

Rapid Freeze 4000, 6000, 51 & 101-RLG

for Secondary Glycol
Refrigeration Systems

COOL SOLUTIONS SINCE 1912

HOWE Proven. Best Choice.™

Howe's versatile Rapid Freeze Flake Ice Machines set the standard for energy efficiency, water conservation and longer, trouble-free operating life. Our reliable ice flakers are engineered to deliver exceptional ice quality that keeps food cooler and fresher, longer, at reduced operating expense.

From food processing and distribution, to supermarket and retail applications, Howe has an energy-efficient Rapid Freeze solution to meet your needs.

PROVEN ENERGY EFFICIENCY

Innovative engineering, rugged construction deliver exceptional heat transfer. Requires significantly less energy per pound. Substantially lower operating/maintenance requirements. Optimized water usage.

EXCEPTIONAL ICE QUALITY

True, 100% dry, sub-cooled flake ice contains 4x more surface area for significantly better cooling – up to 20% longer. Drier ice draws heat away quickly and evenly. Process uses less energy with virtually zero water loss.

LONGER, TROUBLE-FREE OPERATING LIFE

Innovative evaporator design utilizes gravity for 50% lighter bearing load. Operates, trouble-free, 3x - 4x longer than competitive machines. Fewer maintenance/service issues.

STANDARD SUPPLIED COMPONENTS

- Pre-wired, integrated control panel
- Photo eye ice level control system
- Flow Control Valve
- Solenoid Valve

AVAILABLE OPTIONS/ACCESSORIES

- Clock timer
- Water filter system
- Salt dosing kit
- Low water level switch
- Low ambient kit
- Ice storage bins (many options available)



Model 6000-RLG



MADE IN USA!

4,000 LB ICE CAPACITIES

| | | WATER TEMP °F | | |
|-------------|-----|---------------|-------------|------|
| | | 50° | 70° | 90° |
| AIR TEMP °F | 70° | 4328 | 3983 | 3700 |
| | 80° | 4263 | 3928 | 3606 |
| | 90° | 4116 | 3846 | 3293 |

ICE QUALITY & HARDNESS

Ice of higher quality has more cooling capacity per pound than that of lesser quality ice.

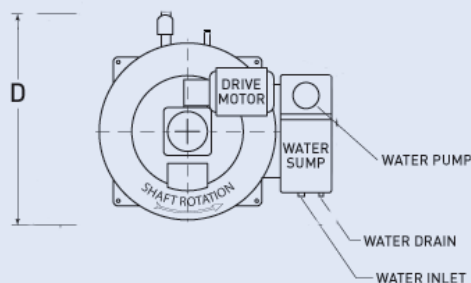
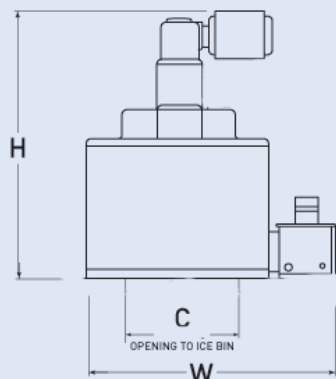
| ICE QUALITY %* | IHAF** | KWH/100 LBS |
|----------------|--------|-------------|
| 103 | 0.98 | 4.1 |

* Ice Quality expressed as a percentage of cooling capacity of 100% 32°F ice.

** Ice Hardness Adjustment Factor used to correct kWh/100lb for ice quality.
All data given at 90°F air / 70°F water.

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| MODEL | GLYCOL PARAMETER | | DIMENSIONS (INCHES) | | | | CONNECTION SIZES | | | GLYCOL FLOW RATE* GPM | SHIPPING WEIGHT LBS |
|----------|------------------|--------------------|---------------------|----|------|--------|------------------|---------------|-------|-----------------------|---------------------|
| | INLET TEMP °F | PRESSURE DROP PSID | C | D | H | W | GLYCOL INLET | GLYCOL OUTLET | WATER | | |
| 4000-RLG | -15 | 3.6 | 19 | 36 | 44.5 | 32 | 1-1/2 | 1-1/2 | 3/8 | 24 | 530 |
| 6000-RLG | -15 | 3.4 | 19 | 36 | 51.5 | 36 | 2 | 2 | 3/8 | 36 | 675 |
| 51-RLG | -15 | 4.5 | 30 | 52 | 60 | 53-1/2 | 2-1/2 | 2-1/2 | 1/2 | 60 | 1,950 |
| 101-RLG | -15 | (2) 4.5 each | 30 | 52 | 79 | 53-1/2 | (2) 2-1/2 | (2) 2-1/2 | 1/2 | (2) 60 | 2,850 |

* @ -15°F Inlet Temperature, 80° F Water Temperature
model 101 is dual circuit. Pressure drop & flow is per circuit.

ELECTRICAL

| MODEL | CAPACITY/ 24 HRS* | WATER USAGE/ 100 LBS OF ICE GALS | WATER GPM | DRIVE MOTOR 208-230/1/60 | | WATER PUMP | | MIN. CIRCUIT AMPS | MAX. FUSE AMPS |
|----------|----------------------|--|--------------|-----------------------------|-----|------------|------|-------------------------|----------------------|
| | | | | HP | FLA | HP | FLA | | |
| 4000-RLG | 3,846 LBS | 12.2 | .35 | 1/3 | 3.2 | 1/15 | .7 | 5 | 15 |
| 6000-RLG | 6,000 LBS | 12.2 | .50 | 1/2 | 4.3 | 1/15 | 1.95 | 8 | 15 |
| 51-RLG | 10,000 LBS | 12.2 | .85 | 1 | 6.8 | 1/8 | 1.05 | 15 | 20 |
| 101-RLG | 20,000 LBS | 12.2 | 1.65 | 1 | 6.8 | 1/8 | 1.05 | 15 | 20 |

* @ 70°/90°F (21°/32°C) based on total consumption for a split system.

WARRANTY

See complete warranty for details.

- 25 year evaporator icemaking surface warranty
- 10 year ice blade warranty
- 2 year parts warranty

OPERATING PARAMETERS

| | MINIMUM | OPTIMUM | MAXIMUM |
|---------------------|-------------|-------------|--------------|
| AMBIENT TEMPERATURE | 50°F (10°C) | 90°F (32°C) | 100°F (38°C) |
| WATER TEMPERATURE | 45°F (8°C) | 70°F (21°C) | 90°F (32°C) |
| WATER PRESSURE | 20 PSI | 25-40 PSI | 60 PSI |



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