Project _____

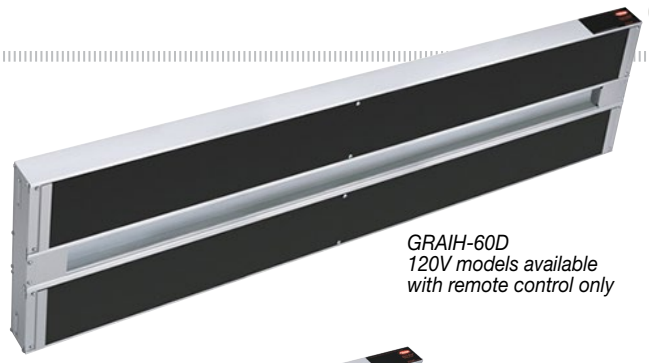
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Glo-Ray® High Watt Dual Infra-Black Strip Heaters

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

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 or dual extruded aluminum housings assure quality and durability. Available in a variety of widths, depths, mounting arrangements and colors to fit your operation.



GRAIH-60D
120V models available with remote control only



GRAIHL-24D

Standard features

- Thermostatically controlled to regulate heat and provide consistent temperature.
- Provides ideal amount of heat for limited space operations, mounted 8" to 14" (203-356 mm) above metallic target surface
- 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
- Standard 3" (76 mm) or optinal 6" (152 mm) spacer available
- Units offered with or without lights
- Optional protective wire guard supports heating element without affecting heat distribution
- Metal-sheathed heating elements guaranteed against burnout and breakage for two years

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

Options (available at time of purchase only)

Housing 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 (requires two sets)

☐ 6" (153 mm) Spacer – 3" (72 mm) standard

Remote Box – *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

☐ Halogen Bulb in lieu of standard Display Light (60 Watt)

☐ No control included (GRAIHL-xxD models only) – Requires selection of RMB2-xx control

☐ Thermostatic Control Box with Indicator Lights

Non-Adjustable Tubular Stands (NTL) – Choose clearance – Matches housing color ⊗
☐ 4" (102 mm) ☐ 6" (152 mm) ☐ 7.5" (191 mm) ☐ 8" (203 mm)
☐ 10" (254 mm) ☐ 12" (305 mm) ☐ 14" (356 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-xxD 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

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

MADE IN THE USA

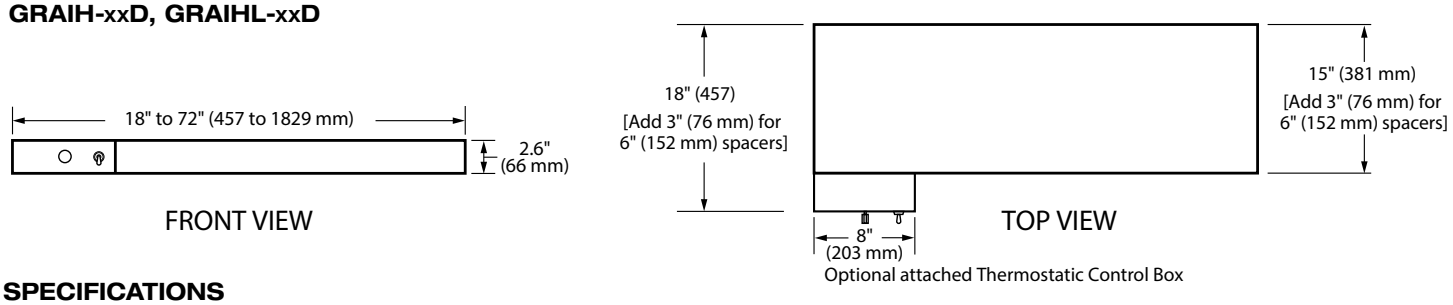
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Glo-Ray® High Watt Dual Infra-Black Strip Heaters

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

GRAIH-xxD, GRAIHL-xxD



SPECIFICATIONS

Glo-Ray® High Watt Dual Infra-Black Strip Heaters (single phase)

Dimensions:

GRAIH(L)-xxD with standard 3" (76 mm) Spacer: 18"- 72"W x 15"D x 2.6"H (457-1829 x 381 x 66 mm)
GRAIH(L)-xxD with 6" Spacer (152 mm): 18"- 72"W x 18"D x 2.6"H (457-1829 x 457 x 66 mm)

The shaded areas contain electrical information for International models

GRAIH-D					GRAIHL-D						Both
Model	**Volts**	**Watts**	**Amps**	**Approx. Ship Weight[a]**	**Model**	**Volts**	**Watts**	**Amps**	**Approx. Ship Weight[a]**	**# of 60 W Bulbs**	**Width**
GRAIH-18D	120	700	5.8	16 lbs. (8 kg.)	GRAIHL-18D	120	820	6.8	15 lbs. (7 kg.)	2	18" (457 mm)
	208		3.4			120/208		4.4			
	240		2.9			120/240		3.9			
	220	700	3.2			220	800	3.6			
	240		2.9			240	820	3.4			
	220-230 (CE)	700-765	3.2-3.3			220-230 (CE)	801-875	3.6-3.8			
	230-240 (CE)	643-700	2.8-2.9			230-240 (CE)	753-820	3.3-3.4			
GRAIH-24D	120	1000	8.3	22 lbs. (10 kg.)	GRAIHL-24D	120	1120	9.3	21 lbs. (10 kg.)	2	24" (610 mm)
	208		4.8			120/208		5.8			
	240		4.2			120/240		5.2			
	220	1000	4.5			220	1100	5.0			
	240		4.2			240	1120	4.7			
	220-230 (CE)	1000-1093	4.5-4.8			220-230 (CE)	1101-1203	5.0-5.2			
	230-240 (CE)	918-1000	4.0-4.2			230-240 (CE)	1029-1120	4.5-4.7			
GRAIH-30D	120	1320	11.0	22 lbs. (10 kg.)	GRAIHL-30D	120	1440	12.0	25 lbs. (12 kg.)	2	30" (762 mm)
	208		6.4			120/208		7.4			
	240		5.5			120/240		6.5			
	220	1320	6.0			220	1420	6.5			
	240		5.5			240	1440	6.0			
	220-230 (CE)	1320-1443	6.0-6.3			220-230 (CE)	1421-1553	6.5-6.8			
	230-240 (CE)	1212-1320	5.3-5.5			230-240 (CE)	1323-1440	5.8-6.0			
GRAIH-36D	120	1600	13.3	27 lbs. (13 kg.)	GRAIHL-36D	120	1780	14.8	29 lbs. (14 kg.)	3	36" (914 mm)
	208		7.7			120/208		9.2			
	240		6.7			120/240		8.2			
	220	1600	7.3			220	1750	8.0			
	240		6.7			240	1780	7.4			
	220-230 (CE)	1600-1749	7.3-7.6			220-230 (CE)	1751-1914	8.0-8.3			
	230-240 (CE)	1469-1600	6.4-6.7			230-240 (CE)	1635-1780	7.1-7.4			
GRAIH-42D	120⊙	1900	15.8	35 lbs. (16 kg.)	GRAIHL-42D	120⊙	2080	17.3	33 lbs. (15 kg.)	3	42" (1067 mm)
	208		9.1			120/208		10.6			
	240		7.9			120/240		9.4			
	220	1900	8.6			220	2050	9.3			
	240		7.9			240	2080	8.7			
	220-230 (CE)	1900-2077	8.6-9.0			220-230 (CE)	2051-2242	9.3-9.7			
	230-240 (CE)	1745-1900	7.6-7.9			230-240 (CE)	1910-2080	8.3-8.7			
GRAIH-48D	120⊙	2200	18.3	33 lbs. (15 kg.)	GRAIHL-48D	120⊙	2440	20.3	35 lbs. (16 kg.)	4	48" (1219 mm)
	208		10.6			120/208		12.6			
	240		9.2			120/240		11.2			
	220	2200	10.0			220	2400	10.9			
	240		9.2			240	2440	10.2			
	220-230 (CE)	2200-2405	10.0-10.5			220-230 (CE)	2402-2625	10.9-11.4			
	230-240 (CE)	2020-2200	8.8-9.2			230-240 (CE)	2241-2440	9.7-10.2			
GRAIH-54D	120⊙	2500	20.8	41 lbs. (19 kg.)	GRAIHL-54D	120⊙	2740	22.8	39 lbs. (18 kg.)	4	54" (1372 mm)
	208		12.0			120/208		14.0			
	240		10.4			120/240		12.4			
	220	2500	11.4			220	2700	12.3			
	240		10.4			240	2740	11.4			
	220-230 (CE)	2500-2732	11.4-11.9			220-230 (CE)	2702-2953	12.3-12.8			
	230-240 (CE)	2296-2500	10.0-10.4			230-240 (CE)	2516-2740	10.9-11.4			

[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
⊙ Available with remote control only

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

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

SPECIFICATIONS

Glo-Ray® High Watt Dual Infra-Black Strip Heaters (single phase)

Dimensions: GRAIH(L)-xxD with standard 3" (76 mm) Spacer: 18"- 72"W x 15"D x 2.6"H (457-1829 x 381 x 66 mm)
GRAIH(L)-xxD with 6" Spacer (152 mm): 18"- 72"W x 18"D x 2.6"H (457-1829 x 457 x 66 mm)

The shaded areas contain electrical information for International models

GRAIH-D					GRAIHL-D					Both
Model	Volts	Watts	Amps	Approx. Ship Weight▲	Model	Volts	Watts	Amps	Approx. Ship Weight▲	# of 60W Bulbs	Width
GRAIH-60D	120⊙	2800	23.3	46 lbs. (21 kg.)	GRAIHL-60D	120⊙	3100	25.8	47 lbs. (22 kg.)	5	60" (1524 mm)
	208		13.5			120/208		16.0			
	240		11.7			120/240		14.2			
	220	2800	12.7			220	3050	13.9			
	240		11.7			240	3100	12.9			
	220-230 (CE)	2800-3060	12.7-13.3			220-230 (CE)	3052-3336	13.9-14.5			
	230-240 (CE)	2572-2800	11.2-11.7			230-240 (CE)	2847-3100	12.4-12.9			
GRAIH-66D	120⊘⊙	3120	26.0	44 lbs. (20 kg.)	GRAIHL-66D	120⊘⊙	3420	28.5	45 lbs. (21 kg.)	5	66" (1676 mm)
	208		15.0			120/208⊙		17.5			
	240		13.0			120/240		15.5			
	220	3120	14.2			220	3370	15.3			
	240		13.0			240	3420	14.3			
	220-230 (CE)	3120-3410	14.2-14.8			220-230 (CE)	3372-3685	15.3-16.0			
	230-240 (CE)	2865-3120	12.5-13.0			230-240 (CE)	3141-3420	13.7-14.3			
GRAIH-72D	120 ⊘⊙	3450	28.8	51 lbs. (24 kg)	GRAIHL-72D	120 ⊘⊙	3810	–	54 lbs. (25 kg)	6	72" (1829 mm)
	208⊙		16.6			120/208⊙		19.6			
	240		14.4			120/240		17.4			
	220	3450	15.7			220	3750	17.0			
	240		14.4			240	3810	15.9			
	220-230 (CE)⊙	3450-3771	15.7-16.4			220-230 (CE)⊙	3750-4101	17.0-17.8			
	230-240 (CE)	3168-3450	13.8-14.4			230-240 (CE)	3498-3810	15.2-15.9			

▲ 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 in 120V
⊙ Available with remote control only.

NOTE: GRAIHL-xxD 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).
CAUTION: 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 and 208V models only.

LEADS

3' (76 mm) conduit with leads – server's right.
6" (152 mm) leads when supplied with TCBI – exit side of control box.

MINIMUM CLEARANCE REQUIREMENTS

Must be a pass-through application, not allowed with back wall installation.
For diagrams, refer to the Installation and Operating Manual on the Hatco website.

GRAIH-xxD, GRAIHL-xxD WITH TCBI:
Unit to surface below: 8" (203 mm)
Unit to back wall: Not allowed, must be pass-through application
Below overshelf: 1" (25 mm) clearance

GRAIH-xxD, GRAIHL-xxD WITH RMB:
Unit to surface below: 8" (203 mm)
Unit to back wall: 3" (76 mm)
Below overshelf: 0" (0 mm) clearance required

MAXIMUM OVERSHELF CLEARANCE REQUIREMENTS

Units should be mounted at a maximum distance of 10" (254 mm) from the front of an overshelf.

TCBI CONTROL ENCLOSURE DIMENSIONS

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

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

Models (series)	Width	Height	Toggle Switches
RMB-3	6" (150 mm)	2.625 (67 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)	5.5 (140 mm)	1 toggle, 1 infinite, 1 relay, 1 indicator light
RMB2-2R	14" (356 mm)	5.5 (140 mm)	1 toggle, 1 infinite, 2 relays, 1 indicator light

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 with a 3" (72 mm) Spacer and require either a thermostatic control box or remote control enclosure. The infrared heating element shall be tubular metal sheathed. The foodwarmer shall be factory assembled ready for electrical installation.

Options include Housing in *Designer* Color or Gloss finish, Element Wire Guard, 6" (152 mm) Spacer, Remote Box in *Designer* Color or Gloss finish, Halogen Bulb, No control (GRAIHL-xxD models only, requires selection of RMB2-xx control), Thermostatic Control Box with Indicator Lights, Non-Adjustable Tubular Stands, extended Leads. Optional *Designer* Colors and Gloss Finishes shall be anti-microbial paint.

Accessories shall include non-adjustable tubular stand, adjustable angle brackets, and suspension chain.

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

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