Hatco®

Strip Heater Solutions

Cafeterias • Buffets • Supermarkets & Delis
Restaurants & Cafés • Clubs & Bars

GRAHL-108 with optional sneeze guards and non-adjustable tubular stands   *pg. 2*

GRAH-60D with standard 76 mm spacer   *pg. 4*

GRAHL-42D with standard 76 mm spacer and accessory adjustable angle brackets   *pg. 4*

GRAHL-96D with standard 76 mm spacer and optional non-adjustable tubular stands   *pg. 4*

UGAH-42D in optional Gloss finish Radiant Red with standard 76 mm spacer. Remote Control Enclosure recommended (not shown)   *pg. 7*

GRAIH-72 with optional wire guard   *pg. 9*
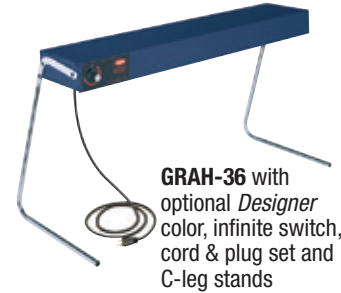
Strip Heater Solutions

Glo-Ray® Infrared Strip Heaters

Safely hold the temperature of your product without drying out or further cooking food with Hatco's Glo-Ray® Infrared Strip Heaters. The end result is hot, fresh food that's ready-to-serve. The sturdy stainless steel or continuous aluminum housing and heavy-duty mountings ensure the durability and quality of Hatco products.

- Ensures maximum flavor, safety and holding time
- Even heat distribution means no cold spots
- Sturdy extruded aluminum housings that do not sag, from 457 to 1829 mm
- Reflector does not blacken, maintaining a consistent heat pattern
- Protective reinforced wire guard supports heating element without affecting heat distribution

- Pre-focused heat pattern bathes entire holding surface
- Optional sneeze guards (excludes stainless steel models)
- Available with shatter-resistant incandescent lights (excludes stainless steel models)
- Additional reflector styles and lower wattage elements available; consult factory for more information

GRAH-48 with optional sneeze guards, cord & plug set and T-leg stands

GRAH-36 with optional *Designer* color, infinite switch, cord & plug set and C-leg stands

STAINLESS STEEL STRIP HEATERS – HIGH WATT

Model	Dimensions W x D x H	Voltage Single Phase	Watts	Ship Weight
GRH-18	457 x 152 x 69 mm	240	350	3 kg
GRH-24	610 x 152 x 69 mm	240	500	3 kg
GRH-36	914 x 152 x 69 mm	240	800	5 kg
GRH-48	1219 x 152 x 69 mm	240	1100	5 kg
GRH-60	1524 x 152 x 69 mm	240	1400	7 kg
GRH-72	1829 x 152 x 69 mm	240	1725	9 kg

All High Watt Stainless Steel Strip Heater Models Feature:
Toggle Switch (max. 15 Amps) Location: Chef's left side.
Leads: 152 mm pigtail leads – server's right.
NOTE: Sneeze guards can not be added to GRH models.

ALUMINUM STRIP HEATERS – HIGH WATT

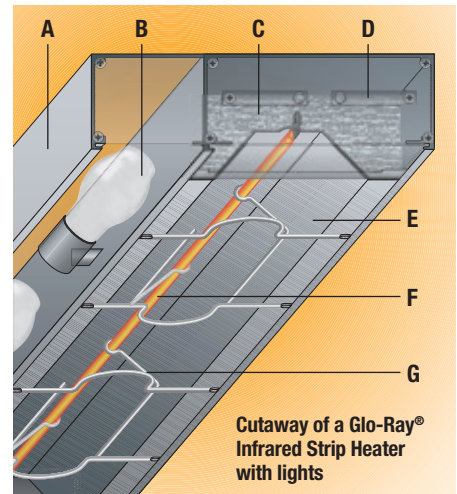| Model	Dimensions W x D x H	Voltage Single Phase	Watts	Ship Weight
GRAH-18	457 x 152 x 64 mm	240	350	3 kg
GRAH-24	610 x 152 x 64 mm	240	500	3 kg
GRAH-30	762 x 152 x 64 mm	240	660	4 kg
GRAH-36	914 x 152 x 64 mm	240	800	4 kg
GRAH-42	1067 x 152 x 64 mm	240	950	5 kg
GRAH-48	1219 x 152 x 64 mm	240	1100	5 kg
GRAH-54	1372 x 152 x 64 mm	240	1250	6 kg
GRAH-60	1524 x 152 x 64 mm	240	1400	6 kg
GRAH-66	1676 x 152 x 64 mm	240	1560	7 kg
GRAH-72	1829 x 152 x 64 mm	240	1725	8 kg

All High Watt Aluminum Strip Heater Models Feature:
Toggle Switch (max. 15 Amps) Location: Chef's left side (unless otherwise specified).
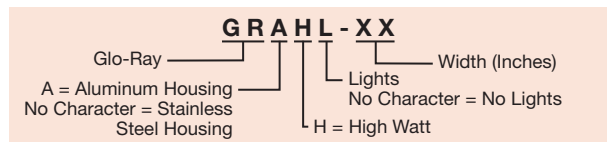
ALUMINUM STRIP HEATERS WITH LIGHTS – HIGH WATT

Model	Bulbs	Dimensions W x D x H	Voltage Single Phase	Watts	Ship Weight
GRAHL-18	2	457 x 229 x 64 mm	240	470	4 kg
GRAHL-24	2	610 x 229 x 64 mm	240	620	5 kg
GRAHL-30	2	762 x 229 x 64 mm	240	780	5 kg
GRAHL-36	3	914 x 229 x 64 mm	240	980	6 kg
GRAHL-42	3	1067 x 229 x 64 mm	240	1130	7 kg
GRAHL-48	4	1219 x 229 x 64 mm	240	1340	8 kg
GRAHL-54	4	1372 x 229 x 64 mm	240	1490	9 kg
GRAHL-60	5	1524 x 229 x 64 mm	240	1700	10 kg
GRAHL-66	5	1676 x 229 x 64 mm	240	1860	10 kg
GRAHL-72	6	1829 x 229 x 64 mm	240	2085	11 kg

All High Watt Aluminum Strip Heater Models with Lights Feature:
Toggle Switch (max. 15 Amps) Location: Chef's left side – light side (unless otherwise specified).

OPTIONS AND ACCESSORIES – PAGE 3
RECOMMENDED MOUNTING HEIGHTS – PAGE 11

Cutaway of a Glo-Ray® Infrared Strip Heater with lights

A Stainless steel (single units without lights) or sturdy aluminum housings that do not sag, from 457 mm up to 1829 mm

B Shatter-resistant incandescent lights (standard on GRAHL)

C Heavy-duty insulation minimizes heat loss

D Standard brackets are provided

E Aluminized reflector retains full heat intensity and directs more heat towards the edges of the holding surface

F Metal sheathed heating element is guaranteed against burnout and breakage for two years

G Protective reinforced wire guard supports heating element without affecting heat distribution

G R A H L - X X

Glo-Ray
A = Aluminum Housing
No Character = Stainless Steel Housing
H = High Watt
Lights
No Character = No Lights
Width (Inches)

GRAHL-48 with optional sneeze guard

OPTIONS (available at time of purchase only)

Designer Colors, Aluminum models 457-1829 mm – Non-standard colors are non-returnable – Clear Anodized Standard –

COLOR-6	152 mm Housing for GRAH models
COLOR-9	229 mm Housing for GRAHL models

RED	Warm Red	**GRAY**	Gray Granite	**NAVY**	Navy Blue	**COPPER**	Antique Copper
BLACK	Black	**WHITE**	White Granite	**GREEN**	Hunter Green		

Gloss Finishes, Aluminum models 457-1829 mm – Non-standard colors are non-returnable –

GLOSS-6	152 mm Housing for GRAH models
GLOSS-9	229 mm Housing for GRAHL models

RRED	Radiant Red	**GGRAY**	Glossy Gray	**BBLACK**	Bold Black
GGOLD	Gleaming Gold	**BBLUE**	Brilliant Blue		

CAP-EX	Attached 1829 mm Cord & Plug Set on models up to 1829 mm
IND. LGT	Indicator Light (Remote Control only on Stainless Steel units)

Extended Electrical Leads (must specify Lead length) –

LEADS5	305-1525 mm
LEADS10	1829-3048 mm
LEADS15	3352-4572 mm
LEADS20	4877-6096 mm

Sneeze Guards – Aluminum models only –

9.375BP1	238 mm – one side
9.375BP2	238 mm – two sides
14BP1	356 mm – one side
14BP2	356 mm – two sides
NO BULB	No Bulb option (GRAHL models only)
LIGHTS-ADD'L	Extra Lamps – installed (max. two per 305 mm less one - one per 305 mm is standard). **Must be ordered with Remote Switches only**
3 ANEAL REFL	Bright Annealed Reflector for Lights

Infinite Control (REMOTE ENCLOSURE RECOMMENDED)

BLT INF	Built-In (max. of 12.2 Amps) – remote installation recommended

Remote Control Enclosure

	Available in *Designer* Colors and Gloss Finishes – Non-standard colors are non-returnable – **See page 11 for models**
ATL	Adjustable Tubular Stands (254-356 mm) **– not available in Designer Colors and not available with Cord**
NTL-10, 12	Non-Adjustable Tubular Stands **(specify 254 or 305 mm clearance) – not available with Cord**
NTL-14, 16	Non-Adjustable Tubular Stands **(specify 356 or 406 mm clearance) – not available with Cord**
NTL-PAINT	Non-Adjustable Tubular Stand **(specify *Designer* Color or Gloss Finish)** – Non-standard colors are non-returnable –
CL-HIGH	C-Leg Stands for High Watt – 343 mm clearance (for models up to 1829 mm) **– only available with Cord**
TL-13	T-Leg Stands – 343 mm clearance (for models up to 1829 mm) **– only available with Cord**
TL-16	T-Leg Stands – 406 mm clearance (for models up to 1829 mm) **– only available with Cord**
TL-18	T-Leg Stands – 457 mm clearance (for models up to 1829 mm) **– only available with Cord**

ACCESSORIES

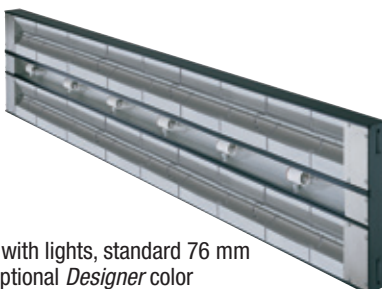|	
GR-ANGLE	Adjustable Angle Brackets (GRH models only)
ADJ ANGLE	Adjustable Angle Brackets (GRAH, GRAHL models only)
ADJ ANGLE7	178 mm tall Adjustable Angle Brackets (GRAH, GRAHL models only)
CHAIN 1	Chain Suspension **(see page 11 for illustration)**

COLORS AND FINISHES – PAGE 13

Glo-Ray® Dual Infrared Strip Heaters

Create a deeper holding area with Glo-Ray® Aluminum Dual Infrared Strip Heaters 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.

- Ensures maximum flavor, safety and holding time
- Provides even heat distribution – no cold spots
- Sturdy extruded aluminum housings that do not sag, from 457 to 1829 mm
- Metal-sheathed heating elements guaranteed against burnout and breakage for two (2) years
- Reflector does not blacken, maintaining a consistent heat pattern
- Reinforced wire guard provides operator safety without affecting heat distribution
- 76 or 152 mm spacer available
- Heavy-duty insulation minimizes heat loss
- Additional reflector styles and lower wattage elements available; consult factory for more information

GRAHL-72D with lights, standard 76 mm spacer and optional *Designer* color

GRAH-36D with standard 76 mm spacer
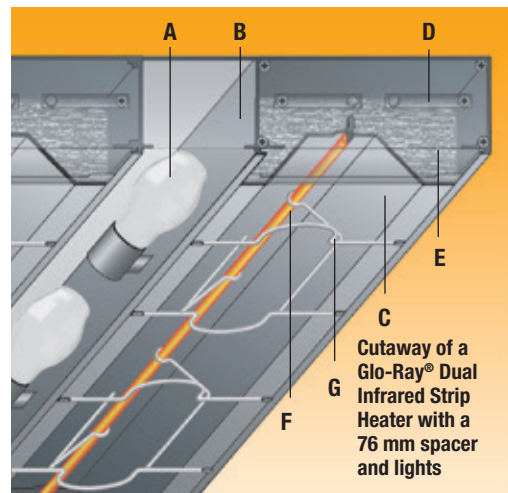
ALUMINUM DUAL STRIP HEATERS – HIGH WATT

Model	Width	Voltage Single Phase	Watts	Ship Weight
GRAH-18D	457 mm	240	700	7 kg
GRAH-24D	610 mm	240	1000	8 kg
GRAH-30D	762 mm	240	1320	9 kg
GRAH-36D	914 mm	240	1600	10 kg
GRAH-42D	1067 mm	240	1900	11 kg
GRAH-48D	1219 mm	240	2200	13 kg
GRAH-54D	1372 mm	240	2500	14 kg
GRAH-60D	1524 mm	240	2800	16 kg
GRAH-66D	1676 mm	240	3120	18 kg
GRAH-72D	1829 mm	240	3450	19 kg

All High Watt Aluminum Dual Strip Heater Models Feature:
Toggle Switch (max. 15 Amps) Location: Chef's left side (unless otherwise specified).
Leads: 152 mm pigtail leads – server's right.
Dimensions: With 76 mm Spacer (Standard): 457-1829 W x 381 D x 64 H mm.
    With 152 mm Spacer: 457-1829 W x 457 D x 64 H mm.

ALUMINUM DUAL STRIP HEATERS WITH LIGHTS – HIGH WATT

Model	Bulbs	Width	Voltage Single Phase	Watts	Ship Weight
GRAHL-18D	2	457 mm	240	820	6 kg
GRAHL-24D	2	610 mm	240	1120	7 kg
GRAHL-30D	2	762 mm	240	1440	9 kg
GRAHL-36D	3	914 mm	240	1780	10 kg
GRAHL-42D	3	1067 mm	240	2080	11 kg
GRAHL-48D	4	1219 mm	240	2440	13 kg
GRAHL-54D	4	1372 mm	240	2740	15 kg
GRAHL-60D	5	1524 mm	240	3100	17 kg
GRAHL-66D	5	1676 mm	240	3420	18 kg
GRAHL-72D	6	1829 mm	240	3810	19 kg

All High Watt Aluminum Dual Strip Heater Models with Lights Feature:
Toggle Switch (max. 15 Amps) Location: Chef's left side (unless otherwise specified).
Leads: 152 mm pigtail leads – server's right.
Dimensions: With 76 mm Spacer (Standard): 457-1829 W x 381 D x 64 H mm.
    With 152 mm Spacer: 457-1829 W x 457 D x 64 H mm.

Cutaway of a Glo-Ray® Dual Infrared Strip Heater with a 76 mm spacer and lights

A Shown with shatter-resistant incandescent lights (standard on GRAHL)

B Sturdy extruded aluminum housings that do not sag, from 457 up to 1829 mm

C Reflector does not blacken, maintaining a consistent heat pattern

D Standard hanger tab is provided for under shelf or chain installation

E Heavy-duty insulation minimizes heat loss

F Metal sheathed heating element is guaranteed against burnout and breakage for two years

G Protective reinforced wire guard supports heating element without affecting heat distribution

G R A H L - X X D

Glo-Ray
Aluminum Housing
High Watt
Dual Elements
Width (Inches)
Incandescent Light
No Character = No Lights

GRAH-60D with standard 76 mm spacer

OPTIONS (available at time of purchase only)

Designer Colors, Aluminum models 457-1829 mm – Non-standard colors are non-returnable – Clear Anodized Standard –
COLOR-15, -18   381 mm and 457 mm Housings for GRAH and GRAHL Dual models

RED	Warm Red	**GRAY**	Gray Granite	**NAVY**	Navy Blue	**COPPER**	Antique Copper
BLACK	Black	**WHITE**	White Granite	**GREEN**	Hunter Green		

Gloss Finishes, Aluminum Models 457-1829 mm – Non-standard colors are non-returnable –
GLOSS-15, -18   381 mm and 457 mm Housings for GRAH and GRAHL Dual models

RRED	Radiant Red	**GGRAY**	Glossy Gray	**BBLACK**	Bold Black
GGOLD	Gleaming Gold	**BBLUE**	Brilliant Blue		

IND. LGT   Indicator Light (Remote Control only)

Extended Electrical Leads (must specify Lead Length) –
LEADS5	305-1525 mm
LEADS10	1829-3048 mm
LEADS15	3352-4572 mm
LEADS20	4877-6096 mm

Sneeze Guards –
9.375BP1	238 mm – one side
9.375BP2	238 mm – two sides
14BP1	356 mm – one side
14BP2	356 mm – two sides
NO BULB	No Bulb option (GRAHL models only)
LIGHTS-ADD'L	Extra Lamps – installed (max. two per 305 mm less one - one per 305 mm is standard)
3 ANEAL REFL	Bright Annealed Reflector for Lights with 76 mm Spacer
6 ANEAL REFL	Bright Annealed Reflector for Lights with 152 mm Spacer

Remote Control Enclosure
Available in *Designer* Colors and Gloss Finishes – Non-standard colors are non-returnable –   **See page 11 for models**

RMB-ATT	Factory attaches Control Box to Strip Heater (GRAH, GRAHL Dual models only) **– must select RMB on page 11**
ATL-D	Adjustable Tubular Stands (254-356 mm) for Dual models **(not available in Designer Colors)** – Dual models require two pairs
NTL-10-D, 12-D	Non-Adjustable Tubular Stands for Dual models **(specify 254 or 305 mm clearance)** – Dual models require two pairs
NTL-14-D, 16-D	Non-Adjustable Tubular Stands for Dual models **(specify 356 or 406 mm clearance)** – Dual models require two pairs
NTL-PAINT-D	Non-Adjustable Tubular Stands in *Designer* Color or Gloss Finish **(specify color)** – Non-standard colors are non-returnable **– Dual models require two pairs**

ACCESSORIES

ADJ ANGLE-D	Adjustable Angle Brackets for Dual models (**Dual models require two pairs)**
ADJ ANGLE7-D	178 mm tall Adjustable Angle Brackets for Dual models (**Dual models require two pairs)**
CHAIN 1	Chain Suspension **(see page 11 for illustration)**

COLORS AND FINISHES – PAGE 13

Ultra-Glo® Ceramic Infrared Strip Heaters

Hatco Ultra-Glo® Ceramic Strip Heaters provide the ultimate holding power. Increased heights improve working clearances and the heat zone blankets the entire holding area. All models include adjustable angle brackets for mounting. Available with or without lights, with attached or remote control box enclosure (recommended). Units with lights must use a remote control box. Ideal for a fabricator who wants to incorporate a foodwarmer component into their final assembly.

- Pre-focused pyramidal heat pattern concentrates the heat at the edges where heat loss is greatest
- Increased height improves operational working clearances, giving the chef and server an improved ergonomic working environment

- Adaptable to many locations and configurations, including back-or front-of-the-house use, open kitchen concepts or buffet lines
- Optional coated shatter-resistant incandescent bulbs enhance product displays while safeguarding food from bulb breakage

UGAH-18 with optional Gloss finish (requires either an attached or remote control box – not shown)

ALUMINUM CERAMIC STRIP HEATERS – HIGH WATT

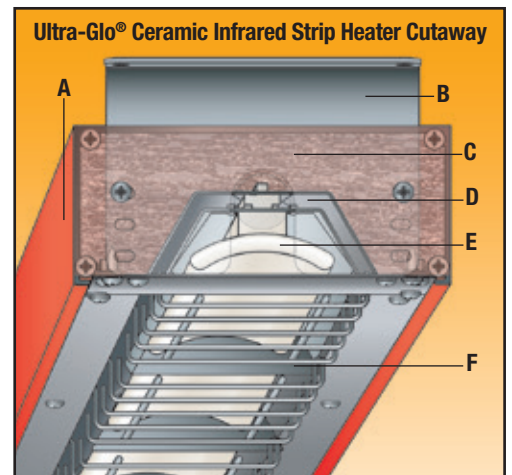| Model‡	Width	Voltage Single Phase	Watts	Ship Weight*
UGAH-18	457 mm	240	675	4 kg
UGAH-24	610 mm	240	750	5 kg
UGAH-30	762 mm	240	1125	5 kg
UGAH-36	914 mm	240	1350	5 kg
UGAH-42	1067 mm	240	1500	6 kg
UGAH-48	1219 mm	240	2025	6 kg
UGAH-54	1372 mm	240	2250	7 kg
UGAH-60	1524 mm	240	2700	8 kg
UGAH-66	1676 mm	240	2700	9 kg
UGAH-72	1829 mm	240	3000	9 kg

ALUMINUM CERAMIC STRIP HEATERS WITH LIGHTS – HIGH WATT

Model‡+	Bulbs	Width	Voltage Single Phase	Watts	Ship Weight*
UGAHL-18	1	457 mm	240	735	5 kg
UGAHL-24	2	610 mm	240	870	6 kg
UGAHL-30	2	762 mm	240	1245	7 kg
UGAHL-36	3	914 mm	240	1530	8 kg
UGAHL-42	3	1067 mm	240	1680	8 kg
UGAHL-48	4	1219 mm	240	2265	9 kg
UGAHL-54	4	1372 mm	240	2490	10 kg
UGAHL-60	5	1524 mm	240	3000	10 kg
UGAHL-66	5	1676 mm	240	3000	11 kg
UGAHL-72	6	1829 mm	240	3360	12 kg

‡ **CE Mark not available.**

* Does not include Remote Control Enclosure. Standard control box includes toggle switch(es) and indicator light(s).

+ Units with lights will be supplied with Remote Control Enclosures, with toggle switches or without switches.

All High Watt Aluminum Ceramic Strip Heater Models Feature:
Models Shipped with: Angle brackets with 152 mm leads.
UGAH Dimensions with Remote Control Enclosure, Toggle and Indicator Light:
457-1829 W x 152 D x 64 H mm.
UGAHL Dimensions with Remote Control Enclosure, Toggle and Indicator Light:
457-1829 W x 229 D x 64 H mm.
UGAH Dimensions with Attached Box: 457-1829 W x 251 D x 64 H mm.

OPTIONS – PAGE 8
REMOTE BOXES – PAGE 11
RECOMMENDED MOUNTING HEIGHTS – PAGE 11
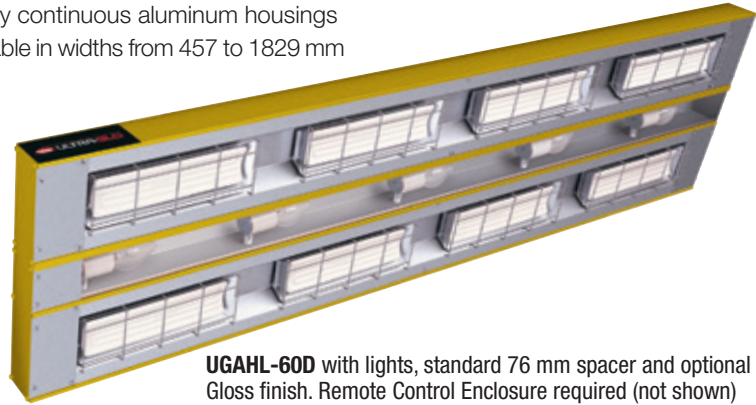
Ultra-Glo® Ceramic Infrared Strip Heater Cutaway

A Sturdy aluminum housings that do not sag, widths from 457 mm up to 1829 mm in 152 mm increments

B Adjustable standard mounting bracket (allows 3 different mounting heights and allows connection to end of the unit)

C Heavy-duty insulation surrounds heating element to keep exterior housing cooler and minimize heat loss

D Dual aluminized steel reflector keeps housing cooler, focuses more heat towards the food

E Shape of element focuses the heat on the food

F Protective wire guards under heating element

U G A H L - X X
Ultra-Glo
Aluminum Housing
High Watt
Width (Inches)
Incandescent Light
No Character = No Lights

Ultra-Glo® Ceramic Dual Infrared Strip Heaters

Hatco Ultra-Glo® Ceramic Strip Heaters provide the ultimate holding power. Increased height improves working clearances and the heat zone blankets the entire holding area. All models include adjustable angle brackets for mounting. Dual mounted Strip Heaters accommodate wider food holding areas. Ideal for a fabricator who wants to incorporate a foodwarmer component into their final assembly.

- Increased height improves operational working clearances, giving the chef and server an improved ergonomic environment to work
- Adaptable to any location and configuration, including back- or front-of-the-house use, open kitchen concepts or buffet lines
- Sturdy continuous aluminum housings
- Available in widths from 457 to 1829 mm

- Pre-focused heat pattern provides an increased pyramidal dimension, concentrating heat at the edges where heat loss is the greatest
- Remote Control Enclosure with toggle switch, indicator lights and wiring for convenient control placement

UGAHL-60D with lights, standard 76 mm spacer and optional Gloss finish. Remote Control Enclosure required (not shown)

ALUMINUM DUAL CERAMIC STRIP HEATERS – HIGH WATT

Model‡	Width	Voltage Single Phase	Watts	Ship Weight*
UGAH-18D	457 mm	240	1350	8 kg
UGAH-24D	610 mm	240	1500	9 kg
UGAH-30D	762 mm	240	2250	10 kg
UGAH-36D	914 mm	240	2700	11 kg
UGAH-42D	1067 mm	240	3000	12 kg
UGAH-48D	1219 mm	240	4050	14 kg
UGAH-54D	1372 mm	240	4500	15 kg
UGAH-60D	1524 mm	240	5400	17 kg
UGAH-66D	1676 mm	240	5400	18 kg
UGAH-72D	1829 mm	240	6000	20 kg

ALUMINUM DUAL CERAMIC STRIP HEATERS WITH LIGHTS – HIGH WATT

Model‡+	Bulbs	Width	Voltage Single Phase	Watts	Ship Weight*
UGAHL-18D	1	457 mm	240	1410	8 kg
UGAHL-24D	2	610 mm	240	1620	9 kg
UGAHL-30D	2	762 mm	240	2370	10 kg
UGAHL-36D	3	914 mm	240	2880	11 kg
UGAHL-42D	3	1067 mm	240	3180	12 kg
UGAHL-48D	4	1219 mm	240	4290	14 kg
UGAHL-54D	4	1372 mm	240	4790	15 kg
UGAHL-60D	5	1524 mm	240	5700	17 kg
UGAHL-66D	5	1676 mm	240	5700	18 kg
UGAHL-72D	6	1829 mm	240	6360	20 kg

‡ **CE Mark not available.**
* Does not include Remote Control Enclosure. Standard control box includes toggle switch(es) and indicator light(s).
+ Units with lights will be supplied with Remote Control Enclosures, with toggle switches or without switches.

All High Watt Aluminum Ceramic Dual Strip Heater Models Feature:
Models Shipped with: Angle brackets and leads (914 mm conduit whip).
UGAH(L)-XXD Dimensions with Attached Control Box, Toggle and Indicator Light: 457-1829 W x 479 D x 64 H mm.
UGAH(L)-XXD Dimensions with Remote Control Enclosure, Toggle and Indicator Light: 457-1829 W x 381 D x 64 H mm.

U G A H L - X X D

Ultra-Glo ———
Aluminum Housing ———
High Watt ———
——— Dual Elements
——— Width (Inches)
——— Incandescent Light
No Character = No Lights

UGAH-42D with standard 76 mm spacer. Remote Control Enclosure recommended (not shown)

OPTIONS *(available at time of purchase only)*

Designer Colors, Aluminum models 457-1829 mm – Non-standard colors are non-returnable – Clear Anodized Standard –

COLOR-6	152 mm Housing for Single UGAH models
COLOR-9	229 mm Housing for Single UGAHL models
COLOR-15	381 mm Housings for Dual UGAH, UGAHL models

RED	Warm Red	**GRAY**	Gray Granite	**NAVY**	Navy Blue	**COPPER**	Antique Copper
BLACK	Black	**WHITE**	White Granite	**GREEN**	Hunter Green		

Gloss Finishes, Aluminum models 457-1829 mm – Non-standard colors are non-returnable –

GLOSS-6	152 mm housing for Single UGAH models
GLOSS-9	229 mm housing for Single UGAHL models
GLOSS-15	381 mm housings for Dual UGAH, UGAHL models

RRED	Radiant Red	**GGRAY**	Glossy Gray	**BBLACK**	Bold Black
GGOLD	Gleaming Gold	**BBLUE**	Brilliant Blue		

Designer Colors, Remote Control Enclosures – Non-standard colors are non-returnable –

RMB-COLOR	Remote Control Housing in *Designer* Color – Non-standard colors are non-returnable –

RED	Warm Red	**GRAY**	Gray Granite	**NAVY**	Navy Blue	**COPPER**	Antique Copper
BLACK	Black	**WHITE**	White Granite	**GREEN**	Hunter Green		

Gloss Finishes, Remote Control Enclosures – Non-standard colors are non-returnable –

RMB-GLOSS	Remote Control Housing in Gloss Finish – Non-standard colors are non-returnable –

RRED	Radiant Red	**GGRAY**	Glossy Gray	**BBLACK**	Bold Black
GGOLD	Gleaming Gold	**BBLUE**	Brilliant Blue		

NO CONTROL	No Control included
LIGHTS-ADD'L	Extra Lamps – installed (max. two per 305 mm less one - one per 305 mm is standard)
UGA-NTL-14, -16	Non-Adjustable Tubular Stands **(specify 356 or 406 mm clearance)**
UGA-NTL-18, -20	Non-Adjustable Tubular Stands **(specify 457 or 508 mm clearance)**
UGA-NTL-22, -24	Non-Adjustable Tubular Stands **(specify 559 or 610 mm clearance)**
UGA-NTL-18-D, 20-D	Non-Adjustable Tubular Stands for Dual models **(specify 457 or 508 mm clearance) – Dual models require two pairs**
UGA-NTL-22-D, -24-D, -26-D	Non-Adjustable Tubular Stands for Dual models **(specify 559, 610 or 660 mm clearance) – Dual models require two pairs**
NTL-PAINT	*Designer* Color or Gloss Finish for Non-Adjustable Tubular Stands – Non-standard colors are non-returnable –
NTL-PAINT-D	*Designer* Color or Gloss Finish for Non-Adjustable Tubular Stands for Dual models – Non-standard colors are non-returnable **– Dual models require two pairs**

Extended Electrical Leads (extended beyond standard 914 mm Conduit) – Must specify Lead Length –

HT-LEADS5	305-1524 mm
HT-LEADS10	1829-3048 mm
HT-LEADS15	3353-4572 mm
HT-LEADS20	4877-6096 mm
RMB-UGA-INF	Remote Control Enclosure with Toggle Switch, Electronic Infinite Control, Relay and Indicator Light (in lieu of attached Control Box) – *Designer* Color and Gloss Finish available **(not available for 240V with lights)**

RMB-UGA-INF

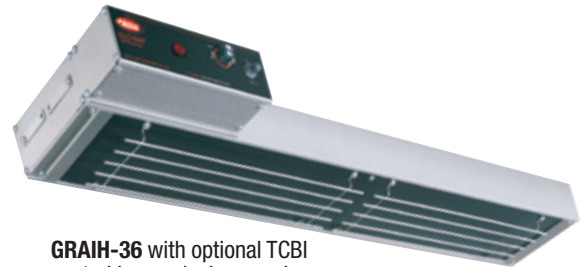## Glo-Ray® Infra-Black® Strip Heaters

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

- Provides ideal amount of heat for limited space operations, mounted 102 to 254 mm above target surface for singles and 203 to 356 mm for duals
- Metal-sheathed heating elements guaranteed against burnout and breakage for two years
- Infra-Black emitter provides even heat distribution – eliminating hot spots

- Sturdy aluminum housings that do not sag, from 457 to 1829 mm in 152 mm increments
- Heavy-duty insulation keeps the exterior housing cool
- Optional wire guard available to protect user from incidental contact with the heated surface
- Standard 76 or optional 152 mm spacer available on dual models

GRAIHL-24D in optional Gloss finish Radiant Red with standard 76 mm spacer

GRAIH-36 with optional TCBI control box and wire guard

ALUMINUM INFRA-BLACK® STRIP HEATERS – HIGH WATT

Model	Width	Voltage Single Phase	Watts	Ship Weight•
GRAIH-18	457 mm	240	350	3 kg
GRAIH-24	610 mm	240	500	5 kg
GRAIH-30	762 mm	240	660	6 kg
GRAIH-36	914 mm	240	800	7 kg
GRAIH-42	1067 mm	240	950	8 kg
GRAIH-48	1219 mm	240	1100	10 kg
GRAIH-54	1372 mm	240	1250	11 kg
GRAIH-60	1524 mm	240	1400	12 kg
GRAIH-66	1676 mm	240	1560	14 kg
GRAIH-72	1829 mm	240	1725	15 kg

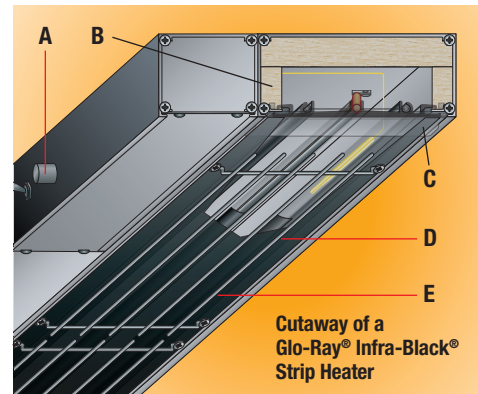### ALUMINUM DUAL INFRA-BLACK® STRIP HEATERS – HIGH WATT

Model*	Width	Voltage Single Phase	Watts	Ship Weight•
GRAIH-18D	457 mm	240	700	6 kg
GRAIH-24D	610 mm	240	1000	9 kg
GRAIH-30D	762 mm	240	1320	10 kg
GRAIH-36D	914 mm	240	1600	11 kg
GRAIH-42D	1067 mm	240	1900	12 kg
GRAIH-48D	1219 mm	240	2200	15 kg
GRAIH-54D	1372 mm	240	2500	16 kg
GRAIH-60D	1524 mm	240	2800	18 kg
GRAIH-66D	1676 mm	240	3120	19 kg
GRAIH-72D	1829 mm	240	3450	21 kg

* **Does not include Remote Control Box (RMB) or Thermostatic Control Box (TCBI). Must order either Thermostatic Control Box (see Options on page 10) or Remote Control Enclosure (see page 11).**
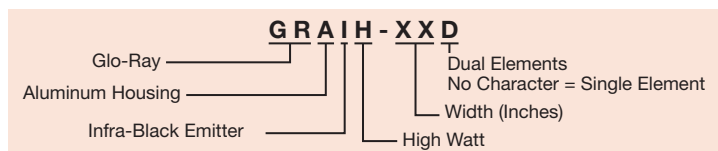• Does not include RMB.

All High Watt Aluminum Infra-Black® Strip Heater Models Feature:
Leads: 152 mm pigtail leads – server's right.
Dimensions: GRAIH: 457-1829 W x 152 D x 64 H mm.
      GRAIH-xxD with 76 mm Spacer (Standard): 457-1829 W x 381 D x 64 H mm.
      GRAIH-xxD with 152 mm Spacer: 457-1829 W x 457 D x 64 H mm.
TCBI Enclosure Dimensions (Not Including Switches): 203 W x 76 D x 64 H mm.
TCBI Enclosure Location: Chef's left side (unless otherwise specified).

OPTIONS AND ACCESSORIES – PAGE 10
RECOMMENDED MOUNTING HEIGHTS – PAGE 11

Cutaway of a Glo-Ray® Infra-Black® Strip Heater

A Thermostatically-controlled to regulate heat and provide consistent temperature (optional remote infinite control available)

B Heavy-duty insulation minimizes heat loss

C Provides ideal amount of heat for limited space operations, effectively holding product

D Optional wire guard available to protect user from incidental contact with the heated surface

E Infra-Black emitter provides even heat distribution, eliminating hot spots for close applications

G R A I H - X X D

Glo-Ray
Aluminum Housing
Infra-Black Emitter
Dual Elements
No Character = Single Element
Width (Inches)
High Watt

GRAIH-72 requires Remote Control Enclosure

OPTIONS (available at time of purchase only)

Designer Colors, Aluminum models 457-1829 mm – Non-standard colors are non-returnable – Clear Anodized Standard –

COLOR-6	152 mm Housing for Single GRAIH models						
COLOR-15, -18	381 mm and 457 mm Housings for Dual GRAIH models						
	RED	Warm Red	**GRAY**	Gray Granite	**NAVY**	Navy Blue	**COPPER** Antique Copper
	BLACK	Black	**WHITE**	White Granite	**GREEN**	Hunter Green	

Gloss Finishes, Aluminum models 457-1829 mm – Non-standard colors are non-returnable –

GLOSS-6	152 mm Housing for Single GRAIH models				
GLOSS-15, -18	381 mm and 457 mm Housings for Dual GRAIH models				
	RRED	Radiant Red	**GGRAY**	Glossy Gray	**BBLACK** Bold Black
	GGOLD	Gleaming Gold	**BBLUE**	Brilliant Blue	

Remote Control Enclosure
Available in *Designer* Colors and Gloss Finishes – Non-standard colors are non-returnable – 　　　See page 11 for models

TCBI	Thermostatic Control Box with Indicator Lights
AIH18WG -AIH72WG	Element Wire Guard **(Dual models require two sets)**
AIH4NTL	102 mm Non-Adjustable Tubular Stands
AIH6NTL	152 mm Non-Adjustable Tubular Stands
AIH8NTL	203 mm Non-Adjustable Tubular Stands
AIH10NTL	254 mm Non-Adjustable Tubular Stands
AIH12NTL-D	305 mm Non-Adjustable Tubular Stands for Dual models **(Dual models require two pairs)**
AIH14NTL-D	356 mm Non-Adjustable Tubular Stands for Dual models **(Dual models require two pairs)**
NTL-PAINT	*Designer* Color or Gloss Finish for Non-Adjustable Tubular Stands – Non-standard colors are non-returnable –
NTL-PAINT-D	*Designer* Color or Gloss Finish for Non-Adjustable Tubular Stands for Dual models – Non-standard colors are non-returnable – **Dual models require two pairs**

Extended Electrical Leads (extended beoynd standard 152 mm Pigtail Leads) – Must specify Lead Length –
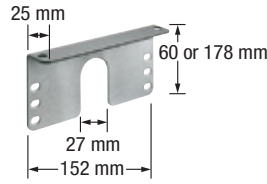
HT-LEADS5	305-1524 mm
HT-LEADS10	1829-3048 mm
HT-LEADS15	3353-4572 mm
HT-LEADS20	4877-6096 mm

ACCESSORIES

ADJ ANGLE	Adjustable Angle Brackets for Single models
ADJ ANGLE7	178 mm tall Adjustable Angle Brackets for Single models
ADJ ANGLE-D	Adjustable Angle Brackets for Dual models **(Dual models require two pairs)**
ADJ ANGLE7-D	178 mm tall Adjustable Angle Brackets for Dual models **(Dual models require two pairs)**
CHAIN 1	Chain Suspension **(see page 11 for illustration)**

COLORS AND FINISHES – PAGE 13

Glo-Ray® Mounting Arrangements

102 to 660 mm

48 mm

254 to 356 mm

51 mm

25 mm
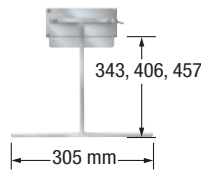
60 or 178 mm

27 mm

152 mm

PERMANENT – FOR HARD WIRED INSTALLATION

Non-Adjustable Tubular Stands
Sturdy stands conceal all supply wiring. Available in *Designer* colors. Duals require two pair. Specify power location. (Not available on Infra-Black® models.)

Adjustable Tubular Stands
Sturdy tubular stands conceal all supply wiring. Duals require two pair. Specify power location. (Not available on Ultra-Glo® models.)

Angle Brackets
Special adjustable angle brackets fit 152 or 229 mm housings for mounting Glo-Ray® under a shelf. Provides 25-51 mm space or 25 -152 mm space between Glo-Ray and overshelf. Duals require two pair. (Standard on Ultra-Glo® models.)

Chain Suspension
Chains attach to tabs provided with warmers and are available in various lengths to suit the location. (Not available on Ultra-Glo® models.)

343 mm

311 mm

343, 406, 457

305 mm

PORTABLE – FOR CORD & PLUG INSTALLATION

C-Leg Stands
Attractive plated legs allow easy relocation of the warmer. For models 1829 mm or less in width. Requires attached cord & plug set. (Not available on Ultra-Glo® and Infra-Black® models.)

T-Leg Stands
Provide rigid stability and allow for more pass-through area below unit. For models 1829 mm or less in width. Requires attached cord & plug set. (Not available on Ultra-Glo® and Infra-Black® models.)

Remote Control Enclosures

Hatco Remote Control Enclosures are built for toggle or infinite switches, indicator lights and wiring, ready for installation when purchased with Glo-Ray® Foodwarmers.

• Built for toggle or infinite switches, indicator lights and wiring

• Threaded rubber boot for toggle switch is standard

• One RMB per Strip Heater

Toggle Switch: Max. 15 amps
Infinite Switch: Max. 12.2 amps

Remote Control Enclosures: When used, no more than one RMB per Strip Heater and no more than one Strip Heater per RMB.

RMB-7DE-CE with toggle switches and optional *Designer* Color

RMB-14FE-CE with infinite controls

RMB-3HE-CE with toggle switch and indicator light

RMBS

Model	Description	Voltage Single Phase	Width
RMB-3CE-CE	1 Infinite Switch	240	140 mm
RMB-3DE-CE	1 Toggle Switch	240	140 mm
RMB-3EE-CE	2 Toggle Switches	240	140 mm
RMB-3HE-CE	1 Toggle Switch, 1 Indicator Light	240	140 mm
RMB-7CE-CE	2 Infinite Switches	240	229 mm
RMB-7DE-CE	3 Toggle Switches	240	229 mm
RMB-7HE-CE	1 Infinite Switch, 1 Indicator Light	240	229 mm
RMB-7KE-CE	2 Toggle Switches, 2 Indicator Lights	240	229 mm
RMB-7NE-CE	1 Toggle Switch, 1 Infinite Switch	240	229 mm
RMB-7QE-CE	1 Toggle Switch, 1 Infinite Switch, 1 Indicator Light	240	229 mm
RMB-14FE-CE	4 Infinite Switches	240	356 mm
RMB-14EE-CE	4 Toggle Switches	240	356 mm
RMB-14KE-CE	3 Toggle Switches, 3 Indicator Lights	240	356 mm
RMB-14NE-CE	2 Infinite Switches, 2 Indicator Lights	240	356 mm
RMB-14QE-CE	2 Toggle Switches, 2 Infinite Switches	240	356 mm
RMB-14YE-CE	1 Toggle Switch, 2 Infinite Switches	240	356 mm

OPTIONS (available at time of purchase only)

Designer Colors – Non-standard colors are non-returnable –
RMB-COLOR *Designer* Color Remote Control Housing

RED	Warm Red	**NAVY**	Navy Blue
BLACK	Black	**GREEN**	Hunter Green
GRAY	Gray Granite	**COPPER**	Antique Copper
WHITE	White Granite		

Gloss Finishes – Non-standard colors are non-returnable –
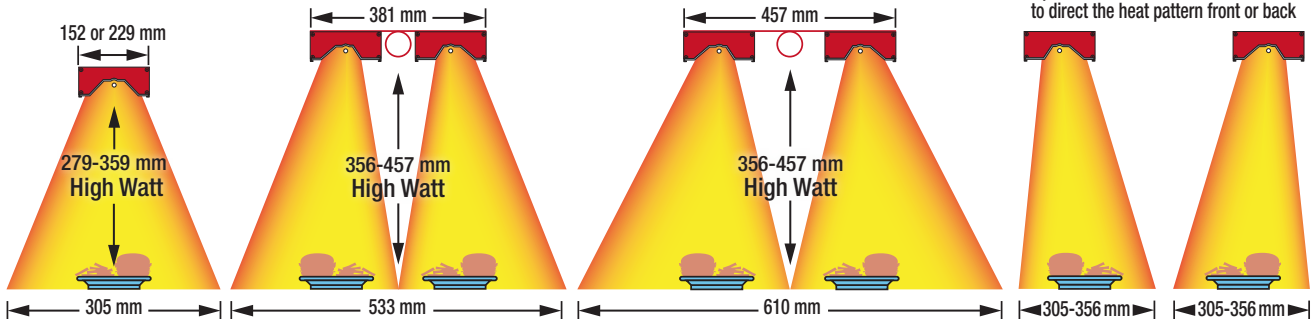**RMB-GLOSS** Gloss Finish Remote Control Housing

RRED	Radiant Red	**GGRAY**	Glossy Gray
GGOLD	Gleaming Gold	**BBLACK**	Bold Black
BBLUE	Brilliant Blue		

COLORS AND FINISHES – PAGE 13

All Models Feature:
Ship Weight: 1-3 kg depending on components.
Max. Allowable Amperage per Switch: Toggle: 15.0. Infinite: 12.2.
Dimensions (not including Switches): 140, 229 or 356 W x 76 D x 64 H mm.

Strip Heater Recommended Range Above Target*
and Spacing Requirements

(Based on 610 mm Foodwarmer)

Glo-Ray® Infrared Heating Element
(Recommended range above target)

152 or 229 mm

279-359 mm
High Watt

305 mm

381 mm

356-457 mm
High Watt

533 mm

457 mm

356-457 mm
High Watt

610 mm

Optional slant reflectors are available
to direct the heat pattern front or back

305-356 mm   305-356 mm

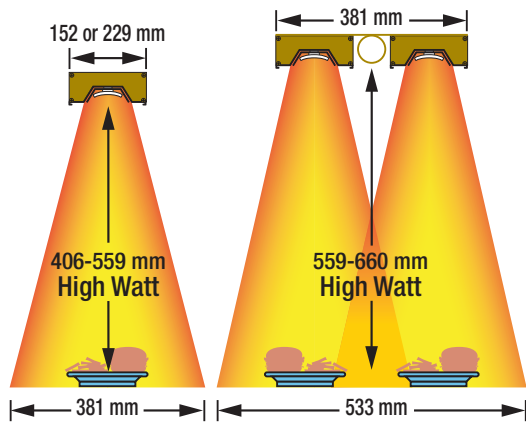**GLO-RAY® INFRARED HEATING ELEMENT**
Singles (GRH, GRAH, GRAHL) –
Combustibles: 343 mm below, 25 mm above and 76 mm to back wall. Non-combustibles: 25 mm above, 254 mm below with infinite or indicator lamp and 203 mm below toggle. Must be installed in a pass-through area. Units with remote switches may be installed against a non-combustible back wall, flush to an overshelf and 203 mm to a surface below. Maximum 254 mm setback from the front of an overshelf. Models with cords must be installed 76 mm below an overshelf and 297 mm over a surface below.

Duals (GRAH-xxD, GRAHL-xxD) –
May not be installed in combustible surroundings. Non-combustibles: 25 mm above, 254 mm below. Must be installed in a pass-through area. Units with remote switches may be installed 76 mm from a non-combustible back wall, 203 mm to surface below and flush to an overshelf. Maximum 254 mm setback from the front of an overshelf.

Ultra-Glo® Heating Element
(Recommended range above target)

152 or 229 mm

406-559 mm
High Watt
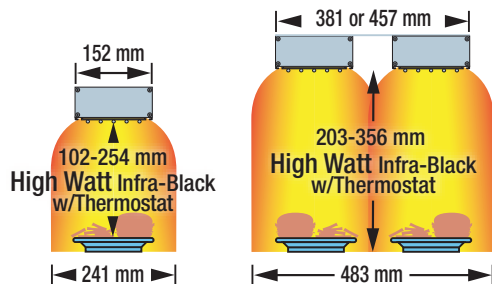
381 mm

381 mm

559-660 mm
High Watt

533 mm

ULTRA-GLO®
Singles and Duals: (UGAH, UGAHL, UGAH-xxD, UGAHL-xxD) – May not be installed in combustible surroundings. Non-combustibles: 25 mm above, 432 mm from a surface below and 76 mm from a back wall.

Dual Mounting: Do not mount warmers side by side (dual mounting) with less than a 76 mm space between units.

Infra-Black® Heating Element
(Recommended range above target)

152 mm

102-254 mm
High Watt Infra-Black
w/Thermostat

241 mm

381 or 457 mm

203-356 mm
High Watt Infra-Black
w/Thermostat

483 mm

GLO-RAY® INFRA-BLACK®
(GRAIH, GRAIH-xxD) –
May not be installed in combustible surroundings. Non-combustibles: 25 mm above and 102 mm below. Must be installed in a pass-through area. Units with remote switches may be installed 76 mm from a non-combustible back wall and flush to an overshelf. Maximum 254 mm setback from the front of an overshelf.

DEPTH OF HEAT PATTERN AT RECOMMENDED ELEMENT HEIGHT
* Recommended single unit application without base heat, based on ideal conditions. Individual applications may vary, consult factory.
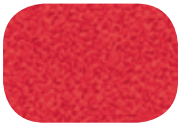
Remote Control Enclosures: When used, no more than one RMB per Strip Heater and no more than one Strip Heater per RMB.

GRAHL-96D in optional *Designer* Black with standard 76 mm spacer and optional non-adjustable tubular stands
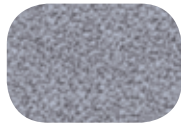
Paint Chip Sample Colors

DESIGNER COLORS

| Warm Red | Black | Gray Granite | White Granite | Navy Blue | Hunter Green | Antique Copper |

GLOSS FINISHES

| Gleaming Gold | Glossy Gray | Bold Black | Radiant Red | Brilliant Blue |

Colors are a representation and may not exactly match our colors.
Consult factory for possible color matching options on these colors.
Non-standard colors are non-returnable.

To order a Hatco Paint Chip & Stone Sample Colors Sheet, visit *www.hatcocorp.com / Order Literature / Sales Literature / Sell Sheets*.

Scan with web-enabled
mobile device to visit
www.hatcocorp.com

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