



# Glo-Ray® Dual Aluminum Infrared Strip Heaters with Lights

Standard Watt Models:

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

High Watt Models:

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

Create a deeper holding area with Glo-Ray® Dual Aluminum Infrared Foodwarmers mounted side-by-side, keeping hot food at optimum serving temperatures. The pre-focused heat pattern directs heat from a metal sheathed element across the entire holding surface. The continuous aluminum housing and heavy-duty mountings ensure the durability and quality of Hatco products.

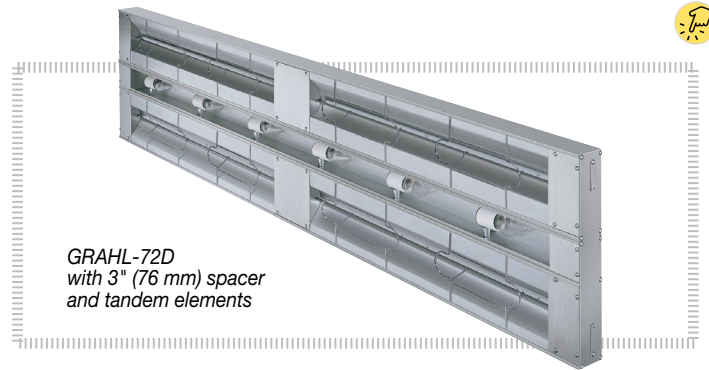
## Standard features

- Provides even heat distribution – no “cold spots”
- Pre-focused heat maintains safe serving temperatures longer
- Sturdy extruded aluminum housings that do not sag, from 18" to 144" (457 to 3658 mm)
- Metal sheathed heating elements guaranteed against burnout and breakage for two years
- Reflector does not blacken, maintaining a consistent heat pattern
- Coated shatter-resistant incandescent lights enhance product display while safeguarding food from bulb breakage
- Reinforced wire guard provides operator safety without affecting heat distribution
- 3" or 6" (76 or 152 mm) spacer available for in between units for deeper holding area
- Heavy-duty insulation minimizes heat loss
- Optional sneeze guard made of shatterproof, easy-to-clean acrylic provide safe food serving environment
- Additional reflector styles and lower wattage elements also available, please consult factory for more information

Project \_\_\_\_\_

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

Quantity \_\_\_\_\_



GRAHL-72D  
with 3" (76 mm) spacer  
and tandem elements

## Options (available at time of purchase only)

Housing in *Designer Color* or Gloss Finish – clear Anodized Standard <sup>†</sup>

- ☐ 15" (4572 mm) ☐ 18" (457 mm)
- ☐ Warm Red ☐ Black ☐ Gray Granite ☐ White Granite
- ☐ Navy Blue ☐ Hunter Green ☐ Antique Copper ☐ Radiant Red
- ☐ Glossy Gray ☐ Bold Black ☐ Gleaming Gold ☐ Brilliant Blue

☐ Indicator Light (Remote only)

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)

Sneeze Guard

- ☐ 9.375" (238 mm) – One Side ☐ 9.375" (238 mm) – Two Sides
- ☐ 14" (356 mm) – One Side ☐ 14" (356 mm) – Two Sides

Bulbs ☐ No Bulbs ☐ Halogen Bulb in lieu of Display 60 watt (U.S. Canada only)

☐ Extra Lamps – Installed (max. two per ft. less one – one per ft. is standard)

Bright Annealed Reflector for Lights

- ☐ 3" (76 mm) Spacer ☐ 6" (152 mm) Spacer

☐ No control included

☐ Remote Infinite Switches in lieu of Toggle (max. 12.2 amps)

☐ Remote Toggle Switches (max. 15 amps)

Remote Box – in *Designer Color* or Gloss Finish – clear Anodized Standard <sup>†</sup>

- ☐ Warm Red ☐ Black ☐ Gray Granite ☐ White Granite
- ☐ Navy Blue ☐ Hunter Green ☐ Antique Copper
- ☐ Radiant Red ☐ Glossy Gray ☐ Bold Black ☐ Gleaming Gold
- ☐ Brilliant Blue

☐ Factory attaches Control Box to Strip Heater (Export only)

Adjustable Tubular Stands (ATL) <sup>▼</sup> – not available in *Designer* colors

- ☐ 10" (254 mm) ☐ 14" (356 mm)

Non-Adjustable Tubular Stands (NTL) <sup>▼</sup> – matches housing color <sup>†</sup> – choose clearance below

- ☐ 10" (254 mm) ☐ 12" (305 mm) ☐ 14" (356 mm) ☐ 16" (406 mm)

## Accessories

Adjustable Angle Brackets (with clearance above unit)

- ☐ 1"-2" (25-51 mm) ☐ 7" (178 mm)

☐ Chain Suspension

Chef LED adjustable bulb - must be installed as a pass through - GRAL-xxD

must be 15" (381 mm) or higher from surface, GRAHL-xxD must be 18" (457 mm) or higher from surface – bulbs must be rotated down

120V: ☐ 3000K Similar to warm halogen ☐ 4000K Similar to cool fluorescent

230V: ☐ 3000K Similar to warm halogen ☐ 4000K Similar to cool fluorescent

<sup>†</sup>Non-standard colors are non-returnable

<sup>▼</sup> NOTE: For multiple circuit control options used with optional Tubular Stand Supports (ATL or NTL), the power supply may need to be located somewhere other than through the Tubular Stand. Consult factory for details.

<sup>†</sup> 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.



HATCO CORPORATION | P.O. Box 340500 Milwaukee, WI 53234-0500 U.S.A. | (800) 558-0607 | (414) 671-6350



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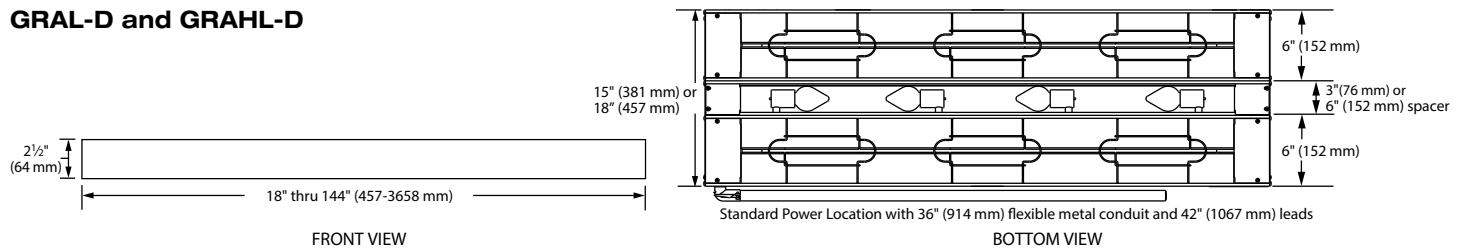


# Glo-Ray® Dual Aluminum Infrared Strip Heaters with Lights

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High Watt: GRAHL-18D, -24D, -30D, -36D, -42D, -48D, -54D, -60D, -66D, -72D, -84D, -96D, -108D, -120D, -132D, -144D

## GRAL-D and GRAHL-D



## SPECIFICATIONS

### Glo-Ray® Dual Aluminum Infrared Strip Heaters with Lights

**Dimensions:** with 3" (76 mm) Spacer: 18" - 144" W x 15" D x 2.5" H (457 - 3658 x 381 x 64 mm)  
with 6" (152 mm) Spacer: 18" - 144" W x 18" D x 2.5" H (457 - 3658 x 457 x 64 mm)

Shaded areas contain electrical information for international models only.

| Standard Watt |               |           |         |                     | High Watt  |               |           |           |                     | Both Models |        |                  |
|---------------|---------------|-----------|---------|---------------------|------------|---------------|-----------|-----------|---------------------|-------------|--------|------------------|
| Model         | Volts         | Watts     | Amps    | Ship Weight*        | Model      | Volts         | Watts     | Amps      | Ship Weight*        | Bulbs       | Phase  | Width            |
| GRAL-18D      | 120           |           | 5.2     | 14 lbs.<br>(7 kg.)  | GRAHL-18D  | 120           |           | 6.8       | 14 lbs.<br>(7 kg.)  | 2           | Single | 18"<br>(457 mm)  |
|               | 120/208       | 620       | 3.4     |                     |            | 120/208       | 820       | 4.4       |                     |             |        |                  |
|               | 120/240       |           | 3.1     |                     |            | 120/240       |           | 3.9       |                     |             |        |                  |
|               | 200           | 546       | 2.7     |                     |            | 200           | 731       | 3.7       |                     |             |        |                  |
|               | 220           | 601       | 2.7     |                     |            | 220           | 801       | 3.6       |                     |             |        |                  |
|               | 220-230 (CE)* | 600-656   | 2.7-2.9 |                     |            | 220-230 (CE)* | 800-874   | 3.6-3.8   |                     |             |        |                  |
|               | 230-240 (CE)* | 569-620   | 2.5-2.6 |                     |            | 230-240 (CE)* | 753-820   | 3.3-3.4   |                     |             |        |                  |
|               | 240           | 620       | 2.6     |                     |            | 240           | 820       | 3.4       |                     |             |        |                  |
| GRAL-24D      | 120           |           | 6.8     | 16 lbs.<br>(8 kg.)  | GRAHL-24D  | 120           |           | 9.3       | 16 lbs.<br>(8 kg.)  | 2           | Single | 24"<br>(610 mm)  |
|               | 120/208       | 820       | 4.4     |                     |            | 120/208       | 1120      | 5.8       |                     |             |        |                  |
|               | 120/240       |           | 3.9     |                     |            | 120/240       |           | 5.2       |                     |             |        |                  |
|               | 200           | 731       | 3.7     |                     |            | 200           | 1008      | 5.0       |                     |             |        |                  |
|               | 220           | 801       | 3.6     |                     |            | 220           | 1101      | 5.0       |                     |             |        |                  |
|               | 220-230 (CE)* | 800-874   | 3.6-3.8 |                     |            | 220-230 (CE)* | 1100-1202 | 5.0-5.2   |                     |             |        |                  |
|               | 230-240 (CE)* | 753-820   | 3.3-3.4 |                     |            | 230-240 (CE)* | 1029-1120 | 4.5-4.7   |                     |             |        |                  |
|               | 240           | 820       | 3.4     |                     |            | 240           | 1120      | 4.7       |                     |             |        |                  |
| GRAL-30D      | 120           |           | 8.5     | 18 lbs.<br>(9 kg.)  | GRAHL-30D  | 120           |           | 12.0      | 18 lbs.<br>(9 kg.)  | 2           | Single | 30"<br>(762 mm)  |
|               | 120/208       | 1020      | 5.3     |                     |            | 120/208       | 1440      | 7.3       |                     |             |        |                  |
|               | 120/240       |           | 4.8     |                     |            | 120/240       |           | 6.5       |                     |             |        |                  |
|               | 200           | 915       | 4.6     |                     |            | 200           | 1304      | 6.5       |                     |             |        |                  |
|               | 220           | 1001      | 4.5     |                     |            | 220           | 1421      | 6.4       |                     |             |        |                  |
|               | 220-230 (CE)* | 1000-1093 | 4.5-4.8 |                     |            | 220-230 (CE)* | 1420-1552 | 6.4-6.7   |                     |             |        |                  |
|               | 230-240 (CE)* | 937-1020  | 4.1-4.3 |                     |            | 230-240 (CE)* | 1323-1440 | 5.8-6.0   |                     |             |        |                  |
|               | 240           | 1020      | 4.3     |                     |            | 240           | 1440      | 6.0       |                     |             |        |                  |
| GRAL-36D      | 120           |           | 11.1    | 21 lbs.<br>(10 kg.) | GRAHL-36D* | 120           |           | 14.8      | 21 lbs.<br>(10 kg.) | 3           | Single | 36"<br>(914 mm)  |
|               | 120/208       | 1330      | 7.0     |                     |            | 120/208       | 1780      | 9.2       |                     |             |        |                  |
|               | 120/240       |           | 6.3     |                     |            | 120/240       |           | 8.2       |                     |             |        |                  |
|               | 200           | 1188      | 5.9     |                     |            | 200           | 1604      | 8.0       |                     |             |        |                  |
|               | 220           | 1301      | 5.9     |                     |            | 220           | 1751      | 8.0       |                     |             |        |                  |
|               | 220-230 (CE)* | 1300-1421 | 5.9-6.2 |                     |            | 220-230 (CE)* | 1750-1913 | 8.0-8.3   |                     |             |        |                  |
|               | 230-240 (CE)* | 1221-1330 | 5.3-5.5 |                     |            | 230-240 (CE)* | 1635-1780 | 7.1-7.4   |                     |             |        |                  |
|               | 240           | 1330      | 5.5     |                     |            | 240           | 1780      | 7.4       |                     |             |        |                  |
| GRAL-42D      | 120           |           | 12.8    | 26 lbs.<br>(12 kg.) | GRAHL-42D* | 120           |           | 17.3      | 26 lbs.<br>(12 kg.) | 3           | Single | 42"<br>(1067 mm) |
|               | 120/208       | 1530      | 8.0     |                     |            | 120/208       | 2080      | 10.6      |                     |             |        |                  |
|               | 120/240       |           | 7.1     |                     |            | 120/240       |           | 9.4       |                     |             |        |                  |
|               | 200           | 1373      | 6.9     |                     |            | 200           | 1882      | 9.4       |                     |             |        |                  |
|               | 220           | 1501      | 6.8     |                     |            | 220           | 2051      | 9.3       |                     |             |        |                  |
|               | 220-230 (CE)* | 1500-1640 | 6.8-7.1 |                     |            | 220-230 (CE)* | 2050-2240 | 9.3-9.7   |                     |             |        |                  |
|               | 230-240 (CE)* | 1405-1530 | 6.1-6.4 |                     |            | 230-240 (CE)* | 1910-2080 | 8.3-8.7   |                     |             |        |                  |
|               | 240           | 1530      | 6.4     |                     |            | 240           | 2080      | 8.7       |                     |             |        |                  |
| GRAL-48D*     | 120           |           | 15.3    | 30 lbs.<br>(14 kg.) | GRAHL-48D* | 120           |           | 20.3      | 30 lbs.<br>(14 kg.) | 4           | Single | 48"<br>(1219 mm) |
|               | 120/208       | 1840      | 9.7     |                     |            | 120/208       | 2440      | 12.6      |                     |             |        |                  |
|               | 120/240       |           | 8.7     |                     |            | 120/240       |           | 11.2      |                     |             |        |                  |
|               | 200           | 1646      | 8.2     |                     |            | 200           | 2201      | 11.0      |                     |             |        |                  |
|               | 220           | 1802      | 8.2     |                     |            | 220           | 2402      | 10.9      |                     |             |        |                  |
|               | 220-230 (CE)* | 1800-1967 | 8.2-8.6 |                     |            | 220-230 (CE)* | 2400-2623 | 10.9-11.4 |                     |             |        |                  |
|               | 230-240 (CE)* | 1690-1840 | 7.3-7.7 |                     |            | 230-240 (CE)* | 2241-2440 | 9.7-10.2  |                     |             |        |                  |
|               | 240           | 1840      | 7.7     |                     |            | 240           | 2440      | 10.2      |                     |             |        |                  |

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

♦ CE approved units for 220-230V utilize a 220V heating system; 230-240V CE units utilize a 240V heating system.

■ 120V models may require additional switches, (remote only) consult factory for applications.

**NOTE:** GRAL-D and GRAHL-D models that have multiple voltages listed, such as 120/208 or 120/240 have multiple circuits. For example, a 120/208V unit utilizes 120V for the light circuit and 208V for the heat circuit(s). Consult the electrical diagram supplied with the unit for specific information.

**CAUTION:** Strip heaters equipped with incandescent lights that require a circuit breaker larger than 20 amps for the heat element must have a separate circuit breaker for the incandescent lights that is 20 amps or less.

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High Watt: GRAHL-18D, -24D, -30D, -36D, -42D, -48D, -54D, -60D, -66D, -72D, -84D, -96D, -108D, -120D, -132D, -144D

## SPECIFICATIONS

### Glo-Ray® Dual Aluminum Infrared Strip Heaters with Lights

**Dimensions:** with 3" (76 mm) Spacer: 18" - 144" W x 15" D x 2.5" H (457 - 3658 x 381 x 64 mm)  
with 6" (152 mm) Spacer: 18" - 144" W x 18" D x 2.5" H (457 - 3658 x 457 x 64 mm)

Shaded areas contain electrical information for international models only.

| Standard Watt |               |           |           |                     | High Watt     |               |                     |              |                     | Both Models |        |                   |
|---------------|---------------|-----------|-----------|---------------------|---------------|---------------|---------------------|--------------|---------------------|-------------|--------|-------------------|
| Model         | Volts         | Watt      | Amps      | Ship Weight*        | Model         | Volts         | Watt                | Amps         | Ship Weight*        | Bulbs       | Phase  | Width             |
| GRAL-54D ■    | 120           |           | 17.4      | 34 lbs.<br>(16 kg.) | GRAHL-54D ■   | 120           |                     | 22.8         | 30 lbs.<br>(14 kg.) | 4           | Single | 54"<br>(1372 mm)  |
|               | 120/208       | 2090      | 10.9      |                     |               | 120/208       | 2740                | 14.0         |                     |             |        |                   |
|               | 120/240       |           | 9.7       |                     |               | 120/240       |                     | 12.4         |                     |             |        |                   |
|               | 200           | 1877      | 9.4       |                     |               | 200           | 2478                | 12.4         |                     |             |        |                   |
|               | 220           | 2052      | 9.3       |                     |               | 220           | 2702                | 12.3         |                     |             |        |                   |
|               | 220-230 (CE)♦ | 2050-2240 | 9.3-9.7   |                     |               | 220-230 (CE)♦ | 2700-2951           | 12.3-12.8    |                     |             |        |                   |
|               | 230-240 (CE)♦ | 1919-2090 | 8.3-8.7   |                     |               | 230-240 (CE)♦ | 2516-2740           | 10.9-11.4    |                     |             |        |                   |
|               | 240           | 2090      | 8.7       |                     |               | 240           | 2740                | 11.4         |                     |             |        |                   |
| GRAL-60D ■    | 120           |           | 20.0      | 35 lbs.<br>(16 kg.) | GRAHL-60D ■   | 120           |                     | 25.8         | 35 lbs.<br>(16 kg.) | 5           | Single | 60"<br>(1524 mm)  |
|               | 120/208       | 2400      | 12.6      |                     |               | 120/208       | 3100                | 16.0         |                     |             |        |                   |
|               | 120/240       |           | 11.3      |                     |               | 120/240       |                     | 14.2         |                     |             |        |                   |
|               | 200           | 2150      | 10.8      |                     |               | 200           | 2797                | 14.0         |                     |             |        |                   |
|               | 220           | 2352      | 10.7      |                     |               | 220           | 3052                | 13.9         |                     |             |        |                   |
|               | 220-230 (CE)♦ | 2350-2569 | 10.7-11.2 |                     |               | 220-230 (CE)♦ | 3050-3334           | 13.9-14.5    |                     |             |        |                   |
|               | 230-240 (CE)♦ | 2204-2400 | 9.6-10.0  |                     |               | 230-240 (CE)♦ | 2847-3100           | 12.4-12.9    |                     |             |        |                   |
|               | 240           | 2400      | 10.0      |                     |               | 240           | 3100                | 12.9         |                     |             |        |                   |
| GRAL-66D ■    | 120           |           | 21.8      | 37 lbs.<br>(17 kg.) | GRAHL-66D ■♦  | 120           |                     | 28.5         | 38 lbs.<br>(18 kg.) | 5           | Single | 66"<br>(1676 mm)  |
|               | 120/208       | 2620      | 13.7      |                     |               | 120/208       | 3420                | 17.5         |                     |             |        |                   |
|               | 120/240       |           | 12.2      |                     |               | 120/240       |                     | 15.5         |                     |             |        |                   |
|               | 200           | 2353      | 11.8      |                     |               | 200           | 3093                | 15.5         |                     |             |        |                   |
|               | 220           | 2572      | 11.7      |                     |               | 220           | 3372                | 15.3         |                     |             |        |                   |
|               | 220-230 (CE)♦ | 2570-2809 | 11.7-12.2 |                     |               | 220-230 (CE)♦ | 3370-3683           | 15.3-16.0    |                     |             |        |                   |
|               | 230-240 (CE)♦ | 2406-2620 | 10.5-11.0 |                     |               | 230-240 (CE)♦ | 3141-3420           | 13.7-14.3    |                     |             |        |                   |
|               | 240           | 2620      | 10.9      |                     |               | 240           | 3420                | 14.3         |                     |             |        |                   |
| GRAL-72D ■    | 120           |           | 24.3      | 41 lbs.<br>(19 kg.) | GRAHL-72D ■♦  | 120           |                     | 31.8         | 41 lbs.<br>(19 kg.) | 6           | Single | 72"<br>(1829 mm)  |
|               | 120/208       | 2910      | 15.3      |                     |               | 120/208       | 3810                | 19.6         |                     |             |        |                   |
|               | 120/240       |           | 13.6      |                     |               | 120/240       |                     | 17.4         |                     |             |        |                   |
|               | 200           | 2608      | 13.0      |                     |               | 200           | 3440                | 17.2         |                     |             |        |                   |
|               | 220           | 2853      | 13.0      |                     |               | 220           | 3753                | 17.1         |                     |             |        |                   |
|               | 220-230 (CE)♦ | 2850-3115 | 13.0-13.5 |                     |               | 220-230 (CE)♦ | 3753-4101           | 17.1-17.8    |                     |             |        |                   |
|               | 230-240 (CE)♦ | 2673-2910 | 11.6-12.1 |                     |               | 230-240 (CE)♦ | 3499-3810           | 15.2-15.9    |                     |             |        |                   |
|               | 240           | 2910      | 12.1      |                     |               | 240           | 3810                | 15.9         |                     |             |        |                   |
| GRAL-84D ■♦   | 120           |           | 28.5      | 50 lbs.<br>(23 kg.) | GRAHL-84D ♦   | 120           |                     | 37.7         | 50 lbs.<br>(23 kg.) | 7           | Single | 84"<br>(2134 mm)  |
|               | 120/208       | 3420      | 17.9      |                     |               | 120/208       | 4520                | 23.2         |                     |             |        |                   |
|               | 120/240       |           | 16.0      |                     |               | 120/240       |                     | 20.6         |                     |             |        |                   |
|               | 200           | 3065      | 15.3      |                     |               | 200           | 4082                | 20.4         |                     |             |        |                   |
|               | 220           | 3353      | 15.2      |                     |               | 220           | 4453                | 20.2         |                     |             |        |                   |
|               | 220-230 (CE)♦ | 3350-3662 | 15.2-15.9 |                     |               | 220-230 (CE)♦ | 4453-4867           | 20.2-21.2    |                     |             |        |                   |
|               | 230-240 (CE)♦ | 3141-3420 | 13.7-14.3 |                     |               | 230-240 (CE)♦ | 4151-4520           | 18.0-18.8    |                     |             |        |                   |
|               | 240           | 3420      | 14.3      |                     |               | 240           | 4520                | 18.8         |                     |             |        |                   |
| GRAL-96D ■♦   | 120           |           | 32.8      | 56 lbs.<br>(24 kg.) | GRAHL-96D ♦   | 120           |                     | 44.0         | 54 lbs.<br>(25 kg.) | 8           | Single | 96"<br>(2438 mm)  |
|               | 120/208       | 3930      | 20.6      |                     |               | 120/208       | 5280                | 27.1         |                     |             |        |                   |
|               | 120/240       |           | 18.4      |                     |               | 120/240       |                     | 24.0         |                     |             |        |                   |
|               | 200           | 3523      | 17.6      |                     |               | 200           | 4771                | 23.9         |                     |             |        |                   |
|               | 220           | 3853      | 17.5      |                     |               | 220           | 5203                | 23.7         |                     |             |        |                   |
|               | 220-230 (CE)♦ | 3853-4212 | 17.5-18.3 |                     |               | 220-230 (CE)♦ | 5203-5687           | 23.7-24.7    |                     |             |        |                   |
|               | 230-240 (CE)♦ | 3609-3930 | 15.7-16.4 |                     |               | 230-240 (CE)♦ | 4849-5280           | 21.1-22.0    |                     |             |        |                   |
|               | 240           | 3930      | 16.4      |                     |               | 240           | 5280                | 22.0         |                     |             |        |                   |
| GRAL-108D ♦   | 120           |           | 35.3      | 59 lbs.<br>(27 kg.) | GRAHL-108D ■♦ | 120           |                     | 46.2         | 59 lbs.<br>(27 kg.) | 9           | Single | 108"<br>(2743 mm) |
|               | 120/208       | 4240      | 22.3      |                     |               | 120/208       | 5540                | 28.5         |                     |             |        |                   |
|               | 120/240       |           | 19.9      |                     |               | 120/240       |                     | 25.3         |                     |             |        |                   |
|               | 220           | 4154      | 18.9      |                     |               | 220           | 5454                | 24.8         |                     |             |        |                   |
|               | 220-230       | 4154-4540 | 18.9-19.7 |                     |               | 220-230       | 5454-5961           | 24.8-26.0    |                     |             |        |                   |
|               | 230-240       | 3894-4240 | 16.9-17.7 |                     |               | 230-240       | 5088-5540           | 22.1-23.1    |                     |             |        |                   |
|               | 240           | 4240      | 17.7      |                     |               | 240           | 5540                | 23.1         |                     |             |        |                   |
|               | GRAL-120D ■♦  | 120       |           |                     |               | 40            | 66 lbs.<br>(30 kg.) | GRAHL-120D ♦ |                     |             | 120    |                   |
| 120/208       |               | 4800      | 25.2      | 120/208             | 6200          | 31.9          |                     |              |                     |             |        |                   |
| 120/240       |               |           | 22.5      | 120/240             |               | 28.3          |                     |              |                     |             |        |                   |
| 220           |               | 4704      | 21.4      | 220                 | 6104          | 27.7          |                     |              |                     |             |        |                   |
| 220-230       |               | 4704-5742 | 21.4-25.0 | 220-230             | 6104-6672     | 27.7-29.0     |                     |              |                     |             |        |                   |
| 230-240       |               | 4408-4800 | 19.2-20.0 | 230-240             | 5694-6200     | 24.8-25.8     |                     |              |                     |             |        |                   |
| 240           |               | 4800      | 20.0      | 240                 | 6200          | 25.8          |                     |              |                     |             |        |                   |
|               |               |           |           |                     |               |               |                     |              |                     |             |        |                   |

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

■ 120V models may require additional switches, (remote only) consult factory for applications.

♦ CE approved units for 220-230V utilize a 220V heating system; 230-240V CE units utilize a 240V heating system.

• 120V models with infinite switch require tandem (end-to-end) elements, consult factory for applications.

♦ Glo-Ray models 108"-144" (2743-3658 mm) and 120V models of GRAH(L)-84 and GRAH(L)-96 contain tandem (end-to-end) elements that may be individually controlled.

♦ Available with RMB or remote switch only.

NOTE: GRAL-D and GRAHL-D models that have multiple voltages listed, such as 120/208 or 120/240 have multiple circuits.

For example, a 120/208V unit utilizes 120V for the light circuit and 208V for the heat circuit(s). Consult the electrical diagram supplied with the unit for specific information.

CAUTION: Strip heaters equipped with incandescent lights that require a circuit breaker larger than 20 amps for the heat element must have a separate circuit breaker for the incandescent lights that is 20 amps or less.

HATCO CORPORATION

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# Glo-Ray® Dual Aluminum Infrared Strip Heaters with Lights

Standard Watt: GRAL -18D, -24D, -30D, -36D, -42D, -48D, -54D, -60D, -66D, -72D, -84D, -96D, -108D, -120D, -132D, -144D

High Watt: GRAHL-18D, -24D, -30D, -36D, -42D, -48D, -54D, -60D, -66D, -72D, -84D, -96D, -108D, -120D, -132D, -144D

## SPECIFICATIONS

### Glo-Ray® Dual Aluminum Infrared Strip Heaters with Lights

Dimensions: with 3" (76 mm) Spacer: 18" - 144" W x 15" D x 2.5" H (457 - 3658 x 381 x 64 mm)  
with 6" (152 mm) Spacer: 18" - 144" W x 18" D x 2.5" H (457 - 3658 x 457 x 64 mm)

Shaded areas contain electrical information for international models only.

| Standard Watt |         |           |           |                     | High Watt     |         |           |           |                     | Both Models |        |                   |
|---------------|---------|-----------|-----------|---------------------|---------------|---------|-----------|-----------|---------------------|-------------|--------|-------------------|
| Model         | Volts   | Watt      | Amps      | Ship Weight*        | Model         | Volts   | Watt      | Amps      | Ship Weight*        | Bulbs       | Phase  | Width             |
| GRAL-132D* ⚡  | 120     | 5300      | 44.2      | 73 lbs.<br>(34 kg.) | GRAHL-132D* ⚡ | 120     | 6900      | —         | 73 lbs.<br>(34 kg.) | 11          | Single | 132"<br>(3353 mm) |
|               | 120/208 |           | 27.8      |                     |               | 120/208 |           | 35.5      |                     |             |        |                   |
|               | 120/240 |           | 24.8      |                     |               | 120/240 |           | 31.5      |                     |             |        |                   |
|               | 220     | 5195      | 23.6      |                     |               | 220     | 6795      | 30.9      |                     |             | Single |                   |
|               | 220-230 | 5195-5678 | 23.6-24.7 |                     |               | 220-230 | 6795-7426 | 30.9-32.3 |                     |             |        |                   |
|               | 230-240 | 4868-5300 | 21.2-22.1 |                     |               | 230-240 | 6337-6900 | 27.6-28.8 |                     |             |        |                   |
|               | 240     | 5300      | 22.1      |                     |               | 240     | 6900      | 28.8      |                     |             |        |                   |
| GRAL-144D* ⚡  | 120     | 5820      | 48.5      | 80 lbs.<br>(37 kg.) | GRAHL-144D* ⚡ | 120     | 7620      | —         | 80 lbs.<br>(37 kg.) | 12          | Single | 144"<br>(3658 mm) |
|               | 120/208 |           | 30.5      |                     |               | 120/208 |           | 39.2      |                     |             |        |                   |
|               | 120/240 |           | 27.3      |                     |               | 120/240 |           | 34.8      |                     |             |        |                   |
|               | 220     | 5705      | 25.9      |                     |               | 220     | 7505      | 34.1      |                     |             | Single |                   |
|               | 220-230 | 5705-6235 | 25.9-27.1 |                     |               | 220-230 | 7505-8203 | 34.1-35.7 |                     |             |        |                   |
|               | 230-240 | 5345-5820 | 23.2-24.3 |                     |               | 230-240 | 6998-7620 | 30.4-31.8 |                     |             |        |                   |
|               | 240     | 5820      | 24.3      |                     |               | 240     | 7620      | 31.8      |                     |             |        |                   |

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

■ 120V models may require additional switches, (remote only) consult factory for applications.

• CE approved units for 220-230V utilize a 220V heating system; 230-240V CE units utilize a 240V heating system.

• 120V models with infinite switch require tandem (end-to-end) elements, consult factory for applications.

⚡ Glo-Ray models 108"-144" (2743-3658 mm) and 120V models of GRAH(L)-84 and GRAH(L)-96 contain tandem (end-to-end) elements that may be individually controlled.

▶ Available with RMB or remote switch only.

NOTE: GRAL-D and GRAHL-D models that have multiple voltages listed, such as 120/208 or 120/240 have multiple circuits. For example, a 120/208V unit utilizes 120V for the light circuit and 208V for the heat circuit(s). Consult the electrical diagram supplied with the unit for specific information.

CAUTION: Strip heaters equipped with incandescent lights that require a circuit breaker larger than 20 amps for the heat element must have a separate circuit breaker for the incandescent lights that is 20 amps or less.

## AMPS

Amps on all models vary based on configuration – please consult factory.

## TOGGLE SWITCH

Amps: Max. 15 amps. Location: Chef's left side.

## INFINITE SWITCH

Max. 12.2 amps

## LEADS

US/Canada: 3' (914 mm) conduit with leads (standard on 120, 120/208 and 120/240 models only) and 6" (152 mm) leads – server's right.

Euro/UK: 6" (152 mm) pigtail leads with no conduit – servers right.

## RECOMMENDED MOUNTING HEIGHTS

(Refer to the Installation section of the Manual on the Hatco website)

Standard Watt: 10"-14" (254-356 mm)

High Watt: 14"-18" (356-457 mm)

## MINIMUM CLEARANCES

### Combustibles

Can not be installed in combustible surroundings

### Non-Combustibles

#### Dual Units with Built-In Switches

Unit to surface below: 10" (254 mm).

Must be installed in pass through area, back wall installation not allowed

Below oversheaf: 1" (25 mm) clearance

#### Dual Units with Remote Switches:

Unit to surface below: 8" (203 mm)

Unit to wall: 3" (76 mm)

Below oversheaf: 0" (0 mm) clearance, can be flush to an oversheaf.

## REMOTE CONTROL ENCLOSURES

Must order one RMB control box per Strip Heater - If RMB2 is used, multiple warmers can be controlled from one box.

[Click here to download the RMB Choose Remote Box Excel Spreadsheet](#)  
or follow this file path: [www.hatcocorp.com](#) > Resources > Choose Remote Box



| Model   | Width            | Toggle Switches                                   |
|---------|------------------|---------------------------------------------------|
| RMB-3   | 6"(150 mm)       | 2 maximum                                         |
| RMB-7   | 9.375" (239 mm)  | 4 maximum                                         |
| RMB-14  | 14.375" (366 mm) | 6 maximum                                         |
| RMB-16  | 16.375" (417 mm) | 3 maximum                                         |
| RMB-20  | 20.375" (518 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 |



RMB-7L  
with infinite control



RMB-7D  
with optional Designer color



RMB-3F  
with toggle switch  
and indicator light

## PRODUCT SPECS

### Dual Infrared Foodwarmers

The Dual Aluminum Infrared Foodwarmer with lights 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 ... inches (millimeters) in overall width. The Glo-Ray shall consist of an aluminum housing and include four shelf mounting tabs.

The infrared heating element shall be tubular metal sheathed. The foodwarmer shall be ready for electrical installation. Options and accessories shall include adjustable or non-adjustable tubular stand, angle brackets, suspension chain and fittings, sneeze guard, indicator light, and Chef LED Bulb. All Designer Color and Gloss Finishes are anti-microbial paint.

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

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