HFC-404A
XWC1444-3PH	1374	14.3	149	5.2	HFC/HFC/HFC-404A
CCM1448WF2, H2	1239	22.8	122	4.2	HFC/HFC/HFC-404A
CCM1448WF3, H3	1270	22.4	117	4.1	HFC/HFC/HFC-404A
XWC1844-3PH	1455	14.5	155	6.0	HFC/HFC/HFC-404A
XWC1844	1610	14.5	155	6.0	HFC/HFC/HFC-404A
CCM1848WF2, H2	1776	24.1	140	3.6	HFC/HFC/HFC-404A
CCM1848WF3, H3	1662	22.5	125	3.7	HFC/HFC/HFC-404A
CCM2148WF2, H2	1892	24.9	110	4.3	HFC/HFC/HFC-404A
CCM2148WF3, H3	1847	26.5	151	4.3	HFC/HFC/HFC-404A

Model numbers may be followed by a letter "M" (Marine Specifications) or "P" (Correctional Facility Specifications)

For explanation of Footnotes,\* was, +, #, (1), (2), (3) see page 6.

For explanation of "Type," see page 5.

## ARI STANDARD RATINGS FOR AUTOMATIC COMMERCIAL ICE-CUBE MACHINES

Model Designation		Ice Harvest Rate (lb per 24 hr)	Potable Water Use Rate (gal per 100 lb of ice)	Condenser Water Use Rate (gal per 100 lb of ice)	Energy Consumption Rate (kWh per 100 lb of ice)	Refrigerant Type
<b>Type: RCU-A</b>						
Icemaking Head	Condenser					
XRC522, 530	CR500	475	16.6	----	7.0	HFC/HFC/HFC-404A
CCM0530RF1, H1	VRC1001	455	28.2	----	6.8	HFC/HFC/HFC-404A
XRC630	CR800	547	16.3	----	6.9	HFC/HFC/HFC-404A
CCM0630RF2, H2	VRC 1061	502	24.9	----	6.3	HFC/HFC/HFC-404A
XRC830	CR800	666	16.3	----	6.9	HFC/HFC/HFC-404A
CCM0830RF2, H2	VRC 2061	826	20.0	----	5.3	HFC/HFC/HFC-404A
CCM1030RF2, H2	VRC 2061	921	21.8	----	5.4	HFC/HFC/HFC-404A
XRC1230, 1230WH	CR1200	1019	14.6	----	6.5	HFC/HFC/HFC-404A
XRC1444, 1444-3PH	CR1400	1275	14.3	----	6.6	HFC/HFC/HFC-404A
CCM1448RF2, H2	VRC2661	1150	20.3	----	5.0	HFC/HFC/HFC-404A
CCM1448RF3, H3	VRC2661	1195	20.0	----	4.8	HFC/HFC/HFC-404A
CCM1530RF2, H2	VRC2661	1216	19.5	----	4.6	HFC/HFC/HFC-404A
XRC1844, 1844-3PH	CR2400	1581	14.6	----	5.8	HFC/HFC/HFC-404A
CCM1848RF2, H2	ERC4061	1509	20.8	----	4.9	HFC/HFC/HFC-404A
CCM1848RF3, H3	ERC4061	1215	23.0	----	5.5	HFC/HFC/HFC-404A
CCM2148RF2, H2	ERC5061	1714	21.1	----	5.7	HFC/HFC/HFC-404A
CCM2148RF3, H3	ERC5061	1716	21.5	----	5.6	HFC/HFC/HFC-404A
<b>Type: SC-A</b>						
ACS50		38	16.0	----	16.6	HFC-134a
CCU0150AF1, H1		112	34.0	----	11.8	HFC/HFC/HFC-404A
CCU0220AF1, H1		175	30.3	----	8.8	HFC/HFC/HFC-404A
IACS224		150	25.0	----	10.6	HFC/HFC/HFC-404A
IACS227		240	27.0	----	9.8	HFC/HFC/HFC-404A
CCU0300AF1, H1		228	32.9	----	8.6	HFC/HFC/HFC-404A
<b>Type: SC-W</b>						
CCU0150WF1, H1		144	32.2	152	8.0	HFC/HFC/HFC-404A
CCU0220WF1, H1		193	37.1	175	6.6	HFC/HFC/HFC-404A
IWCS224		145	22.0	195	10.5	HFC/HFC/HFC-404A
IWCS227		240	27.0	160	7.6	HFC/HFC/HFC-404A
CCU0300WF1, H1		296	35.6	175	5.7	HFC/HFC/HFC-404A

Model numbers may be followed by a letter "M" (Marine Specifications) or "P" (Correctional Facility Specifications)  
 For explanation of Footnotes,\* was, +, #, (1), (2), (3) see page 6.  
 For explanation of "Type," see page 5.

## ARI STANDARD RATINGS FOR AUTOMATIC COMMERCIAL ICE-CUBE MACHINES

Model Designation	Ice Harvest Rate (lb per 24 hr)	Potable Water Use Rate (gal per 100 lb of ice)	Condenser Water Use Rate (gal per 100 lb of ice)	Energy Consumption Rate (kWh per 100 lb of ice)	Refrigerant Type
<b>Manitowoc Ice, Inc.</b>					
Trade Name: Manitowoc					
<b>Type: IMH-A</b>					
SD-0302A	270	20.0	----	7.7	HFC/HFC/HFC-404A
SY-0304A	270	20.0	----	7.7	HFC/HFC/HFC-404A
SD-0322A	250	18.0	----	6.9	HFC/HFC/HFC-404A
SY-0324A	250	18.0	----	6.9	HFC/HFC/HFC-404A
SD-0422A	320	18.0	----	7.1	HFC/HFC/HFC-404A
SY-0424A	355	18.0	----	6.5	HFC/HFC/HFC-404A
SD-0452A	345	18.0	----	6.6	HFC/HFC/HFC-404A
SY-0454A	365	18.0	----	6.3	HFC/HFC/HFC-404A
SD-0502A	420	18.0	----	5.5	HFC/HFC/HFC-404A
SY-0504A	440	18.0	----	5.4	HFC/HFC/HFC-404A
SD-0602A	540	20.0	----	5.6	HFC/HFC/HFC-404A
SD-0852A	615	18.0	----	6.0	HFC/HFC/HFC-404A
SD-0852A3	615	18.0	----	5.8	HFC/HFC/HFC-404A
SY-0604A	540	20.0	----	5.6	HFC/HFC/HFC-404A
SY-0854A	725	18.0	----	5.3	HFC/HFC/HFC-404A
SY-0854A3	725	18.0	----	5.2	HFC/HFC/HFC-404A
SD-1002A, A3	840	18.0	----	5.5	HFC/HFC/HFC-404A
SY-1004A, A3	840	18.0	----	5.5	HFC/HFC/HFC-404A
SD-1202A	890	19.0	----	5.6	HFC/HFC/HFC-404A
SD-1202A3	890	19.0	----	5.4	HFC/HFC/HFC-404A
SY-1204A	945	20.0	----	5.5	HFC/HFC/HFC-404A
SY-1204A3	945	20.0	----	5.3	HFC/HFC/HFC-404A
SD-1402A, A3	1160	18.0	----	5.3	HFC/HFC/HFC-404A
SY-1404A, A3	1160	18.0	----	5.3	HFC/HFC/HFC-404A
SD-1602A, A3	1370	18.0	----	5.2	HFC/HFC/HFC-404A
SY-1604A, A3	1370	18.0	----	5.2	HFC/HFC/HFC-404A
SD-1802A, A3	1540	18.0	----	5.0	HFC/HFC/HFC-404A
SY-1804A, A3	1540	18.0	----	5.0	HFC/HFC/HFC-404A

**Type: IMH-W**

SD-0303W	290	23.3	170	6.0	HFC/HFC/HFC-404A
SY-0305W	290	23.0	170	6.0	HFC/HFC/HFC-404A
SD-0323W	290	18.0	160	5.4	HFC/HFC/HFC-404A
SY-0325W	290	18.0	160	5.4	HFC/HFC/HFC-404A
SD-0423W	370	18.0	144	5.4	HFC/HFC/HFC-404A
SY-0425W	370	18.0	145	5.1	HFC/HFC/HFC-404A
SD-0453W	385	18.0	138	5.1	HFC/HFC/HFC-404A
SY-0455W	400	18.0	135	5.1	HFC/HFC/HFC-404A
SD-0503W	470	18.0	140	4.4	HFC/HFC/HFC-404A
SY-0505W	485	18.0	150	4.3	HFC/HFC/HFC-404A
SD-0603W	610	20.0	170	4.5	HFC/HFC/HFC-404A
SY-0605W	610	20.0	170	4.5	HFC/HFC/HFC-404A
SD-0853W	740	18.0	145	4.5	HFC/HFC/HFC-404A
SD-0853W3	740	18.0	145	4.5	HFC/HFC/HFC-404A
SY-0855W	810	18.0	140	4.2	HFC/HFC/HFC-404A
SY-0855W3	810	18.0	140	4.2	HFC/HFC/HFC-404A
SD-1003W, W3	955	18.0	160	4.3	HFC/HFC/HFC-404A
SY-1005W, W3	910	18.0	165	4.7	HFC/HFC/HFC-404A

Model numbers may be followed by a letter "M" (Marine Specifications) or "P" (Correctional Facility Specifications)

For explanation of Footnotes,\* was, +, #, (1), (2), (3) see page 6.

For explanation of "Type," see page 5.

## ARI STANDARD RATINGS FOR AUTOMATIC COMMERCIAL ICE-CUBE MACHINES

Model Designation	Ice Harvest Rate (lb per 24 hr)	Potable Water Use Rate (gal per 100 lb of ice)	Condenser Water Use Rate (gal per 100 lb of ice)	Energy Consumption Rate (kWh per 100 lb of ice)	Refrigerant Type	
<b>Type: IMH-W continued</b>						
SY-1005W3	910	18.0	165	4.5	HFC/HFC/HFC-404A	
SD-1203W, W3	1030	20.0	150	4.3	HFC/HFC/HFC-404A	
SY-1205W, W3	1065	20.0	150	4.3	HFC/HFC/HFC-404A	
SD-1403W	1210	18.0	140	4.2	HFC/HFC/HFC-404A	
SD-1403W3	1210	18.0	140	4.1	HFC/HFC/HFC-404A	
SY-1405W, W3	1275	18.0	140	4.1	HFC/HFC/HFC-404A	
SD-1603W, W3	1480	18.0	150	4.2	HFC/HFC/HFC-404A	
SY-1605W, W3	1480	18.0	150	4.2	HFC/HFC/HFC-404A	
SD-1803W, W3	1710	18.0	155	4.0	HFC/HFC/HFC-404A	
QY-1805S	1670	18.0	160	4.0	HFC/HFC/HFC-404A	
QY-1805S3	1670	18.0	160	4.0	HFC/HFC/HFC-404A	
SY-1805W, W3	1710	18.0	155	4.0	HFC/HFC/HFC-404A	
<b>Type: RCU-A</b>						
Icemaking Head	Condenser					
SD-0592N	JC-0495	425	18.0	----	6.1	HFC/HFC/HFC-404A
SY-0594N	JC-0495	450	18.0	----	5.8	HFC/HFC/HFC-404A
IB-0622DC	CVD-0675	570	26.4	----	6.5	HFC/HFC/HFC-404A
IB-0622DC	CVD-06753	570	26.4	----	6.5	HFC/HFC/HFC-404A
IB-0624YC	CVD-0675	570	26.4	----	6.5	HFC/HFC/HFC-404A
IB-0624YC	CVD-06753	570	26.4	----	6.5	HFC/HFC/HFC-404A
SD-0672C	CVD-0675	580	20.0	----	6.1	HFC/HFC/HFC-404A
SD-0672C	CVD-06753	580	20.0	----	6.1	HFC/HFC/HFC-404A
SY-0674C	CVD-0675	580	20.0	----	6.1	HFC/HFC/HFC-404A
SY-0674C	CVD-06753	580	20.0	----	6.1	HFC/HFC/HFC-404A
SD-0692N	JC-0895	570	20.0	----	5.9	HFC/HFC/HFC-404A
SY-0694N	JC-0895	570	20.0	----	5.9	HFC/HFC/HFC-404A
IB-0822DC	CVD-0885	630	18.0	----	5.9	HFC/HFC/HFC-404A
IB-0822DC	CVD-08853	630	18.0	----	5.9	HFC/HFC/HFC-404A
IB-0824YC	CVD-0885	690	18.0	----	5.6	HFC/HFC/HFC-404A
IB-0824YC	CVD-0883	690	18.0	----	5.6	HFC/HFC/HFC-404A
SD-0872C	CVD-0885	600	18.0	----	6.3	HFC/HFC/HFC-404A
SD-0872C	CVD-08853	600	18.0	----	6.2	HFC/HFC/HFC-404A
SY-0874C	CVD-0885	705	18.0	----	5.5	HFC/HFC/HFC-404A
SY-0874C	CVD-08853	705	18.0	----	5.5	HFC/HFC/HFC-404A
SD-0892N	JC-0895	645	18.0	----	5.9	HFC/HFC/HFC-404A
SD-0892N3	JC-0895	645	18.0	----	5.7	HFC/HFC/HFC-404A
SY-0894N	JC-0895	750	18.0	----	5.3	HFC/HFC/HFC-404A
SY-0894N3	JC-0895	750	18.0	----	5.2	HFC/HFC/HFC-404A
IB-1022DC	CVD-1185	890	19.0	----	5.4	HFC/HFC/HFC-404A
IB-1022DC	CVD-11853	890	19.0	----	5.4	HFC/HFC/HFC-404A
IB-1024YC	CVD-1185	890	19.0	----	5.4	HFC/HFC/HFC-404A
IB-1024YC	CVD-11853	890	19.0	----	5.4	HFC/HFC/HFC-404A
SD-1072C	CVD-1085	800	19.0	----	5.1	HFC/HFC/HFC-404A
SD-1072C	CVD-10853	800	19.0	----	5.1	HFC/HFC/HFC-404A
SY-1074C	CVD-1085	850	18.0	----	5.0	HFC/HFC/HFC-404A
SY-1074C	CVD-10853	850	18.0	----	5.0	HFC/HFC/HFC-404A
SD-1092N, N3	JC-0895	870	18.0	----	5.2	HFC/HFC/HFC-404A
SY-1094N, N3	JC-0895	920	18.0	----	5.2	HFC/HFC/HFC-404A
SD-1272C	CVD-1285	975	19.0	----	5.3	HFC/HFC/HFC-404A
SD-1272C	CVD-12853	975	19.0	----	5.2	HFC/HFC/HFC-404A

Model numbers may be followed by a letter "M" (Marine Specifications) or "P" (Correctional Facility Specifications)

For explanation of Footnotes,\* was, +, #, (1), (2), (3) see page 6.

For explanation of "Type," see page 5.

## ARI STANDARD RATINGS FOR AUTOMATIC COMMERCIAL ICE-CUBE MACHINES

Model Designation		Ice Harvest Rate (lb per 24 hr)	Potable Water Use Rate (gal per 100 lb of ice)	Condenser Water Use Rate (gal per 100 lb of ice)	Energy Consumption Rate (kWh per 100 lb of ice)	Refrigerant Type
<b>Type: RCU-A continued</b>						
Icemaking Head	Condenser					
SY-1274C	CVD-1285	1000	19.0	----	5.3	HFC/HFC/HFC-404A
SY-1274C	CVD-12853	1000	19.0	----	5.2	HFC/HFC/HFC-404A
QD-1472C	CVD1475	1200	21.6	----	6.6	HFC/HFC/HFC-404A
QD-1472C	CVD14753	1200	21.6	----	6.4	HFC/HFC/HFC-404A
SD-1472C	CVD1485	1220	18.0	----	4.5	HFC/HFC/HFC-404A
SD-1472C	CVD14853	1220	18.0	----	4.3	HFC/HFC/HFC-404A
QY-1474C	CVD1475	1200	21.6	----	6.6	HFC/HFC/HFC-404A
QY-1474C	CVD14753	1200	21.6	----	6.4	HFC/HFC/HFC-404A
SY-1474C	CVD1485	1235	18.0	----	4.5	HFC/HFC/HFC-404A
SY-1474C	CVD14853	1235	18.0	----	4.3	HFC/HFC/HFC-404A
SD-1492N, N3	JC-1395	1210	18.0	----	4.8	HFC/HFC/HFC-404A
SY-1494N, N3	JC-1395	1210	18.0	----	4.8	HFC/HFC/HFC-404A
SD-1692N, N3	JC1395	1420	18.0	----	4.8	HFC/HFC/HFC-404A
SY-1694N, N3	JC1395	1420	18.0	----	4.8	HFC/HFC/HFC-404A
SD-1872C	CVD1885/ CVD18853	1500	18.0	----	4.5	HFC/HFC/HFC-404A
SD-1872C	CVD1885/ CVD18853	1500	18.0	----	4.5	HFC/HFC/HFC-404A
SY-1874C	CVD1885	1550	18.0	----	4.5	HFC/HFC/HFC-404A
SY-1874C	CVD18853	1550	18.0	----	4.4	HFC/HFC/HFC-404A
SD-1892N, N3	JC-1395	1610	18.0	----	4.7	HFC/HFC/HFC-404A
QY-1894S	JC-1895	1580	18.0	----	5.0	HFC/HFC/HFC-404A
QY-1894S3	JC-1895	1580	18.0	----	5.0	HFC/HFC/HFC-404A
SY-1894N, N3	JC-1395	1610	18.0	----	4.7	HFC/HFC/HFC-404A
SD-2072C	CVD-2075	1850	18.0	----	6.0	HFC/HFC/HFC-404A
SD-2072C	CVD-20753	1850	18.0	----	5.9	HFC/HFC/HFC-404A
SY-2074C	CVD-2075	1945	18.0	----	5.9	HFC/HFC/HFC-404A
SY-2074C	CVD-20753	1945	18.0	----	5.8	HFC/HFC/HFC-404A
<b>Type: RCU-W</b>						
Icemaking Head	Condenser					
QD-1472C	CVD-1476	1230	21.6	161	4.9	HFC/HFC/HFC-404A
QD-1472C	CVD14763	1230	21.6	161	4.6	HFC/HFC/HFC-404A
QY-1474C	CVD-1476	1230	21.6	161	4.9	HFC/HFC/HFC-404A
SD-1472C	CVD1486	1235	20.0	136	3.9	HFC/HFC/HFC-404A
SD-1472C	CVD14863	1235	20.0	136	3.9	HFC/HFC/HFC-404A
QY-1474C	CVD-14763	1230	21.6	161	4.6	HFC/HFC/HFC-404A
SY-1474C	CVD1486	1235	20.0	136	3.9	HFC/HFC/HFC-404A
SY-1474C	CVD14863	1235	20.0	136	3.9	HFC/HFC/HFC-404A
<b>Type: SC-A</b>						
QM-30A		49	38.4	----	20.4	HFC-134a
QM-45A		65	38.6	----	14.9	HFC-134a
QD-0132A		90	38.4	----	16.0	HFC/HFC/HFC-404A
QY-0134A		90	38.4	----	16.0	HFC/HFC/HFC-404A
QD-0212A		155	33.5	----	9.9	HFC/HFC/HFC-404A
QY-0214A		155	33.5	----	9.9	HFC/HFC/HFC-404A
QD-0272A		215	32.4	----	9.0	HFC/HFC/HFC-404A
QY-0274A		215	32.4	----	9.0	HFC/HFC/HFC-404A

Model numbers may be followed by a letter "M" (Marine Specifications) or "P" (Correctional Facility Specifications)  
For explanation of Footnotes,\* was, +, #, (1), (2), (3) see page 6.  
For explanation of "Type," see page 5.

## ARI STANDARD RATINGS FOR AUTOMATIC COMMERCIAL ICE-CUBE MACHINES

Model Designation	Ice Harvest Rate (lb per 24 hr)	Potable Water Use Rate (gal per 100 lb of ice)	Condenser Water Use Rate (gal per 100 lb of ice)	Energy Consumption Rate (kWh per 100 lb of ice)	Refrigerant Type
<b>Type: SC-W</b>					
QD-0133W	123	38.4	187	9.8	HFC/HFC/HFC-404A
QY-0135W	123	38.4	187	9.8	HFC/HFC/HFC-404A
QD-0213W	190	33.5	142	6.8	HFC/HFC/HFC-404A
QY-0215W	190	33.5	142	6.8	HFC/HFC/HFC-404A
QD-0273W	245	32.4	167	7.3	HFC/HFC/HFC-404A
QY-0275W	245	32.4	167	7.3	HFC/HFC/HFC-404A

Model numbers may be followed by a letter "M" (Marine Specifications) or "P" (Correctional Facility Specifications)  
 For explanation of Footnotes,\* was, +, #, (1), (2), (3) see page 6.  
 For explanation of "Type," see page 5.

## ARI STANDARD RATINGS FOR AUTOMATIC COMMERCIAL ICE-CUBE MACHINES

Model Designation	Ice Harvest Rate (lb per 24 hr)	Potable Water Use Rate (gal per 100 lb of ice)	Condenser Water Use Rate (gal per 100 lb of ice)	Energy Consumption Rate (kWh per 100 lb of ice)	Refrigerant Type
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**Mile High Equipment LLC**  
Trade Name: ICE-O-Matic

**Type: IMH-A**

ICE0250FA, HA	253	35.8	----	7.9	HFC/HFC/HFC-404A
ICE0250FT, HT	244	31.3	----	8.1	HFC/HFC/HFC-404A
ICE0320FA, HA	249	26.9	----	8.1	HFC/HFC/HFC-404A
ICE0400FA, HA	368	28.6	----	6.1	HFC/HFC/HFC-404A
ICE0400FT, HT	357	27.8	----	6.3	HFC/HFC/HFC-404A
ICE0500FA, HA	458	24.1	----	6.2	HFC/HFC/HFC-404A
ICE0500FT, HT	452	25.8	----	6.3	HFC/HFC/HFC-404A
ICE0520 FA, HA	370	25.4	----	5.9	HFC/HFC/HFC-404A
ICE0606FA, HA	506	25.2	----	5.9	HFC/HFC/HFC-404A
ICE0606FT, HT	505	25.8	----	6.2	HFC/HFC/HFC-404A
ICE0806FA, HA	698	21.8	----	5.8	HFC/HFC/HFC-404A
ICE1006FA, HA	803	21.3	----	5.7	HFC/HFC/HFC-404A
ICE1007FA, HA	804	21.3	----	5.7	HFC/HFC/HFC-404A
ICE1406FA, HA	1136	19.9	----	5.1	HFC/HFC/HFC-404A
ICE1407FA, HA	1131	19.6	----	5.0	HFC/HFC/HFC-404A

**Type: IMH-W**

ICE0250FW, HW	275	34.5	131	6.1	HFC/HFC/HFC-404A
ICE0320FW, HW	308	27.3	157	5.3	HFC/HFC/HFC-404A
ICE0400FW, HW	407	28.8	148	4.6	HFC/HFC/HFC-404A
ICE0500FW, HW	513	24.2	120	4.9	HFC/HFC/HFC-404A
ICE0520FW, HW	442	23.2	128	4.2	HFC/HFC/HFC-404A
ICE0606FW, HW	576	29.0	148	4.7	HFC/HFC/HFC-404A
ICE0806FW, HW	855	24.8	132	4.0	HFC/HFC/HFC-404A
ICE1006FW, HW	965	25.7	114	4.0	HFC/HFC/HFC-404A
ICE1007FW, HW	951	26.9	111	4.0	HFC/HFC/HFC-404A
ICE1406FW, HW	1239	22.8	122	4.2	HFC/HFC/HFC-404A
ICE1407FW, HW	1270	22.4	117	4.1	HFC/HFC/HFC-404A
ICE1806FW, HW	1776	24.1	140	3.6	HFC/HFC/HFC-404A
ICE1807FW, HW	1662	22.5	125	3.7	HFC/HFC/HFC-404A
ICE2106FW, HW	1892	24.9	110	4.3	HFC/HFC/HFC-404A
ICE2107FW, HW	1847	26.5	151	4.3	HFC/HFC/HFC-404A

**Type: RCU-A**

Icemaking Head	Condenser					
ICE0500FR, HR	VRC1001	455	28.2	----	6.8	HFC/HFC/HFC-404A
ICE0606FR, HR	VRC 1061	502	24.9	----	6.3	HFC/HFC/HFC-404A
ICE0806FR, HR	VRC 2061	826	20.0	----	5.3	HFC/HFC/HFC-404A
ICE1006FR, HR	VRC 2061	921	21.8	----	5.4	HFC/HFC/HFC-404A
ICE1007FR, HR	VRC 2061	765	26.3	----	5.6	HFC/HFC/HFC-404A
ICE1406FR, HR	VRC2661	1150	20.3	----	5.0	HFC/HFC/HFC-404A
ICE1407FR, HR	VRC2661	1195	20.0	----	4.8	HFC/HFC/HFC-404A
ICE1506FR, HR	VRC2661	1216	19.5	----	4.6	HFC/HFC/HFC-404A
ICE1806FR, HR	ERC4061	1509	20.8	----	4.9	HFC/HFC/HFC-404A
ICE1807FR, HR	ERC4061	1215	23.0	----	5.5	HFC/HFC/HFC-404A
ICE2106FR, HR	ERC5061	1714	21.1	----	5.7	HFC/HFC/HFC-404A
ICE2107FR, HR	ERC5061	1716	21.5	----	5.6	HFC/HFC/HFC-404A

For explanation of Footnotes,\* was, +, #, (1), (2), (3) see page 6.  
For explanation of "Type," see page 5.

## ARI STANDARD RATINGS FOR AUTOMATIC COMMERCIAL ICE-CUBE MACHINES

Model Designation	Ice Harvest Rate (lb per 24 hr)	Potable Water Use Rate (gal per 100 lb of ice)	Condenser Water Use Rate (gal per 100 lb of ice)	Energy Consumption Rate (kWh per 100 lb of ice)	Refrigerant Type
<b>Type: SC-A</b>					
ICEU060A	54	49.0	----	17.3	HFC-134a
ICEU060AB	66	37.0	----	13.5	HFC/HFC/HFC-404A
ICEU150FA, HA	112	34.0	----	11.8	HFC/HFC/HFC-404A
ICEU220FA, HA	175	30.3	----	8.8	HFC/HFC/HFC-404A
ICEU300FA, HA	228	32.9	----	8.6	HFC/HFC/HFC-404A
<b>Type: SC-W</b>					
ICEU150FW, HW	144	32.2	152	8.0	HFC/HFC/HFC-404A
ICEU220FW, HW	193	37.1	175	6.6	HFC/HFC/HFC-404A
ICEU300FW, HW	296	35.6	175	5.7	HFC/HFC/HFC-404A

For explanation of Footnotes;\* was, +, #, (1), (2), (3) see page 6.  
 For explanation of "Type," see page 5.

## ARI STANDARD RATINGS FOR AUTOMATIC COMMERCIAL ICE-CUBE MACHINES

Model Designation	Ice Harvest Rate (lb per 24 hr)	Potable Water Use Rate (gal per 100 lb of ice)	Condenser Water Use Rate (gal per 100 lb of ice)	Energy Consumption Rate (kWh per 100 lb of ice)	Refrigerant Type
-------------------	---------------------------------	--	--	---	------------------

## Scotsman Ice Systems

Trade Name: Scotsman

## Type: IMH-A

CME256A+-1#, 32#	240	27.0	----	9.5	HFC/HFC/HFC-404A
CME306A+-1#, 32#	260	20.0	----	8.7	HFC/HFC/HFC-404A
C0322MA-1#, -32#	255	19.0	----	6.6	HFC/HFC/HFC-404A
C0322SA-1#, -32#	255	19.0	----	6.6	HFC/HFC/HFC-404A
C0330MA-1#, -32#	280	19.0	----	6.0	HFC/HFC/HFC-404A
C0330SA-1#, -32#	280	19.0	----	6.0	HFC/HFC/HFC-404A
CME456A+-1#, 32#	400	17.5	----	7.4	HFC/HFC/HFC-404A
CME506A+-1#, 32#	410	23.0	----	7.4	HFC/HFC/HFC-404A
C0522MA-1#, -32#	380	18.5	----	6.7	HFC/HFC/HFC-404A
C0522SA-1#, -32#	380	18.5	----	6.7	HFC/HFC/HFC-404A
C0530MA-1#, -32#	400	18.8	----	6.4	HFC/HFC/HFC-404A
C0530SA-1#, -32#	400	18.8	----	6.4	HFC/HFC/HFC-404A
C0630MA-32#	528	19.1	----	6.0	HFC/HFC/HFC-404A
C0630SA-32#	528	19.1	----	6.0	HFC/HFC/HFC-404A
CME656A+-32#, 3#	555	24.0	----	6.6	HFC/HFC/HFC-404A
CME806A+-32#, 3#	630	24.0	----	7.2	HFC/HFC/HFC-404A
C0830MA-3#, -32#	724	19.3	----	4.9	HFC/HFC/HFC-404A
C0830SA-3#, -32#	724	19.3	----	4.9	HFC/HFC/HFC-404A
C1030MA-3#, -32#	844	18.4	----	5.0	HFC/HFC/HFC-404A
C1030SA-3#, -32#	844	18.4	----	5.0	HFC/HFC/HFC-404A
CME1056A+-32#, 3#	800	18.0	----	6.1	HFC/HFC/HFC-404A
CME1356A+-32#	1145	19.5	----	6.3	HFC/HFC/HFC-404A
CME1356A+-3#	1160	20.0	----	6.0	HFC/HFC/HFC-404A
C1448MA-3#, -32#	1242	18.5	----	4.6	HFC/HFC/HFC-404A
C1448SA-3#, -32#	1242	18.5	----	4.6	HFC/HFC/HFC-404A
CME1656A+-32#	1250	18.0	----	6.0	HFC/HFC/HFC-404A
CME1656A+-3#	1250	18.5	----	5.9	HFC/HFC/HFC-404A
C1848MA-3#, -32#	1527	19.3	----	4.9	HFC/HFC/HFC-404A
C1848SA-3#, -32#	1527	19.3	----	4.9	HFC/HFC/HFC-404A

## Type: IMH-W

CME256W+-1#	250	25.0	190	7.7	HFC/HFC/HFC-404A
CME306W+-1#	295	20.4	174	7.1	HFC/HFC/HFC-404A
C0322MW-1#, -32#	329	18.3	138	4.7	HFC/HFC/HFC-404A
C0322SW-1#, -32#	329	18.3	138	4.7	HFC/HFC/HFC-404A
C0330MW-1#, -32#	280	18.5	163	5.2	HFC/HFC/HFC-404A
C0330SW-1#, -32#	280	18.5	163	5.2	HFC/HFC/HFC-404A
CME456W+-1#	454	17.9	144	6.0	HFC/HFC/HFC-404A
C0530MW-1#, -32#	480	18.4	160	4.7	HFC/HFC/HFC-404A
C0530SW-1#, -32#	480	18.4	160	4.7	HFC/HFC/HFC-404A
C0630MW-32#	650	18.6	173	4.1	HFC/HFC/HFC-404A
C0630SW-32#	650	18.6	173	4.1	HFC/HFC/HFC-404A
CME656W+-32#, 3#	560	26.0	130	6.0	HFC/HFC/HFC-404A
CME806W+-32#, 3#	670	22.0	155	6.0	HFC/HFC/HFC-404A
C0830MW-3#, -32#	832	18.9	136	4.0	HFC/HFC/HFC-404A
C0830SW-3#, -32#	832	18.9	136	4.0	HFC/HFC/HFC-404A

For explanation of Footnotes,\* was, +, #, (1), (2), (3) see page 6.

For explanation of "Type," see page 5.

## ARI STANDARD RATINGS FOR AUTOMATIC COMMERCIAL ICE-CUBE MACHINES

Model Designation	Ice Harvest Rate (lb per 24 hr)	Potable Water Use Rate (gal per 100 lb of ice)	Condenser Water Use Rate (gal per 100 lb of ice)	Energy Consumption Rate (kWh per 100 lb of ice)	Refrigerant Type
<b>Type: IMH-W continued</b>					
C1030MW-3#, -32#	908	19.7	153	4.0	HFC/HFC/HFC-404A
C1030SW-3#, -32#	908	19.7	153	4.0	HFC/HFC/HFC-404A
CME1056W+-32#, 3#	820	16.8	140	5.1	HFC/HFC/HFC-404A
CME1356W+-32#, 3#	1275	19.1	147	5.0	HFC/HFC/HFC-404A
C1448MW-3#, -32#	1300	18.3	130	3.7	HFC/HFC/HFC-404A
C1448SW-3#, -32#	1300	18.3	130	3.7	HFC/HFC/HFC-404A
CME1656W+-32#, 3#	1440	18.0	143	4.7	HFC/HFC/HFC-404A
C1848MW-3#, -32#	1710	18.0	151	3.7	HFC/HFC/HFC-404A
C1848SW-3#, -32#	1710	18.0	151	3.7	HFC/HFC/HFC-404A
CME1856W+-32#	1695	19.0	160	5.2	HFC/HFC/HFC-404A
CME1856W+-3#	1695	19.0	150	5.1	HFC/HFC/HFC-404A
C2148MW-3#, -32#	1804	17.7	154	3.9	HFC/HFC/HFC-404A
C2148SW-3#, -32#	1804	17.7	154	3.9	HFC/HFC/HFC-404A
<b>Type: RCU-A</b>					
Icemaking Head					
EH430ML-1#	Condenser C1410CP-32#, 3# ERC1086-32#	1200	18.5	----	4.7 HFC/HFC/HFC-404A
EH430ML-1#	C1800CP-32#, 3# ERC2086-32#	1567	17.6	----	4.6 HFC/HFC/HFC-404A
EH430ML-1#	C2000CP-32#, 3# ERC2086-32#	1767	17.4	----	5.0 HFC/HFC/HFC-404A
EH430SL-1#	C1410CP-32#, 3# ERC1086-32#	1200	18.5	----	4.7 HFC/HFC/HFC-404A
EH430SL-1#	C1800CP-32#, 3# ERC2086-32#	1567	17.6	----	4.6 HFC/HFC/HFC-404A
EH430SL-1#	C2000CP-32#, 3# ERC2086-32#	1767	17.4	----	5.0 HFC/HFC/HFC-404A
CME456R+-1#	ERC111-1#	440	18.0	----	7.5 HFC/HFC/HFC-404A
CME456R+-1#	ERC211-1#	440	18.0	----	7.5 HFC/HFC/HFC-404A
CME506R+-1#	ERC101-1#	400	28.0	----	8.8 HFC/HFC/HFC-404A
C0522MR-1#	ERC111-1#	465	18.2	----	6.5 HFC/HFC/HFC-404A
C0522SR-1#	ERC111-1#	465	18.2	----	6.5 HFC/HFC/HFC-404A
C0530MR-1#	ERC111-1#	460	18.2	----	6.3 HFC/HFC/HFC-404A
C0530SR-1#	ERC111-1#	460	18.2	----	6.3 HFC/HFC/HFC-404A
C0630MR-32#	ERC311-32#	616	18.7	----	5.8 HFC/HFC/HFC-404A
C0630SR-32#	ERC311-32#	616	18.7	----	5.8 HFC/HFC/HFC-404A
CME656R+-32#, 3#	ERC201-32#	550	28.0	----	7.6 HFC/HFC/HFC-404A
CME686RLS-1#	CP686-32#, 3# ERC680-32#	550	17.0	----	6.2 HFC/HFC/HFC-404A
CME686RLS-1#	CP686-32#, -3# ER2C6810-32#	550	17.0	----	6.2 HFC/HFC/HFC-404A
CME806R+-32#, 3#	ERC201-32#	670	24.0	----	7.8 HFC/HFC/HFC-404A
CME810RL+-1#	CP886-32#, 3# ERC680-32#	680	17.0	----	6.4 HFC/HFC/HFC-404A
CME810RL+-1#	CP1086-32#, 3# ERC1086-32#	840	17.5	----	6.8 HFC/HFC/HFC-404A
CME810RLS-1#	CP886-32#, -3# ER2C6810-32#	680	17.0	----	6.4 HFC/HFC/HFC-404A

For explanation of Footnotes,\* was, +, #, (1), (2), (3) see page 6.  
For explanation of "Type," see page 5.

## ARI STANDARD RATINGS FOR AUTOMATIC COMMERCIAL ICE-CUBE MACHINES

Model Designation	Ice Harvest Rate (lb per 24 hr)	Potable Water Use Rate (gal per 100 lb of ice)	Condenser Water Use Rate (gal per 100 lb of ice)	Energy Consumption Rate (kWh per 100 lb of ice)	Refrigerant Type
<b>Type: RCU-A continued</b>					
CME810RLS-1#	CP1086-32#, -3# ER2C6810-32#	840	17.5	----	6.8 HFC/HFC/HFC-404A
C0830MR-3#, -32#	ERC311-32#	780	18.4	----	4.7 HFC/HFC/HFC-404A
C0830SR-3#, -32#	ERC311-32#	780	18.4	----	4.7 HFC/HFC/HFC-404A
CME810RLS-1#	CP886-32#, -3# ER2C6810-32#	680	17.0	----	6.4 HFC/HFC/HFC-404A
C1030MR-3#, -32#	ERC311-32#	851	18.2	----	5.0 HFC/HFC/HFC-404A
C1030SR-3#, -32#	ERC311-32#	851	18.2	----	5.0 HFC/HFC/HFC-404A
CME1056R+-32#, 3#	ERC311-32#	820	17.9	----	6.0 HFC/HFC/HFC-404A
C1030SR-3#, -32#	ERC311-32#	851	18.2	----	5.0 HFC/HFC/HFC-404A
CME1056R+-32#, 3#	ERC311-32#	820	17.9	----	6.0 HFC/HFC/HFC-404A
CME1356R+-32#, 3#	ERC411-32#	1260	20.0	----	5.5 HFC/HFC/HFC-404A
CME1386RLS-1#	CP1316-32#, 3# ERC1086-32#	1237	18.2	----	5.6 HFC/HFC/HFC-404A
CME1386RLS-1#	CP1316-32#, -3# ER2C1316-32#	1237	18.2	----	5.6 HFC/HFC/HFC-404A
C1448MR-3#, -32#	ERC311-32#	1221	18.7	----	4.8 HFC/HFC/HFC-404A
C1448SR-3#, -32#	ERC311-32#	1221	18.7	----	4.8 HFC/HFC/HFC-404A
CME1656R+-32#, 3#	ERC411-32#	1400	18.0	----	5.2 HFC/HFC/HFC-404A
CME1686RLS-1#	CP1316-32#, 3# ERC1086-32#	1371	18.1	----	5.3 HFC/HFC/HFC-404A
CME1686RLS-1#	CP1316-32#, -3# ER2C1316-32#	1371	18.1	----	5.3 HFC/HFC/HFC-404A
C1848MR-3#, -32#	ERC611-32#	1645	17.9	----	4.3 HFC/HFC/HFC-404A
C1848SR-3#, -32#	ERC611-32#	1645	17.9	----	4.3 HFC/HFC/HFC-404A
CME2006R+-32#, 3#	ERC611-32#	1740	19.0	----	5.8 HFC/HFC/HFC-404A
CME2086RLS-1#	CP2086-32#, 3# ERC2086-32#	1795	16.8	----	6.0 HFC/HFC/HFC-404A
C2148MR-3#, -32#	ERC611-32#	1849	18.2	----	4.9 HFC/HFC/HFC-404A
C2148SR-3#, -32#	ERC611-32#	1849	18.2	----	4.9 HFC/HFC/HFC-404A
<b>Type: RCU-W</b>					
Icemaking Head	Compressor / Condenser				
CME686RLS-1#	CP686-32#, 3# RWECLIPSE	561	17.3	111	5.3 HFC/HFC/HFC-404A
CME810RLS-1#	CP886-#32, #3 RWECLIPSE	692	16.7	129	5.7 HFC/HFC/HFC-404A
CME810RLS-1#	CP1086-32#, 3# RWECLIPSE	817	16.9	137	6.4 HFC/HFC/HFC-404A
CME1386RLS-1#	CP1316-32#, 3# RWECLIPSE	1237	18.2	131	5.0 HFC/HFC/HFC-404A
CME1686RLS-1#	CP1316-32#, 3# RWECLIPSE	1426	18.1	136	4.7 HFC/HFC/HFC-404A
CME2086RLS-1#	CP2086-3#, 32# RWECLIPSE	1749	17.1	145	5.7 HFC/HFC/HFC-404A

For explanation of Footnotes,\* was, +, #, (1), (2), (3) see page 6.  
For explanation of "Type," see page 5.

## ARI STANDARD RATINGS FOR AUTOMATIC COMMERCIAL ICE-CUBE MACHINES

Model Designation	Ice Harvest Rate (lb per 24 hr)	Potable Water Use Rate (gal per 100 lb of ice)	Condenser Water Use Rate (gal per 100 lb of ice)	Energy Consumption Rate (kWh per 100 lb of ice)	Refrigerant Type
<b>Type: SC-A</b>					
CSE60A+-1#	54	49.0	----	17.3	HFC-134a
SCE170A-1#	110	50.0	----	12.8	HFC/HFC/HFC-404A
SCE275A-1#, 32#	220	29.0	----	11.4	HFC/HFC/HFC-404A
CU0515GA-1A	66	37	----	13.5	HFC/HFC/HFC-404A
<b>Type: SC-W</b>					
SCE170W-1#	142	55.5	210	9.5	HFC/HFC/HFC-404A
SCE275W-1#	264	28.0	240	8.2	HFC/HFC/HFC-404A

For explanation of Footnotes,\* was, +, #, (1), (2), (3) see page 6.  
 For explanation of "Type," see page 5.

## TRADE OR BRAND NAME INDEX

*Trade or Brand Name*

Cornelius  
Hoshizaki  
ICE-O-Matic  
Manitowoc  
Scotsman

*Company*

IMI Cornelius, Inc.  
Hoshizaki America, Inc.  
Mile High Equipment LLC  
Manitowoc Ice Inc.  
Scotsman Ice Systems

## Part II: Ice Storage Bins Scope of Program

### A. Standard

The program references the current issue of ARI Standard 820 for ICE STORAGE BINS.

Certification by manufacturers of ice-storage bins under this standard requires that manufacturer's certified ratings are established at the Standard Rating Conditions indicated in ARI Standard 820.

### B. Equipment Covered

All factory-made ice-storage bins, as defined in ARI Standard 820, are included in this Program.

An ice storage bin is a factory-made assembly (not necessarily shipped in one package) which consists of a non-refrigerated compartment for storage of ice.

### C. Basis of Participation

Participation in this Program, by contract between each participating manufacturer and ARI, consists of:

1. Certification by the manufacturer to ARI that his models comply with ARI Standard 820.
2. Participation by the manufacturer in the in the random testing program, at an independent testing laboratory under contract to ARI. Representatives of the laboratory select units for test from manufacturer's inventories.

### D. Evidence of Certification

The participating manufacturer may indicate his participation in the certification program in the following ways:

1. Display of the Certification Symbol on all units of certified models.
2. The Certification Symbol, with the statement "Certified in accordance with

the ARI Ice Storage Bins Certification Program, which is based on ARI Standard 820.", shall be displayed on all specification sheets, and also, if ratings are mentioned, on other literature and advertising.

3. Distribution of the Directory carrying the name of each participating manufacturer and a list of his certified models, together with their certified ratings.

### THE SYMBOL

The Certification Symbol, as required to cover the governing Standard, is illustrated below:



This Symbol has been registered with the United States Patent Office. The symbol may not be reproduced or copied except by permission of ARI. The Symbol may be displayed on qualified unit in the form of a label obtained from ARI, or may be an integral part of the nameplate.

### THE DIRECTORY

The Directory lists the names, addresses and trade names of the participating manufacturers and their certified products.

### STANDARD CAPACITY RATING DEFINITIONS

*Standard Rating.* A *Standard Rating* is a rating based on tests performed at Standard Rating Conditions set forth in ARI Standard 820. Standard Ratings shall include the theoretical storage capacity of the ice storage bin.

The theoretical storage capacity of the ice storage bin shall be expressed in lb [kg] and is determined by using the bin's internal volume multiplied by 80% multiplied by 30 lb/ft<sup>3</sup> [481 kg/m<sup>3</sup>].

The theoretical storage capacity shall be expressed in multiples of 10 lb [4.5 kg]. The Standard Rating is a theoretical storage capacity. The exact capacity of a specific bin depends, among other things, on the actual density of the ice and the actual distribution of the ice within the bin.

#### **APPLICATION RATINGS**

Ratings at conditions other than at Standard Rating Conditions may be published as application ratings, and shall be based on data determined by the methods of testing prescribed in ARI Standard 820.

Wherever application ratings are published or printed, they shall be accompanied by the Standard Rating, clearly designated as such, including a statement of the conditions at which the ratings apply.

#### **FAILURE TO COMPLY WITH PROVISIONS OF THE PROGRAM**

If it is demonstrated that a manufacturer has misrepresented the ratings or other requirements of the ARI Standard and has failed to make proper correction, the right to use the Symbol will be withdrawn, not only for the specific model concerned, but for all models produced by that manufacturer, and the manufacturer's name and listing will be removed from the Directory.

#### **TOLERANCES**

To comply with these standards, published ratings shall be based on data obtained in accordance with the provisions of ARI Standard 820, and shall be such that any production unit, when tested will have a theoretical storage capacity no lower than its published rating.

ARI STANDARD RATINGS FOR ICE STORAGE BINS  
 Model Designation Capacity  
 (lbs)

ARI STANDARD RATINGS FOR ICE STORAGE BINS  
 Model Designation Capacity  
 (lbs)

### Hoshizaki America, Inc.

Trade Name: Hoshizaki

DB-130C	90
DB-130H	90
DB-200C	140
DB-200H	140
B-250	230
B-300	260
B-500	360
B-700	550
B-800	600
B-900	660

### IMI Cornelius, Inc.

Trade Name: Cornelius

IACS227	75
IWCS227	75
IACS224	77
IWCS224	77
B122AP	90
CHD22P1	120
CHD22P5	120
B230AP	120
DPP230	160
CHD30P1	180
CHD30C1	180
CHD30P5	180
B322AP	260
B300SS	260
B430AP	290
B530AP	360
B530SS	400
B842P,SS	580
B1048P,SS	670

### Manitowoc Ice, Inc.

Trade Name: Manitowoc

QM-030A	30
QM-045A	30
QD-0132A, 133W	80
QY-0134A, 0135W	80
QD-0212A, 0213W	80
QY-0214A, 0215W	80
QD-0272A, 0273W	100
QY-0274A, 0275W	100
SPA160	120
SRA164	120
SCA163	120
SFA191	120
B170	150
SFA291	180
SPA310	180
SRA340	180
SCA330	180
B320	210
B400	290
B420	310
B-570	430
C730	560
B970	710



**TRADE OR BRAND NAME INDEX***Trade or Brand Name*

Cornelius  
Hoshizaki  
Ice-O-Matic  
Manitowoc  
Scotsman

*Company*

IMI Cornelius, Inc.  
Hoshizaki America, Inc.  
Mile High Equipment LLC  
Manitowoc Ice Inc.  
Scotsman Ice Systems

## ARI EDUCATION AND TRAINING PUBLICATIONS

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**Computerized Test Generator.** Win PH Custom Test. Windows-based, has edit and print functions. Test questions for all chapters. (ISBN 0-13-110/93-5).

**ARI Curriculum Guide.** Guide for HVACR teachers who train students to become entry-level service, installation maintenance technicians. Lists technical competencies and areas of study. 135 pages. *Price: \$25.00 (prepaid).*

**Career Opportunities in Heating, Air Conditioning and Refrigeration.** Career pamphlet (8 pages). Describes job opportunities, education and training required for a career in the HVACR industry. *Free single copy. Additional copies \$0.25 each.*

**Study Guide for Refrigerant Containment Section 608 Clean Air Act.** Manual designed as a study guide for ARI's EPA-approved certification test. The manual includes 20 sample questions, 200 focused study questions, and text on Types 1-3 certification and specific information dealing with the content of the EPA exam. *Price: \$15.00 prepaid.*

**Cool Careers.** Seven minute video illustrating career options in the HVACR field. Can be customized to display your organization(s) name/address, etc. *Prices: Non customized video: \$38.00. Customized video: \$375.00 to \$400.00. Prices include shipping.*

**Target a Successful Career.** Brochure designed to attract individuals into the HVACR and Plumbing Industry. Free single copy. Additional copies \$0.15 each.

**Establishing an HVACR Program in Your School** – This How-to Guide provides a framework for implementing a local school HVACR program which adheres to PAHRA (Partnership for Air-Conditioning, Heating, Refrigeration Accreditation) standards. It includes sample curriculum and equipment lists. Single copy no charge.

### Ordering Information

Except for the Textbook, Textbook Supplements, all orders should be mailed to:

ARI, attn: Education Department  
4100 N. Fairfax Drive, Suite 200; Arlington, VA 22203

*Prices subject to change without notice.*

*\*All orders under \$100 must include payment*

### **ARI's web site**

Using your Internet service provider, enter the World Wide Web, using a browser such as Netscape or Microsoft Explorer.

Web address: **<http://www.ari.org>**

E-mail address: [ari@ari.org](mailto:ari@ari.org)

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*If you have questions or need more information, please contact:*

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