

# **Q-Model Series 450 Ice Cube Machine**



*Q-Model Series 450  
Ice Machine on S-400 Bin*

- *Up to 530\* lbs. (241 kgs.) daily ice production*
- *Stackable, double daily ice production, 1,060\* lbs. (482 kgs.)*  
\*Production rating outside the scope of ARI Standard 820.
- *Only 30" (76.2 cm) wide*
- *Stainless steel exterior with the fit and finish of an appliance*
- *Rugged, corrosion-free base*
- *Patented cleaning and sanitizing technology*
- *New batch water system delivers better ice cube formation*
- *R-404A CFC-free refrigerant*
- *Warranty*
  - *5-year parts and 5-year labor coverage on ice machine evaporator*
  - *5-year parts and 3-year labor coverage on ice machine compressor*
  - *3 year parts-and-labor coverage on all other ice machine, dispenser, and storage bin components*



**ISO 9001  
Quality  
System  
Certified**

**THE RIGHT CLIMATE FOR LEADERSHIP**

**Manitowoc®**


ICE CUBE MACHINES • ICE STORAGE BINS

# Manitowoc Q-Model 450 Series

A seamless blend of thoughtful design, new technology and rugged construction.

Model	Cube size	Ice production 24 hours		Power kWh/100 lbs.
		lbs.	kgs.	
QR-0450A	regular	355	161	7.7
QR-0451W	regular	410	186	5.9
QD-0452A	dice	380	173	7.2
QD-0453W	dice	440	200	5.5
QY-0454A	half-dice	380	173	7.2
QY-0455W	half-dice	440	200	5.5
<b>REMOTE AIR-COOLED WITH JC-0495A CONDENSER</b>				
QR-0490N	regular	390	177	7.9
QD-0492N	dice	420	191	7.3
QY-0494N	half-dice	420	191	7.3
Water usage/100 lbs./45.4 kgs. of Ice				
Potable Water: 26.4 gallons, 99.93 liters • Water-cooled Condenser: 177 gallons, 670 liters				

Order ice storage bin separately. "A" or "W" following model number indicates "Air" or "Water" condensing unit. Ice storage bin and JC-0495A remote condenser must be ordered separately. Consult remote condenser specification sheet for details.

 Certified in Accordance with ARI Automatic Commercial Ice-Cube Machines (Batch-Type) Certification Program, which is based on ARI Standard 810

## Ice Machine Electric

115/60/1 standard. (208-230/60/1 also available. For 230/50/1 see 50 cycle literature.) Remote only available in 115/60/1.

**Minimum circuit ampacity:** Air-cooled — 12.8 amps. Water-cooled — 11.9 amps. Remote — 13.6 amps.

**Maximum fuse size:** Air and Water-cooled — 20 amps.

HACR-type circuit breakers can be used in place of fuses.

### Specifications

#### BTU Per Hour:

7,000 (average) 9,600 (peak)

#### Compressor:

Nominal rating: 3/4 HP

#### Cupra-Nickel Condenser:

(Water-cooled models)  
Adds protection from corrosive water elements.

#### Operating Limits:

• **Ambient Temperature Range:**  
Air and water:  
35°-110°F (1.7°-43.3°C)  
Remote: -20°-120°F (-29°-49°C)

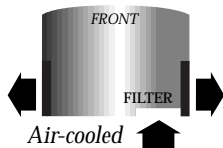
• **Water Temperature Range:**  
33°-90°F (0.6°-32.2°C)

• **Water Pressure Ice Maker Water In:**  
Min. 20 psi (137.9 kPa)  
Max. 80 psi (551.1 kPa)

• **Condenser Inlet Water In:**  
(Water cooled only)  
Min. 20 psi (137.9 kPa)  
Max. 150 psi (1,034.2 kPa)



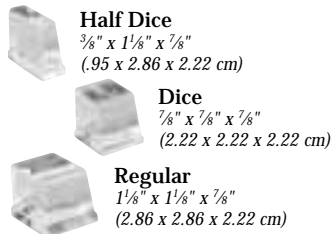
### Air Flow Top View



### AuCS® Accessory



### 3 Cube Sizes Available



24-HOUR PRODUCTION ↑										lbs./kgs.		
AIR-COOLED UNIT				WATER-COOLED UNIT				REMOTE AIR-COOLED UNIT				
air temp	water temp			air temp	water temp			air temp	water temp			
°F	50°	70°	90°	°F	50°	70°	90°	°F	50°	70°	90°	
°C	10°	21°	32°	°C	10°	21°	32°	°C	10°	21°	32°	
70°	530	480	440	70°	520	460	420	-20° to 70°	490	440	400	
21°	241	218	200	21°	236	209	191	-29° to 21°	222	200	182	
80°	480	430	400	80°	510	450	410	90°	470	420	380	
27°	218	195	182	27°	232	204	186	32°	213	191	173	
90°	430	380	350	90°	500	440	400	100°	440	390	350	
32°	195	173	159	32°	227	200	182	38°	200	177	159	

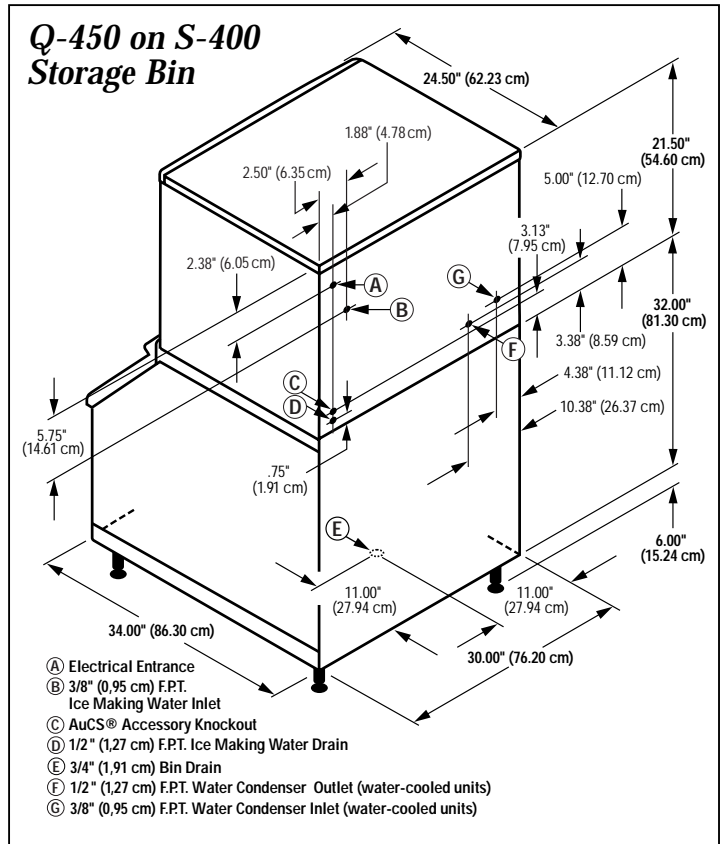
†Production for Dice and Half Dice cubes. Regular cube is 7% less than chart and kWh/100 lbs. increases 7%.

### Space-Saving Designs



	Q-450 S-400	Q-450 S-570
Height	59.50" 151.13 cm	71.50" 181.61 cm
Width	30.00" 76.20 cm	30.00" 76.20 cm
Depth	34.00" 86.30 cm	34.00" 86.30 cm
Bin Storage	290 lbs. 131.7 kgs.	430 lbs. 195.2 kgs.

Height includes adjustable bin legs 6.00" to 7.00" (15.24 to 17.78 cm) set at 6.00" (15.24 cm). For comparison purposes multiply ARI capacity by 1.3 (30%) to arrive at approximate "Application Rating Capacity."



**Installation Note** - Minimum Installation Clearance: Top/Sides are 8" (20.32 cm), Back is 5" (12.7 cm).

## THE RIGHT CLIMATE FOR LEADERSHIP

Consult your local Manitowoc Representative:

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