

Gordonkad_® BH

The Economical, Unitary Infrared Heater **Submittal: BH Series**

	Job: Location: Engineer: Gas Specs: Date:		
QTY.	MODEL NO. BH	UNIT INPUT	 BTU/HR
QTY.	MODEL NO. BH	UNIT INPUT	BTU/HR
QTY.	MODEL NO. BH	UNIT INPUT	BTU/HR
QTY.	MODEL NO. BH	UNIT INPUT	BTU/HR
	TOTAL INPUT	BTU/HR	

Important

Before installation and operation of heating equipment, read and understand the Installation, Operation and Service Manual.

Applications, engineering and detailed guidance on systems design, installation and product performance is available upon request. ROBERTS GORDON® products are to be installed only in accordance with local laws, codes and regulations, and only by a contractor qualified in the installation and service of gas-fired heating equipment.





Quality in Any Language™

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STANDARD PARTS LIST

Contents of BH-Series Burner Carton

Part No.	Description	BH-40	BH-60	BH-80	BH-100	BH-1 15	BH-125	BH-140	BH-150	BH-175	BH-200
071XXXXX	BH-Series Burner (Rate and Fuel Varies)	1	1	1	1	1	1	1	1	1	1
90709700	Blower Assembly with Cord	1	1	1	1	1	1	1	1	1	1
02568200	Gasket (Burner to Burner Tube)	1	1	1	1	1	1	1	1	1	1
90709801	Gasket (Blower to Burner)	1	1	1	1	1	1	1	1	1	1
1701 01NA	Installation Manual	1	1	1	1	1	1	1	1	1	1
91201708	Pipe Nipple (Black) 1/2" x 4"	1	1	1	1	1	1	1	1	1	1
94273914	Hex Head Rolok 5/16 - 18	4	4	4	4	4	4	4	4	4	4
96411600	Split Lock washer	4	4	4	4	4	4	4	4	4	4
91412200	Flexible Gas Connector Assembly, 1/2" NPT	1	1	1	1	1	1	-	-	-	-
91412203	Flexible Gas Connector Assembly, 3/4" NPT	-	-	-	-	-	-	1	1	1	1
91907302	S-Hooks	2	2	2	2	2	2	2	2	2	2
91911700	Outside Air Collar	1	1	1	1	1	1	1	1	1	1
94118106	#8 x 3/8 Hex Washer Head (for Outside Air Collar)	3	3	3	3	3	3	3	3	3	3
92311800	Keps Nut	4	4	4	4	4	4	4	4	4	4
03051503	Turbulator Adapter	1	1	1	1	1	-	1	-	-	-
03051504	Turbulator 2.5' (76 cm), Aluminized Steel	2	4	4	1	3	-	1	-	-	-
03051505	Turbulator 2.5' (76 cm), Stainless Steel	1	-	-	-	-	-	-	-	-	-

Contents of Core and Extension Packages

		Core Packages								Exte	nsion	Pack	ages			
		Н	ot Ro I	led		Alum	in ized			Hot F	Rolled			Alum	inized	
Part No.	De scription	20'	30'	40'	10'	20'	30'	40'	10'	20 '	30'	40' (1 2m)	10'	20'	30 '	40 '
91409300	Tube, Hot Rolled Steel, 10' (3 m)	1	2	3	-	-	-	-	1	2	3	4	-	-	-	-
91409408	Tube, HT Aluminized, 10' (3m)	-	-	-	-	1	2	3	-	-	-	-	1	2	3	4
03051101	Burner Tube, ALUMI-THERM® Steel, 10' (3 m)	1	1	1	-	1	1	1	-	-	-	-	-	-	-	-
03051601	Burner Tube, HT ALUMI-THERM® Steel, 10' (3m)	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
01312700	Coupling Assembly	1	2	3	-	1	2	3	1	2	3	4	1	2	3	4
02750303	Standard Reflector, 8' (3.5m)	3	4	6	2	3	4	6	2	3	4	6	2	3	4	6
02750800	End Cap	2	2	2	2	2	2	2	-	-	-	-	-	-	-	-
03090100	Tube and Reflector Hanger	3	4	5	2	3	4	5	1	2	3	4	1	2	3	4
91907302	S-Hook	3	4	5	2	3	4	5	1	2	3	4	1	2	3	4
03050010	Reflector Support Package (Strap, Wire Form, Screws)	2	3	5	1	2	3	5	2	3	4	6	2	3	4	6
91107720	U-Clip Package	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
90502700	Vent Adapter	1	1	1	1	1	1	1	-	-	-	-	-	-	-	-
01318901	Tube Clamp Package	1	1	1	1	1	1	1	-	-	-	-	-	-	-	-
	Part Number	CP20HRS	CP30HRS	CP40HRS	CP10ALUM	CP20ALUM	CP30ALUM	CP40ALUM	EXP10HRS	EXP20HRS	EXP30HRS	EXP40HRS	EXP 10ALUM	EXP 20ALUM	EXP30ALUM	EXP40ALUM

GENERAL SPECIFICATIONS

Material Specification Reflectors

.024 Aluminum

Heater Specifications Ignition

Fully automatic spark ignition with safety shut-off.

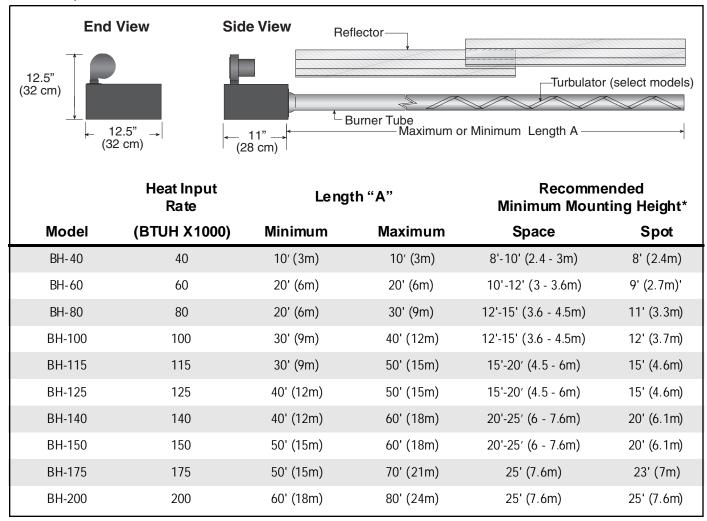
Suspension Specifications

Hang heater with materials with a minimum working load of 75 lbs (33 kg).

Controls Specifications

Time switches, thermostats, etc. can be wired into the electrical supply. External controls supplied as an optional extra.

General Specifications for BH-Series heaters are as follows:



Gas Pressure at Manifold:

Natural Gas: 3.5" w.c. LP Gas: 10.5" w.c.

Pipe Connection:

1/2" NPT (for BH-40, 60, 80, 100, 115 & 125)

3/4" NPT (for BH- 140, 150,175 & 200)

Dimensions:

Vent Connection Size: 4" (10 cm)
Outside Air Connection Size: 4" (10 cm)

Refer to figure above for dimensional information.

Gas Inlet Pressure:

Natural Gas:

for BH-40, 60, 80, 100,

115, 125, 140, 150
for BH-175, 200
4.6" w.c. Minimum
5.0" w.c. Minimum
14.0" w.c. Maximum
11.0" w.c. Minimum
14.0" w.c. Minimum
14.0" w.c. Maximum

Electrical Rating (all models):

120V - 60 Hz., 1.0 Amp

CLEARANCES TO COMBUSTIBLES

- NOTE: 1. All dimensions are from the surfaces of all tubes, couplings and elbows.
 - 2. Clearances B, C and D can be reduced by 50% after 25' (7.5 m) of tubing downstream from where the burner and burner tube connect.
 - 3. "-" indicates an unapproved application. Roberts-Gordon prohibits the installation of this heater for all unapproved applications.

Standard Reflector									
			(inc	hes)			(centin	neters)	
	Model	Α	В	С	D	Α	В	С	D
	BH-40	6	27	52	27	16	69	133	69
A P	BH-60	6	35	62	35	16	89	158	89
	BH-80	6	38	65	38	16	97	166	97
$\begin{array}{c c} & & & \\ & \leftarrow & \\ & \leftarrow & \\ & & \end{array} \longrightarrow \begin{array}{c} C \\ & \checkmark \end{array}$	BH-100	6	40	70	40	16	102	178	102
	BH-115/125	6	46	76	46	16	117	194	117
	BH-140/150	6	50	79	50	16	127	201	127
	BH-175/200	8	52	82	52	21	133	209	133

One Side Reflector									
			(inc	hes)			(centi	neters)	
	Model	Α	В	С	D	Α	В	С	D
Â	BH-40	6	9	52	44	16	23	133	112
▼	BH-60	6	9	62	47	16	23	158	120
	BH-80	6	9	69	54	16	23	176	138
$ \leftarrow B\rightarrow $ $ \leftarrow D\rightarrow \forall$	BH-100	6	9	76	59	16	23	194	150
	BH-115/125	6	9	82	65	16	23	209	166
	BH-140/150	6	9	85	69	16	23	216	176
	BH-175/200	8	9	88	73	21	23	224	186

Two Side Reflectors										
			(inc	hes)		(centimeters)				
	Model	Α	В	С	D	Α	В	С	D	
Â	BH-40	6	15	52	15	16	39	133	39	
	BH-60	6	23	65	23	16	59	166	59	
T.	BH-80	6	25	71	25	16	64	181	64	
$ \leftarrow B\rightarrow $ $ \leftarrow D\rightarrow $ \forall	BH-100	6	27	77	27	16	69	196	69	
	BH-115/125	6	32	83	32	16	82	211	82	
	BH-140/150	6	35	87	35	16	89	221	89	
	BH-175/200	8	40	91	40	21	102	232	102	

- **NOTE:** 1. All dimensions are from the surfaces of all tubes, couplings and elbows.
 - 2. Clearances B, C and D can be reduced by 50% after 25' (7.5 m) of tubing downstream from where the burner and burner tube connect.
 - 3. "-" indicates an unapproved application. Roberts-Gordon prohibits the installation of this heater for all unapproved applications.

45° Tilt Reflector									
			(inc	hes)			(centii	meters)	
	Model	A	В	С	D	Α	В	С	D
Å	BH-40	8	8	50	46	21	21	127	117
7.	BH-60	8	8	59	54	21	21	150	138
	BH-80	8	8	65	60	21	21	166	153
←B→	BH-100	10	8	73	64	26	21	186	163
,	BH-115/125	10	8	77	69	26	21	196	176
	BH-140/150	12	8	83	74	31	21	211	188
	BH-175/200	12	8	85	79	31	21	216	201

U-Tube, Standard Reflector									
			(inc	hes)		(centimeters)			
	Model	Α	В	С	D	Α	В	С	D
1	BH-40	-	-	-	-	-	-	-	-
	BH-60	6	35	62	30	16	89	158	77
←B→ Ç ←D→	BH-80	6	38	68	37	16	97	173	94
	BH-100	6	40	75	39	16	102	191	100
	BH-115/125	6	46	78	43	16	117	199	110
	BH-140/150	6	50	83	47	16	127	211	120
	BH-175/200	8	54	87	51	21	138	221	130

U-Tube, Full 45°									
			(inc	hes)			(centir	neters)	
Â	Model	Α	В	С	D	Α	В	С	D
	BH-40	-	-	-	-	-	-	-	-
←D→	BH-60	8	8	59	42	21	21	150	107
	BH-80	8	8	65	46	21	21	166	117
	BH-100	8	8	73	52	21	21	186	133
Ĉ	BH-115/125	8	8	77	61	21	21	196	155
↓	BH-140/150	8	8	83	66	21	21	211	168
	BH-175/200	8	8	85	70	21	21	216	178

- NOTE: 1. All dimensions are from the surfaces of all tubes, couplings and elbows.
 - 2. Clearances B, C and D can be reduced by 50% after 25' (7.5 m) of tubing downstream from where the burner and burner tube connect.
 - 3. "-" indicates an unapproved application. Roberts-Gordon prohibits the installation of this heater for all unapproved applications.

U-Tube, Opposite 45° Ref	lector								
			(inc	hes)		(centimeters)			
	Model	Α	В	С	D	Α	В	С	D
<u> </u>	BH-40	-	-	-	-	-	-	-	-
7	BH-60	8	54	59	22	21	138	150	56
←B→ C ←D→	BH-80	8	60	65	22	21	153	166	56
←B→ C	BH-100	10	64	73	22	26	163	186	56
	BH-115/125	10	70	77	22	26	178	196	56
	BH-140/150	12	74	83	22	31	188	211	56
	BH-175/200	12	76	85	22	31	194	216	56

2-Foot Deco Grille, 1-Foot Deco Grille and Protective Grille										
			(inc	hes)			(centin	neters)		
	Model	Α	В	С	D	Α	В	С	D	
	BH-40	6	27	52	27	16	69	133	69	
¥	BH-60	6	35	62	35	16	89	158	89	
Ĉ	BH-80	6	38	65	38	16	97	166	97	
<u> </u>	BH-100	6	40	70	40	16	102	178	102	
←B→ ←D→	BH-115/125	6	46	76	46	16	117	194	117	
	BH-140/150	6	50	79	50	16	127	201	127	
	BH-175/200	8	52	82	52	21	133	209	133	

Lower Clearance Shield*									
			(inc	hes)			(centin	neters)	
	Model	Α	В	С	D	Α	В	С	D
Â	BH-40	6	34	27	34	16	87	69	87
	BH-60	6	39	33	39	16	100	84	100
C	BH-80	6	40	38	40	16	102	97	102
←B→	BH-100	6	50	44	50	16	127	112	127
	BH-115/125	6	54	48	54	16	138	122	138
	BH-140/150	6	55	50	55	16	140	127	140
	BH-175/200	-	-	-	-	-	-	-	-

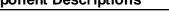
^{*}When installed in the first 20' (6 m).

- NOTE: 1. All dimensions are from the surfaces of all tubes, couplings and elbows.
 - 2. Clearances B, C and D can be reduced by 50% after 25' (7.5 m) of tubing downstream from where the burner and burner tube connect.
 - 3. "-" indicates an unapproved application. Roberts-Gordon prohibits the installation of this heater for all unapproved applications.

Venting							
		(inches)			(centimeters)		
	Model	Α	E	F	Α	E	F
Å ←E→	BH-40	14	18	18	36	46	46
Unvented	BH-60	14	18	18	36	46	46
Infrared Tubes	BH-80	20	24	18	51	61	46
	BH-100	20	24	18	51	61	46
Vented ←F→	BH-115/125	20	24	18	51	61	46
	BH-140/150	20	30	18	51	77	46
	BH-175/200	20	30	18	51	77	46

BH-SERIES ASSEMBLY OVERVIEW

Major Component Descriptions

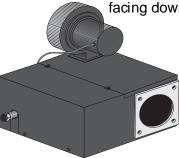


Burner with Tube Gasket Must be installed with the flame observation window

facing down.



Alternate overlap as shown on overview. Minimum overlap is 7" (18 cm).



Burner Tube

Supplied in 10' (3 m) lengths. Burner tube is always the first tube after the burner.

Tube

Hot Rolled or Heat Treated Aluminized Tube supplied in 10' (3 m) lengths.



Tube and Reflector Hanger with Clamp Package

Position this hanger no more than 4" (10 cm) away from the burner.



Coupling Assembly with Lock



Tube and Reflector Hanger

Suspend system from these

hangers.



Reflector End Cap

Punch out center section to accommodate heat exchanger tube.





Vent Adapter

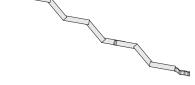


Reflector Support Strap & Wire Form

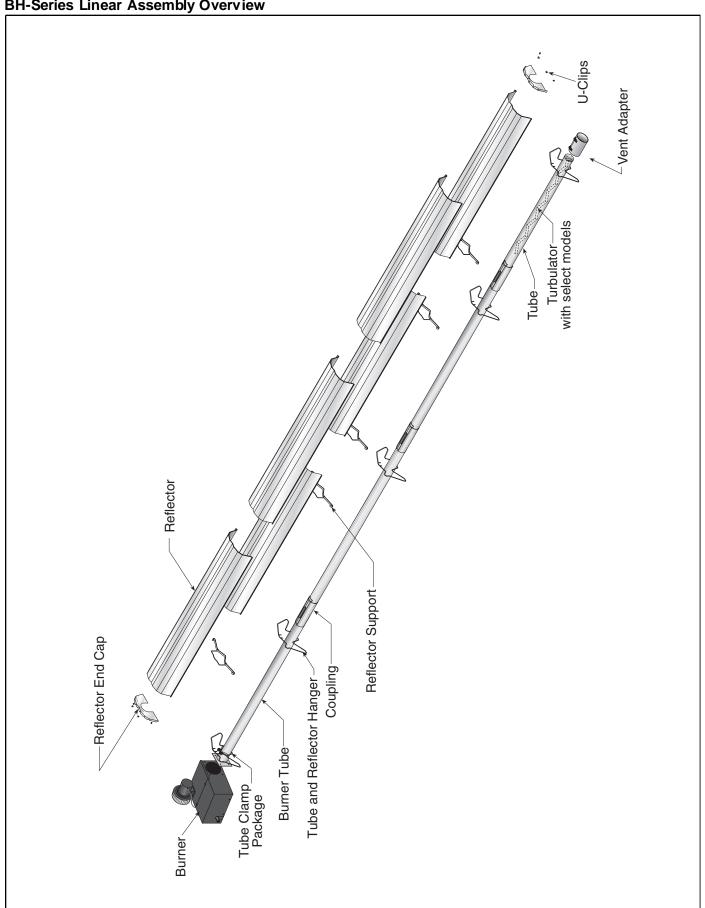
Flex Gas Line with Shut Off Cock



Turbulator must be installed in the last standard section of tube. Turbulator is not required on the BH-125/150/175/200.

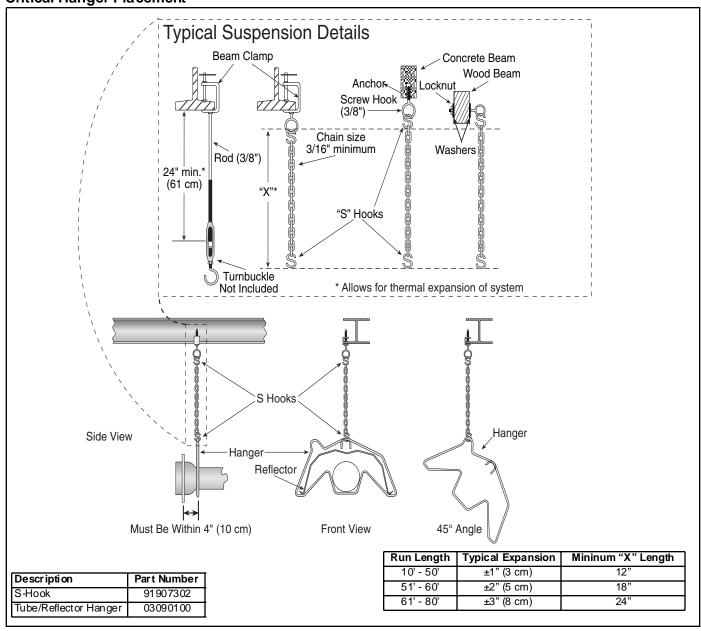


BH-Series Linear Assembly Overview

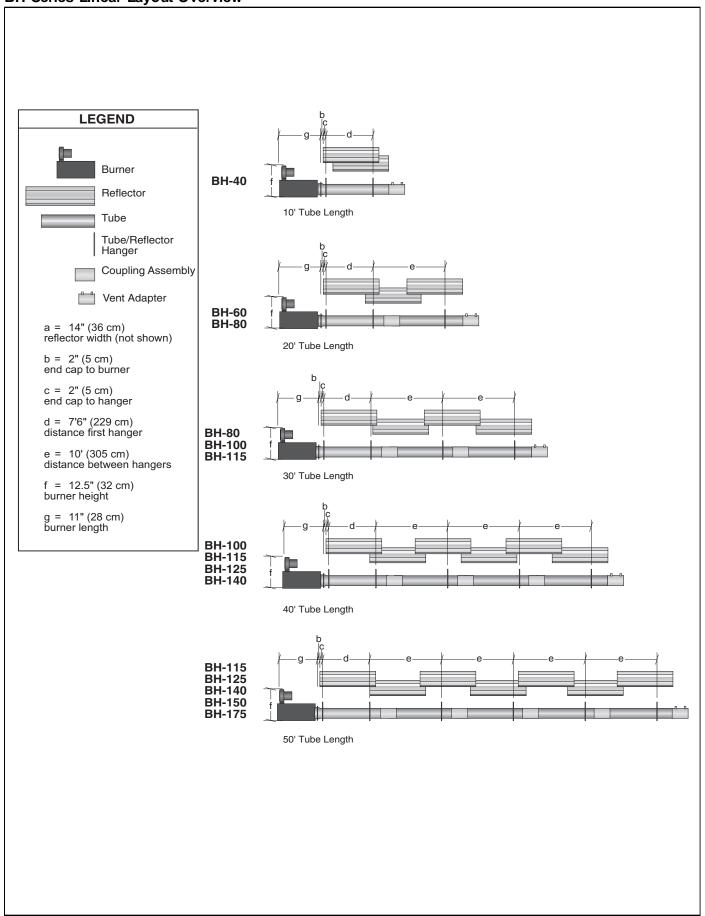


HEATER INSTALLATION

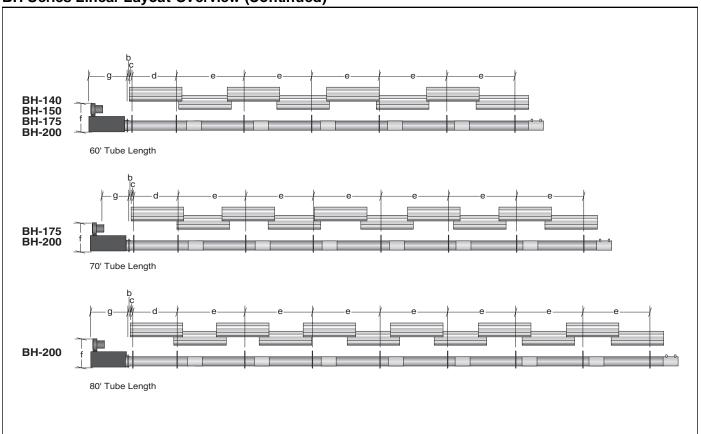
Critical Hanger Placement



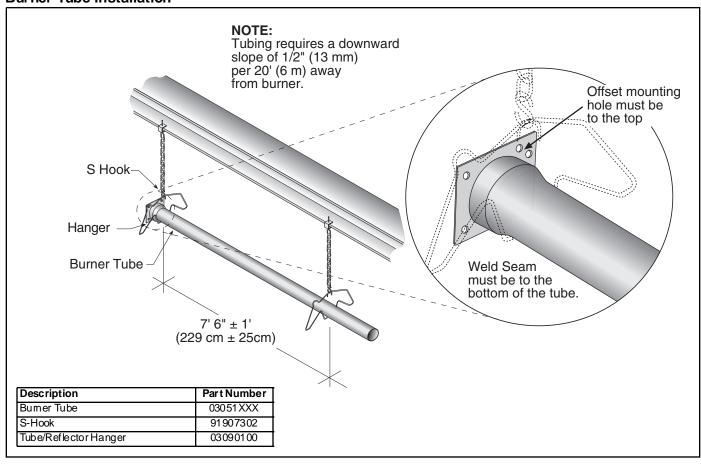
BH-Series Linear Layout Overview



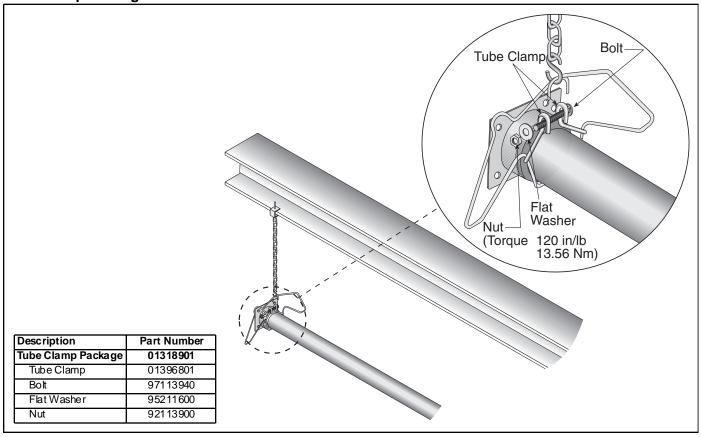
BH-Series Linear Layout Overview (Continued)



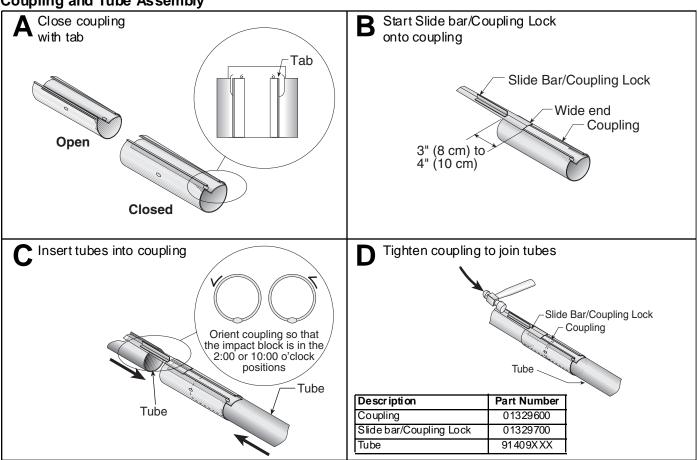
Burner Tube Installation



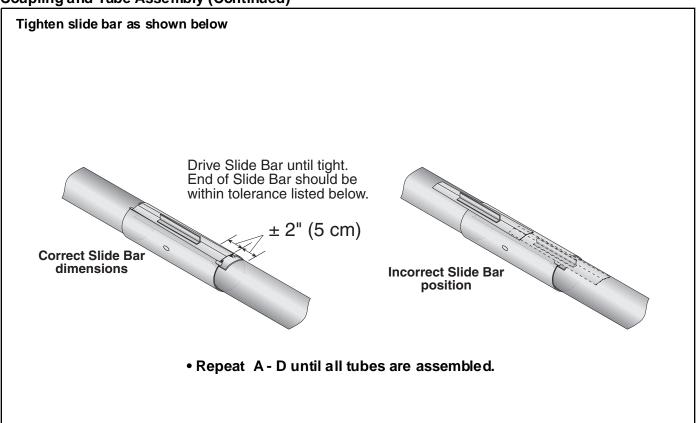
Tube Clamp Package Installation



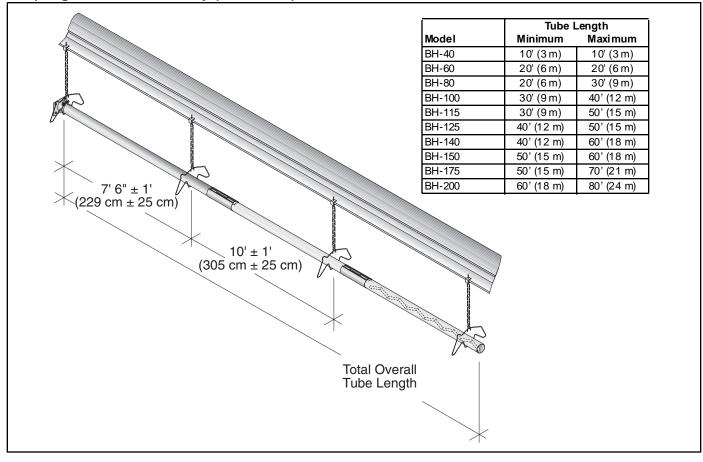
Coupling and Tube Assembly



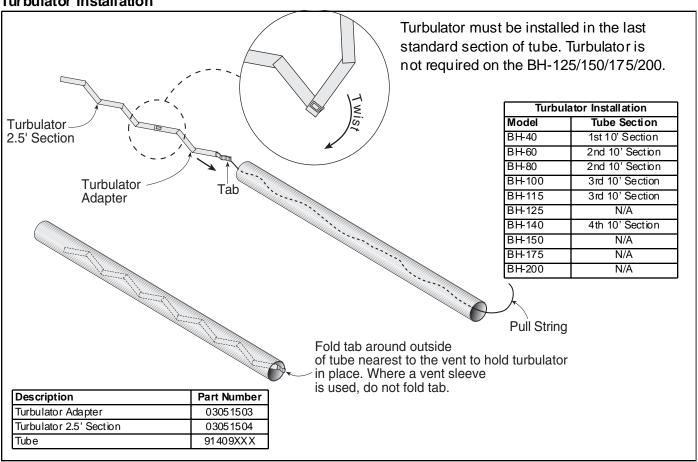
Coupling and Tube Assembly (Continued)



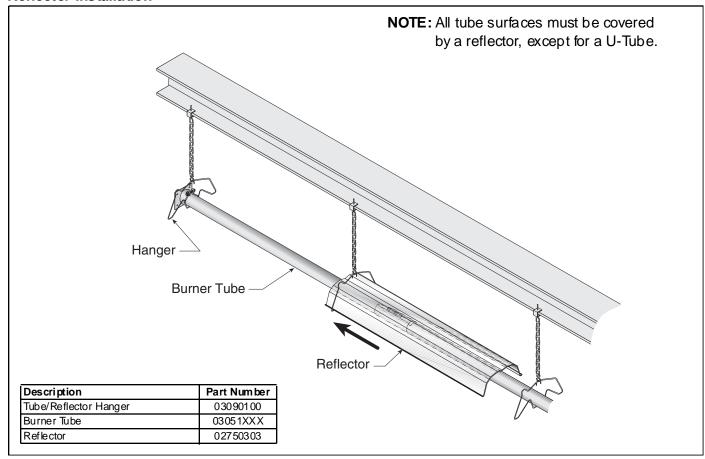




Turbulator Installation



Reflector Installation

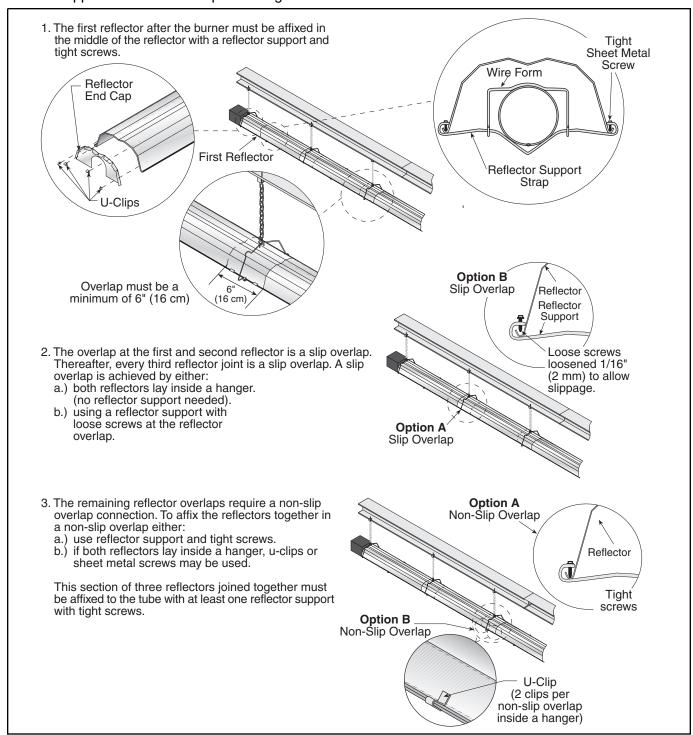


Reflector, U-Clip and Reflector Support Installation

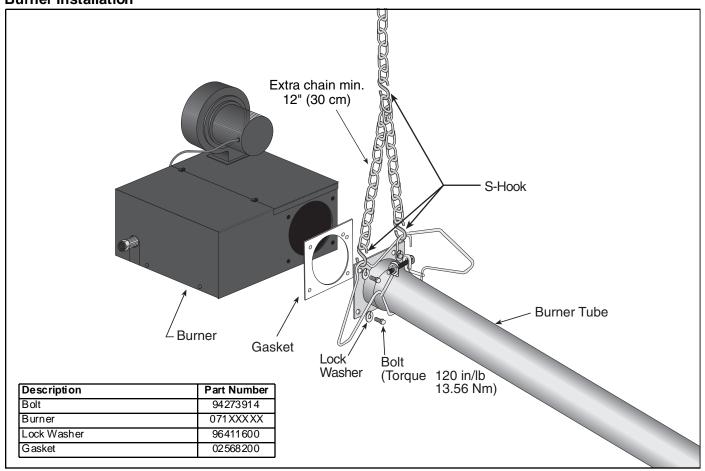
The pictorial drawings of the heater construction in this section are schematic only and provide a general guideline of where hangers, reflector supports and U-clips are to be installed.

To ensure proper expansion and contraction movement of the reflectors, a combination of U-clips and reflector supports are used. The positioning of reflec-

tor supports and U-clips depend on the individual installation. Use either pop rivets or sheet metal screws instead of u-clips when installing end caps and joint pieces in areas where impact and high wind may be a factor. The following rules must be observed.

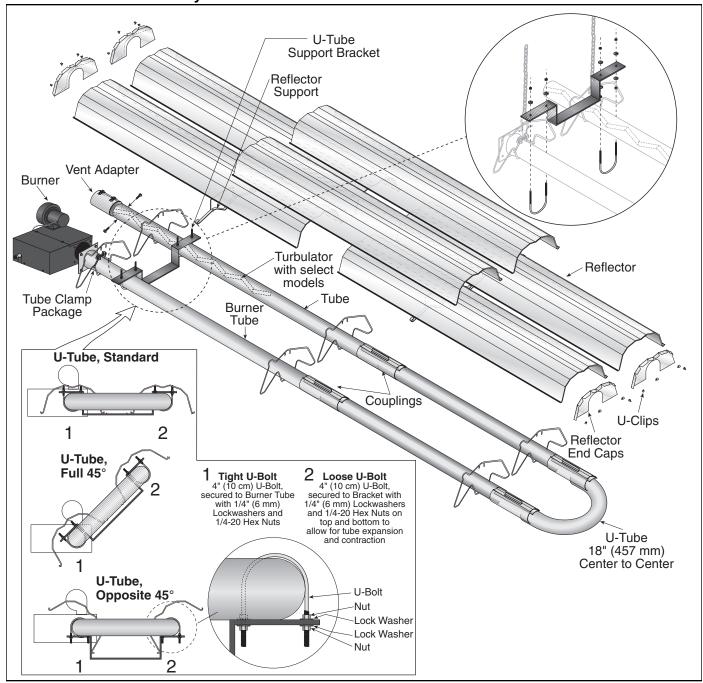


Burner Installation

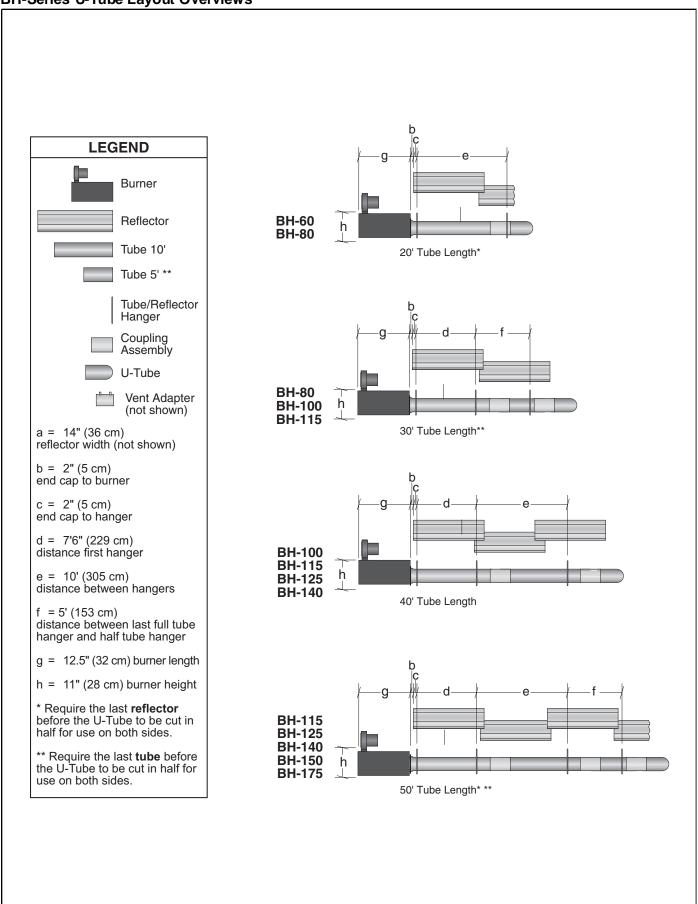


OPTIONAL HEATER ACCESSORIES

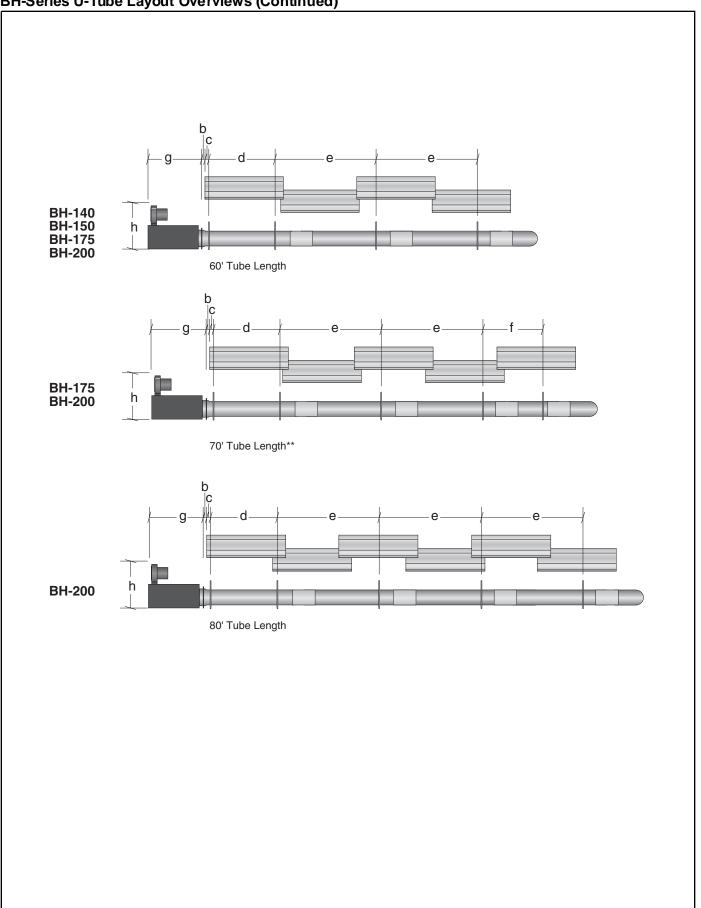
BH-Series U-Tube Assembly Overview



BH-Series U-Tube Layout Overviews

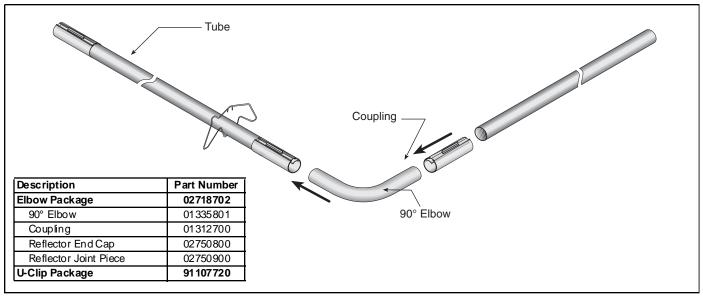


BH-Series U-Tube Layout Overviews (Continued)

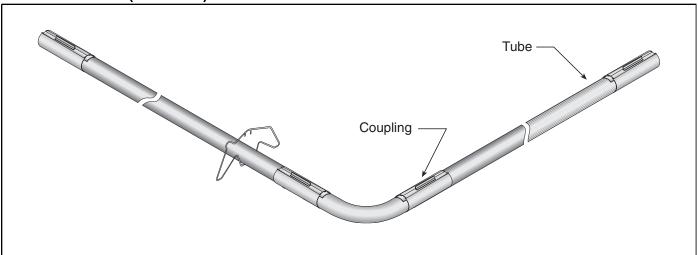


Elbow Package Configuration

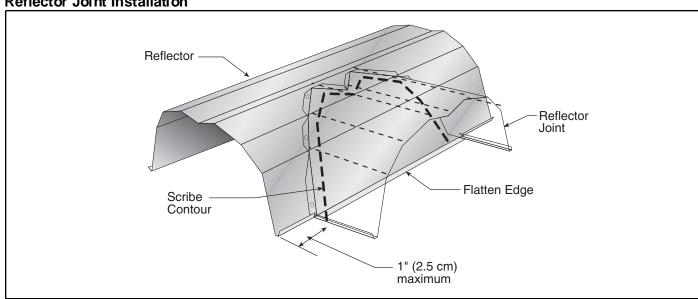
Elbow Installation



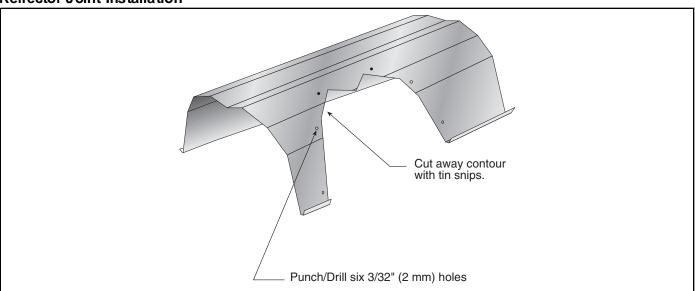
Elbow Installation (continued)



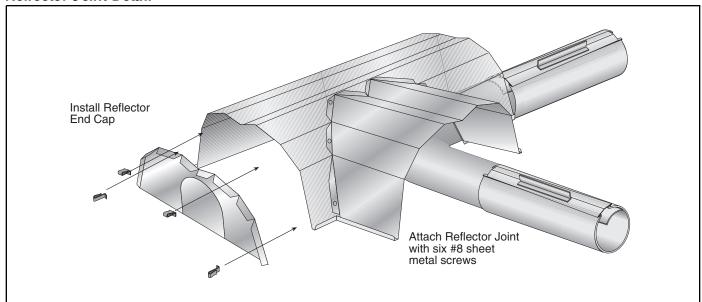
Reflector Joint Installation



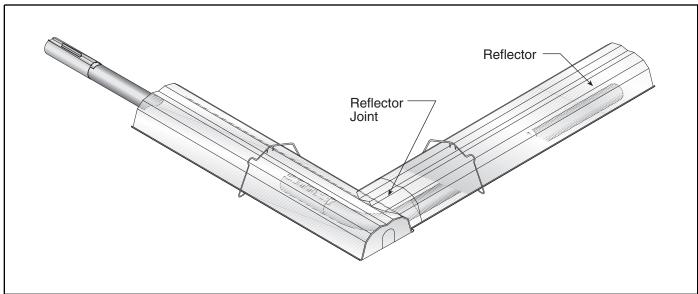
Reflector Joint Installation



Reflector Joint Detail

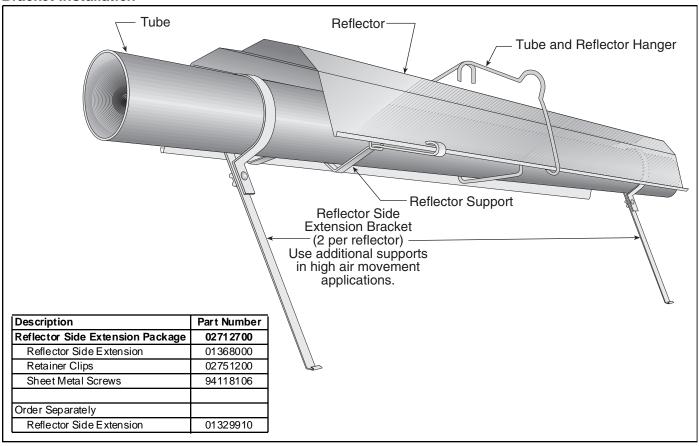


Reflector Joint Detail

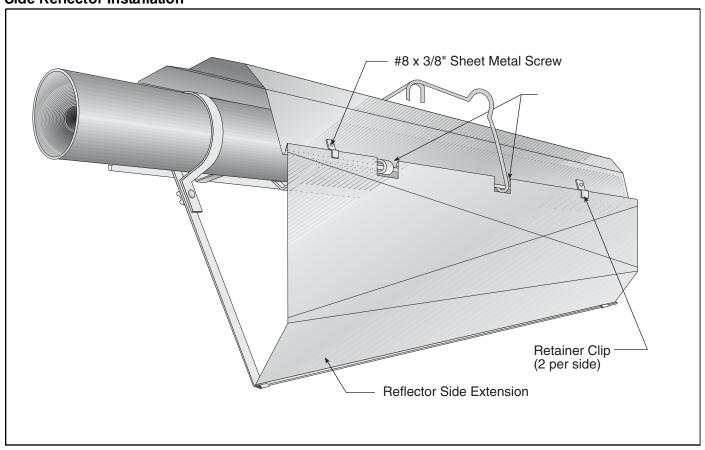


REFLECTOR SIDE EXTENSION

Bracket Installation

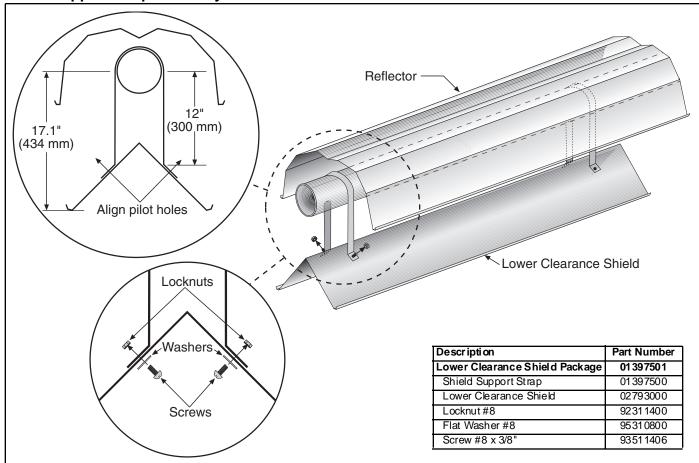


Side Reflector Installation



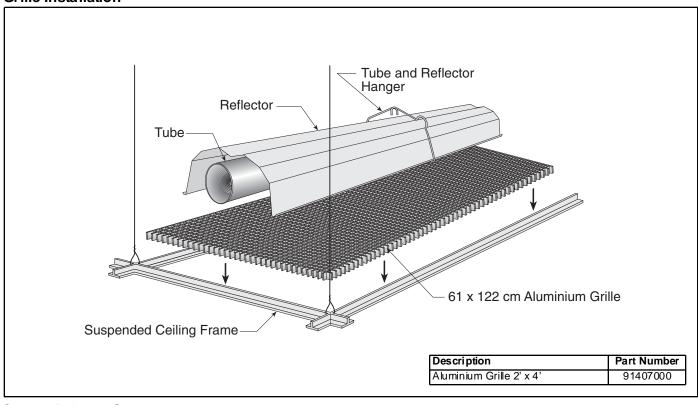
LOWER CLEARANCE SHIELD INSTALLATION

Shield Support Strap Assembly

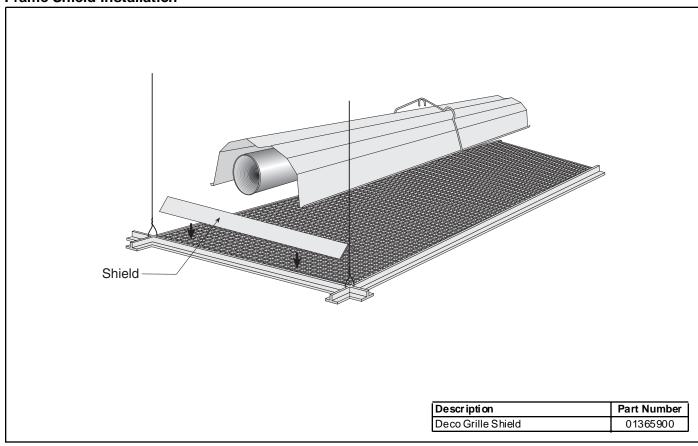


TWO-FOOT DECORATIVE GRILLE INSTALLATION

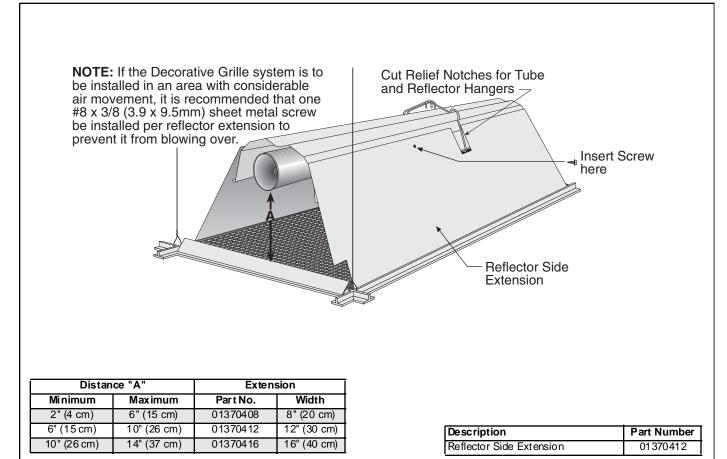
Grille Installation



Frame Shield Installation

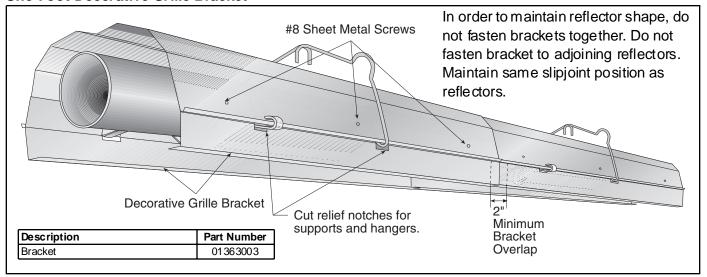


Reflector Side Extension Installation

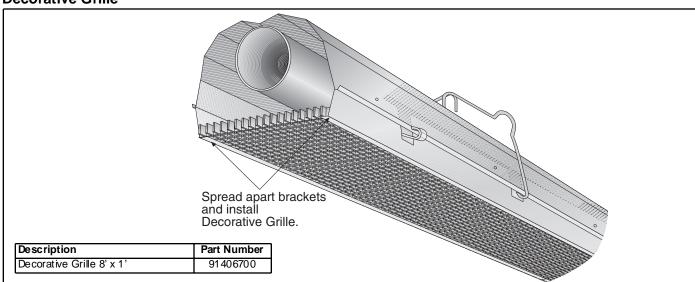


ONE-FOOT DECORATIVE GRILLE INSTALLATION

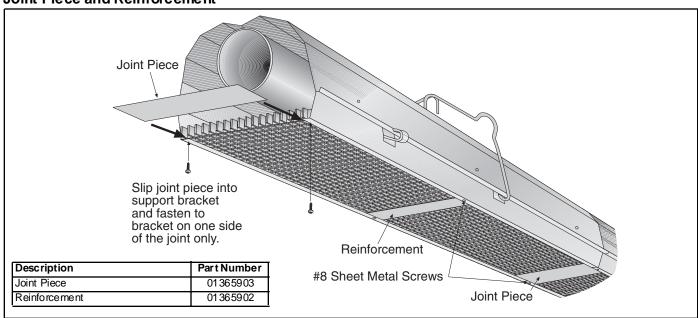
One-Foot Decorative Grille Bracket



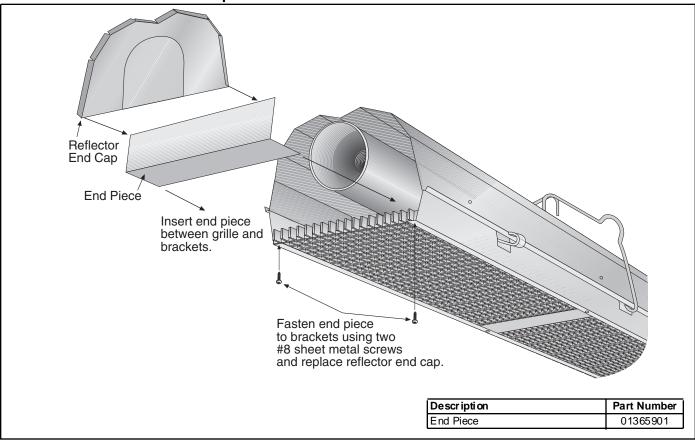
Decorative Grille



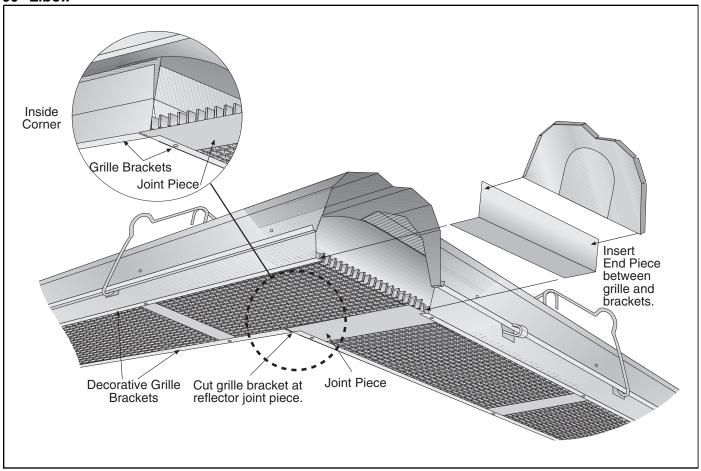
Joint Piece and Reinforcement



End Piece and Reflector End Cap

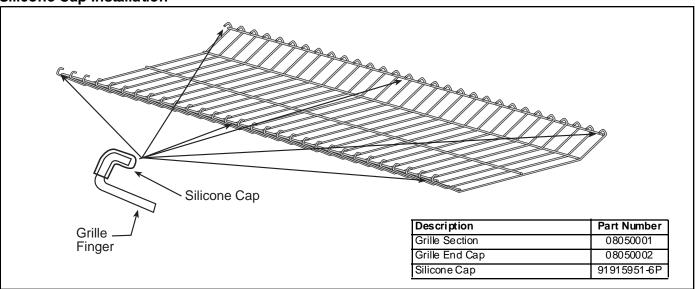


90° Elbow

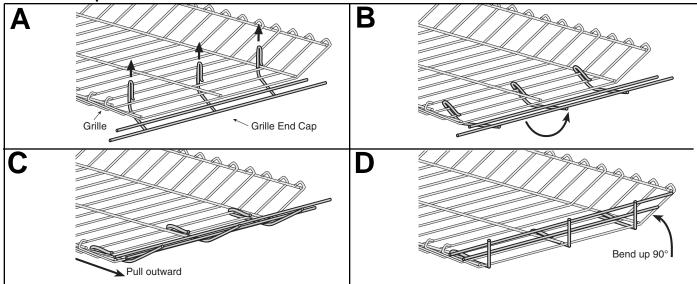


PROTECTIVE GRILLE INSTALLATION

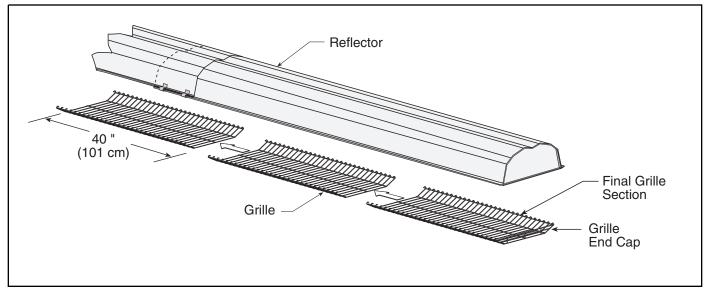
Silicone Cap Installation



Grille End Cap Installation

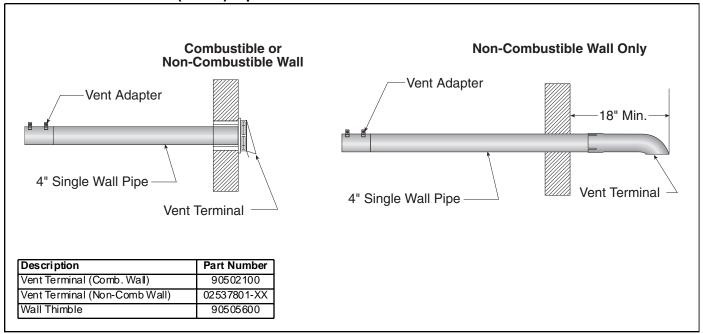


Grille Installation

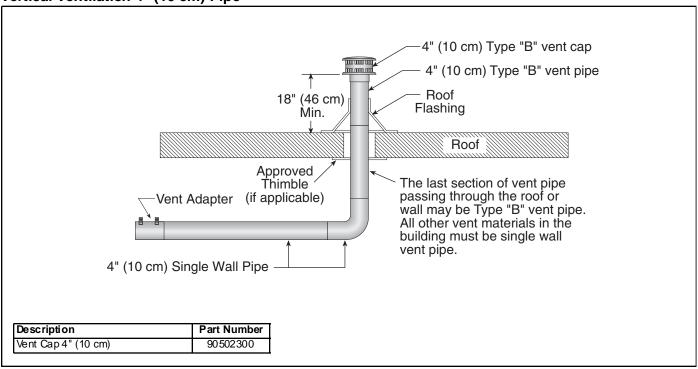


VENTING

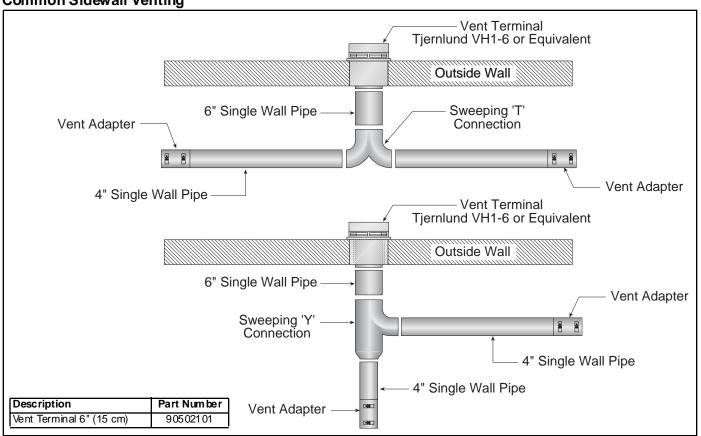
Horizontal Ventilation 4" (10 cm) Pipe



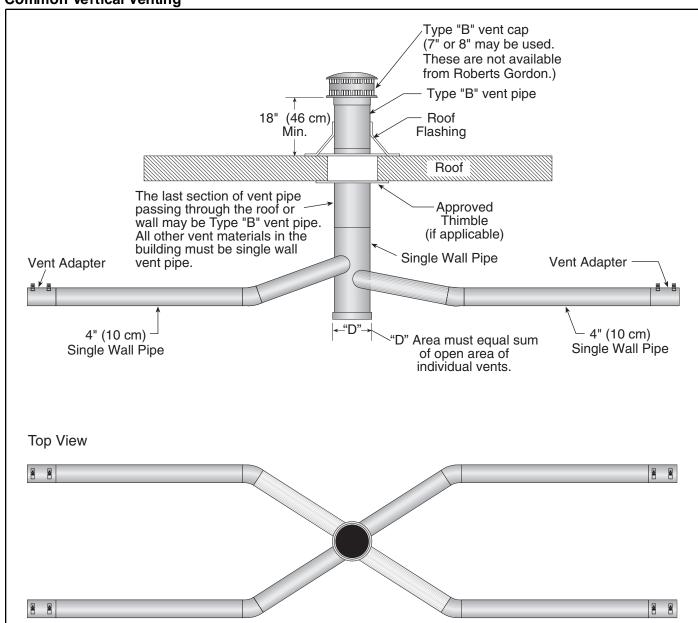
Vertical Ventilation 4" (10 cm) Pipe



Common Sidewall Venting

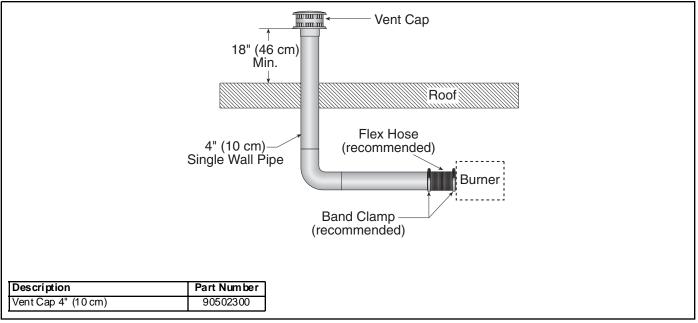


Common Vertical Venting

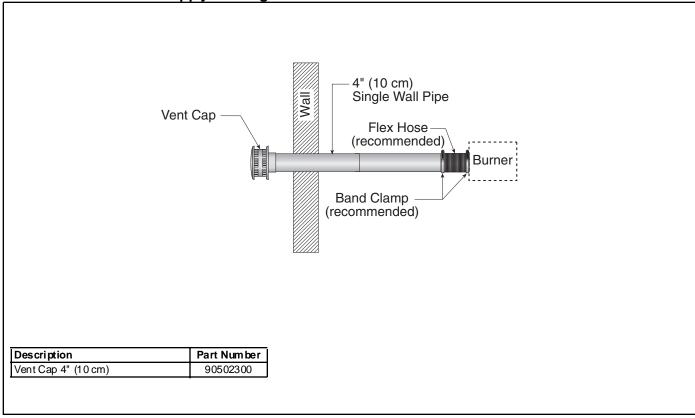


OUTSIDE COMBUSTION AIR SUPPLY

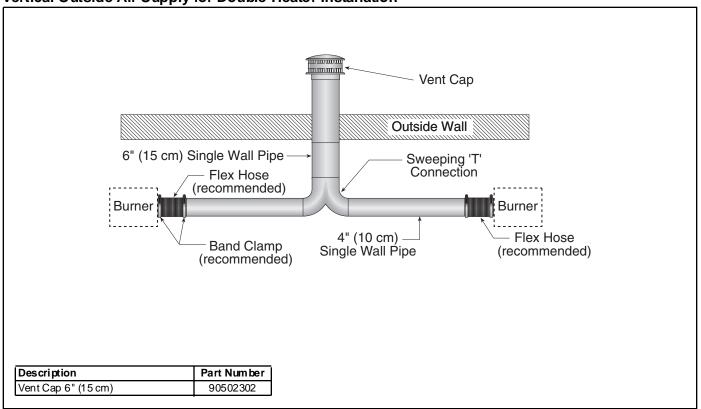
Vertical Outside Air Supply for Single Heater Installation



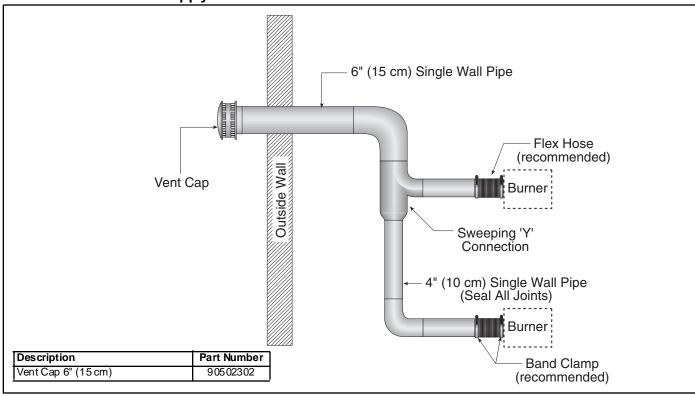
Horizontal Outside Air Supply for Single Heater Installation



Vertical Outside Air Supply for Double Heater Installation



Horizontal Outside Air Supply for Double Heater Installation



GAS PIPING



Fire Hazard

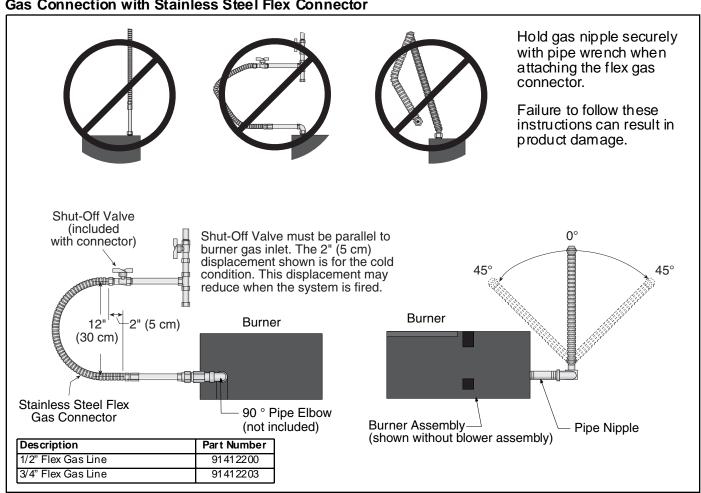
Tighten gas line fittings to connect gas supply as shown below.

Flex gas line can crack when twisted.

Gas line moves during normal operation.

Failure to follow these instructions can result in death, injury or property damage.

Gas Connection with Stainless Steel Flex Connector



WIRING

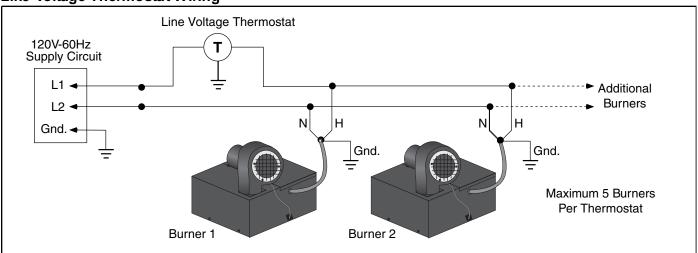


Disconnect electrical power and gas supply before servicing.

This appliance must be connected to a properly grounded electrical source.

Failure to follow these instructions can result in death or electrical shock.

Line Voltage Thermostat Wiring





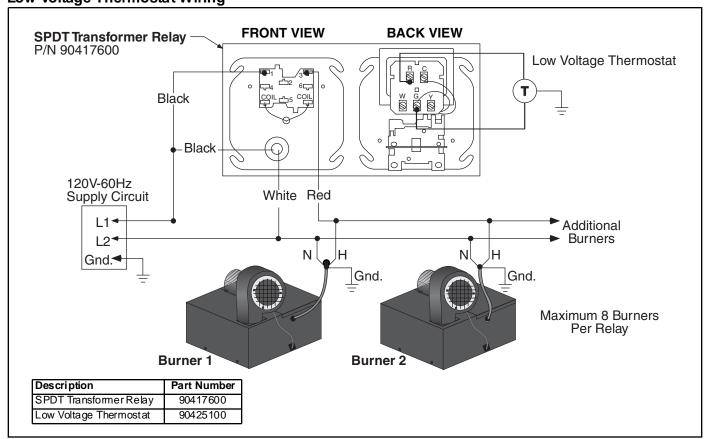
Electrical Shock Hazard

Disconnect electrical power and gas supply before servicing.

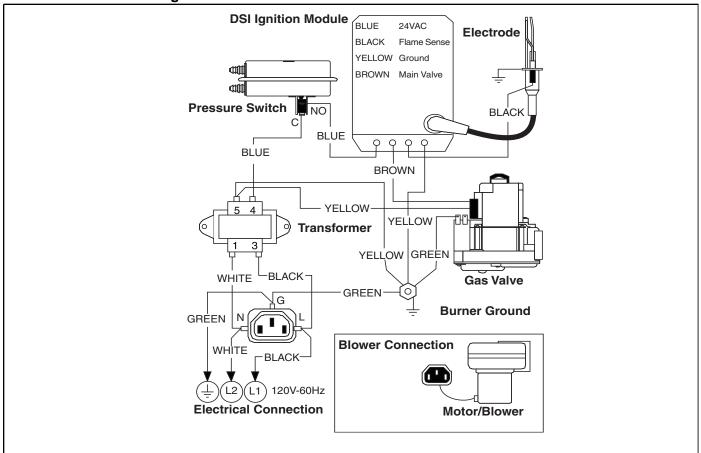
This appliance must be connected to a properly grounded electrical source.

Failure to follow these instructions can result in death or electrical shock.

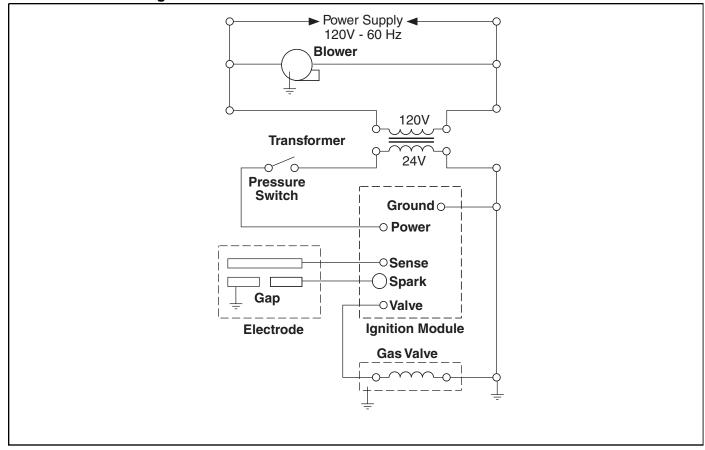
Low Voltage Thermostat Wiring



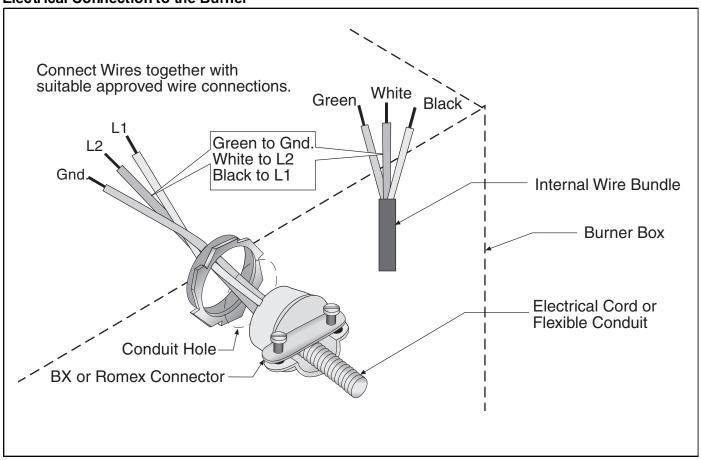
BH-Series Internal Wiring



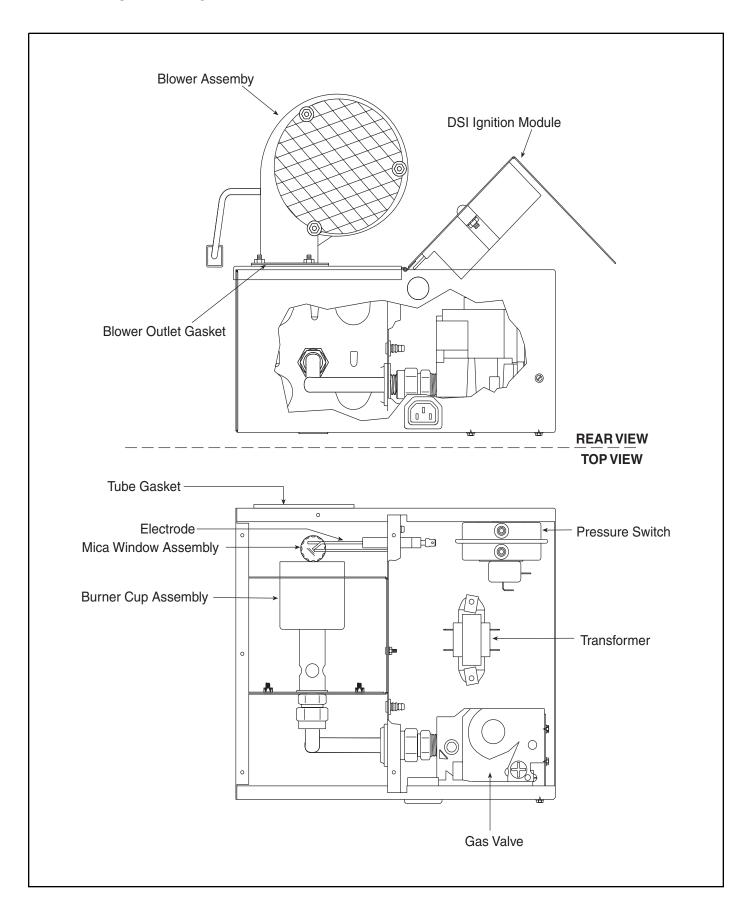
BH-Series Ladder Diagram



Electrical Connection to the Burner



INTERNAL BURNER DIAGRAM



THE ROBERTS GORDON® GORDONRAY® BH LIMITED WARRANTY

ROBERTS-GORDON WILL PAY FOR:

Within 42 months from date of shipment from Roberts-Gordon, replacement parts will be provided free of charge for any part of the controller which fails due to a manufacturing or material defect.

Roberts-Gordon will require the part in question to be returned to the factory. Roberts-Gordon will, at its sole discretion, repair or replace after determining the nature of the defect and disposition of part in question.

ROBERTS GORDON® Replacement Parts are warranted for a period of 18 months from date of shipment from Roberts-Gordon or the remaining ROBERTS GORDON® GORDONRAY® BH warranty.

ROBERTS-GORDON WILL NOT PAY FOR:

Service trips, service calls and labor charges. Shipment of replacement parts.

Claims where the total price of the goods have not been paid.

Damage due to:

- Improper installation, operation or maintenance.
- Misuse, abuse, neglect, or modification of the ROBERTS GORDON® GORDONRAY® BH in any way.
- Use of the ROBERTS GORDON® GORDONRAY® BH for other than its intended purpose.
- Incorrect gas or electrical supply, accident, fire, floods, acts of God, war, terrorism, or other casualty.
- Improper service, use of replacement parts or accessories not specified by Roberts-Gordon.
- Failure to install or maintain the ROBERTS GOR-DON® GORDONRAY® BH as directed in the Installation, Operation and Service manual.
- Relocation of the ROBERTS GORDON® GORDON-RAY® BH after initial installation
- The use of the ROBERTS GORDON® GORDON-RAY® BH in a corrosive atmosphere containing contaminants.
- The use of the ROBERTS GORDON® GORDON-RAY® BH in the vicinity of a combustible or explosive material.
- Any defect in the ROBERTS GORDON® GORDON-RAY® BH arising from a drawing, design, or specification supplied by or on behalf of the consumer.
- Damage incurred during shipment. Claim must be filed with carrier.

WARRANTY IS VOID IF:

The ROBERTS GORDON® GORDONRAY® BH is not installed by an contractor qualified in the installation and service of gas-fired heating equipment.

You cannot prove original purchase date and required annual maintenance history.

The data plate and/or serial number are removed, defaced, modified or altered in any way.

The ownership of the ROBERTS GORDON® GORDONR AY® BH is moved or transferred. This warranty is nontransferable.

Roberts-Gordon is not permitted to inspect the damaged controller and/or component parts.

READ YOUR INSTALLATION, OPERATION AND SERVICE MANUAL

If you have questions about your controller, contact your installing professional. Should you need Replacement Parts or have additional questions, call or write Roberts-Gordon:

U.S.A.

1250 William Street P.O. Box 44 Buffalo, New York 14240-0044 716.852.4400

Canada

76 Main Street West, Unit 10 Grimsby, Ontario L3M 1R6 905.945.5403

On the web at: www.rg-inc.com

Roberts-Gordon's liability, and your exclusive remedy, under this warranty or any implied warranty (including the implied warranties of merchantability and fitness for a particular purpose) is limited to providing replacement parts during the term of this warranty. Some jurisdictions do not allow limitations on how long an implied warranty lasts, so this limitation may not apply to you. There are no rights, warranties or conditions, expressed or implied, statutory or otherwise, other than those contained in this warranty.

Roberts-Gordon shall in no event be responsible for incidental or consequential damages or incur liability for damages in excess of the amount paid by you for the ROBERTS GORDON® GORDONRAY® BH. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so this limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from jurisdiction to jurisdiction.

Roberts-Gordon shall not be responsible for failure to perform under the terms of this warranty if caused by dircumstances out of its control, including but not limited to war, fire, flood, strike, government or court orders, acts of God, terrorism, unavailability of supplies, parts or power. No person is authorized to assume for Roberts-Gordon any other warranty, obligation or liability.

LIMITATIONS ON AUTHORITY OF REPRESENTATIVES:

No representative of Roberts-Gordon, other than an Executive Officer, has authority to change or extend these provisions. Changes or extensions shall be binding only if confirmed in writing by Roberts-Gordon's duly authorized Executive Officer.