

# Commercial Ice-Cube Machine Specifications

CEE's high-efficiency specifications are updated periodically. See the CEE Web site ([www.cee1.org](http://www.cee1.org)) for the most recent version.

For Terms and Usage of these specifications, please see [www.cee1.org/terms.php3](http://www.cee1.org/terms.php3)

## Air-Cooled Ice Cube Machines Efficiency Specifications (effective 01/01/2006)

Equipment Type	Harvest Rate (lbs ice/day)	Tier <sup>1</sup>	Corresponding Base Specification	Energy Use Limit (kWh/100lbs Ice)	Potable Water Use Limit <sup>2</sup> (gal./100lbs Ice)
Ice-Making Head	<450	1	Approximately FEMP	10.26 – 0.0086H	-----
		2	10% below Tier 1	9.23 - 0.0077H	≤25
		3	15% below Tier 1	8.72 - 0.0073H	≤20
	≥450	1	Approximately FEMP	6.89 - 0.0011H	-----
		2	10% below Tier 1	6.20 - 0.0010H	≤25
		3	15% below Tier 1	5.86 - 0.0009H	≤20
Remote-Condensing without remote compressor	<1000	1	Approximately FEMP	8.85 - 0.0038H	-----
		2	9% below Tier 1 <sup>1</sup>	8.05 - 0.0035H	≤25
		3	15% below Tier 1	7.52 - 0.0032H	≤20
	≥1000	1	Approximately FEMP	5.10	-----
		2	9% below Tier 1 <sup>1</sup>	4.64	≤25
		3	15% below Tier 1	4.34	≤20
Remote-Condensing with remote compressor	<934	1	Approximately FEMP	8.85 - 0.0038H	-----
		2	9% below Tier 1 <sup>1</sup>	8.05 - 0.0035H	≤25
		3	15% below Tier 1	7.52 - 0.0032H	≤20
	≥934	1	Approximately FEMP	5.30	-----
		2	9% below Tier 1 <sup>1</sup>	4.82	≤25
		3	15% below Tier 1	4.51	≤20
Self-Contained	<175	1	Approximately FEMP	18.0 - 0.0469H	-----
		2	7% below Tier 1 <sup>1</sup>	16.7 - 0.0436H	≤35
		3	15% below Tier 1	15.3 - 0.0399H	≤30
	≥175	1	Approximately FEMP	9.80	-----
		2	7% below Tier 1 <sup>1</sup>	9.11	≤35 <sup>2</sup>
		3	15% below Tier 1	8.33	≤30 <sup>2</sup>

\*Federal Energy Management Program specification

H = Ice Harvest Rate (lbs ice/day)  
Test Method ARI 810-2003

<sup>1</sup> Tier 1, Tier 2 and Tier 3 will remain in effect until Dec. 31, 2007. Starting January 1, 2008 Tier 2 will be 10% more energy efficient than Tier 1 for all equipment types. In 2007, all Tiers will be reviewed and additional changes may be proposed for use in 2008-2009.

<sup>2</sup> Potable Water Use Limits will remain in effect until December 31, 2007. Starting January 1, 2008 limits for Self-Contained Units will move to ≤30 (Tier 2) and ≤25 (Tier 3).

# Commercial Ice-Cube Machine Specifications

## Water-Cooled Ice Cube Machines Efficiency Specifications (effective 01/01/2006)

CEE's high-efficiency specifications are updated periodically. See the CEE Web site ([www.cee1.org](http://www.cee1.org)) for the most recent version. For Terms and Usage of these specifications, please see [www.cee1.org/terms.php3](http://www.cee1.org/terms.php3)

**This specification is valid only for water-cooled ice machines using a closed loop system or a system with a remote evaporative condenser, i.e. cooling tower. Once-through or pass through cooling systems are not promoted in this specification.**

Equipment Type	Harvest Rate (lbs ice/day)	Tier <sup>3</sup>	Corresponding Base Specification	Energy Use Limit (kWh/100lbs Ice)	Potable Water Use Limit <sup>4</sup> (gal/100lbs Ice)	Condenser Use Limit (gal/100lbs Ice)
Ice-Making Head	<500	1	Approximately FEMP	7.80 – 0.0055H	-----	200 - 0.022H
		2	10% below Tier 1	7.02 – 0.005H	≤25	See Footnote <sup>5</sup>
		3	15% below Tier 1	6.63 – 0.0047H	≤20	See Footnote <sup>3</sup>
	≥500	1	Approximately FEMP	5.58 – 0.0011H	-----	200 - 0.022H
		2	8% below Tier 1 <sup>1</sup>	5.13 – 0.0010H	≤25	See Footnote <sup>3</sup>
		3	15% below Tier 1	4.74 – 0.0009H	≤20	See Footnote <sup>3</sup>
	≥1436	1	Approximately FEMP	4.0	-----	200 - 0.022H
		2	8% below Tier 1 <sup>1</sup>	3.7	≤25	See Footnote <sup>3</sup>
		3	15% below Tier 1	3.4	≤20	See Footnote <sup>3</sup>
Self-Contained	<200	1	Approximately FEMP	11.4 – 0.0190H	-----	191 – 0.0315H
		2	7% below Tier 1 <sup>1</sup>	10.6 – 0.0177H	≤35	See Footnote <sup>3</sup>
		3	15% below Tier 1	9.69 – 0.0162H	≤30	See Footnote <sup>3</sup>
	≥200	1	Approximately FEMP	7.6	-----	191 – 0.0315H
		2	7% below Tier 1 <sup>1</sup>	7.07	≤35 <sup>2</sup>	See Footnote <sup>3</sup>
		3	15% below Tier 1	6.46	≤30 <sup>2</sup>	See Footnote <sup>3</sup>

\*Federal Energy Management Program specification

H = Ice Harvest Rate (lbs ice/day)  
Test Method ARI 810-2003

<sup>3</sup> Tier 1, Tier 2 and Tier 3 will remain in effect until Dec. 31, 2007. Starting January 1, 2008 Tier 2 will be 10% more energy efficient than Tier 1 for all equipment types.

<sup>4</sup> Potable Water Use Limits will remain in effect until December 31, 2007. Starting January 1, 2008 limits for Self-Contained Units will move to ≤30 (Tier 2) and ≤25 (Tier 3). In 2007, all Tiers will be reviewed and additional changes may be proposed for use in 2008-2009.

<sup>5</sup> Condenser use is no longer limited since this specification only promotes water-cooled machines installed on a closed loop or remote evaporative condenser system.