



Project \_\_\_\_\_

Item # \_\_\_\_\_

Quantity \_\_\_\_\_

# Glo-Ray® Max Watt Infrared Strip Heaters

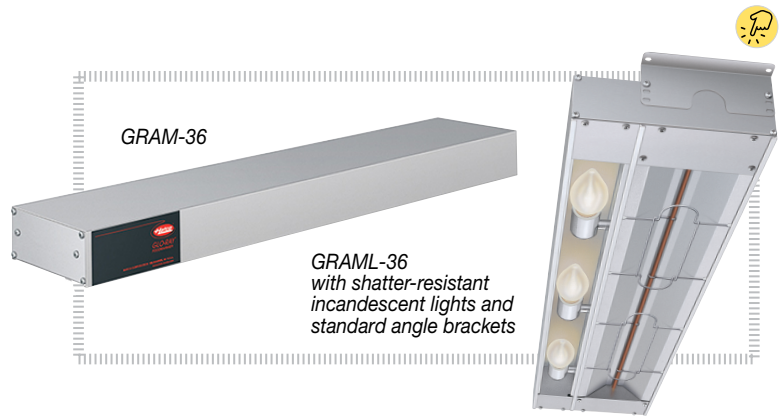
Models: GRAM-18, -24, -30, -36, -42, -48, -54, -60, -66, -72, -84, -96, -108, -120, -132, -144

GRAML-18, -24, -30, -36, -42, -48, -54, -60, -66, -72, -84, -96, -108, -120, -132, -144

Hatco Glo-Ray® Max Watt Infrared Foodwarmers keep all hot foods at optimum serving temperatures longer. The pre-focused heat pattern directs heat from a tubular element to bathe the entire holding surface. Units are available with shatter-resistant incandescent lights that illuminate the warming area. All Max Watt models are shipped factory-assembled, with adjustable angle brackets (shipped loose), ready-to-install quickly and easily.

## Standard features

- 25% greater wattage output than Glo-Ray high watt:
  - GRAM models vary from 450-4150 watts
  - GRAML models vary from 570 - 4870 watts
- Available in widths from 18" to 144" (457-3658 mm) in 6" (152 mm) increments
- Sturdy extruded aluminum housings eliminate sagging.
- Pre-focused heat maintains serving temperatures longer without continuing to cook the food
- Reinforced wire guard provides operator safety without affecting heat distribution
- Standard control includes a Toggle Element Control Switch and Indicator Light (and separate Toggle Light Control Switch on Lighted models) in a Remote Control Enclosure
- Heavy-duty insulation minimizes heat loss
- Shatter-resistant incandescent lights (standard on GRAML models) enhance product display while safeguarding food products from bulb breakage (optional halogen bulb)
- Additional reflector styles and lower wattage elements also available, please consult factory for more information
- Includes Angle Brackets and Attached or Remote Control Enclosure



## Options (available at time of purchase only)

- Housing in Designer Color or Gloss Finish – 6" (153 mm) for GRAM, 9" (229 mm) for GRAML models – clear Anodized Standard†
  - Warm Red  Black  Gray Granite  White Granite  Navy Blue
  - Hunter Green  Antique Copper  Gleaming Gold
  - Glossy Gray  Bold Black  Brilliant Blue  Radiant Red
- RMB in Designer Color or Gloss Finish – clear Anodized Standard†
  - Warm Red  Black  Gray Granite  White Granite  Navy Blue
  - Hunter Green  Antique Copper  Gleaming Gold
  - Glossy Gray  Bold Black  Brilliant Blue  Radiant Red
- Power Leads Extended Beyond Standard 3' (914 mm) Conduit (specify lead length)
  - 1'-5" (305-1525 mm)  6'-10" (1829-3048 mm)
  - 11'-15" (3352-4572 mm)  16'-20" (4877-6096 mm)
- Bright Annealed Reflector for Lights with 3" (76 mm) Spacer
- Remote Control Enclosure with Toggle Control Switch, Electronic Infinite Control, Relay and Indicator Light (in lieu of standard remote control box)
- Built-In Toggle Control
- Non-Adjustable Tubular Stands (choose clearance and color below)
  - 14" or 16" (356 or 406 mm)  18" or 20" (457 or 508 mm)
  - 22" or 24" (559 or 610 mm)
- Designer Color or Gloss Finish for Non-Adjustable Tubular Stands – clear Anodized Standard†
  - Warm Red  Black  Gray Granite  White Granite
  - Navy Blue  Hunter Green  Antique Copper  Gleaming Gold
  - Glossy Gray  Bold Black  Brilliant Blue  Radiant Red
- Attached 6' (1829 mm) Cord and Plug Set on 120V models up to 48" (1219 mm) requires Standard Chain Mount Kit: Two S Hooks with two 6" (153 mm) lengths of chain (GRAM models only)
- Two S hooks with two 6" (153 mm) lengths of chain
- Halogen Bulb in lieu of Incandescent Display Light (60 watt)
- No Bulbs, GRAML 120V models only

## Accessories

- Chain Suspension
- Chef LED 120V adjustable bulb - GRAML models only - GRAML-xx must be 13" (330 mm) or higher from surface as pass through - bulbs must be rotated down
- 3000K Similar to warm halogen  4000K Similar to cool fluorescent

†Non-standard color are non-returnable

IFS anti-microbial coatings use naturally-occurring, environmentally sustainable, silver ions to help inhibit the growth of microbes on the powder coated surface. See [www.hatcocorp.com/antimicrobial-paint](http://www.hatcocorp.com/antimicrobial-paint) for more information.

For operation, location and safety information, please refer to the Installation and Operating Manual.



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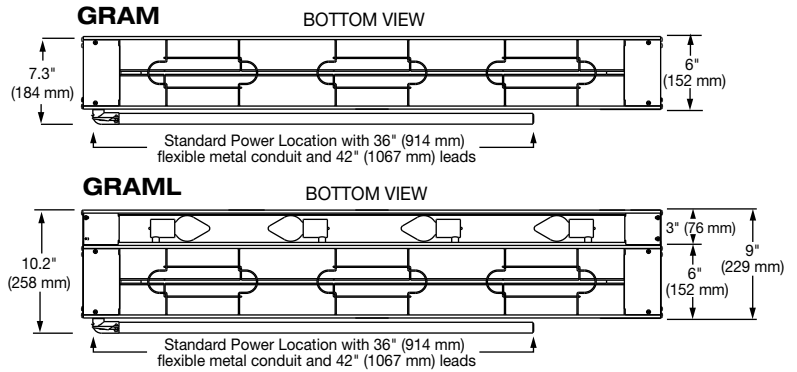
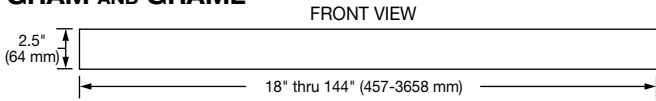
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# Glo-Ray® Max Watt Infrared Strip Heaters

Models: GRAM-18, -24, -30, -36, -42, -48, -54, -60, -66, -72, -84, -96, -108, -120, -132, -144  
 GRAML-18, -24, -30, -36, -42, -48, -54, -60, -66, -72, -84, -96, -108, -120, -132, -144

## GRAM AND GRAML



## SPECIFICATIONS

### Glo-Ray® Max Watt Infrared Strip Heaters

Phase: All Single Phase

Model	Dimensions (W x D x H)	Volts	Watt	Amps	Plug	Ship Weight.*
GRAM-18	18" x 6" x 2.5" (457 x 152 x 64 mm)	120	450	3.8	NEMA 5-15P	9 lbs. (4 kg.)
		208		2.2	-	
		240		1.9	-	
GRAM-24	24" x 6" x 2.5" (610 x 152 x 64 mm)	120	650	5.4	NEMA 5-15P	10 lbs. (5 kg.)
		208		3.1	-	
		240		2.7	-	
GRAM-30	30" x 6" x 2.5" (762 x 152 x 64 mm)	120	825	6.9	NEMA 5-15P	10 lbs. (5 kg.)
		208		4.0	-	
		240		3.4	-	
GRAM-36	36" x 6" x 2.5" (914 x 152 x 64 mm)	120	1000	8.3	NEMA 5-15P	12 lbs. (6 kg.)
		208		4.8	-	
		240		4.2	-	
GRAM-42	42" x 6" x 2.5" (1067 x 152 x 64 mm)	120	1175	9.8	NEMA 5-15P	12 lbs. (6 kg.)
		208		5.6	-	
		240		4.9	-	
GRAM-48	48" x 6" x 2.5" (1219 x 152 x 64 mm)	120	1300	10.8	NEMA 5-15P	15 lbs. (7 kg.)
		208		6.3	-	
		240		5.4	-	
GRAM-54	54" x 6" x 2.5" (1372 x 152 x 64 mm)	120	1500	12.5	-	16 lbs. (8 kg.)
		208		7.2	-	
		240		6.3	-	
GRAM-60	60" x 6" x 2.5" (1524 x 152 x 64 mm)	120	1700	14.2	-	17 lbs. (8 kg.)
		208		8.2	-	
		240		7.1	-	
GRAM-66▲	66" x 6" x 2.5" (1676 x 152 x 64 mm)	120	1875	15.6	-	21 lbs. (10 kg.)
		208		9.0	-	
		240		7.8	-	
GRAM-72▲	72" x 6" x 2.5" (1829 x 152 x 64 mm)	120	2075	17.3	-	21 lbs. (10 kg.)
		208		10.0	-	
		240		8.6	-	
GRAM-84▲	84" x 6" x 2.5" (2134 x 152 x 64 mm)	120	2400	20.0	-	22 lbs. (10 kg.)
		208		11.5	-	
		240		10.0	-	
GRAM-96▼	96" x 6" x 2.5" (2438 x 152 x 64 mm)	120	2675	22.3	-	25 lbs. (12 kg.)
		208		12.9	-	
		240		11.1	-	
GRAM-108▶◇	108" x 6" x 2.5" (2743 x 152 x 64 mm)	120	3000	-	-	23 lbs. (11 kg.)
		208		14.4	-	
		240		12.5	-	
GRAM-120▶◇	120" x 6" x 2.5" (3048 x 152 x 64 mm)	120	3400	-	-	26 lbs. (12 kg.)
		208		16.4	-	
		240		14.2	-	
GRAM-132▶◇	132" x 6" x 2.5" (3353 x 152 x 64 mm)	120	3750	-	-	30 lbs. (14 kg.)
		208		18.0	-	
		240		15.6	-	
GRAM-144▶◇	144" x 6" x 2.5" (3658 x 152 x 64 mm)	120	4150	-	-	33 lbs. (15 kg.)
		208		20.0	-	
		240		17.3	-	

Model §	Dimensions (W x D x H)	Volts	Watt	Amps	Plug	Ship Weight.*
GRAML-18	18" x 9" x 2.5" (457 x 229 x 64 mm)	120	570	4.8	NEMA 5-15P	10 lbs. (5 kg.)
		120/208		3.2	-	
		120/240		2.9	-	
GRAML-24	24" x 9" x 2.5" (610 x 229 x 64 mm)	120	770	6.4	NEMA 5-15P	13 lbs. (6 kg.)
		120/208		4.1	-	
		120/240		3.7	-	
GRAML-30	30" x 9" x 2.5" (762 x 229 x 64 mm)	120	945	7.9	NEMA 5-15P	15 lbs. (7 kg.)
		120/208		5.0	-	
		120/240		4.4	-	
GRAML-36	36" x 9" x 2.5" (914 x 229 x 64 mm)	120	1180	9.8	NEMA 5-15P	15 lbs. (7 kg.)
		120/208		6.3	-	
		120/240		5.7	-	
GRAML-42	42" x 9" x 2.5" (1067 x 229 x 64 mm)	120	1355	11.3	NEMA 5-15P	19 lbs. (9 kg.)
		120/208		7.1	-	
		120/240		6.4	-	
GRAML-48	48" x 9" x 2.5" (1219 x 229 x 64 mm)	120	1540	12.8	NEMA 5-15P	20 lbs. (9 kg.)
		120/208		8.3	-	
		120/240		7.4	-	
GRAML-54	54" x 9" x 2.5" (1372 x 229 x 64 mm)	120	1740	14.5	-	24 lbs. (11 kg.)
		120/208		9.2	-	
		120/240		8.3	-	
GRAML-60◊	60" x 9" x 2.5" (1524 x 229 x 64 mm)	120	2000	16.7	-	22 lbs. (10 kg.)
		120/208		10.7	-	
		120/240		9.6	-	
GRAML-66▲◊	66" x 9" x 2.5" (1676 x 229 x 64 mm)	120	2175	18.1	-	25 lbs. (12 kg.)
		120/208		11.5	-	
		120/240		10.3	-	
GRAML-72▲◊	72" x 9" x 2.5" (1829 x 229 x 64 mm)	120	2435	20.3	-	29 lbs. (14 kg.)
		120/208		13.0	-	
		120/240		11.6	-	
GRAML-84▲◊	84" x 9" x 2.5" (2134 x 229 x 64 mm)	120	2820	23.5	-	32 lbs. (15 kg.)
		120/208		15.0	-	
		120/240		13.5	-	
GRAML-96▼◊	96" x 9" x 2.5" (2438 x 229 x 64 mm)	120	3155	26.3	-	37 lbs. (17 kg.)
		120/208		16.9	-	
		120/240		15.1	-	
GRAML-108▶◇	108" x 9" x 2.5" (2743 x 229 x 64 mm)	120	3540	-	-	36 lbs. (17 kg.)
		120/208		18.9	-	
		120/240		17.0	-	
GRAML-120▶◇	120" x 9" x 2.5" (3048 x 229 x 64 mm)	120	4000	-	-	40 lbs. (19 kg.)
		120/208		21.3	-	
		120/240		19.2	-	
GRAML-132▶◇	132" x 9" x 2.5" (3353 x 229 x 64 mm)	120	4410	-	-	44 lbs. (20 kg.)
		120/208		23.5	-	
		120/240		21.1	-	
GRAML-144▶◇	144" x 9" x 2.5" (3658 x 229 x 64 mm)	120	4870	-	-	48 lbs. (22 kg.)
		120/208		26.0	-	
		120/240		23.3	-	

▲ 120 volt models require additional switches and tandem (end-to-end) elements or the use of Electronic infinite control (RMB).

◊ 120 volt models not available with Built-in Controls.

▼ 120 volt models require additional switches and tandem (end-to-end) elements.

▶ Models contain tandem (end-to-end) elements that may be individually controlled.

◇ Available with Remote Control Enclosure (RMB) only.

\* Shipping weight includes packaging and does not include RMB.

§ GRAML models that have multiple voltages listed, such as 120/208 or 120/240, have multiple internal circuits. For example a 120/208 volt unit utilizes 120 volts for light circuit and 208 volts for the heat circuit(s). Consult the Electrical Diagram supplied with the unit for specific information. Light-equipped strip heaters that require a circuit breaker 20 amps or larger must be installed with a remote control enclosure containing a fuse rated at 20 amps or less for the light circuit.





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## MOUNTING HEIGHT REQUIREMENTS



(Refer to the Installation section in the Installation and Operating Manual on the [Hatco website](#))

### Recommended mounting height

14"-18" (356-457 mm) Adjustable Angle Brackets  
(Provides 1" – 2" (25-51 mm) clearance above Glo-Ray unit)

### Minimum spacing

GLO-RAY MAX WATT FOODWARMERS MAY NOT BE INSTALLED IN COMBUSTIBLE SURROUNDINGS.

**Non-Combustibles:** Pass through area: 1" (25 mm) above, 12" (305 mm) to surface below.

**Corner mount:** 3" (76 mm) from non-combustible back wall, 1" (25 mm) above, 12" (305 mm) to surface below.

**Cord connected:** Must be pass-through use with 3" (76 mm) below an overshelf, 12" (305 mm) to surface below. Maximum 10" (254 mm) setback from the front of an overshelf.

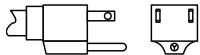
## LEADS

3' conduit with leads – server's right.

## PLUG CONFIGURATIONS

NEMA 5-15P, 120 volts only – Models 48" (1219 mm) or less with Chain Kit only.

NEMA 5-15P



## PRODUCT SPECS Infrared Foodwarmers

The Infrared Foodwarmer shall be a Glo-Ray®, manufactured by the Hatco Corporation, Milwaukee, WI 53234 U.S.A.

The Foodwarmer shall be a Glo-Ray Model ..., rated at ... watts, ... volts, single phase and be ... millimeters in overall width.

The Glo-Ray shall consist of an aluminum housing and include as standard equipment adjustable angle brackets and a standard control which includes a Toggle Element Control Switch and Indicator Light (and separate Toggle Light Control Switch on Lighted models) in a Remote Control Enclosure.

The infrared heating element shall be tubular metal sheathed. The foodwarmer shall be factory assembled ready for electrical installation.

Options shall include Housing and/or RMB in *Designer Color* or Gloss finish in anti-microbial paint, Extended Power Leads, Bright Annealed Reflector for Lights, Remote Control Enclosure with Toggle Control Switch, Electronic Infinite Control, Built-In Toggle Control, Relay and Indicator Light, Adjustable Tubular Stands, Non-Adjustable Tubular Stands, attached 6' (1829 mm) Cord and Plug Set, two S hooks with chain, Halogen bulb, and no bulbs (GRAML only).

Accessories shall include suspension chain and Chef LED bulb.

Warranty consists of 24/7 parts and service assistance (U.S. and Canada only).

**HATCO CORPORATION** | P.O. Box 340500 Milwaukee, WI 53234-0500 U.S.A. | (414) 671-6350



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