# Glo-Ray® High Watt Infra-Black Strip Heaters

Models: GRAIH-18, -24, -30, -36, -42, -48, -54, -60, -66, -72
GRAIHL-18, -24, -30, -36, -42, -48, -54, -60, -66, -72

For foodwarming at a close range to food product, the Glo-Ray® Infra-Black® heat technology is ideal, emitting a solid panel of uniform heat. Sturdy continuous single extruded aluminum housings assure quality and durability. Models are available in a variety of widths, mounting arrangements and colors to fit your operation.

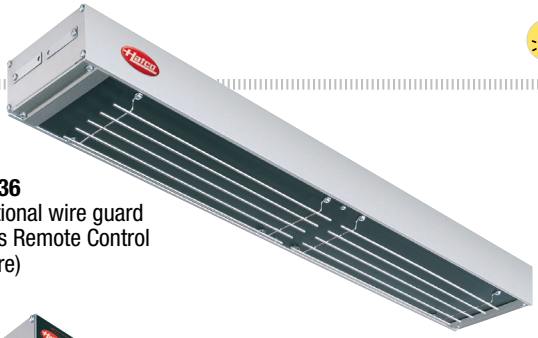
## Standard features

- Provides ideal amount of heat for limited space operations, mounted 4" to 10" (102 to 254 mm) above target surface
- Thermostatically controlled to regulate heat and provide consistent temperature.
- Infra-Black emitter provides even, precise heat distribution, eliminating hot spots for close applications
- Requires a remote control box with toggle or infinite switches or an attached thermostatic control box.
- Sturdy aluminum housings that do not sag, from 18" to 72" (457 to 1829 mm) in 6" (152 mm) increments
- Heavy-duty insulation keeps the exterior housing cool

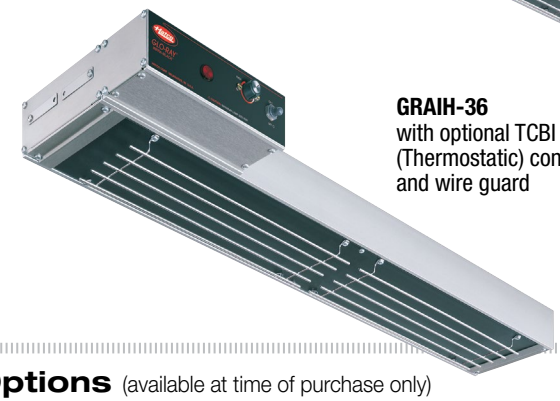
Project _____

Item # _____

Quantity _____



**GRAIH-36**
with optional wire guard
(requires Remote Control Enclosure)



**GRAIH-36**
with optional TCBI
(Thermostatic) control box
and wire guard

## Options (available at time of purchase only)

Housing color – 6" (152 mm) Housing for GRAIH models, 9" (229 mm) Housing for GRAIHL models
*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 |

Remote Box (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 |

☐Element Wire Guard
☐Thermostatic Control Box with Indicator Lights (TCBI)

Non-Adjustable Tubular Stands (NTL) – Matches housing color ⊗ – Choose clearance –
☐ 4" (102 mm) ☐ 6" (152 mm) ☐ 7.5" (191 mm)
☐ 8" (203 mm) ☐ 10" (254 mm)

Leads – extend beyond standard 3' (914 mm) – 220V, 240V Export units come with 6" (152 mm) pigtail leads – Must specify lead length
☐ 1 '-5' (305-1525 mm) ☐ 6'-10' (1829-3048 mm)
☐ 11'-15' (3352-4572 mm) ☐ 16'-20' (4877-6096 mm)

## Accessories

Adjustable Angle Brackets for mounting Glo-Ray under a shelf – Space between Glo-Ray and overshelf:
☐ 1"-2" (25-51 mm) ☐ 1"-6" (25-152 mm)

☐ Chain Suspension

Chef LED Light Bulb – Bulbs must be rotated down – GRAIHL models require pass-through usage only and unit must be 11" (279 mm) or higher from surface

120V
☐ 3000K Warm halogen ☐ 4000K Cool fluorescent

230V – CE for input voltages above 200V
☐ 3000K Warm halogen ☐ 4000K Cool fluorescent

⊗ Non-standard colors are non-returnable

**NOTE:** Install Remote Box outside Heat Zone or damage will occur.

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

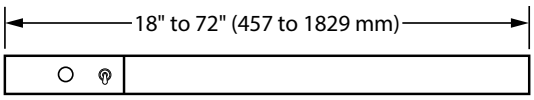
MADE IN THE USA

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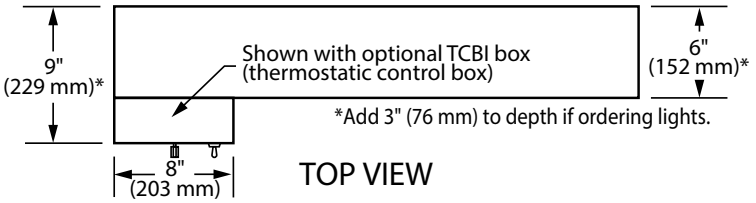
# Glo-Ray® High Watt Infra-Black Strip Heaters

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GRAIHL-18, -24, -30, -36, -42, -48, -54, -60, -66, -72

## GRAIH, GRAIHL




FRONT VIEW




TOP VIEW

## SPECIFICATIONS

### Glo-Ray® High Watt Infra-Black Strip Heater

**Dimensions:** GRAIH: 18"-72" x 6" x 2.6" (457-1829 W x 152 D x 66 H mm)
GRAIHL: 18"-72" x 9" x 2.6" (457-1829 W x 229 D x 66 H mm)

The shaded areas contain electrical information for International models

| GRAIH | | | | | GRAIHL | | | | | | Both Models |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Model | Volts | Watts | Amps | Approx. Ship Weight[a] | Model | Volts | Watts | Amps | Number of Bulbs | Approx. Ship Weight[a] | Width |
| GRAIH-18 | 120 | 350 | 2.9 | 10 lbs. (5 kg.) | GRAIHL-18 | 120 | 470 | 3.9 | 2 | 12 lbs. (6 kg.) | 18" (457 mm) |
| | 208 | | 1.7 | | | 120/208 | | 2.7 | | | |
| | 240 | | 1.5 | | | 120/240 | | 2.5 | | | |
| | 220 | 350 | 1.6 | | | 220 | 450 | 2.0 | | | |
| | 240 | | 1.5 | | | 240 | 470 | | | | |
| | 220-230 (CE) | 350-383 | 1.6-1.7 | | | 220-230 (CE) | 450-492 | 2.0-2.1 | | | |
| | 230-240 (CE) | 321-350 | 1.4-1.5 | | | 230-240 (CE) | 432-470 | 1.9-2.0 | | | |
| GRAIH-24 | 120 | 500 | 4.2 | 11 lbs. (5 kg.) | GRAIHL-24 | 120 | 620 | 5.2 | 2 | 14 lbs. (7 kg.) | 24" (610 mm) |
| | 208 | | 2.4 | | | 120/208 | | 3.4 | | | |
| | 240 | | 2.1 | | | 120/240 | | 3.1 | | | |
| | 220 | 500 | 2.3 | | | 220 | 600 | 2.7 | | | |
| | 240 | | 2.1 | | | 240 | 620 | 2.6 | | | |
| | 220-230 (CE) | 500-546 | 2.3-2.4 | | | 220-230 (CE) | 600-656 | 2.7-2.9 | | | |
| | 230-240 (CE) | 459-500 | 2.0-2.1 | | | 230-240 (CE) | 569-620 | 2.5-2.6 | | | |
| GRAIH-30 | 120 | 660 | 5.5 | 12 lbs. (6 kg.) | GRAIHL-30 | 120 | 780 | 6.5 | 2 | 16 lbs. (8 kg.) | 30" (762 mm) |
| | 208 | | 3.2 | | | 120/208 | | 4.2 | | | |
| | 240 | | 2.8 | | | 120/240 | | 3.8 | | | |
| | 220 | 660 | 3.0 | | | 220 | 760 | 3.5 | | | |
| | 240 | | 2.8 | | | 240 | 780 | 3.3 | | | |
| | 220-230 (CE) | 660-721 | 3.0-3.1 | | | 220-230 (CE) | 760-831 | 3.5-3.6 | | | |
| | 230-240 (CE) | 606-660 | 2.6-2.8 | | | 230-240 (CE) | 716-780 | 3.1-3.3 | | | |
| GRAIH-36 | 120 | 800 | 6.7 | 13 lbs. (6 kg.) | GRAIHL-36 | 120 | 980 | 8.2 | 3 | 18 lbs. (9 kg.) | 36" (914 mm) |
| | 208 | | 3.8 | | | 120/208 | | 5.3 | | | |
| | 240 | | 3.3 | | | 120/240 | | 4.8 | | | |
| | 220 | 800 | 3.6 | | | 220 | 950 | 4.3 | | | |
| | 240 | | 3.3 | | | 240 | 980 | 4.1 | | | |
| | 220-230 (CE) | 800-874 | 3.6-3.8 | | | 220-230 (CE) | 950-1038 | 4.3-4.5 | | | |
| | 230-240 (CE) | 734-800 | 3.2-3.3 | | | 230-240 (CE) | 900-980 | 3.9-4.1 | | | |
| GRAIH-42 | 120 | 950 | 7.9 | 16 lbs. (8 kg.) | GRAIHL-42 | 120 | 1130 | 9.4 | 3 | 20 lbs. (10 kg.) | 42" (1067 mm) |
| | 208 | | 4.6 | | | 120/208 | | 6.1 | | | |
| | 240 | | 4.0 | | | 120/240 | | 5.5 | | | |
| | 220 | 950 | 4.3 | | | 220 | 1100 | 5.0 | | | |
| | 240 | | 4.0 | | | 240 | 1130 | 4.7 | | | |
| | 220-230 (CE) | 950-1038 | 4.3-4.5 | | | 220-230 (CE) | 1100-1202 | 5.0-5.2 | | | |
| | 230-240 (CE) | 872-950 | 3.8-4.0 | | | 230-240 (CE) | 1038-1130 | 4.5-4.7 | | | |
| GRAIH-48 | 120 | 1100 | 9.2 | 16 lbs. (8 kg.) | GRAIHL-48 | 120 | 1340 | 11.2 | 4 | 22 lbs. (10 kg.) | 48" (1219 mm) |
| | 208 | | 5.3 | | | 120/208 | | 7.3 | | | |
| | 240 | | 4.6 | | | 120/240 | | 6.6 | | | |
| | 220 | 1100 | 5.0 | | | 220 | 1300 | 5.9 | | | |
| | 240 | | 4.6 | | | 240 | 1340 | 5.6 | | | |
| | 220-230 (CE) | 1100-1202 | 5.0-5.2 | | | 220-230 (CE) | 1300-1421 | 5.9-6.2 | | | |
| | 230-240 (CE) | 1010-1100 | 4.4-4.6 | | | 230-240 (CE) | 1231-1340 | 5.4-5.6 | | | |
| GRAIH-54 | 120 | 1250 | 10.4 | 18 lbs. (9 kg.) | GRAIHL-54 | 120 | 1490 | 12.4 | 4 | 24 lbs. (11 kg.) | 54" (1372 mm) |
| | 208 | | 6.0 | | | 120/208 | | 8.0 | | | |
| | 240 | | 5.2 | | | 120/240 | | 7.2 | | | |
| | 220 | 1250 | 5.7 | | | 220 | 1450 | 6.6 | | | |
| | 240 | | 5.2 | | | 240 | 1490 | 6.2 | | | |
| | 220-230 (CE) | 1250-1366 | 5.7-5.9 | | | 220-230 (CE) | 1450-1585 | 6.6-6.9 | | | |
| | 230-240 (CE) | 1148-1250 | 5.0-5.2 | | | 230-240 (CE) | 1368-1490 | 5.9-6.2 | | | |

[a] Shipping weight does not include remote control enclosure. Add 2–8 lbs. (1–3 kg) to shipping weight depending on size of remote control enclosure

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GRAIHL-18, -24, -30, -36, -42, -48, -54, -60, -66, -72

## SPECIFICATIONS

### Glo-Ray® High Watt Infra-Black Strip Heater

**Dimensions:** GRAIH: 18"-72" x 6" x 2.6" (457-1829 W x 152 D x 66 H mm)
GRAIHL: 18"-72" x 9" x 2.6" (457-1829 W x 229 D x 66 H mm)

**The shaded areas contain electrical information for International models**

| GRAIH | | | | | GRAIHL | | | | | | Both Models |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Model** | **Volts** | **Watts** | **Amps** | **Approx. Ship Weight▪** | **Model** | **Volts** | **Watts** | **Amps** | **Number of Bulbs** | **Approx. Ship Weight▪** | **Width** |
| GRAIH-60 | 120 | 1400 | 11.7 | 19 lbs. (9 kg.) | GRAIHL-60 | 120 | 1700 | 14.2 | 5 | 26 lbs. (12 kg.) | 60" (1524 mm) |
| | 208 | | 6.7 | | | 120/208 | | 9.2 | | | |
| | 240 | | 5.8 | | | 120/240 | | 8.3 | | | |
| | 220 | 1400 | 6.4 | | | 220 | 1650 | 7.5 | | | |
| | 240 | | 5.8 | | | 240 | 1700 | 7.1 | | | |
| | 220-230 (CE) | 1400-1530 | 6.4-6.7 | | | 220-230 (CE) | 1650-1803 | 7.5-7.8 | | | |
| | 230-240 (CE) | 1286-1400 | 5.6-5.8 | | | 230-240 (CE) | 1561-1700 | 6.8-7.1 | | | |
| GRAIH-66 | 120⊘ | 1560 | 13.0 | 23 lbs. (11 kg.) | GRAIHL-66 | 120⊘ | 1860 | 15.5 | 5 | 28 lbs. (13 kg.) | 66" (1676 mm) |
| | 208 | | 7.5 | | | 120/208 | | 10.0 | | | |
| | 240 | | 6.5 | | | 120/240 | | 9.0 | | | |
| | 220 | 1560 | 7.1 | | | 220 | 1810 | 8.2 | | | |
| | 240 | | 6.5 | | | 240 | 1860 | 7.8 | | | |
| | 220-230 (CE) | 1560-1705 | 7.1-7.4 | | | 220-230 (CE) | 1810-1978 | 8.2-8.6 | | | |
| | 230-240 (CE) | 1433-1560 | 6.2-6.5 | | | 230-240 (CE) | 1708-1860 | 7.4-7.8 | | | |
| GRAIH-72 | 120⊘ | 1725 | 14.4 | 25 lbs. (12 kg.) | GRAIHL-72 | 120⊙ | 2085 | 17.4 | 6 | 30 lbs. (14 kg.) | 72" (1829 mm) |
| | 208 | | 8.3 | | | 120/208 | | 11.3 | | | |
| | 240 | | 7.2 | | | 120/240 | | 10.2 | | | |
| | 220 | 1725 | 7.8 | | | 220 | 2025 | 9.2 | | | |
| | 240 | | 7.2 | | | 240 | 2085 | 8.7 | | | |
| | 220-230 | 1725-1885 | 7.8-8.2 | | | 220-230 | 2025-2213 | 9.2-9.6 | | | |
| | 230-240 | 1584-1725 | 6.9-7.2 | | | 230-240 | 1915-2085 | 8.3-8.7 | | | |

▪ Shipping weight does not include remote control enclosure. Add 2–8 lbs. (1–3 kg) to shipping weight depending on size of remote control enclosure
⊘ Infinite Control not available
⊙ Available with remote control only

NOTE: GRAIHL-xx 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).
NOTE: 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. RMB Series remote control enclosures require one remote control enclosure per strip heater.

## CONDUIT

3' (914 mm) conduit standard on 120V, 208V, 240V, 120/208V, 120/240V, Domestic models only – server's right (standard).

## TCBI Control Enclosure Dimensions

(not including switches):
8" x 3" x 2.5" (203 W x 76 D x 64 H mm)

## CONTROL ENCLOSURE LOCATION:

Chef's left side (Unless otherwise specified).

## REMOTE CONTROL ENCLOSURES

Must order one RMB control box per Strip Heater - If RMB2 is used, multiple warmers can be controlled from one box. The total amp draw of all connected strip heaters cannot exceed the rating of the remote control enclosure.

Click here to go to the Choose Remote Box Configurator (RMB Picker)

or follow this file path: www.hatcocorp.com > Resources > Choose Remote Box

| Model | Width | Toggle Switches |
|---|---|---|
| RMB-3 | 5.5" (140 mm) | 2 maximum |
| RMB-7 | 9" (229 mm) | 4 maximum |
| RMB-14 | 14" (356 mm) | 6 maximum |
| RMB-16 | 16" (406 mm) | 3 maximum |
| RMB-20 | 20" (508 mm) | 4 maximum |
| RMB2-1R | 11" (279 mm) | 1 toggle, 1 infinite, 1 relay, 1 indicator light |
| RMB2-2R | 14" (356 mm) | 1 toggle, 1 infinite, 2 relays, 1 indicator light |

## MINIMUM CLEARANCE REQUIREMENTS

Do not install unit above or around combustible surfaces.
Must be a pass-through application Not allowed with back wall installation unless controls are mounted in a remote control enclosure.
For diagrams, refer to the Installation and Operating Manual on the Hatco website.

### GRAIH, GRAIHL WITH TCBI:

Unit to surface below: 4" (102 mm)
Unit to back wall: Not allowed, must be pass-through application
Below overshelf: 1" (25 mm) clearance

### GRAIH, GRAIHL WITH RMB:

Unit to surface below: 4" (102 mm)
Unit to back wall: 3" (76 mm)
Below overshelf: 0" (0 mm) clearance required

## MAXIMUM OVERSHELF CLEARANCE REQUIREMENTS

Do not install unit above or around combustible surfaces.
Units should be mounted at a maximum distance of 10" (254 mm) from the front of an overshelf.

## RECOMMENDED MOUNTING PARAMETERS

Recomended Element Height: 4" - 10" (102-254 mm)
Recommended Target Width: 9.5" (241 mm)

## PRODUCT SPECS - High Watt Infra-Black Strip Heaters

The High Watt Infra-Black Strip Heater shall be Glo-Ray®, manufactured by the Hatco Corporation, Milwaukee, WI 53234 U.S.A.

The foodwarmer shall be an Infra-Black® Model ... , rated at ... watts, ... volts, single phase and be ... inches (millimeters) in overall width.

The Glo-Ray shall consist of an aluminum housing and require either a thermostatic control box or remote control enclosure (RMB).

The infrared heating element shall be tubular metal sheathed. The foodwarmer shall be factory assembled ready for electrical installation. Accessories shall include adjustable angle brackets, suspension chain and Chef LED Bulb. Housing and RMB shall be available in Optional *Designer* Color or Gloss Finish anti-microbial paint

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

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