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*

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 Foodwarmers. 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 and plug set and T-legs
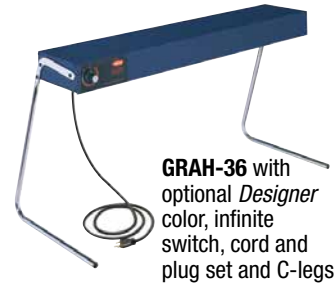
GRAH-36 with optional *Designer* color, infinite switch, cord and plug set and C-legs

STAINLESS STEEL STRIP HEATERS – HIGH WATT

Model	Width	Voltage Single Phase	Watts	Ship Weight
GRH-18	457 mm	240	350	3 kg
GRH-24	610 mm	240	500	3 kg
GRH-36	914 mm	240	800	5 kg
GRH-48	1219 mm	240	1100	5 kg
GRH-60	1524 mm	240	1400	7 kg
GRH-72	1829 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.
Dimensions: 457-1829 W x 152 D x 69 H mm.
NOTE: Sneeze guards can not be added to GRH Models.

ALUMINUM STRIP HEATERS – HIGH WATT

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

ALUMINUM STRIP HEATERS WITH LIGHTS – HIGH WATT

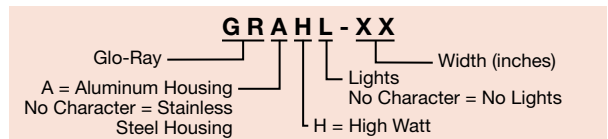| Model	Bulbs	Width	Voltage Single Phase	Watts	Ship Weight
GRAHL-18	2	457 mm	240	470	4 kg
GRAHL-24	2	610 mm	240	620	5 kg
GRAHL-30	2	762 mm	240	780	5 kg
GRAHL-36	3	914 mm	240	980	6 kg
GRAHL-42	3	1067 mm	240	1130	7 kg
GRAHL-48	4	1219 mm	240	1340	8 kg
GRAHL-54	4	1372 mm	240	1490	9 kg
GRAHL-60	5	1524 mm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

OPTIONS AND ACCESSORIES – PAGE 3
RECOMMENDED MOUNTING HEIGHTS – PAGE 12
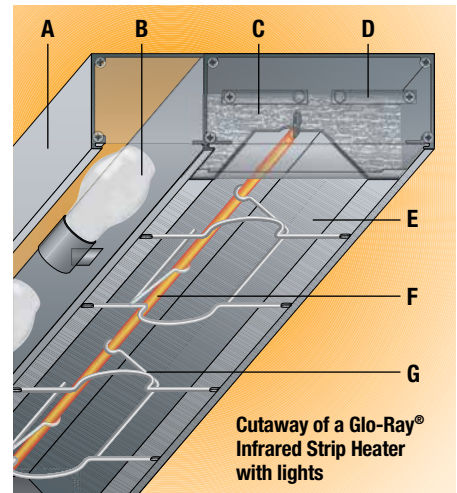
Cutaway of a Glo-Ray® Infrared Strip Heater with lights

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 –

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 and 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 –

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 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)
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 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.
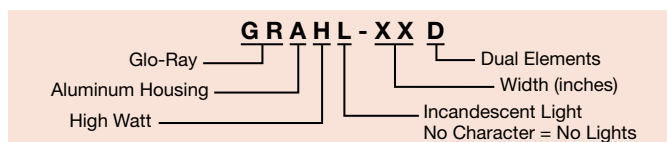
ALUMINUM DUAL STRIP HEATERS WITH LIGHTS – HIGH WATT

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® Infrared Strip Heater with a 76 mm spacer and lights
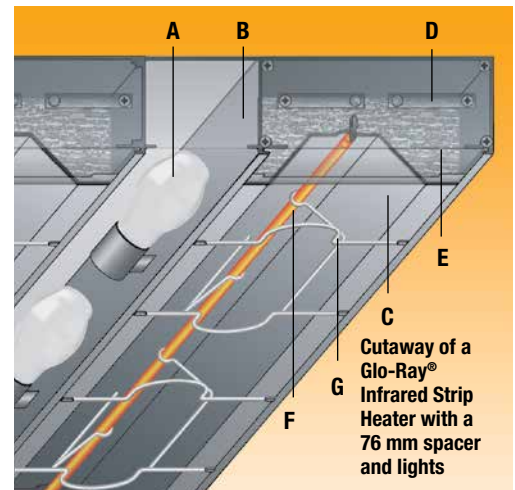
A Shown with optional shatter-resistant incandescent lights

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
- Incandescent Light
- No Character = No Lights
- Width (inches)
- Dual Elements

A series of **GRAH-60D** Strip Heaters

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)*
NTL-10-D, 12-D Non-Adjustable Tubular Stands for Dual Models *(specify 254 or 305 mm clearance)*
NTL-14-D, 16-D Non-Adjustable Tubular Stands for Dual Models *(specify 356 or 406 mm clearance)*
NTL-PAINT-D   Non-Adjustable Tubular Stands in *Designer* Color or Gloss Finish *(specify color)* – Non-standard colors are non-returnable –

ACCESSORIES

ADJ ANGLE-D   Adjustable Angle Brackets for Dual Models **(see page 11 for illustration)**
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 food warmer 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 lights 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

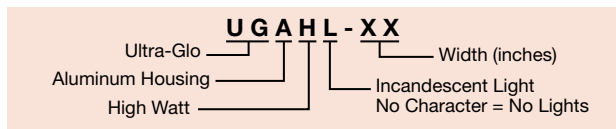| Model‡+	Bulbs	Width	Voltage Single Phase	Watts	Ship Weight*
UGAHL-18	1	457 mm	240	735	5 kg
UGAHL-24	2	610 mm	240	870	6 kg
UGAHL-30	2	762 mm	240	1245	7 kg
UGAHL-36	3	914 mm	240	1530	8 kg
UGAHL-42	3	1067 mm	240	1680	8 kg
UGAHL-48	4	1219 mm	240	2265	9 kg
UGAHL-54	4	1372 mm	240	2490	10 kg
UGAHL-60	5	1524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

Ultra-Glo® Ceramic Infrared Strip Heater Cutaway
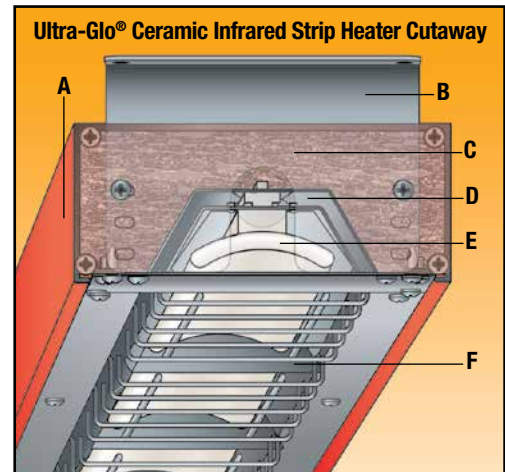
A Sturdy aluminum housings that do not sag, widths from 457 mm up to 1829 mm in 152 mm increments

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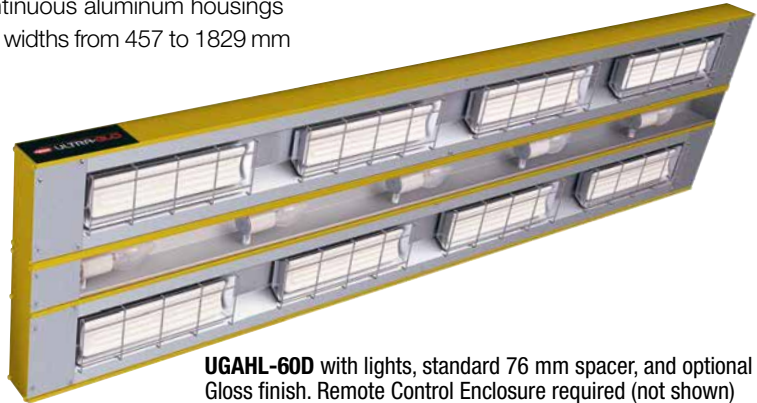
UGAHL-60D with lights, standard 76 mm spacer, and optional Gloss finish. Remote Control Enclosure required (not shown)

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.
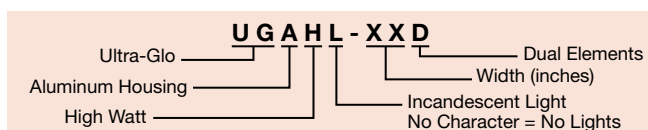
All Ceramic Dual Models Feature:

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
- Incandescent Light / No Character = No Lights
- Width (inches)
- Dual Elements

UGAH-42D with 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 –

COLOR-6	152 mm housing for Single UGAH Models (select color)
COLOR-9	229 mm housing for Single UGAHL Models (select color)
COLOR-15	381 mm housings for Dual UGAH, UGAHL Models (select color)

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 (select finish)
GLOSS-9	229 mm housing for Single UGAHL Models (select finish)
GLOSS-15	381 mm housings for Dual UGAH, UGAHL Models (select finish)

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		

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)*
UGA-NTL-22-D, -24-D, -26-D	Non-Adjustable Tubular Stands for Dual Models *(specify 559, 610 or 660 mm clearance)*
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 –

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**)

COLORS AND FINISHES – PAGE 13

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
- Optional 76 or 152 mm spacer available on dual models

GRAIHL-24D in optional Gloss finish Radiant Red

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 Enclosure (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 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.
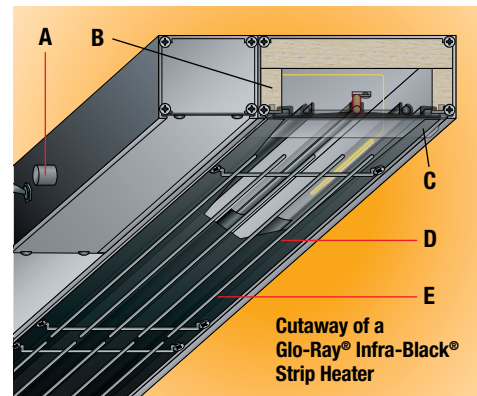   **GRAIH-xxD with 76 mm Spacer:** 457-1829 W x 381 D x 64 H mm.
        GRAIH-xxD with 152 mm Spacer: 457-1829 W x 457 D x 64 H mm.
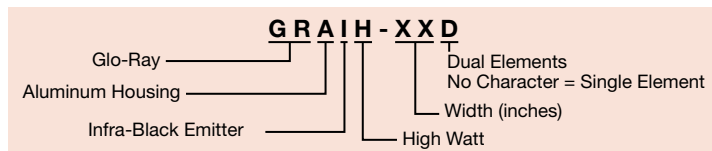**TCBI Enclosure Dimensions (not including Switches):** 203 W x 76 D x 64 H mm.
TCBI Enclosure Location: Chef's left side (unless otherwise specified).

OPTIONS AND ACCESSORIES – PAGE 10
RECOMMENDED MOUNTING HEIGHTS – PAGE 12

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 protective reinforced wire guard supports heating element without affecting heat distribution

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
High Watt
Width (inches)
Dual Elements
No Character = Single Element

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 –

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		

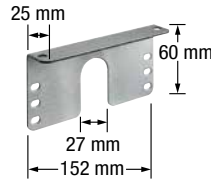| **Remote Control Enclosure**		
	Available in *Designer* Colors and Gloss Finishes – Non-standard colors are non-returnable –	**See page 11 for models**
TCBI	Thermostatic Control Box with Indicator Lights	
AIH18WG -AIH72WG	Element Wire Guard *(Dual Models require two sets)*	
AIH4NTL	102 mm Non-Adjustable Tubular Stands	
AIH6NTL	152 mm Non-Adjustable Tubular Stands	
AIH8NTL	203 mm Non-Adjustable Tubular Stands *(Dual Models require two pair)*	
AIH10NTL	254 mm Non-Adjustable Tubular Stands *(Dual Models require two pair)*	
AIH12NTL-D	305 mm Non-Adjustable Tubular Stands for Dual Models	
AIH14NTL-D	356 mm Non-Adjustable Tubular Stands for Dual Models	
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 –	

ACCESSORIES

ADJ ANGLE	Adjustable Angle Brackets **(see page 11 for illustration)**
ADJ ANGLE-D	Adjustable Angle Brackets for Dual Models *(Dual Models require two pair)*. **See page 11 for illustration**
CHAIN 1	Chain Suspension

COLORS AND FINISHES – PAGE 13

Strip Heater Solutions **hatco**®

Glo-Ray® Mounting Arrangements

102 to 660 mm

48 mm

254 to 356 mm

51 mm

25 mm

60 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 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
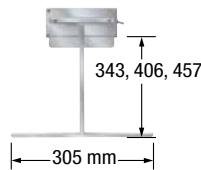
PORTABLE - FOR CORD & PLUG INSTALLATION

C-Leg Stands
Attractive plated legs allow easy relocation of the warmer. For models 1829 mm or less in width. Requires attached cord and plug. (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 and plug. (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

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 .

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

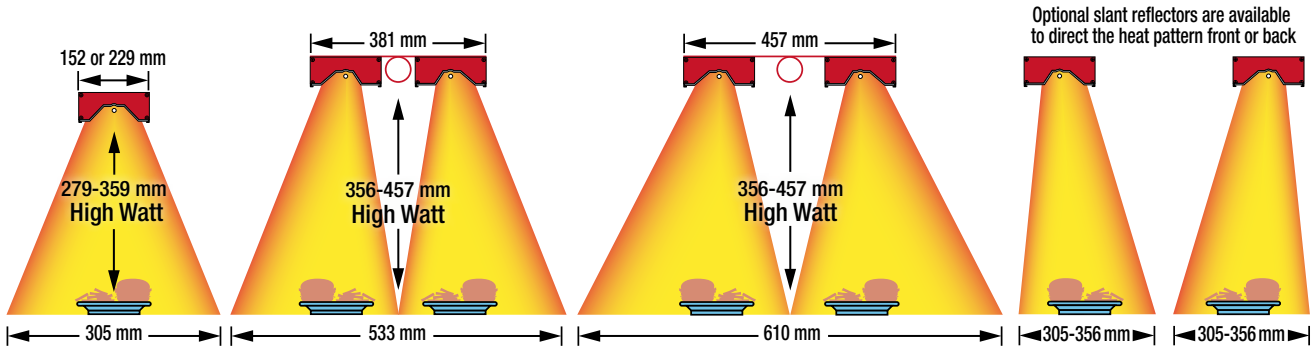|			
RRED	Radiant Red	**GGRAY**	Glossy Gray
GGOLD	Gleaming Gold	**BBLACK**	Bold Black
BBLUE	Brilliant Blue		

COLORS AND FINISHES – PAGE 13

Details Of Strip Heater Recommended Range Above Target*
(Based on 610 mm foodwarmer)

Strip Heater Spacing Requirements

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

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

152 or 229 mm

381 mm

457 mm

279-359 mm
High Watt

356-457 mm
High Watt

356-457 mm
High Watt

305 mm

533 mm

610 mm

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-D, GRAHL-D) –
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

381 mm

406-559 mm
High Watt

559-660 mm
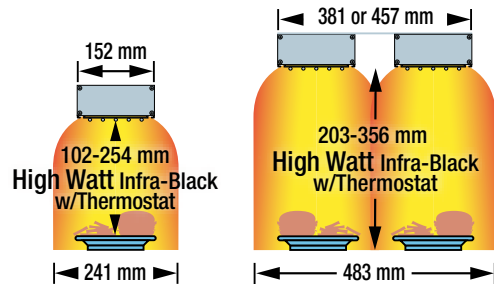**High Watt**

381 mm

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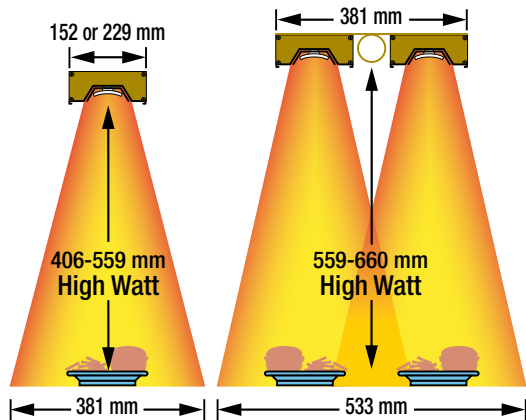
ULTRA-GLO®
Singles and Duals: (UGAH, UGAHL, UGAH-D, UGAHL-D) –
May not be installed in combustible surroundings. Non-combustibles: 25 mm above, 432 mm from a surface below and 76 mm from a back wall.

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

381 or 457 mm

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

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

241 mm

483 mm

GLO-RAY® INFRA-BLACK®
(GRAIH, GRAIH-D) –
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.
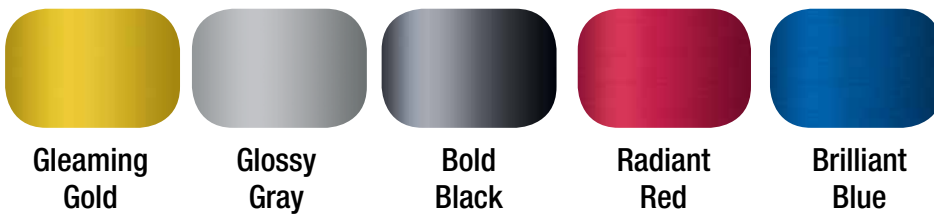
GRAHL-96D in optional *Designer* Black with standard 76 mm spacer and optional non-adjustable tubular stands

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

Hatco Corporation
St. George's House | Rearsby Business Park
Gaddesby Lane | Rearsby | Leicestershire L37 4YH
Tel: 01509 260 140 | Fax: 01509 260 151
www.hatcocorp.com | sales@gamblefs.co.uk