



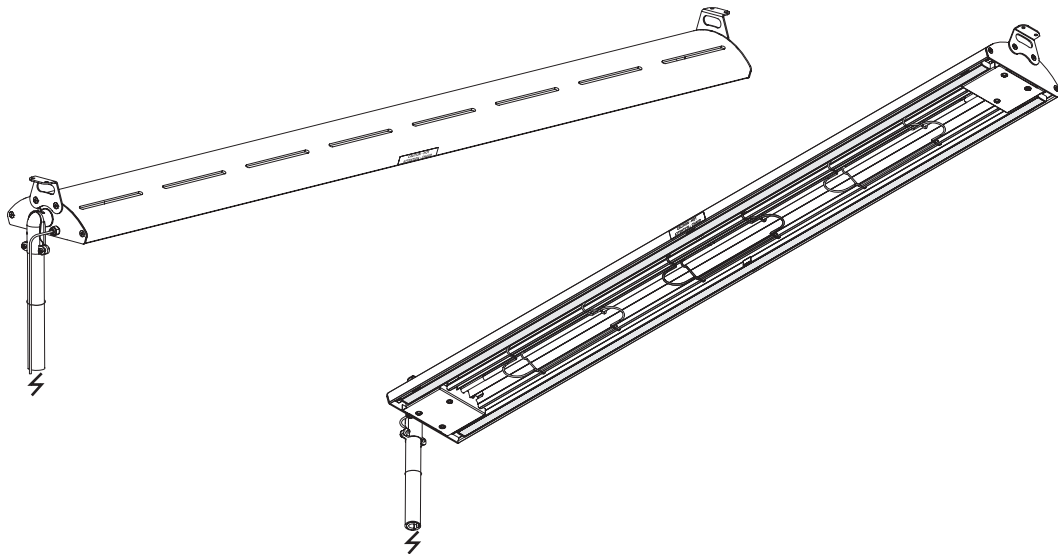
Register Online!
(see page 2)



Glo-Ray®

Curved Infrared Strip Heaters GR5A, GR5AH, GR5AL, and GR5AHL Series/Série

Installation and Operating Manual



⚠ WARNING

Do not operate this equipment unless you have read and understood the contents of this manual! Failure to follow the instructions contained in this manual may result in serious injury or death. This manual contains important safety information concerning the maintenance, use, and operation of this product. If you're unable to understand the contents of this manual, please bring it to the attention of your supervisor. Keep this manual in a safe location for future reference.

Important Owner Information	2	Operation	11
Introduction	2	General.....	11
Important Safety Information	3	Maintenance	12
Model Description	4	General.....	12
Model Designation	4	Daily Cleaning.....	12
Specifications	4	Replacing a Display Light.....	12
Dimensions — Strip Heater.....	4	Troubleshooting Guide	13
Dimensions — Control Box.....	5	Options and Accessories	14
Electrical Ratings Charts.....	5	Limited Warranty	18
Installation	7	Authorized Parts Distributors	Back Cover
General.....	7		
Installation Site Requirements.....	8		
Installing the Unit.....	8		
Installing the Controls.....	9		

IMPORTANT OWNER INFORMATION

Record the model number, serial number, voltage, and purchase date of your strip heater in the spaces below (specification label located on the underside of the unit). Please have this information available when calling Hatco® for service assistance.

Model No. _____

Serial No. _____

Voltage _____

Date of Purchase _____

Register your unit!

Completing online warranty registration will prevent delay in obtaining warranty coverage. Access the Hatco website at www.hatcocorp.com, select the *Support* pull-down menu, and click on "Warranty".

Business

Hours: 7:00 AM to 5:00 PM Monday–Friday,
Central Time (CT)
(Summer Hours — June to September:
7:00 AM to 5:00 PM Monday–Thursday
7:00 AM to 4:00 PM Friday)

Telephone: 414-671-6350

E-mail: support@hatcocorp.com



24 Hour 7 Day Parts and Service Assistance available in the United States and Canada by calling 414-671-6350.

Additional information can be found by visiting our web site at www.hatcocorp.com.

INTRODUCTION

Hatco Glo-Ray® Curved Infrared Strip Heaters keep hot foods at optimum serving temperatures longer. The sleek, curved design minimizes the strip heaters size while accenting and warming the food product below. Specially designed reflectors direct the heat from the element to safely maintain peak serving temperatures longer without cooking the food beyond the point of excellence. Glo-Ray Curved Strip Heaters are perfect for front-of-the-house applications such as buffet and serving lines.

Glo-Ray Curved Infrared Strip Heaters are products of extensive research and field testing. The materials used were selected for maximum durability, attractive appearance, and optimum performance. Every unit is inspected and tested thoroughly prior to shipment.

This manual provides the installation, safety, and operating instructions for Glo-Ray Curved Infrared Strip Heaters. Hatco recommends all installation, operating, and safety instructions appearing in this manual be read prior to installation or operation of a unit.

Safety information that appears in this manual is identified by the following signal word panels:



WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.



CAUTION indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.



NOTICE is used to address practices not related to personal injury.



Read the following important safety information before using this equipment to avoid serious injury or death and to avoid damage to equipment or property.

⚠ WARNING

ELECTRIC SHOCK HAZARD:

- Units require a hardwired connection to on-site electrical system. Connection must be properly grounded and of correct voltage, size, and configuration for electrical specifications of unit. Contact a qualified electrician to determine and install proper electrical connection.
- Unit must be installed by a qualified electrician. Installation must conform to all local electrical codes. Installation by unqualified personnel will void unit warranty and may lead to electric shock or burn, as well as damage to unit and/or its surroundings.
- Control box must be mounted in a vertical surface. Mounting control box in a horizontal surface may result in the collection of liquids and lead to electric shock.
- Turn OFF power switch, turn off power at circuit breaker, and allow unit to cool before performing any cleaning, adjustments, or maintenance.
- DO NOT submerge or saturate with water. Unit is not waterproof. Do not operate if unit has been submerged or saturated with water.
- This unit is not “jet-proof” construction. Do not use jet-clean spray to clean this unit.
- Do not steam clean or use excessive water on unit.
- Use only Genuine Hatco Replacement Parts when service is required. Failure to use Genuine Hatco Replacement Parts will void all warranties and may subject operators of the equipment to hazardous electrical voltage, resulting in electrical shock or burn. Genuine Hatco Replacement Parts are specified to operate safely in the environments in which they are used. Some after-market or generic replacement parts do not have the characteristics that will allow them to operate safely in Hatco equipment.

FIRE HAZARD:

- Do not install high wattage units above or around combustible surfaces. Discoloration or combustion could occur. High wattage units must be installed in non-combustible surroundings only.
- Make sure to follow the installation information listed below for specific strip heaters. If safe distances are not maintained, discoloration or combustion could occur.
 - a. Do not install standard wattage strip heaters (GR5A, GR5AL models) less than 11" (279 mm) above combustible surfaces.
 - b. Do not install high wattage strip heaters (GR5AH, GR5AHL models) less than 10" (254 mm) above non-combustible surfaces.
 - c. Do not install standard wattage units less than 1" (25 mm) away from a combustible wall or adjacent surface.

EXPLOSION HAZARD: Do not store or use gasoline or other flammable vapors or liquids in the vicinity of this or any other appliance.

Make sure all operators have been instructed on the safe and proper use of the unit.

⚠ WARNING

This unit is not intended for use by children or persons with reduced physical, sensory, or mental capabilities. Ensure proper supervision of children and keep them away from the unit.

Use only Hatco-approved LED light assemblies that are designed specifically for food holding areas. Using LED light assemblies not designed for food holding areas could result in personal injury and/or food contamination.

Make sure food product has been heated to the proper food-safe temperature before placing in unit. Failure to heat food product properly may result in serious health risks. This unit is for holding pre-heated food product only.

This unit has no “user-serviceable” parts. If service is required on this unit, contact an Authorized Hatco Service Agent or contact the Hatco Service Department at 414-671-6350.

⚠ CAUTION

BURN HAZARD: Some exterior surfaces on the unit will get hot. Use caution when touching these areas.

Standard and approved manufacturing oils may smoke up to 30 minutes during initial startup. This is a temporary condition. Operate unit without food product until smoke dissipates.

To ensure safe and proper operation, refer to “Installation Site Requirements” in the INSTALLATION section of this manual.

NOTICE

Units are voltage-specific. Refer to specification label for electrical requirements before beginning installation.

Do not add a decorative soffit to hide a pass-through mounted strip heater. Excessive heat can cause unit failure.

Install remote-mounted control box outside of areas subject to temperatures above 104°F (40°C). Excessive temperatures will cause controls to overheat, malfunction, and fail.

Damage to any countertop material caused by heat generated from Hatco equipment is not covered under the Hatco warranty. Contact the manufacturer of the countertop material for application information.

Use non-abrasive cleaners and cloths only. Abrasive cleaners and cloths could scratch the finish of the unit, marring its appearance and making it susceptible to soil accumulation.

Do not locate unit in area with excessive air movement around unit. Avoid areas that may be subject to active air movements or currents (i.e., near exhaust fans/hoods, air conditioning ducts, and exterior doors).

MODEL DESCRIPTION

English

All Models

All Glo-Ray® Curved Infrared Strip Heaters consist of a curved, aluminum housing that is ideal for installation in tight spaces. A pre-focused heat pattern directs heat from a tubular element to bathe the entire holding surface below. Curved Infrared Strip Heaters are available in standard or high wattage configurations in widths of 18"–72" (457–1829 mm). Finish options include several *Designer* colors and gloss finishes.

Curved Infrared Strip Heaters are supplied with angle brackets for under-shelf mounting. The standard 5' (1524 mm) element wire leads are housed in 3' (914 mm) of conduit.

NOTE: Refer to the OPTIONS AND ACCESSORIES section for countertop mounting options.

NOTE: Units can be ordered with up to 10' (3 m) of element wire leads, depending on the installation location of the control box. On units with lights, the LED wire leads will be 18" (457 mm) longer than the element wire leads.

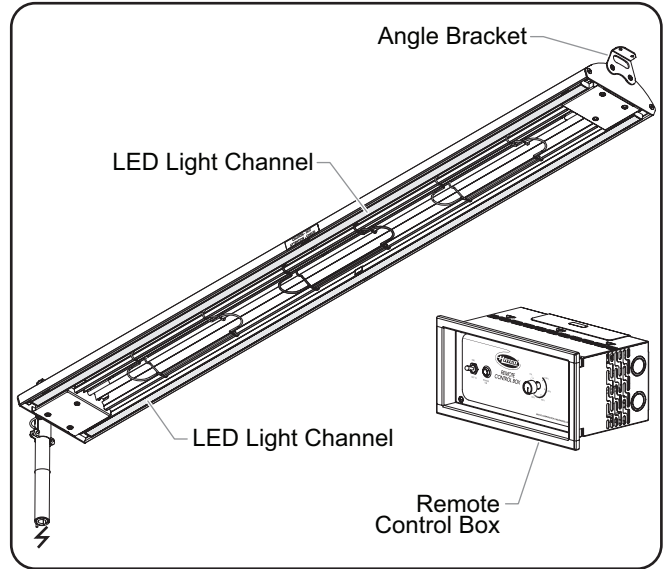
GR5A and GR5AH Models

These models are heat only. Controls options are all remote-mounted and include a control box, ON/OFF (I/O) Toggle Switch, or an Infinite Heat Control.

IMPORTANT NOTE—LED Color Temperature
 "Warm White" = color temperature range 2700–3200 K.
 "Cool White" = color temperature range 4000–4300 K.

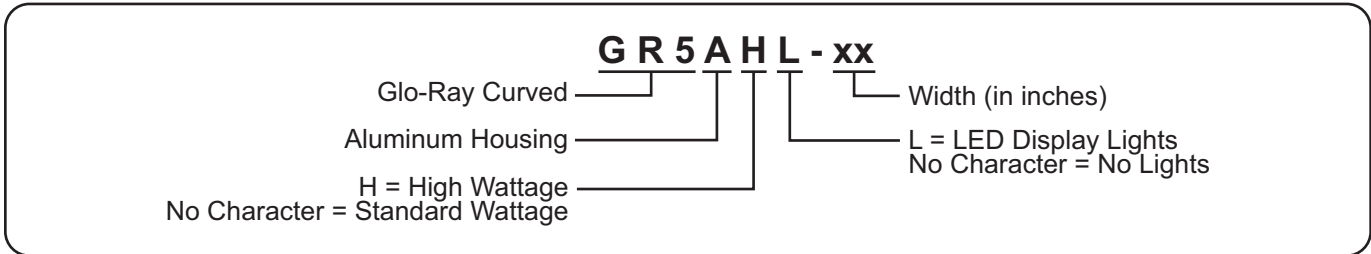
GR5AL and GR5AHL Models

In addition to heat, these models include two LED light channels that provide display lighting to accent the food product below. The LED color temperature options include Warm White or Cool White. The included controls are housed in a remote-mounted control box and include an ON/OFF (I/O) Toggle Switch, a POWER ON Indicator Light, and an Infinite Heat Control Knob. The standard LED wire leads are 18" (457 mm) longer than the element wire leads.



GR5AL Series Strip Heater

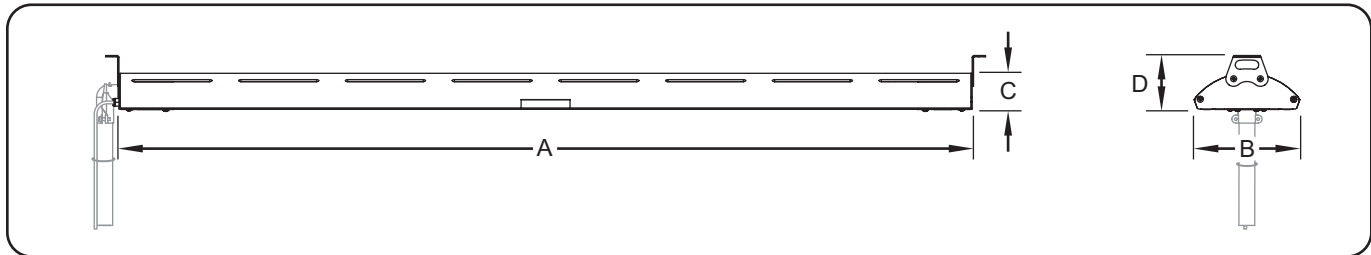
MODEL DESIGNATION



SPECIFICATIONS

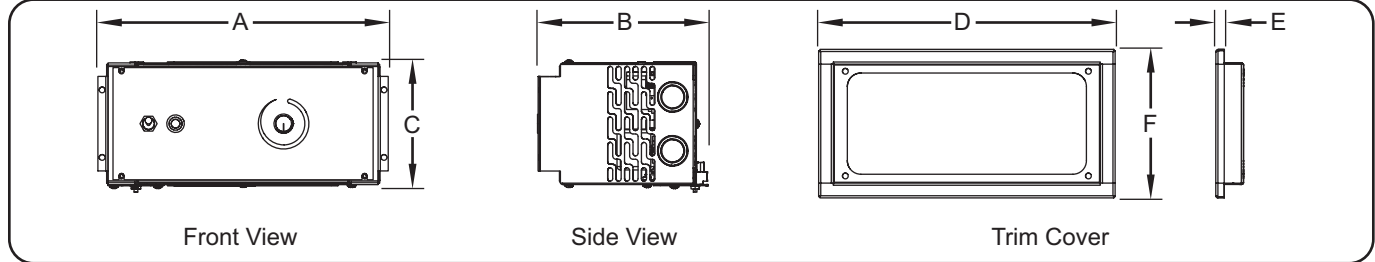
Dimensions — Strip Heater

Model	Width (A)	Depth (B)	Unit Height (C)	Overall Height (D)
GR5A, GR5AL, GR5AH, and GR5AHL	18"–72" (457–1829 mm)	5-15/16" (149 mm)	2" (51 mm)	3" (76 mm)



Dimensions — Control Box (GR5AL Series)

Model	Width (A)	Depth (B)	Height (C)	Cover Width (D)	Cover Depth (E)	Cover Height (F)
Control Box	10-1/8" (257 mm)	6-1/4" (159 mm)	4-3/4" (120 mm)	11" (279 mm)	5/16" (8 mm)	5-1/2" (140 mm)



NOTE: Make sure the control box installation location provides enough space behind the vertical surface for the depth of the control box and electrical connections.

NOTE: Shipping weights shown below are estimates.

Electrical Ratings Chart — GR5A Models

Model	Voltage	Watts	Amps	Shipping Weight
GR5A-18	120 V	250 W	2.1 A	10 lbs. (5 kg)
	208 V		1.2 A	
	240 V		1.0 A	
GR5A-24	120 V	350 W	2.9 A	11 lbs. (5 kg)
	208 V		1.7 A	
	240 V		1.4 A	
GR5A-30	120 V	450 W	3.8 A	12 lbs. (5 kg)
	208 V		2.2 A	
	240 V		1.9 A	
GR5A-36	120 V	575 W	4.8 A	13 lbs. (6 kg)
	208 V		2.8 A	
	240 V		2.4 A	
GR5A-42	120 V	675 W	5.6 A	14 lbs. (6 kg)
	208 V		3.2 A	
	240 V		2.8 A	
GR5A-48	120 V	800 W	6.7 A	15 lbs. (7 kg)
	208 V		3.8 A	
	240 V		3.3 A	
GR5A-54	120 V	925 W	7.7 A	17 lbs. (8 kg)
	208 V		4.4 A	
	240 V		3.9 A	
GR5A-60	120 V	1050 W	8.8 A	18 lbs. (8 kg)
	208 V		5.0 A	
	240 V		4.4 A	
GR5A-66	120 V	1160 W	9.7 A	19 lbs. (9 kg)
	208 V		5.6 A	
	240 V		4.8 A	
GR5A-72	120 V	1275 W	10.6 A	20 lbs. (9 kg)
	208 V		6.1 A	
	240 V		5.3 A	

Electrical Ratings Chart — GR5AL Models

Model	Voltage	Watts	Amps	Shipping Weight
GR5AL-18	120 V	254 W	2.2 A	13 lbs. (6 kg)
	208 V		1.2 A	
	240 V		1.1 A	
GR5AL-24	120 V	356 W	3.0 A	14 lbs. (7 kg)
	208 V		1.7 A	
	240 V		1.5 A	
GR5AL-30	120 V	458 W	3.9 A	15 lbs. (7 kg)
	208 V		2.2 A	
	240 V		1.9 A	
GR5AL-36	120 V	584 W	4.9 A	17 lbs. (8 kg)
	208 V		2.9 A	
	240 V		2.5 A	
GR5AL-42	120 V	686 W	5.8 A	18 lbs. (9 kg)
	208 V		3.3 A	
	240 V		2.9 A	
GR5AL-48	120 V	812 W	6.9 A	20 lbs. (9 kg)
	208 V		4.0 A	
	240 V		3.4 A	
GR5AL-54	120 V	939 W	7.9 A	21 lbs. (10 kg)
	208 V		4.6 A	
	240 V		4.0 A	
GR5AL-60	120 V	1066 W	9.0 A	22 lbs. (10 kg)
	208 V		5.2 A	
	240 V		4.5 A	
GR5AL-66	120 V	1177 W	10.0 A	24 lbs. (11 kg)
	208 V		5.7 A	
	240 V		5.0 A	
GR5AL-72	120 V	1294 W	10.9 A	25 lbs. (12 kg)
	208 V		6.3 A	
	240 V		5.5 A	

Electrical Ratings Chart — GR5AH Models

Model	Voltage	Watts	Amps	Shipping Weight
GR5AH-18	120 V	350 W	2.9 A	10 lbs. (5 kg)
	208 V		1.7 A	
	240 V		1.5 A	
GR5AH-24	120 V	500 W	4.2 A	11 lbs. (5 kg)
	208 V		2.4 A	
	240 V		2.1 A	
GR5AH-30	120 V	660 W	5.5 A	12 lbs. (5 kg)
	208 V		3.2 A	
	240 V		2.8 A	
GR5AH-36	120 V	800 W	6.7 A	13 lbs. (6 kg)
	208 V		3.8 A	
	240 V		3.3 A	
GR5AH-42	120 V	950 W	7.9 A	14 lbs. (6 kg)
	208 V		4.6 A	
	240 V		4.0 A	
GR5AH-48	120 V	1100 W	9.2 A	15 lbs. (7 kg)
	208 V		5.3 A	
	240 V		4.6 A	
GR5AH-54	120 V	1250 W	10.4 A	17 lbs. (8 kg)
	208 V		6.0 A	
	240 V		5.2 A	
GR5AH-60	120 V	1400 W	11.7 A	18 lbs. (8 kg)
	208 V		6.7 A	
	240 V		5.8 A	
GR5AH-66	120 V	1560 W	13.0 A*	19 lbs. (9 kg)
	208 V		7.5 A	
	240 V		6.2	
GR5AH-72	120 V	1725 W	14.4 A*	20 lbs. (9 kg)
	208 V		8.3 A	
	240 V		7.2 A	

Electrical Ratings Chart — GR5AHL Models

Model	Voltage	Watts	Amps	Shipping Weight
GR5AHL-18	120 V	354 W	3.0 A	13 lbs. (6 kg)
	208 V		1.7 A	
	240 V		1.5 A	
GR5AHL-24	120 V	506 W	4.3 A	14 lbs. (7 kg)
	208 V		2.5 A	
	240 V		2.1 A	
GR5AHL-30	120 V	668 W	5.6 A	15 lbs. (7 kg)
	208 V		3.2 A	
	240 V		2.8 A	
GR5AHL-36	120 V	809 W	6.8 A	17 lbs. (8 kg)
	208 V		3.9 A	
	240 V		3.4 A	
GR5AHL-42	120 V	961 W	8.1 A	18 lbs. (9 kg)
	208 V		4.7 A	
	240 V		4.0 A	
GR5AHL-48	120 V	1112 W	9.4 A	20 lbs. (9 kg)
	208 V		5.4 A	
	240 V		4.7 A	
GR5AHL-54	120 V	1264 W	10.7 A	21 lbs. (10 kg)
	208 V		6.1 A	
	240 V		5.3 A	
GR5AHL-60	120 V	1416 W	11.9 A	22 lbs. (10 kg)
	208 V		6.9 A	
	240 V		6.0 A	
GR5AHL-66	120 V	1577 W	13.3 A	24 lbs. (11 kg)
	208 V		7.7 A	
	240 V		6.6 A	
GR5AHL-72	120 V	1744 W	14.7 A	25 lbs. (12 kg)
	208 V		8.5 A	
	240 V		7.3 A	

* Infinite control not available.

General

Use the information in this section to install a Glo-Ray® Curved Infrared Strip Heater. Strip heaters are shipped with most components pre-assembled.

WARNING

ELECTRIC SHOCK HAZARD:

- Units require a hardwired connection to on-site electrical system. Connection must be properly grounded and of correct voltage, size, and configuration for electrical specifications of unit. Contact a qualified electrician to determine and install proper electrical connection.
- Unit must be installed by a qualified electrician. Installation must conform to all local electrical codes. Installation by unqualified personnel will void unit warranty and may lead to electric shock or burn, as well as damage to unit and/or its surroundings.

FIRE HAZARD:

- Do not install high wattage units above or around combustible surfaces. Discoloration or combustion could occur. High wattage units must be installed in non-combustible surroundings only.
- Make sure to follow the installation information listed below for specific strip heaters. If safe distances are not maintained, discoloration or combustion could occur.
 - a. Do not install standard wattage strip heaters (GR5A, GR5AL models) less than 11" (279 mm) above combustible surfaces.
 - b. Do not install high wattage strip heaters (GR5AH and GR5AHL models) less than 10" (254 mm) above non-combustible surfaces.
 - c. Do not install standard wattage units less than 1" (25 mm) away from a combustible wall or adjacent surface.

CAUTION

To ensure safe and proper operation, refer to "Installation Site Requirements" in the INSTALLATION section of this manual.

NOTICE

Units are voltage-specific. Refer to specification label for electrical requirements before beginning installation.

Do not add a decorative soffit to hide a pass-through mounted strip heater. Excessive heat can cause unit failure.

Damage to any countertop material caused by heat generated from Hatco® equipment is not covered under the Hatco warranty. Contact the manufacturer of the countertop material for application information.

NOTE: Contact the manufacturer of the countertop base material for application information and surface temperature limits before installing the unit.

1. Remove the unit from the shipping carton, and remove all packing materials.

NOTE: To prevent delay in obtaining warranty coverage, complete online warranty registration. See the IMPORTANT OWNER INFORMATION section for details.

2. Remove tape and protective packaging from all surfaces of the unit.

NOTE: For units equipped with tubular stands, refer to the OPTIONS AND ACCESSORIES section for installation details.

3. Install the unit in an appropriate location. Refer to "Installation Site Requirements" and the "Installing the Unit" procedure in this section.

- Locate the unit in an area where the ambient air temperature is constant and a minimum of 70°F (21°C). Avoid areas that may be subject to active air movements or currents (i.e., near exhaust fans/hoods, air conditioning ducts, and exterior doors).

- Verify that minimum clearance requirements and recommended mounting heights are met. Refer to "Installation Site Requirements" in this section.

- GR5A and GR5AL Series strip heaters can be installed over a steam table. Follow the standard minimum clearance requirements.

4. Install the remote control box or individual controls in the desired location. Refer to "Installing the Controls" in this section for detailed information.

Installation Site Requirements

The installation site must meet specific requirements for safe and proper installation of the unit.

- Make sure the countertop material is designed to withstand long periods of hot food holding temperatures. Contact the manufacturer of the countertop material for application information.
- Make sure the installation site provides the proper minimum clearances for adjacent surfaces.



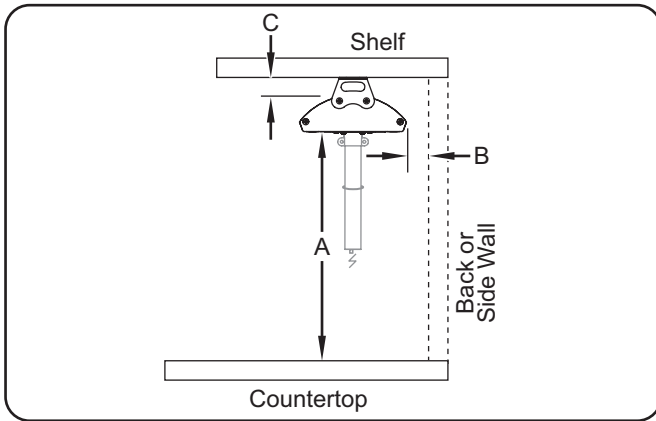
FIRE HAZARD: Do not install high wattage units above or around combustible surfaces. Discoloration or combustion could occur. High wattage units must be installed in non-combustible surroundings only.

Minimum Clearance Requirements— Combustible Surroundings

Model	A	B	C
GR5A and GR5AL	11" (279 mm)	1" (25 mm)	1" (25 mm)

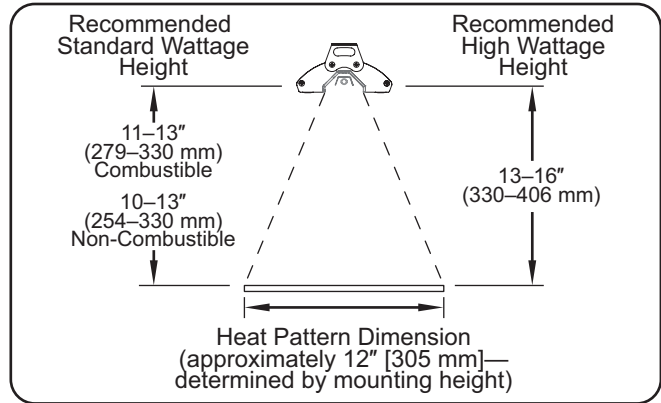
Minimum Clearance Requirements— Non-Combustible Surroundings

Model	A	B	C
GR5A and GR5AL	10" (254 mm)	0" (0 mm)	1" (25 mm)
GR5AH and GR5AHL	10" (254 mm)	0" (0 mm)	1" (25 mm)



Minimum Clearances

NOTE: GR5A and GR5AL Series strip heaters can be installed over a steam table. Follow the minimum clearance requirements for non-combustible surroundings.



Recommended Element Height for the GR5A Series in all widths
NOTE: The size of heat pattern will vary depending on the height of the unit.

Installing the Unit

Use the following procedure to install the unit using the supplied angle brackets.

NOTE: Units can be ordered with up to 10' (3 m) of element wire leads, depending on the installation location of the control box. On light-equipped units, the LED wire leads always will be 18" (457 mm) longer than the element wire leads.



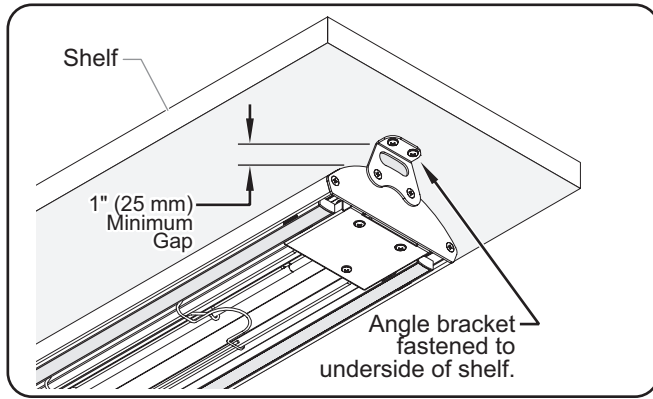
Damage to any countertop material caused by heat generated from Hatco® equipment is not covered under the Hatco warranty. Contact manufacturer of countertop material for application information.

1. Determine the exact mounting location on the underside of the shelf.

NOTE: The attached angle brackets provide 1" (25 mm) clearance between the unit and an overshelf.

NOTE: Units can be mounted to a flat shelf or a shelf with rolled/flanged edges. The unit must be installed with the minimum 1" (25 mm) clearance measured from the lowest part of the overshelf. For example, a shelf with a 1" (25 mm) flanged edge would require the unit to be installed 2" (51 mm) below the underside of the shelf. If minimum distances are not maintained, damage to the surroundings and/or failure to the unit could occur.

2. Fasten the angle brackets to the underside of the shelf using appropriate fasteners (not supplied by Hatco). Make sure the unit is facing the desired direction with the wire leads on the proper side before fastening the unit to the shelf.



Flat Shelf Installation

3. Route the element wire leads and LED wire leads toward the installation location for the control box/controls.

NOTE: Curved Infrared Strip Heaters with lights (GR5AL Series) require two separate power supplies from the control box. A high voltage supply for the heating element and a low voltage supply for the LED light channels.

Installing the Controls

GR5A and GR5AL Series strip heaters have different control options. GR5A Series units can be ordered with an RMB Series Remote Control Box or individual, remote-mounted controls. GR5AL Series units come standard with a specific remote-mounted control box. Refer to the appropriate section below for installation information.

Remote Control Boxes (RMB)—GR5A Series

Hatco Remote Control Boxes (RMB Series) include switches, wire leads, and/or indicator lights and are shipped ready for installation.

The RMB Series require one remote control box per strip heater.

NOTE: Remote control boxes are available in several configurations depending on the model. All boxes are built in accordance with UL standards to accommodate switches, indicator lights, and wiring. See the OPTIONS AND ACCESSORIES section for more information.

Remote Mounted Controls—GR5A Series

Optional remote mounted control switches include ON/OFF (I/O) toggle switches and infinite heat controls. These controls need to be installed into an approved electrical box/enclosure (not supplied) by a qualified electrician. See the OPTIONS AND ACCESSORIES section for more information.

NOTE: When two or more units are mounted where the heat from one housing tends to raise the temperature of another, the controls should be installed in a remote control box.

NOTICE

To prevent premature failure of components due to excessive heat, remote mounted control switches must be installed outside the strip heater heat zone.

Installing the Control Box—GR5AL Series

Use the following procedure to install the GR5AL Series control box.

NOTE: Units can be ordered with up to 10' (3 m) of element wire leads, depending on the installation location of the control box. The LED wire leads always will be 18" (457 mm) longer than the element wire leads.

WARNING

Control box must be mounted in a vertical surface. Mounting control box in a horizontal surface may result in the collection of liquids and lead to electric shock.

NOTICE

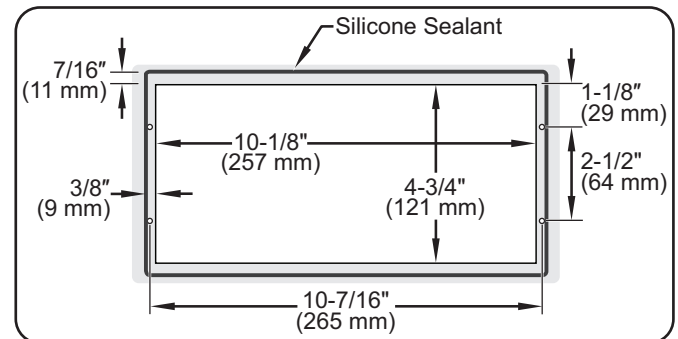
Install remote-mounted control box outside of areas subject to temperatures above 104°F (40°C). Excessive temperatures will cause controls to overheat, malfunction, and fail.

IMPORTANT NOTE:

Remote mounted boxes and control switches must be installed in a cool, dry location as far away from any heat zone as possible. **Do not mount boxes or switches directly on, under, around, or above unit.** Do not mount boxes or switches in direct contact with any heated surface or near any steam generating equipment.

1. Cut and drill the appropriate holes in the vertical surface where the control box will be installed. Refer to the illustration below for cutout and screw hole dimensions.

NOTE: Make sure the control box installation location provides enough space behind the vertical surface for the depth of the control box and electrical connections.



Control Box Cutout and Screw Hole Dimensions

NOTE: Make sure the width of the control box cutout does not exceed the above dimension.

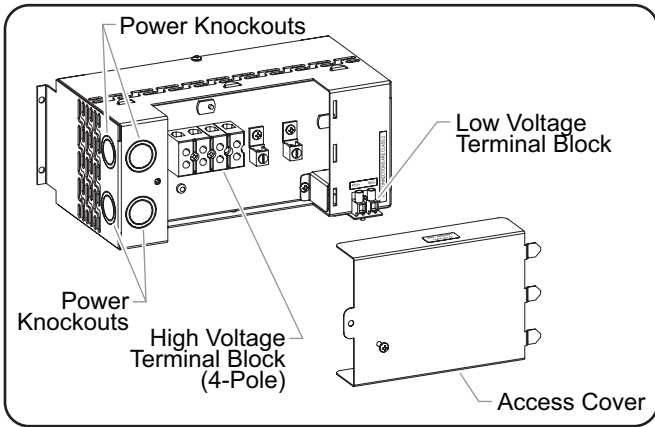
2. Complete the routing of the element wire leads and the LED wire leads from the unit to meet up with the control box through the cutout.

NOTE: Curved Infrared Strip Heaters with lights (GR5AL and GR5AHL models) require two separate power supplies from the control box. A high voltage supply for the heating element and a low voltage supply for the LED light channels.

3. Route the wire leads from the on-site power supply to meet up with the control box through the cutout.

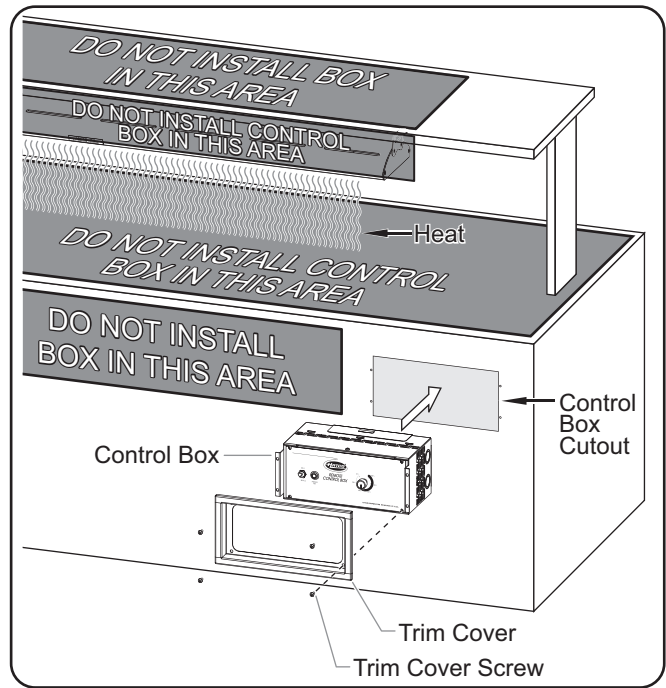
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4. Remove the four trim cover screws from the control box, and remove the trim cover.
5. Have a qualified electrician make the appropriate electrical connections to the control box. Refer to the wiring diagram included with the unit.
 - a. Connect the LED wire leads from the unit to the low voltage 2-pole terminal block on the outside of the control box.
 - b. Connect the element wire leads from the unit, through a power knockout, to the high voltage 4-pole terminal block inside the access cover of the control box.
 - c. Connect the on-site power supply through a power knockout, to the high voltage 4-pole terminal block inside the access cover of the control box.



GR5AL Control Box Electrical Connections

6. Position the control box into the cutout opening through the front side. Make sure that none of the electrical wires are pinched or stressed.
7. Fasten the control box to the vertical surface using four screws (not supplied).
8. Apply a 1/4" (6 mm) bead of NSF-approved silicone sealant where the trim cover will contact the cabinet surface. Refer to the "Control Box Cutout and Screw Hole Dimensions" illustration for more information.
9. Reinstall the trim cover on the control box and secure in position using the four trim cover screws. Make sure to embed the trim cover edge into the silicone.



Installing the Control Box

General

Glo-Ray® Curved Infrared Strip Heaters are designed for ease of operation. Use the following information and procedures to operate the unit.

⚠ WARNING

Read all safety messages in the **IMPORTANT SAFETY INFORMATION** section before operating this equipment.

⚠ CAUTION

BURN HAZARD: Some exterior surfaces on unit will get hot. Use caution when touching these areas.

Standard and approved manufacturing oils may smoke up to 30 minutes during initial startup. This is a temporary condition. Operate unit without food product until smoke dissipates.

Controls

GR5A Series Curved Infrared Strip Heaters are available with a remote-mounted control box or remote-mounted controls. GR5AL Series Curved Infrared Strip Heaters come standard with a remote-mounted control box. The following is a list of the available controls for all Curved Infrared Strip Heaters.

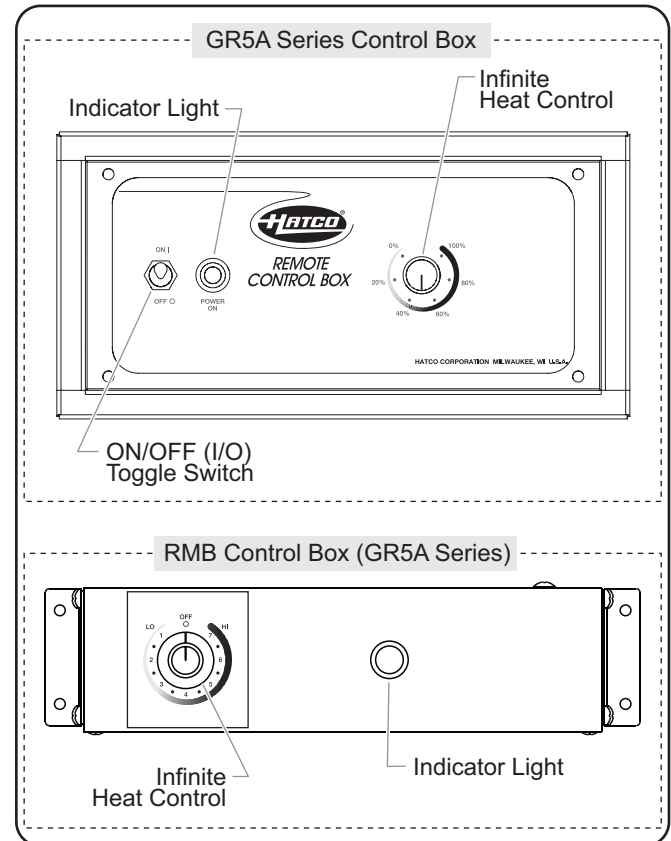
ON/OFF (I/O) Toggle Switch—Turns power on and off to the heating elements and the LED light channels (if equipped).

Infinite Heat Control—Controls the heat output of the heating element. Some Infinite Heat Controls also turn power on and off to the heating elements (OFF [O] position).

Indicator Light—Illuminates when power is on, and shuts off when power is off.

Startup

- Turn on the strip heater.
 - If unit is equipped with a ON/OFF (I/O) toggle switch, move the toggle switch to the ON (I) position.
 - If unit is equipped with an Infinite Heat Control, turn the control to the desired setting.
 - The indicator light will illuminate (if equipped), the heating elements will energize, and the LED light channels will illuminate (if equipped).
- Allow 30 minutes to reach operating temperature before placing preheated food product underneath the strip heater.



Control Boxes

Shutdown

- Move the ON/OFF (I/O) toggle switch to the OFF (O) position or turn the Infinite Heat Control to the OFF (O) position.
 - The indicator light will shut off, the LED lights will shut off, and the heating elements will shut down.

General

Glo-Ray® Curved Infrared Strip Heaters are designed for maximum durability and performance with minimum maintenance.



WARNING

ELECTRIC SHOCK HAZARD:

- Turn OFF power switch, turn off power at circuit breaker, and allow unit to cool before performing any cleaning, adjustments, or maintenance.
- DO NOT submerge or saturate with water. Unit is not waterproof. Do not operate if unit has been submerged or saturated with water.
- This unit is not “jet-proof” construction. Do not use jet-clean spray to clean this unit.
- Do not steam clean or use excessive water on unit.
- Use only Genuine Hatco® Replacement Parts when service is required. Failure to use Genuine Hatco Replacement Parts will void all warranties and may subject operators of the equipment to hazardous electrical voltage, resulting in electrical shock or burn. Genuine Hatco Replacement Parts are specified to operate safely in the environments in which they are used. Some after-market or generic replacement parts do not have the characteristics that will allow them to operate safely in Hatco equipment.

This unit has no “user-serviceable” parts. If service is required on this unit, contact an Authorized Hatco Service Agent or contact the Hatco Service Department at 414-671-6350.

Use only Hatco-approved LED light assemblies that are designed specifically for food holding areas. Using LED light assemblies not designed for food holding areas could result in personal injury and/or food contamination.

NOTICE

Use non-abrasive cleaners and cloths only. Abrasive cleaners and cloths could scratch the finish of the unit, marring its appearance and making it susceptible to soil accumulation.

Daily Cleaning

To preserve the finish of the strip heater, it is recommended that all surfaces be cleaned daily.

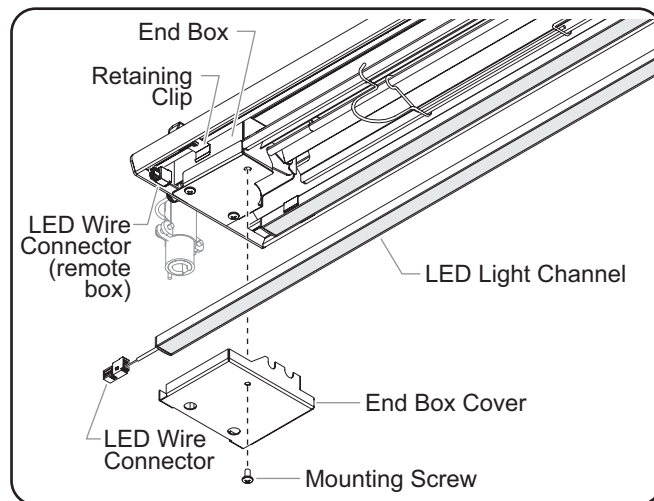
1. Turn off the unit and allow the unit to cool.
2. Wipe down all metal surfaces with a water-dampened, non-abrasive cloth. Stubborn stains may be removed with a good stainless steel or non-abrasive cleaner. Clean hard to reach areas using a small brush and mild soap.
3. Wipe dry the entire unit using a non-abrasive, dry cloth.

Replacing a Display Light—GR5AL Series

The display lights consist of two LED light channels that illuminate the warming area. These light channels have special covers to guard against injury and food contamination in the event of breakage.

To replace a LED light channel:

1. Turn off the unit, allow the unit to cool, and disconnect the power supply at the circuit breaker.
2. Remove the end box cover underneath the power supply end of the unit. To remove the end plate:
 - a. Remove the mounting screw that secures the end box cover to the end box.
 - b. Remove the end box cover.
3. Release and remove the LED light channel from three retaining clips—one on each end of the channel and one in the middle.
 - At each retaining clip location, grasp the inside edge of the light channel, and carefully pull the channel down and out of the clip.
4. Disconnect the LED wire lead connectors located where the end box cover was removed.



Replacing a Display Light

5. Connect the new LED light channel wire lead to the remote box LED wire lead.
6. Position the new LED light channel in the unit, and carefully snap it into each retaining clip.
7. Tuck the LED wire leads neatly up into the space between the light channel and the end box.
8. Position the end box cover over the end box, and secure using the mounting screw.

NOTE: Hatco LED light channels meet NSF standards for food holding and display areas. For replacement LED light channels part numbers, refer to the GR5A Series Replacement Parts List on the Hatco website (www.hatcocorp.com).



This unit must be serviced by qualified personnel only. Service by unqualified personnel may lead to electric shock or burn.



ELECTRIC SHOCK HAZARD: Turn OFF power switch, turn off power at circuit breaker, and allow unit to cool before performing any cleaning, adjustments, or maintenance.

Symptom	Probable Cause	Corrective Action
Unit is turned "On" but there is no heat.	No power to unit.	Check circuit breaker and reset as necessary.
	Switch is defective.	Contact Authorized Service Agent or Hatco for assistance.
	Wiring is open.	
	Heating element defective.	
Heat on but no lights (GR5AL only).	LED assembly defective.	Contact Authorized Service Agent or Hatco for assistance.
	Faulty wiring.	
Heat is inadequate.	Unit mounted too high above target area.	Lower unit, putting effective heat closer to target.
	Excessive air movement around strip heater target area.	Restrict or redirect air movement (air conditioning duct or exhaust fan) away from unit.
	Heat control set too low.	Increase heat control setting.
	Incorrect power supply (low).	Check power supply to unit, making sure it matches rating on the unit. If power supply is incorrect, change to match rating on unit.
Heat is excessive.	Unit mounted too close to target area.	Check to see that installation is within specifications for type/model. Increase mounting height if too close.
	Heat control set too high.	Decrease heat control setting.
	Voltage supply too high.	Check power supply to unit, making sure it matches rating on unit. If power supply is incorrect, change to match rating.
Control switches burn out.	Remote control box is mounted too close to the heat zone.	Move remote control box away from the heat zone. The maximum ambient temperature allowed for the control box is 104°F (40°C).
	Switches used are not Hatco supplied.	Genuine Hatco Parts are specified to operate safely and properly in the environment in which they are used. Contact Authorized Service Agent or Hatco to replace switches with Genuine Hatco Replacement Parts.

Troubleshooting Questions?

If you continue to have problems resolving an issue, please contact the nearest Authorized Hatco Service Agency or Hatco for assistance. To locate the nearest Service Agency, log onto the Hatco website at www.hatcocorp.com, select the *Support* pull-down menu, and click on "Find A Service Agent"; or contact the **Hatco Parts and Service Team** at:

Telephone: 414-671-6350

e-mail: support@hatcocorp.com

Non-Adjustable Stands

Aluminum, non-adjustable stands are available as a factory-installed option for the permanent mounting of GR5A and GR5AL Series strip heaters to a countertop. They are available in heights of 10" (254 mm), 12" (305 mm), 14" (356 mm), and 16" (406 mm).

1. Determine the exact mounting location on the countertop for the unit. Refer to "Installation Site Requirements" in the INSTALLATION section of this manual.
2. Prepare the location of each stand mounting flange on the countertop.
 - a. Cut out the mounting flange templates provided on this page. Use the templates for accurate mounting hole, conduit hole, and LED hole locations.

IMPORTANT NOTE

Make sure the page has not been scaled in size. Measure the box on this page to check accuracy.

- b. Refer to the "Stand Mounting Measurements" table and the illustration in this section for unit-specific measurements.
- c. Verify which stand will have the conduit and LED wire leads passing through it and the countertop.
- d. Carefully measure, locate, and tape each template onto the countertop at its appropriate position.
- e. Drill holes through the appropriate "Drill Here" locations on each template.

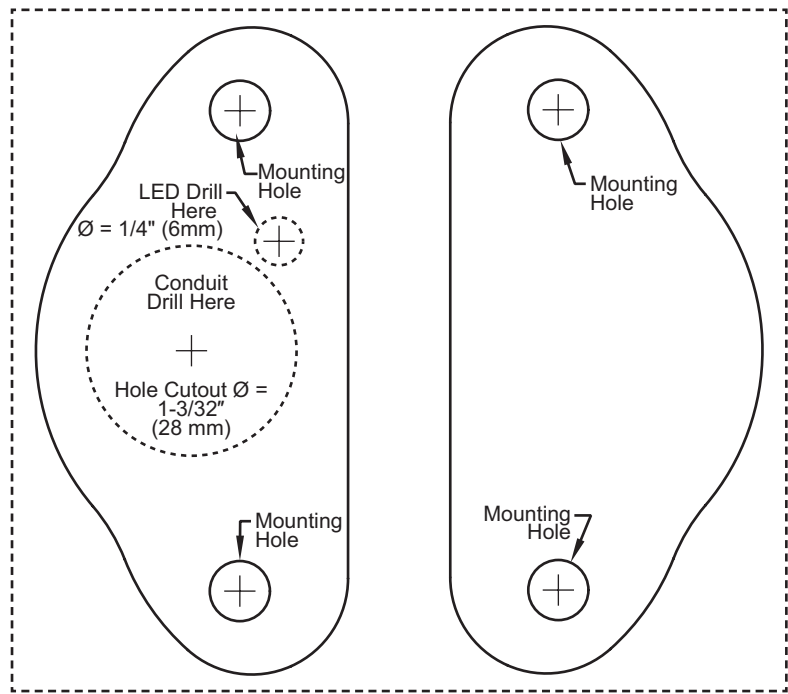
NOTE: Do not drill LED wire hole for GR5A series strip heaters.

3. Feed the conduit and LED wire leads from the unit through the appropriate holes, and position the unit on the countertop.
4. Fasten the stands to the countertop using appropriate fasteners (not supplied by Hatco®). Each mounting flange has two mounting hole locations.
5. Route the element wire leads and LED wire leads toward the installation location for the control box. Refer to the INSTALLATION section of this manual for control box/control installation.

NOTE: Mounting hole size will be determined by fastener size.

**This box is
 2" x 2"
 (51 mm x 51 mm)
 when printed
 correctly.**

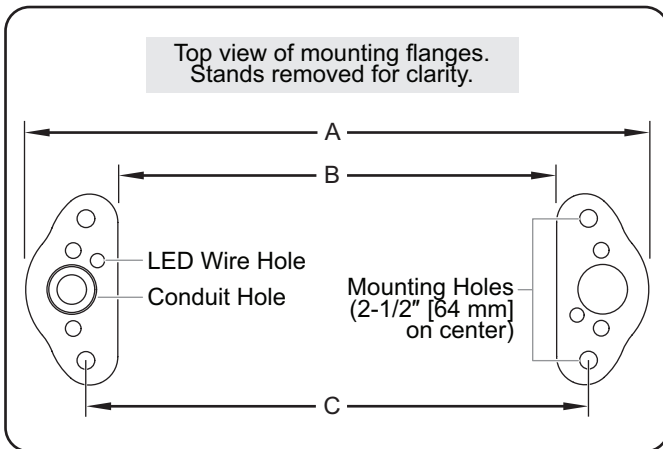
Check page scaling if box
 is not 2" x 2" when printed.



Stand Mounting Flange Templates

Stand Mounting Measurements

Model	Outside Flange (A)	Inside Flange (B)	Mounting Holes (C)
GR5A-18 GR5AL-18	17-7/16" (443 mm)	14-3/16" (360 mm)	15-5/16" (389 mm)
GR5A-24 GR5AL-24	23-7/16" (595 mm)	20-3/16" (512 mm)	21-5/16" (541 mm)
GR5A-30 GR5AL-30	29-7/16" (747 mm)	26-3/16" (665 mm)	27-5/16" (694 mm)
GR5A-36 GR5AL-36	35-7/16" (900 mm)	32-3/16" (817 mm)	33-5/16" (846 mm)
GR5A-42 GR5AL-42	41-7/16" (1052 mm)	38-3/16" (970 mm)	39-5/16" (999 mm)
GR5A-48 GR5AL-48	47-7/16" (1205 mm)	44-3/16" (1122 mm)	45-5/16" (1151 mm)
GR5A-54 GR5AL-54	53-7/16" (1357 mm)	50-3/16" (1274 mm)	51-5/16" (1303 mm)
GR5A-60 GR5AL-60	59-7/16" (1509 mm)	56-3/16" (1427 mm)	57-5/16" (1456 mm)
GR5A-66 GR5AL-66	65-7/16" (1662 mm)	62-3/16" (1579 mm)	63-5/16" (1608 mm)
GR5A-72 GR5AL-72	71-7/16" (1814 mm)	68-3/16" (1732 mm)	69-5/16" (1761 mm)



Remote Control Boxes — RMB Series

RMB Series remote control boxes are available in various configurations for use with strip heaters. Remote control boxes locate controls away from the heat of the unit, increasing the life span of the controls. All models are built in accordance with UL standards with switches, indicator lights, and wiring. Consult the factory for type and location of RMB Series controls for enclosure.

NOTE: RMB Series remote control boxes require one remote control box per strip heater.

 **WARNING**

ELECTRIC SHOCK HAZARD: Turn OFF power switch, disconnect unit from power source, and allow unit to cool before performing any cleaning, adjustments, or maintenance.

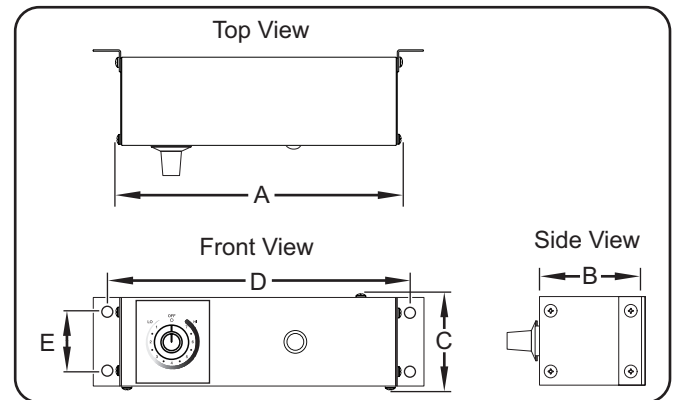
- Determine the area to mount the RMB box.

IMPORTANT NOTE:

Remote mounted boxes and control switches must be installed in a cool, dry location as far away from any heat zone as possible. **Do not mount boxes or switches directly on, under, around, or above unit.** Do not mount boxes or switches in direct contact with **any** heated surface or near any steam generating equipment.

Dimensions

Model	Width (A)	Depth (B)	Height (C)	Screw Width (D)	Screw Height (E)
RMB-3 Series	5-15/16" (150 mm)	3" (76 mm)	2-5/8" (67 mm)	6-5/16" (161 mm)	1-5/8" (41 mm)
RMB-7 Series	9-3/8" (239 mm)	3" (76 mm)	2-5/8" (67 mm)	9-13/16" (249 mm)	1-5/8" (41 mm)



Remote Control Box Dimensions

- Secure the RMB to the mounting surface using appropriate screws or fasteners.
 - Use the mounting flange on each end of the RMB.

NOTE: Sizing of the power supply wire leads and upstream overcurrent protection must conform with National Electric Code (NEC) requirements as well as all local codes.

- Remove the wiring access cover on bottom of the control enclosure by removing screws and sliding cover off.
- Identify and remove the appropriate knockouts from the control enclosure for the electrical connections.
- Attach conduit connectors to the knockouts in the control enclosure.

...continued

6. Make the electrical connections between the unit and the output terminals on the terminal block or wire leads inside the control enclosure. Refer to the wiring diagrams included with the unit and the RMB control box.

NOTE: To ground the RMB, use either a separate ground wire, metallic conduit, or other locally accepted method in accordance with the National Electric Code (NEC) or Canadian Electric Code (CEC).

7. Tie all ground leads (green and/or green/yellow leads) together and terminate with a UL Listed wire nut.
8. Make the electrical connections between the power supply and the input terminals on the terminal block or wire leads inside the control box. Refer to the wiring diagram included with the RMB control box.

NOTE: Verify which wire leads from the foodwarmer are for phase and neutral, as applicable.



9. Make sure all wire connections are tight, and secure both conduit runs to the conduit connectors.
10. Reinstall the wiring access cover on bottom of the control box.
11. Turn on power at the fused disconnect switch/circuit breaker, turn on the unit, and test operation.

Dual LED Light Option (GR5AL Series Only)

The dual LED light option allows the choice between either Warm White or Cool White color temperatures using the rocker switch.

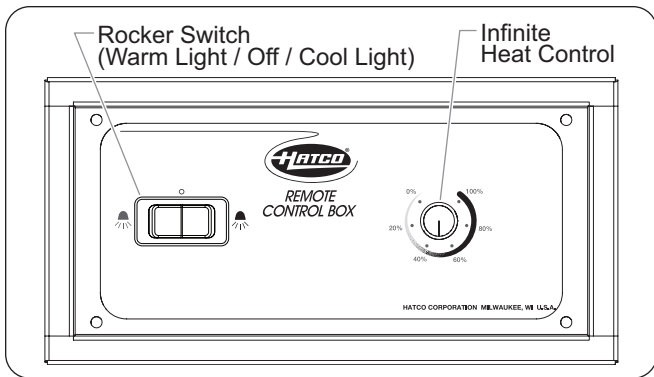
IMPORTANT NOTE—LED Color Temperature
 “Warm White” = color temperature range 2700–3200 K.
 “Cool White” = color temperature range 4000–4300 K.

Startup

1. Turn on the strip heater.
 - Move the rocker switch to the  (Warm White) or  (Cool White) position.
 - Turn the Infinite Heat Control to the desired setting.
2. Allow 30 minutes to reach operating temperature before placing preheated food product underneath the strip heater.

Shutdown

1. Move the rocker switch to the O (off) position.
 - The LED lights will shut off and the heating elements will shut down.



Dual LED Controls

Infinite Control (GR5A Series Only)

Use the following procedure to install an infinite control. An infinite control needs to be installed into an approved electrical box/enclosure (not supplied) by a qualified electrician.

⚠ WARNING

ELECTRIC SHOCK HAZARD: Turn OFF power switch, disconnect unit from power source, and allow unit to cool before performing any cleaning, adjustments, or maintenance.

NOTICE

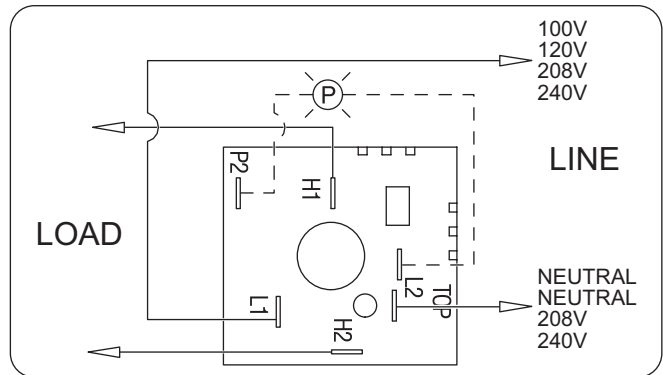
To prevent premature failure of components due to excessive heat, remote mounted control switches must be installed outside the strip heater heat zone.

1. Verify unit is off and disconnected from the power source.
2. Install the infinite control. Refer to the wiring diagram for proper electrical connections. Make sure the switch is installed with the “H1” terminal oriented on top. This will ensure that the switch functions match the markings on the switch label.
 - Power In: L1 and L2 (for 100V and 120V units, L2 is neutral)
 - To Heating Element: H1 and H2

NOTE: The terminals on the infinite control are specially designed, high-temperature rated terminals that do not require solder connections.

NOTICE

The infinite control must be installed using the terminals and wires supplied with the control. Failure to use the supplied Genuine Hatco® Replacement Parts will void all warranties and may damage the equipment.



Infinite Control Wiring Diagram (rear view)

NOTE: Make sure the switch is installed with the “H1” terminal oriented on top (“12 o’clock” position), as shown above. This will ensure that the switch functions match the markings on the switch label.

Infinite Control Kit Part Numbers

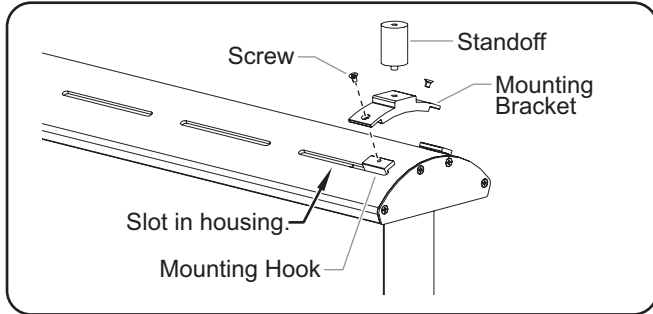
Part Number	Voltage
R02.19.018.00	120 volt
R02.19.017.00	208 volt
R02.19.019.00	240 volt

Sneeze Guards

Use the following procedure to install a sneeze guard on the strip heater.

NOTE: The sneeze guard accessory is for decorative purposes only and does NOT meet NSF requirements for food shields.

1. At one end of the unit, insert two mounting hooks into the end slots in the unit housing.
2. Place a mounting bracket on top of the mounting hooks with the screw holes lined up.
3. Secure the mounting bracket on the unit 7/8" (22 mm) from the end using the supplied screws. Refer to the "Mounting Bracket Distances" illustration.
4. Screw the standoff to the top of the mounting bracket.

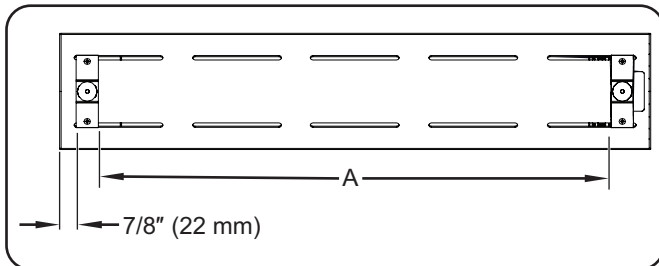


Securing the Mounting Bracket

5. Install the other mounting bracket assembly onto the opposite end of the unit. Position the bracket at the appropriate distance as shown in the "Mounting Bracket Distances" table below.

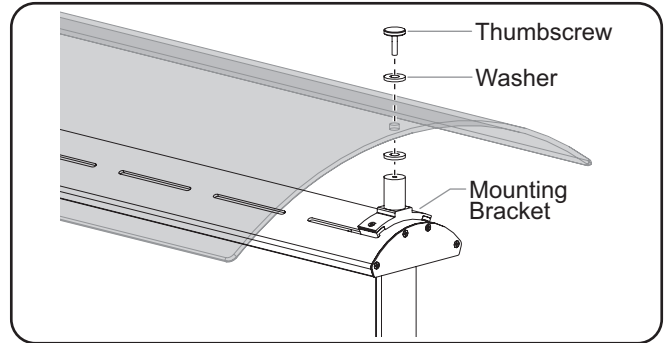
Mounting Bracket Distances

Model	Distance (A)
SG5-18	14" (356 mm)
SG5-24	20" (508 mm)
SG5-30	26" (660 mm)
SG5-36	32" (813 mm)
SG5-42	38" (965 mm)
SG5-48	44" (1118 mm)
SG5-54	50" (1270 mm)
SG5-60	56" (1422 mm)
SG5-66	62" (1575 mm)
SG5-72	68" (1727 mm)



Mounting Bracket Distances

6. Place one washer on top of each standoff.
7. Place the sneeze guard on top of the standoffs, aligning the holes.
8. Place one washer on each hole on top of the sneeze guard.
9. Secure the sneeze guard to the unit using the thumbscrews.



Securing the Sneeze Guard

WARRANTY, EXCLUSIVE REMEDY:

Hatco® Corporation (Seller) warrants that the products it manufactures (Products) will be free from defects in materials and workmanship under normal use and service and when stored, maintained, and installed in strict accordance with factory recommendations. Seller's sole obligation to the person or entity buying the Products directly from Seller (Customer) under this warranty is the repair or replacement by Seller or a Seller-authorized service agency, at Seller's option, of any Product or any part thereof deemed defective upon Seller's examination, for a period of: (i) the Warranty Duration from the date of shipment by Seller or (ii) the Warranty Duration from the date of Product registration in accordance with Seller's written instructions, whichever is later. The "Warranty Duration" shall mean the specific periods set forth below for specific Product components, or, to the extent not listed below, eighteen (18) months. Credit for Products or parts returned with the prior written permission of Seller will be subject to the terms shown on Seller's material return authorization form. PRODUCTS OR PARTS RETURNED WITHOUT PRIOR WRITTEN PERMISSION OF SELLER WILL NOT BE ACCEPTED FOR CREDIT. Expenses incurred by Customer in returning, replacing, or removing the Products will not be reimbursed by Seller. If the defect comes under the terms of the limited warranty, the Products will be repaired or replaced and returned to the Customer and the cost of return freight will be paid by Seller. The remedy of repair or replacement provided for herein is Customer's exclusive remedy. Any improper use, alteration, repairs, tampering, misapplication, improper installation, application of improper voltage, or any other action or inaction by Customer or others (including the use of any unauthorized service agency) that in Seller's sole judgment adversely affects the Product shall void this warranty. The warranty expressly provided herein may only be asserted by Customer and may not be asserted by Customer's customers or other users of the Products; provided, however, that if Customer is an authorized equipment dealer of Seller, Customer may assign the warranty herein to Customer's customers, subject to all of the limitations of these Terms, and in such case, the warranty shall be exclusively controlled by Seller in accordance with these Terms. THIS LIMITED WARRANTY IS EXCLUSIVE AND IS IN LIEU OF ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF NONINFRINGEMENT, MERCHANTABILITY, OR FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE EXPRESSLY DISCLAIMED.

One (1) Year Parts and Labor PLUS One (1) Additional Year Parts-Only Warranty:

- Conveyor Toaster Elements (metal sheathed)
- Drawer Warmer Elements (metal sheathed)
- Drawer Warmer Drawer Rollers and Slides
- Food Warmer Elements (metal sheathed)
- Display Warmer Elements (metal sheathed air heating)
- Holding Cabinet Elements (metal sheathed air heating)
- Heated Well Elements — HW, HWB, and HWBI Series (metal sheathed)

Two (2) Year Parts and Labor Warranty:

- Induction Ranges
- Induction Warmers

One (1) Year Replacement Warranty:

- TPT Pop-Up Toasters

One (1) Year Parts and Labor PLUS Four (4) Years Parts-Only Warranty:

- 3CS and FR Tanks

One (1) Year Parts and Labor PLUS Nine (9) Years Parts-Only Warranty:

- Electric Booster Heater Tanks
- Gas Booster Heater Tanks

Ninety (90) Day Parts-Only Warranty:

- Replacement Parts

Notwithstanding anything herein to the contrary, the limited warranty herein will not cover components in Seller's sole discretion such as, but not limited to, the following: coated incandescent light bulbs, fluorescent lights, heat lamp bulbs, coated halogen light bulbs, halogen heat lamp bulbs, xenon light bulbs, LED light tubes, glass components, and fuses; Product failure in booster tank, fin tube heat exchanger, or other water heating equipment caused by liming, sediment buildup, chemical attack, or freezing.

WARRANTY REGISTRATION INSTRUCTIONS:

Product registration must be submitted within 90 days from the date of shipment from our factory to qualify for additional coverage. Registration may be submitted through the form on Seller's website, through the form accessible through the QR code on the Product (where available), or by calling Customer Service with the required information at **414-671-6350**.

LIMITATION OF LIABILITY:

SELLER WILL NOT BE LIABLE FOR ANY INDIRECT, INCIDENTAL, CONSEQUENTIAL, PUNITIVE, EXEMPLARY, OR SPECIAL DAMAGES, INCLUDING WITHOUT LIMITATION ANY LOST PROFITS, COSTS OF SUBSTITUTE PRODUCTS, OR LABOR COSTS ARISING FROM THE SALE, USE, OR INSTALLATION OF THE PRODUCTS, FROM THE PRODUCTS BEING INCORPORATED INTO OR BECOMING A COMPONENT OF ANOTHER PRODUCT, OR FROM ANY OTHER CAUSE WHATSOEVER, WHETHER BASED ON WARRANTY (EXPRESSED OR IMPLIED) OR OTHERWISE BASED ON CONTRACT, TORT, OR ANY OTHER THEORY OF LIABILITY, AND REGARDLESS OF ANY ADVICE OR REPRESENTATIONS THAT MAY HAVE BEEN RENDERED BY SELLER CONCERNING THE SALE, USE, OR INSTALLATION OF THE PRODUCTS, EVEN IF SELLER IS AWARE OF THE POSSIBILITY OF SUCH DAMAGES. IN NO EVENT WILL SELLER'S AGGREGATE LIABILITY ARISING OUT OF OR RELATED TO THIS AGREEMENT EXCEED THE TOTAL AMOUNTS PAID TO SELLER BY CUSTOMER FOR THE PRODUCTS WITHIN THE THREE (3) MONTH PERIOD IMMEDIATELY PRECEDING THE EVENT GIVING RISE TO CUSTOMER'S CLAIM. THE LIMITATIONS SET FORTH HEREIN REGARDING SELLER'S LIABILITY SHALL BE VALID AND ENFORCEABLE NOTWITHSTANDING A FAILURE OF ESSENTIAL PURPOSE OF THE LIMITED REMEDY SPECIFIED IN THESE TERMS.

Seller reserves the right to update these Terms at any time, at its sole discretion, which become binding upon the date of publishing. For the most current version of our full Terms of Sale, see our website at: <https://www.hatcocorp.com/terms-of-sale>

AUTHORIZED PARTS DISTRIBUTORS • AUTORISÉS DISTRIBUTEURS DE PIÈCES

ALABAMA

Jones McLeod Appl. Svc.
Birmingham 205-251-0159

ARIZONA

Tech 24
Phoenix 602-234-2443

Byassee Equipment Co.
Phoenix 602-252-0402

CALIFORNIA

Industrial Electric
Commercial Parts & Service, Inc.
Huntington Beach 714-379-7100

Chapman Appl. Service
San Diego 619-298-7106

P & D Appliance
Commercial Parts & Service, Inc.
S. San Francisco 650-635-1900

COLORADO

Hawkins Commercial Appliance
Englewood 303-781-5548

FLORIDA

Whaley Foodservice Repair
Jacksonville 904-725-7800

Whaley Foodservice Repair
Orlando 407-757-0851

B.G.S.I./Heritage
Pompano Beach 954-971-0456

Comm. Appliance Service
Tampa 813-663-0313

GEORGIA

Heritage Service Group
Norcross 866-388-9837

HAWAII

Burney's Comm. Service, Inc.
Honolulu 808-848-1466

Food Equip Parts & Service
Honolulu 808-847-4871

ILLINOIS

Parts Town
Addison 708-865-7278

Eichenauer Elec. Service
Decatur 217-429-4229

Midwest Elec. Appl. Service
Elmhurst 630-279-8000

Cone's Repair Service
Moline 309-797-5323

IOWA

Goodwin Tucker Group
Des Moines 515-262-9308

KENTUCKY

Tech 24
Lexington 859-254-8854

Tech 24
Louisville 502-451-5411

LOUISIANA

Chandlers Parts & Service
Baton Rouge 225-272-6620

MARYLAND

Electric Motor Service
Baltimore 410-467-8080

MASSACHUSETTS

Ace Service Co., Inc.
Needham 781-449-4220

MICHIGAN

Bildons Appliance Service
Detroit 248-478-3320

Commercial Kitchen Service
Bay City 989-893-4561

Midwest Food Equip. Service
Grandville 616-261-2000

MISSOURI

General Parts
Kansas City 816-421-5400

Commercial Kitchen Services
St. Louis 314-890-0700

Kaemmerlen Parts & Service
St. Louis 314-535-2222

NEBRASKA

Anderson Electric
Omaha 402-341-1414

NEVADA

Burney's Commercial
Las Vegas 702-736-0006

Hi. Tech Commercial Service
N. Las Vegas 702-649-4616

NEW JERSEY

Jay Hill Repair
Fairfield 973-575-9145

Service Plus
Flanders 973-691-6300

NEW YORK

Alpro Service Co.
Maspeth 718-386-2515

Duffy's - AIS
Buffalo 716-884-7425

3Wire
Plattsburgh 800-634-5005

Duffy's - AIS
Sauquoit 800-836-1014

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