

Vantage[®] TF

The Twin Fire **Unitary Infrared Heater Submittal: TF-Series**

Job:		200	
Location:		7500	100
Engineer: Gas Specs:			9.3
Gas Specs:		V 1660.	4
Date:			Charles .
V.	10/10		

QTY.	MODEL NO. TF	UNIT INPUT	BTU/HR
QTY.	MODEL NO. TF	UNIT INPUT	BTU/HR
QTY.	MODEL NO. TF	UNIT INPUT	BTU/HR
QTY.	MODEL NO. TF	UNIT INPUT	BTU/HR
199			
	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™

Roberts-Gordon

1250 William Street P.O. Box 44 Buffalo, New York 14240-0044 Telephone: 716.852.4400 Fax: 716.852.0854

Toll Free: 800.828.7450

www.rg-inc.com

Roberts-Gordon Canada Inc.

241 South Service Road West Grimsby, Ontario L3M 1Y7 Canada Telephone: 905.945.5403

Fax: 905.945.0511

TABLE OF CONTENTS			
STANDARD PARTS LIST	1	ELBOW PACKAGE CONFIGURATION	20
Contents of TF-Series Burner Carton	1	Elbow Installation	20
Contents of Core and Extension Packages	1	Elbow Installation (continued)	
GENERAL SPECIFICATIONS	2	Reflector Joint Installation	
Material Specification		Reflector Joint Detail	
Reflectors	2	REFLECTOR SIDE EXTENSION	22
Heater Specifications	2	Bracket Installation	22
Ignition	2	Side Reflector Installation	
Suspension Specifications	2	LOWER CLEARANCE SHIELD INSTALLATION	
Controls Specifications		Shield Support Strap Assembly	
Gas Pressure at Manifold:	2	TWO-FOOT DECORATIVE GRILLE INSTALLATIO	
Dimensions:	2	Grille Installation	
Pipe Connection:		Frame Shield Installation	
Gas Inlet Pressure:		Reflector Side Extension Installation	
Electrical Rating (all Models):		ONE-FOOT DECORATIVE GRILLE INSTALLATIO	N25
Standard Reflector		One-Foot Decorative Grille Bracket	
One Side Reflector	3	Decorative Grille	
Two Side Reflectors		Joint Piece and Reinforcement	
45° Tilt Reflector		End Piece and Reflector End Cap	
U-Tube, Standard Reflector		90° Elbow	
U-Tube, Full 45°		PROTECTIVE GRILLE INSTALLATION	
U-Tube, Opposite 45° Reflector	5	Silicone Cap Installation	
2-Foot Deco Grille, 1-Foot Deco Grille and		Grille End Cap Installation	
Protective Grille		Grille Installation	
Lower Clearance Shield*		VENTING	
Venting		Horizontal Ventilation 4" (10 cm) Pipe	
TF-SERIES ASSEMBLY OVERVIEW		Vertical Ventilation 4" (10 cm) Pipe	
Major Component Descriptions		CFlexible Boot Installation (Single Vent)	
TF-Series Linear Assembly Overview		Common Sidewall Venting	
HEATER INSTALLATION		Vertical Ventilation 6" (15 cm) Pipe	
Critical Hanger Placement		Flexible Boot Installation (Common Vent)	
TF-Series Linear Layout Overview	10	OUTSIDE COMBUSTION AIR SUPPLY	
TF-Series Linear Layout Overview		Vertical Outside Air Supply	
(Continued)		Horizontal Outside Air Supplly	
BBurner Tube Installation		GAS PIPING	
Burner Installation		WIRING	
Tube Clamp Package Installation		Line Voltage Thermostat Wiring	
Coupling and Tube Assembly		Low Voltage Thermostat and Relay Wiring	
Coupling and Tube Assembly (Continued)		Electrical Connection to the Burner	
Turbulator Installation		INTERNAL BURNER DIAGRAM	
Reflector Installation	15	THE ROBERTS GORDON® VANTAGE® TF LIMITE	
Reflector, U-Clip and Reflector Support		WARRANTY	38
Installation			
OPTIONAL HEATER ACCESSORIES			
TF-Series U-Tube Assembly Overview			
TF-Series U-Tube Layout Overviews	18		
TF-Series U-Tube Layout Overviews			
(Continued)	19		

© 2004 ROBERTS GORDON

All rights reserved. No part of this work covered by the copyrights herein may be reproduced or copied in any form or by any means - graphic, electronic, or mechanical, including photocopying, recording, taping or information storage and retrieval systems - without the written permission of Roberts-Gordon.

STANDARD PARTS LIST

Contents of TF-Series Burner Carton

Part No.	Description	TF-120	TF-160	TF-200	TF-250	TF-300	TF-350	TF-380
090XXXXX	TF Burner Assembly (Rate and Fuel Varies)	1	1	1	1	1	1	1
02568200	Gasket	1	1	1	1	1	1	1
190 100NA	Installation, Operation and Service Manual	1	1	1	1	1	1	1
94273914	Hex Head Bolts 5/16-18 Rolok	8	8	8	8	8	8	8
96411 600	Split Lock washer	8	8	8	8	8	8	8
91412203	Flexible Gas Connector Assembly - 3/4" NPT	1	1	1	1	1	1	1
03051 503	Turbulator Adapter	2	2	2	-	-	-	-
03051 504	Turbulator 2.5 ' (76 cm) Aluminized Steel	8	8	4	-	-	-	-
91412800	Flexible Boot	2	2	2	2	2	2	2
91901300	Boot Clamp	4	4	4	4	4	4	4
09080000	Vent Sleeve	2	2	2	2	2	2	2

Contents of Core and Extension Packages

				(Core	Pac	ka ge	S				Extension Packages										
		Alı	t Ro with umi r efl ec	ı ıum	Αlι	ı min with ımin efl ec	um	St	mini with ainle Stee	n ess I	,	lot R w Alum Refl	ith i nun	n	1	mini Alum Refl	i nur	n	Sta	inle	zed v ss Si ector	teel
Part No.	Description	20 '		40'	-	30 '			30 '			20'	30 '		10 ¹		30 '	40'	10'		30 '	-
91409300	Tube, Hot Rolled Steel, 10' (3m)	1	2	3	-	-	-	-	-	-	1	2	3	4	-	-	-	-	-	-	-	-
91409408	Tube, HT Aluminized, 10' (3m)	-	-	-	1	2	3	1	2	3	-	-	-	-	1	2	3	4	1	2	3	4
03051101	Burner Tube, ALUMI-THERM® Steel, 10 ' (3m)	1	1	1	1	1	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-
01312700	Coupling Assembly	1	2	3	1	2	3	1	2	3	1	2	3	4	1	2	3	4	1	2	3	4
0275 0303	Standard Reflector, 8 ' (3.5m)	3	4	6	3	4	6	-	-	-	2	3	4	6	2	3	4	6	-	-	-	-
0275 0800	End Cap	2	2	2	2	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
027503SS	Stainless Steel Reflector, 8' (3.5m)	-	-	-	-	-	-	3	4	6	-	-	-	-	-	-	-	-	2	3	4	6
027508SS	Stainless Steel End Cap	-	-	-	-	-	-	2	2	2	-	-	-	-	-	-	-	-	-	-	-	$\overline{}$
03090100	Tube and Reflector Hanger	3	4	5	3	4	5	3	4	5	1	2	3	4	1	2	3	4	1	2	3	4
91907302	S-Hook	6	8	10	6	8	10	6	8	10	2	4	6	8	2	4	6	8	2	4	6	8
	Reflector Support Package (Strap , Wire Form, Screws)	2	3	5	2	3	5	4	5	7	2	3	4	6	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	1	1	1	1	1	1
90502700	VentAdapter (Notrequired for TFModels)	1	1	1	1	1	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-
01318901	Tube Clamp Package	1	1	1	1	1	1	2	2	2	-	-	-	-	-	-	-	-	-	-	-	-
	Part Number	CP20HRS	CP30HRS	CP40HRS	CP20ALUM	CP30ALUM	CP40ALUM	CP 20 AL UM SS	CP30 AL UMSS	CP 40 AL UMSS	EXP10HRS	EXP20HRS	EXP30HRS	EXP40HRS	EXP10ALUM	EXP20ALUM	EXP30ALUM	EXP40ALUM	EXP 10 AL UM SS	E XP 20 AL UMSS	E XP30 AL UMSS	EXP40 ALUMSS

GENERAL SPECIFICATIONS

Material Specification Reflectors

.024 Aluminum

Heater Specifications Ignition

Automatic direct spark ignition with safety shut-off.

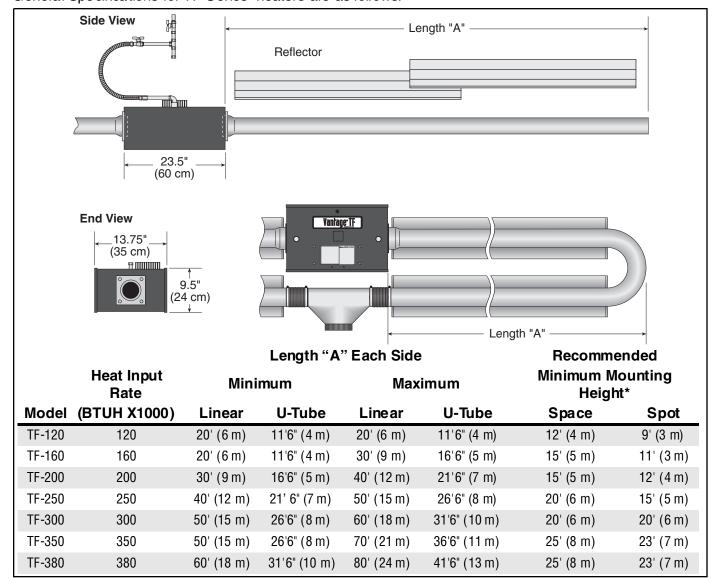
Suspension Specifications

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 TF-Series heaters are as follows:



Gas Pressure at Manifold:

Natural Gas: 3.5" w.c.

LP Gas: 10.5" w.c.

Dimensions:

Vent Connection Size:

4" (10 cm) or 6" (15 cm)

Outside Air Connection Size:

4" (10 cm) or 6" (15 cm)

Refer to figure above for dimensional information.

Pipe Connection:

3/4" NPT

Gas Inlet Pressure:

Natural Gas: 5.0" w.c. Minimum

12.0" w.c. Minimum LP Gas:

16.0" w.c. Maximum

16.0" w.c. Maximum

Electrical Rating (all Models):

120V - 60 Hz., 1.0 Amp

- 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.

Standard Reflector									
		(inches)							
	Model	Α	В	С	D	Α	В	С	D
↑	TF-120	6	35	63	35	16	89	161	89
	TF-160	6	38	66	38	16	97	168	97
	TF-200	6	40	71	40	16	102	181	102
C B→	TF-250	6	46	77	46	16	117	196	117
	TF-300	6	50	80	50	16	127	204	127
	TF-350	8	52	82	52	21	133	209	133
	TF-380	8	52	82	52	21	133	209	133

			(inc	hes)		(centimeters)				
	Model	Α	В	С	D	Α	В	С	D	
A	TF-120	6	9	63	47	16	23	161	120	
↑ A	TF-160	6	9	70	54	16	23	178	138	
<u> </u>	TF-200	6	9	77	59	16	23	196	150	
	TF-250	6	9	83	65	16	23	211	166	
	TF-300	6	9	86	69	16	23	219	176	
↓ L	TF-350	8	9	88	73	21	23	224	186	
	TF-380	8	9	88	73	21	23	224	186	

			(inc	hes)			(centimeters)				
	Model	Α	В	С	D	Α	В	С	D		
A	TF-120	6	23	66	23	16	59	168	59		
	TF-160	6	25	72	25	16	64	183	64		
	TF-200	6	27	78	27	16	69	199	69		
	TF-250	6	32	84	32	16	82	214	82		
C B→ C D→	TF-300	6	35	88	35	16	89	224	89		
↓ \	TF-350	8	40	91	40	21	102	232	102		
	TF-380	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.

45° Tilt Reflector			(inc	hes)		(centimeters)				
	Model	Α	В	C	D	Α	В	С	D	
^	TF-120	8	8	60	54	21	21	153	138	
	TF-160	8	8	66	60	21	21	168	153	
	TF-200	10	8	74	64	26	21	188	163	
Ç I	TF-250	10	8	78	69	26	21	199	176	
← B → ← D →	TF-300	12	8	84	74	31	21	214	188	
*	TF-350	12	8	85	79	31	21	216	201	
	TF-380	12	8	85	79	31	21	216	201	

U-Tube, Standard Reflector											
			(inc	hes)		(centimeters)					
	Model	Α	В	С	D	Α	В	С	D		
<u> </u>	TF-120	6	35	63	30	16	89	161	77		
A	TF-160	6	38	69	37	16	97	176	94		
	TF-200	6	40	76	39	16	102	194	100		
↑ ←B→ ↓ ←D→	TF-250	6	46	79	43	16	117	201	110		
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	TF-300	6	50	84	47	16	127	214	120		
	TF-350	8	54	87	51	21	138	221	130		
	TF-380	8	54	87	51	21	138	221	130		

U-Tube, Full 45°									
		(inches)				(centimeters)			
_	Model	Α	В	С	D	Α	В	С	D
Â	TF-120	8	8	60	42	21	21	153	107
←B→ ←D→	TF-160	8	8	66	46	21	21	168	117
	TF-200	8	8	74	52	21	21	188	133
	TF-250	8	8	78	61	21	21	199	155
C	TF-300	8	8	84	66	21	21	214	168
Ŭ .	TF-350	8	8	85	70	21	21	216	178
	TF-380	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.

U-Tube, Opposite 45° Refl	ector									
			(inc	hes)		(centimeters)				
	Model	Α	В	С	D	Α	В	С	D	
A A	TF-120	8	54	60	22	21	138	153	56	
	TF-160	8	60	66	22	21	153	168	56	
	TF-200	10	64	74	22	26	163	188	56	
←B→l	TF-250	10	70	78	22	26	178	199	56	
↓	TF-300	12	74	84	22	31	188	214	56	
	TF-350	12	76	85	22	31	194	216	56	
	TF-380	12	76	85	22	31	194	216	56	

2-Foot Deco Grille, 1-Foot Deco Grille and Protective Grille									
			(inc	hes)		(centimeters)			
	Model	Α	В	С	D	Α	В	С	D
Î.	TF-120	6	35	63	35	16	89	161	89
	TF-160	6	38	66	38	16	97	168	97
1	TF-200	6	40	71	40	16	102	181	102
C	TF-250	6	46	77	46	16	117	196	117
	TF-300	6	50	80	50	16	127	204	127
*	TF-350	8	52	82	52	21	133	209	133
	TF-380	8	52	82	52	21	133	209	133

Lower Clearance Shield*									
			(inc	hes)		(centimeters)			
	Model	Α	В	С	D	Α	В	С	D
	TF-120	6	39	33	39	16	100	84	100
A	TF-160	6	40	38	40	16	102	97	102
	TF-200	6	50	44	50	16	127	112	127
	TF-250	6	54	48	54	16	138	122	138
C B D D	TF-300	6	55	50	55	16	140	127	140
	TF-350**		Unapp	roved		Unapproved			
	TF-380**			roved		Unapproved			

*When installed in the first 20' (6 m) on each side of the burner.

^{**}Roberts-Gordon prohibits the installation of this heater for all unapproved applications.

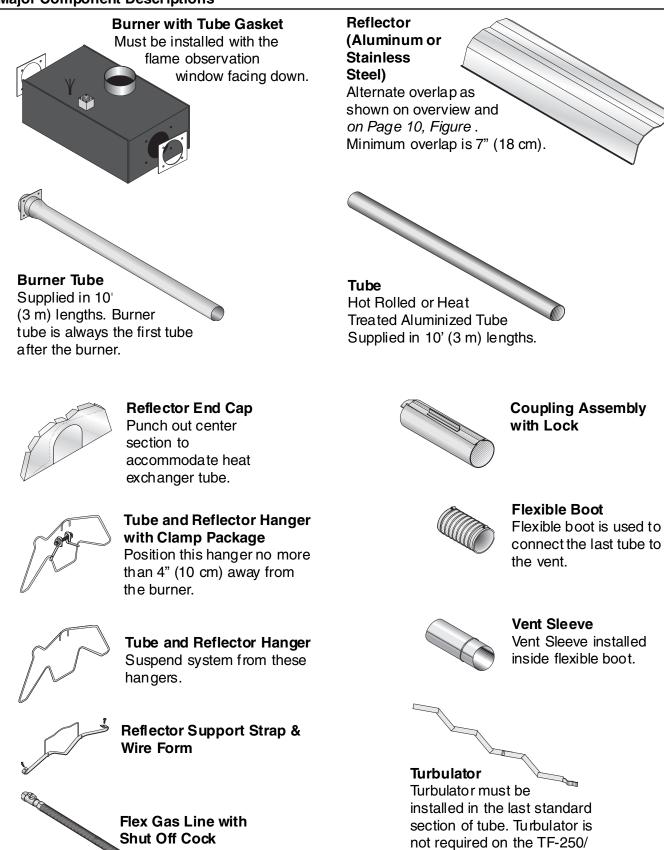
NOTE: 1. All dimensions are from the surfaces of all tubes, couplings and elbows.

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.

Venting								
			(inches)		(centimeters)			
<u> </u>	Model	A	E	F	Α	E	F	
A ←E→	TF-120	14	18	18	36	46	46	
Unvented Vent	TF-160	20	24	18	51	61	46	
Infrared Tubes	TF-200	20	24	18	51	61	46	
	TF-250	20	24	18	51	61	46	
Vented	TF-300	20	30	18	51	77	46	
←F→	TF-350	20	30	18	51	77	46	
	TF-380	20	30	18	51	77	46	

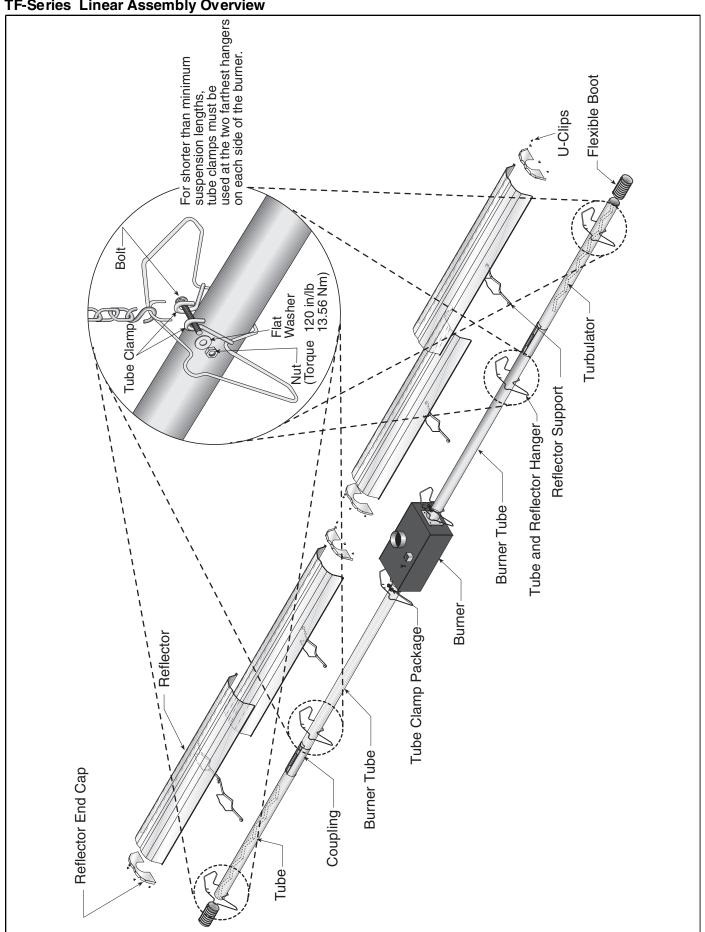
TF-SERIES ASSEMBLY OVERVIEW

Major Component Descriptions



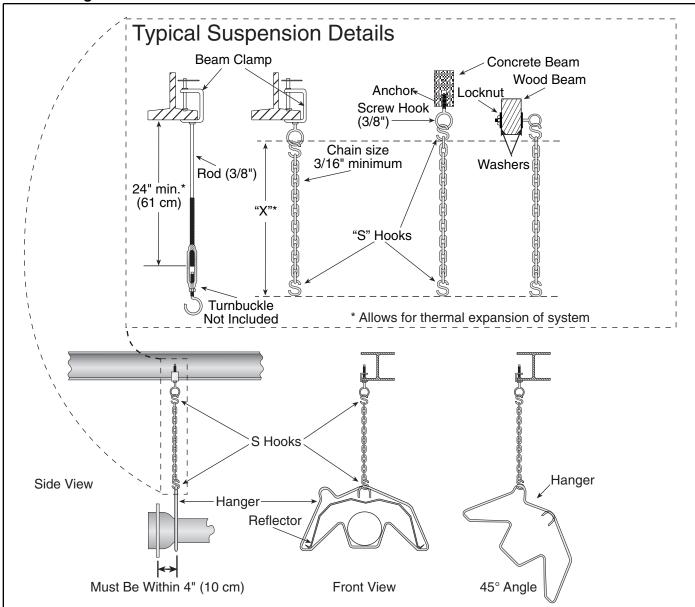
300/350/380. For installation see *Page 15*, Section .

TF-Series Linear Assembly Overview



HEATER INSTALLATION

Critical Hanger Placement



Total Straight Length (both sides) or Length from U-Tube to U-Tube in a Double "U" Layout	Typical Expansion Each Side	Minimum "X" Length
0' - 50'	±1" (3 cm)	12" (31 cm)
51' - 60'	±2" (5 cm)	18" (46 cm)
61' - 80'	±3" (8 cm)	24" (61 cm)
81' - 100'	±4" (10 cm)	30" (76 cm)
101' - 120'	±5" (13 cm)	36" (91 cm)
121' - 140'	±6" (15 cm)	42" (107 cm)
141' - 160'	±7" (18 cm)	48" (122 cm)

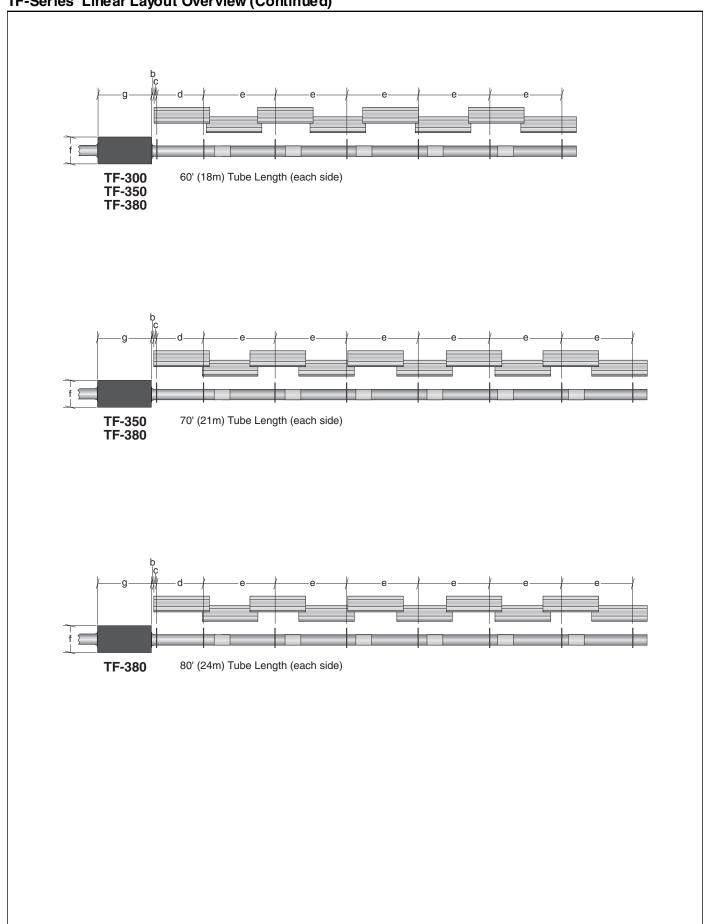
If the installation requires a shorter suspension length than the minimum listed, the suspension length may be reduced by 6" (16 cm). In this case tube clamps MUST be used at the two farthest hangers on each side of the burner. See Page 8, Figure.

Description	Part Number
S-Hook	91907302
Tube/Reflector Hanger	03090100

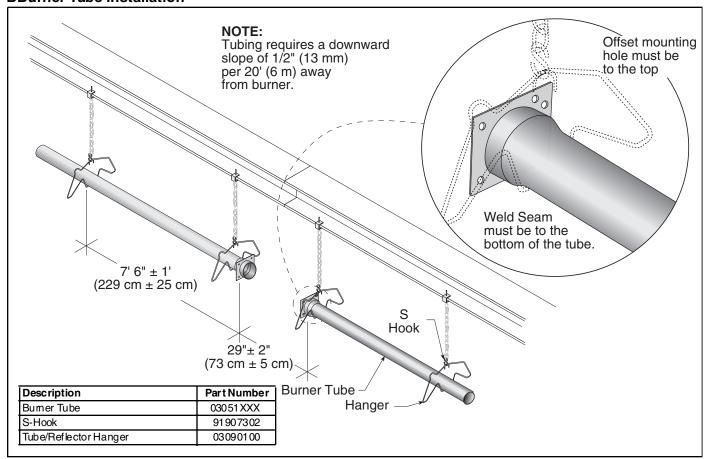
TF-Series Linear Layout Overview

Linear layouts showing one side. Use same measurements for the other side. **LEGEND** Burner Reflector Tube **TF-120** 20' (6m) Tube Length (each side) Tube/Reflector TF-160 Hanger Coupling Assembly a = 14" (36 cm) reflector width (not shown) b = 2'' (5 cm)end cap to burner c = 2" (5 cm)TF-160 TF-200 30' (9m) Tube Length (each side) end cap to hanger d = 7'6" (229 cm) distance first hanger e = 10' (305 cm) distance between hangers f = 9.5" (24 cm)burner height g = 23.5" (60 cm) burner length **TF-200** 40' (12m) Tube Length (each side) TF-250 50' (15m) Tube Length (each side) TF-250 TF-300 TF-350

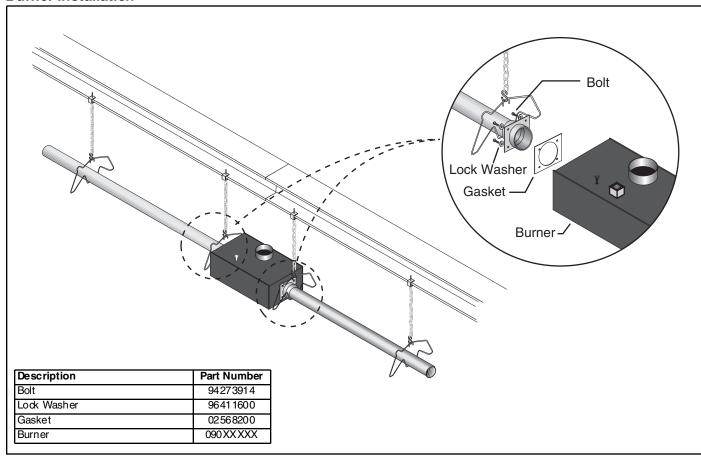
TF-Series Linear Layout Overview (Continued)



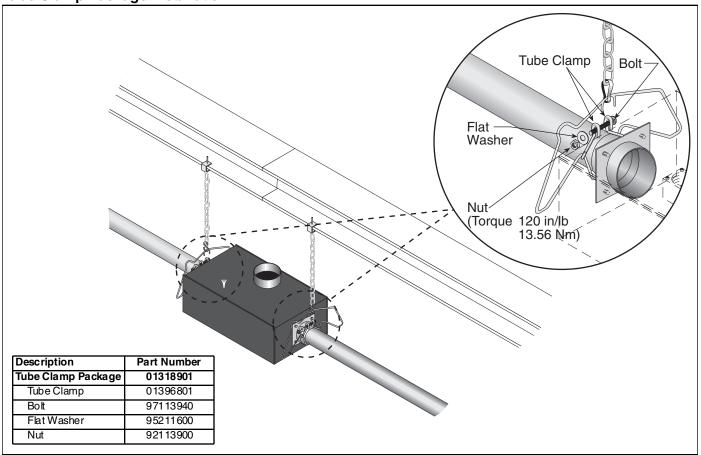
BBurner Tube Installation



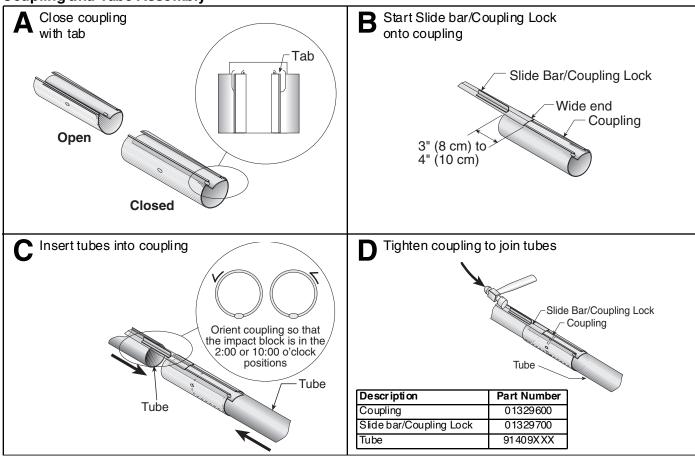
Burner Installation



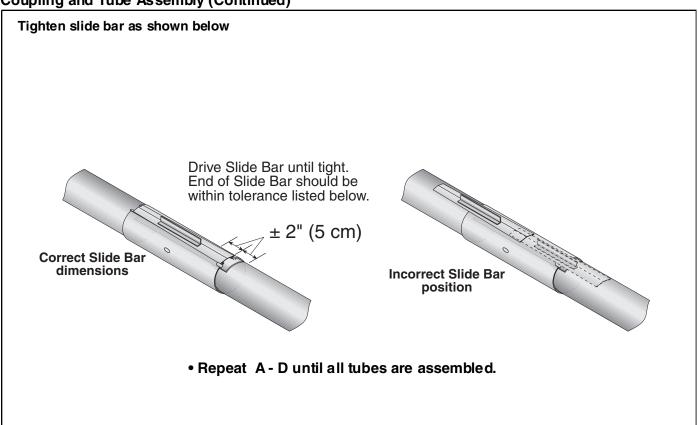
Tube Clamp Package Installation



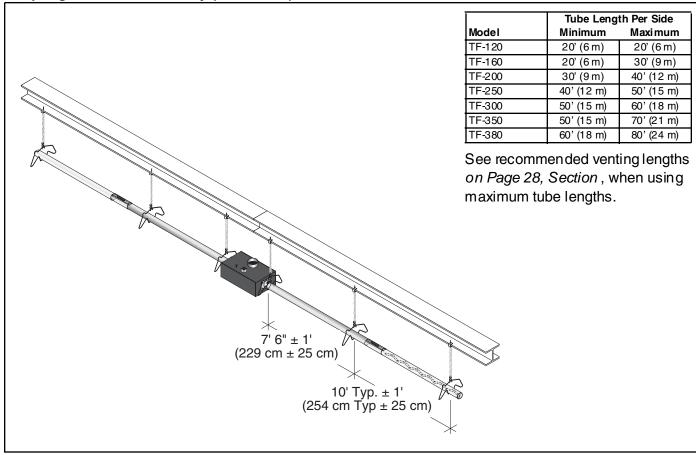
Coupling and Tube Assembly



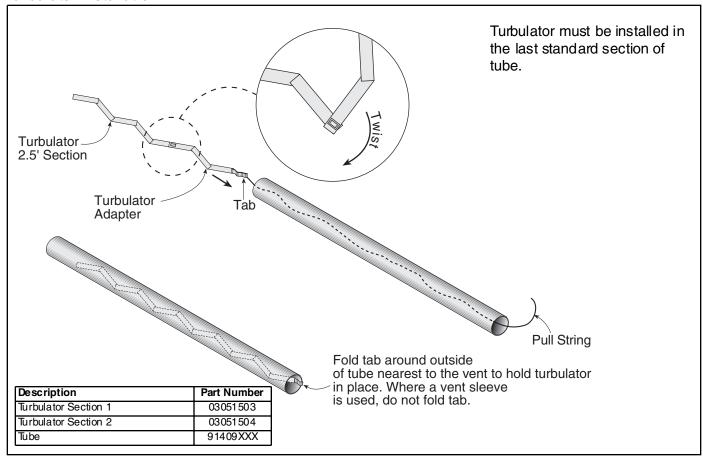
Coupling and Tube Assembly (Continued)



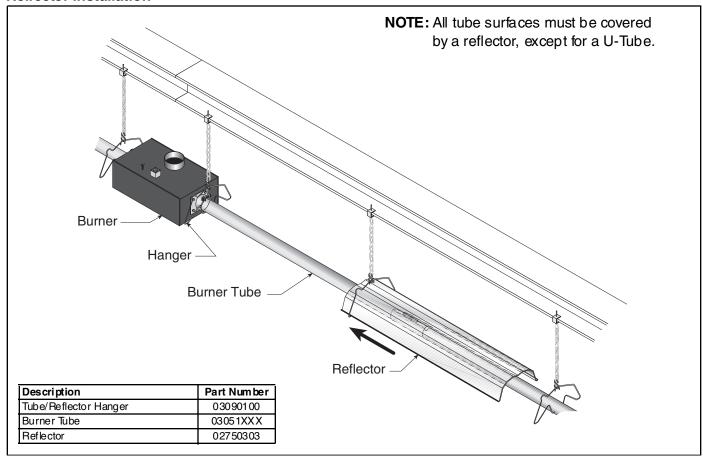
Coupling and Tube Assembly (Continued)



Turbulator Installation

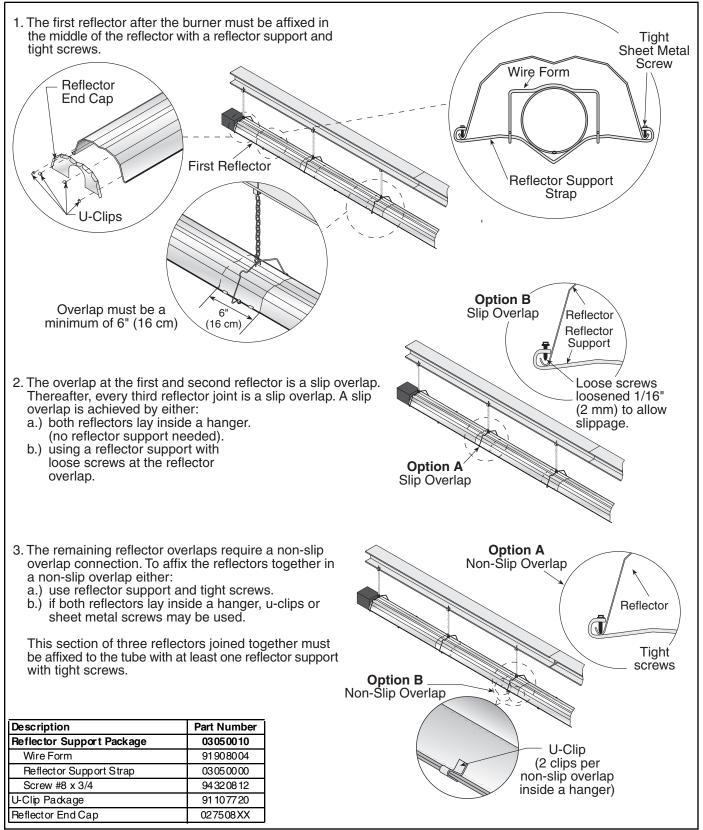


Reflector Installation



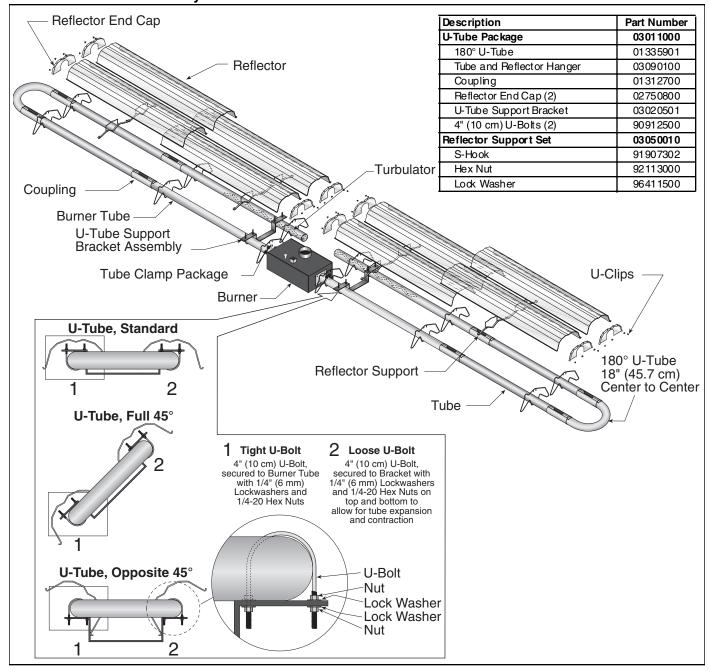
Reflector, U-Clip and Reflector Support Installation

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 reflector supports and U-clips depend on the individual installation. The following rules must be observed.



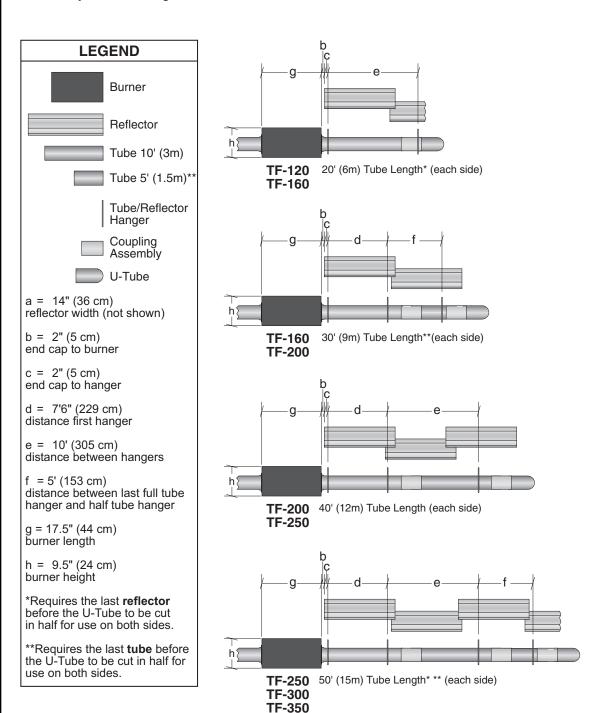
OPTIONAL HEATER ACCESSORIES

TF-Series U-Tube Assembly Overview

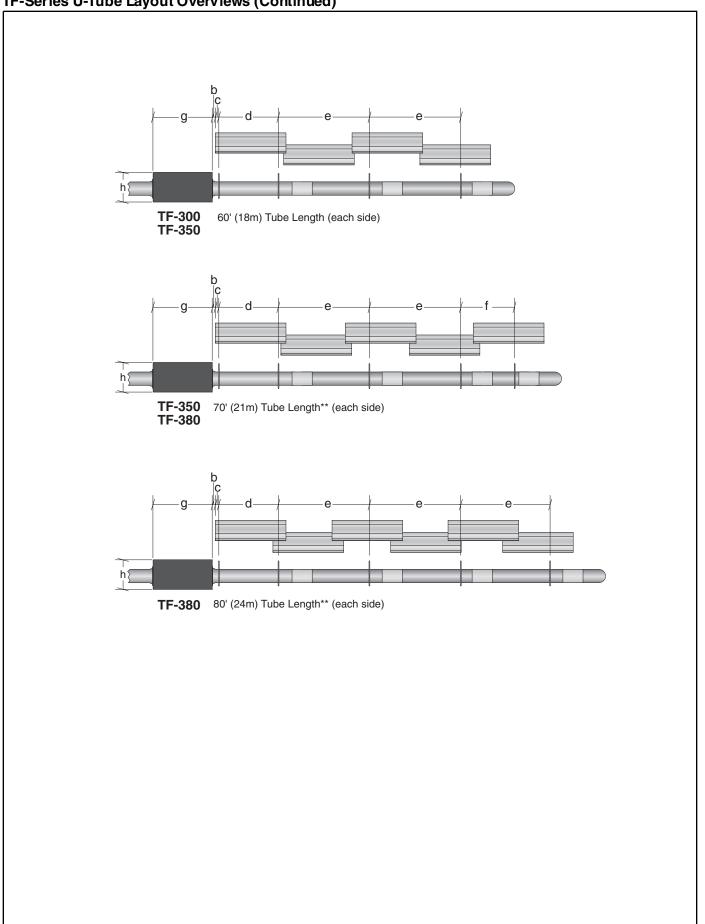


TF-Series U-Tube Layout Overviews

U-tube layouts showing one side. Use same measurements for the other side.

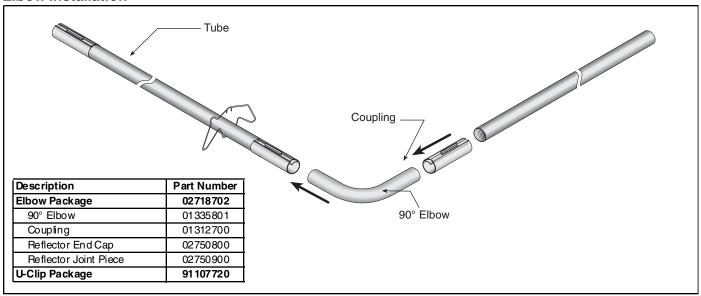


TF-Series U-Tube Layout Overviews (Continued)

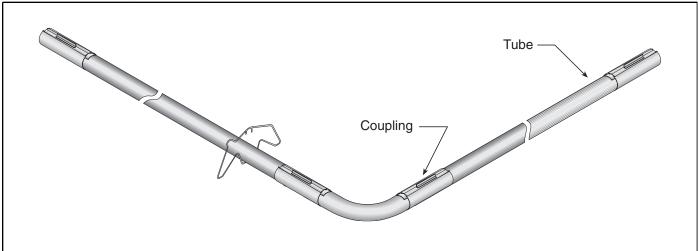


ELBOW PACKAGE CONFIGURATION

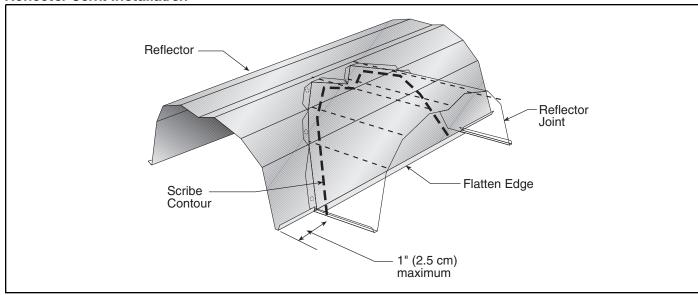
Elbow Installation



Elbow Installation (continued)

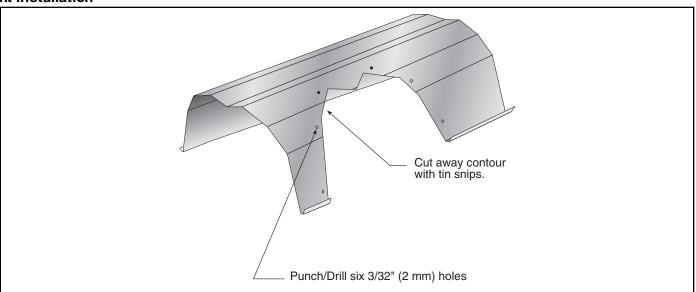


Reflector Joint Installation

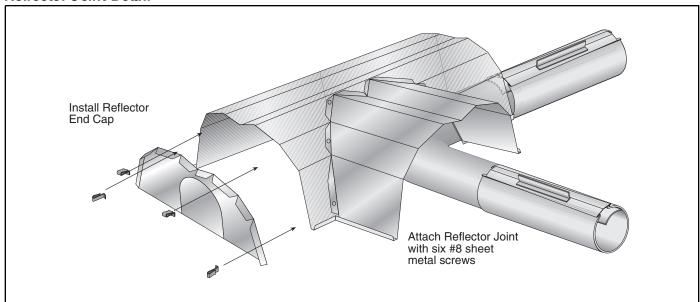


Reflector Joi 29

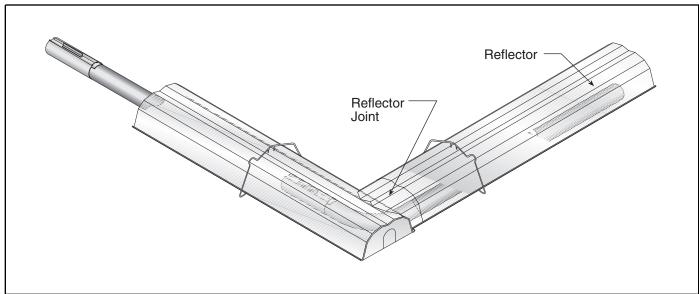
nt Installation



Reflector Joint Detail

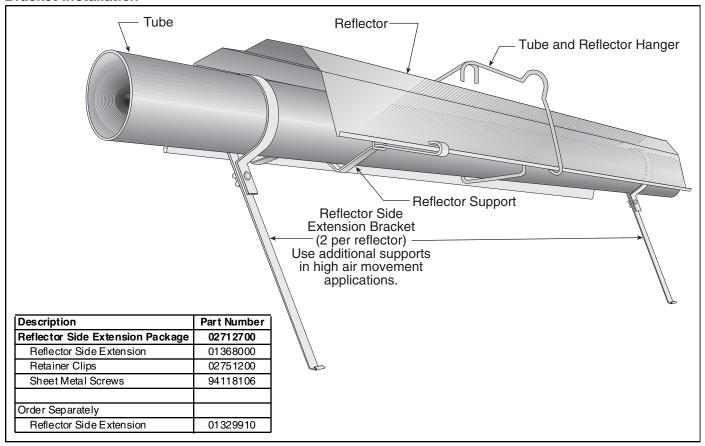


Reflector Joint Detail

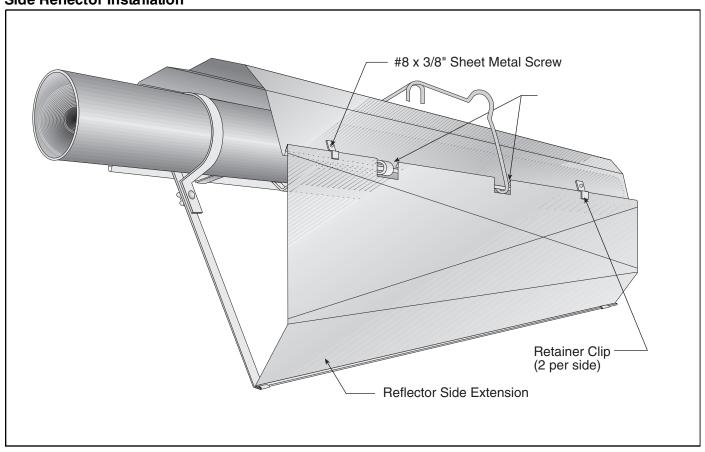


REFLECTOR SIDE EXTENSION

Bracket Installation

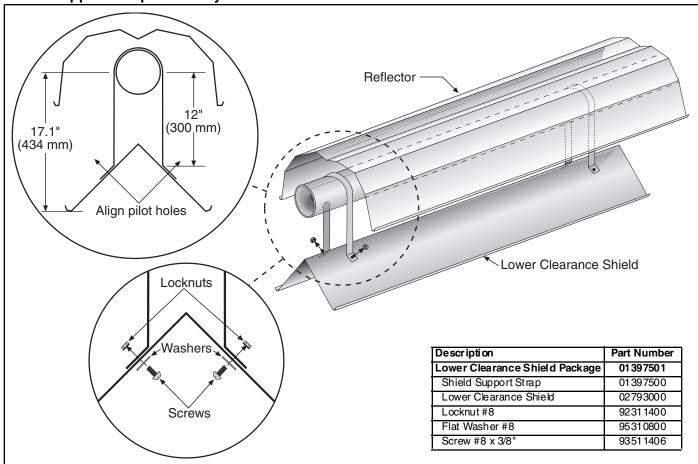


Side Reflector Installation



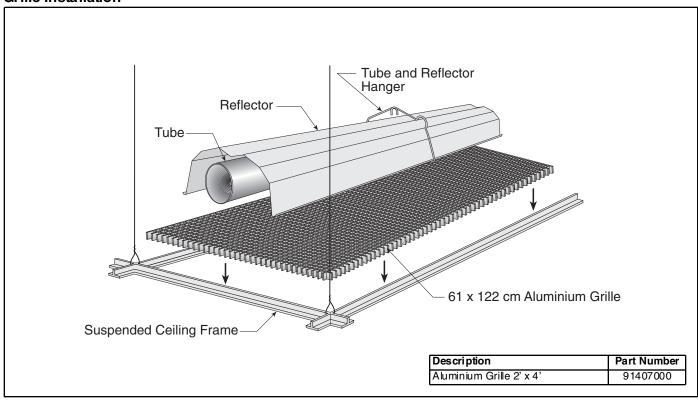
LOWER CLEARANCE SHIELD INSTALLATION

Shield Support Strap Assembly

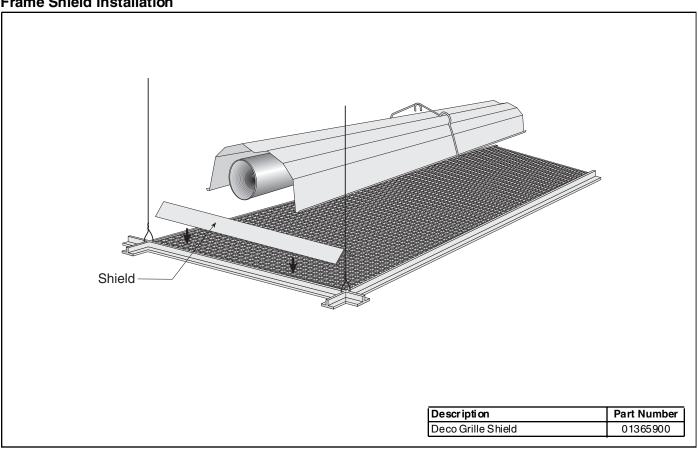


TWO-FOOT DECORATIVE GRILLE INSTALLATION

Grille Installation



Frame Shield Installation

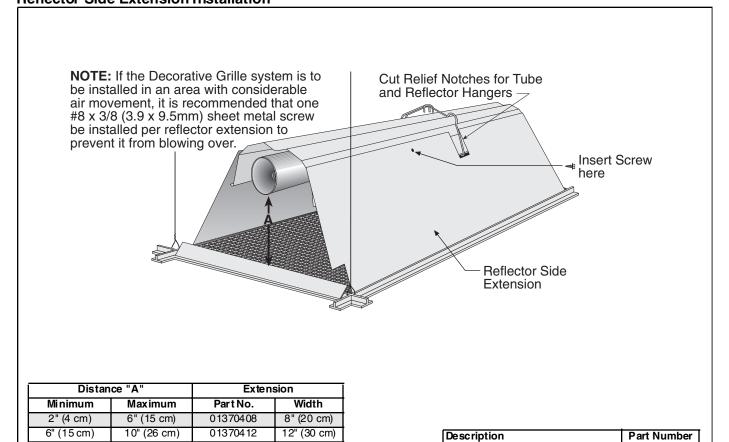


Reflector Side Extension Installation

10" (26 cm)

14" (37 cm)

01370416



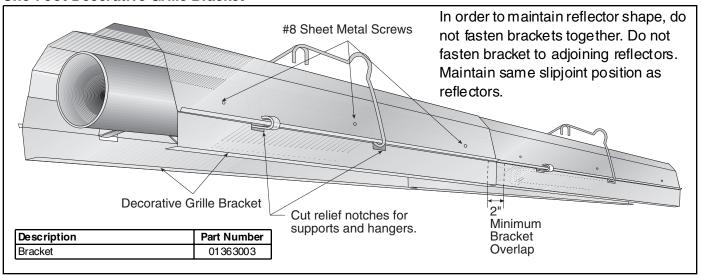
Reflector Side Extension

01370412

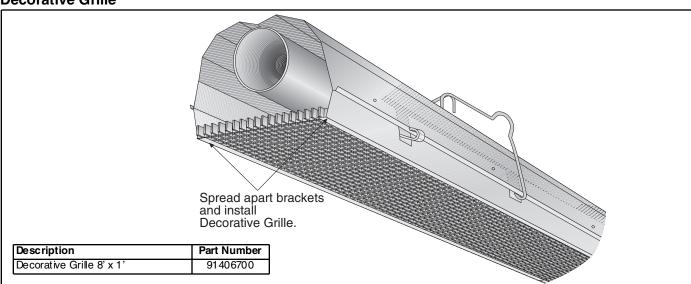
16" (40 cm)

ONE-FOOT DECORATIVE GRILLE INSTALLATION

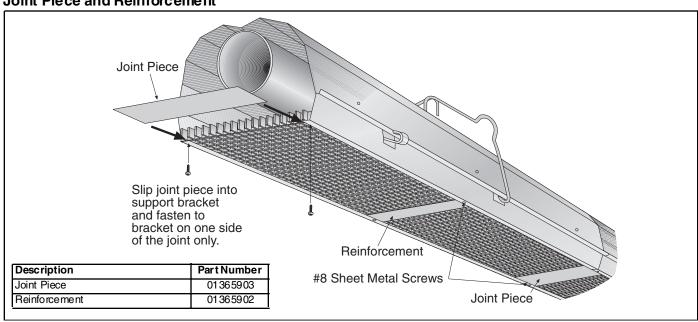
One-Foot Decorative Grille Bracket



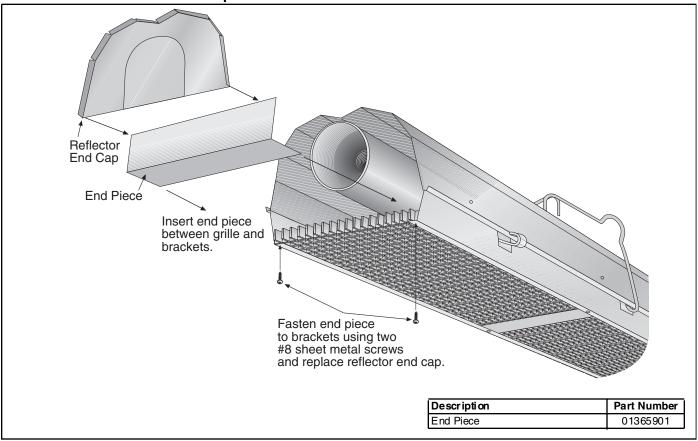
Decorative Grille



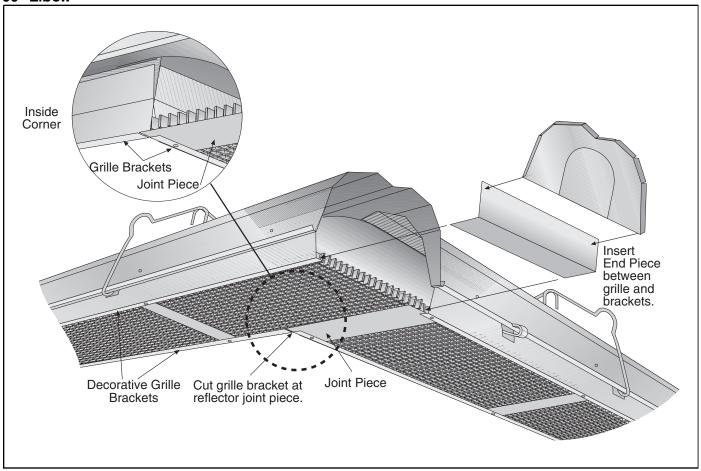
Joint Piece and Reinforcement



End Piece and Reflector End Cap

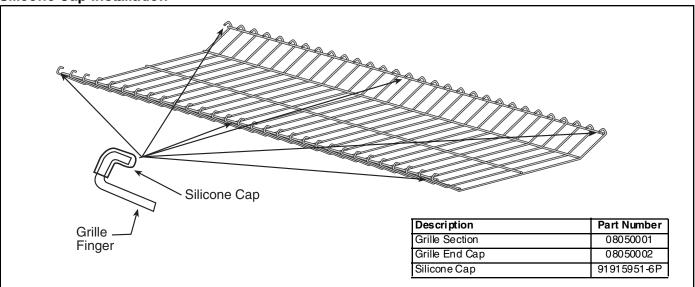


90° Elbow

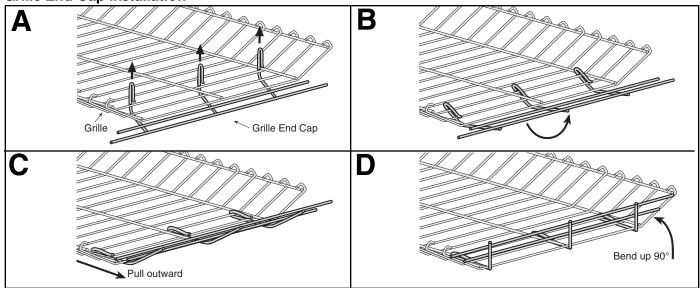


PROTECTIVE GRILLE INSTALLATION

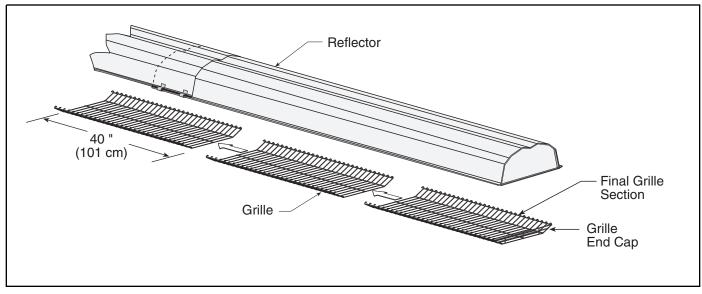
Silicone Cap Installation



Grille End Cap Installation

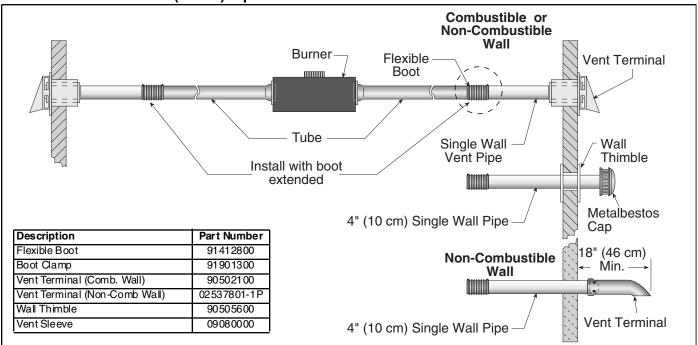


Grille Installation

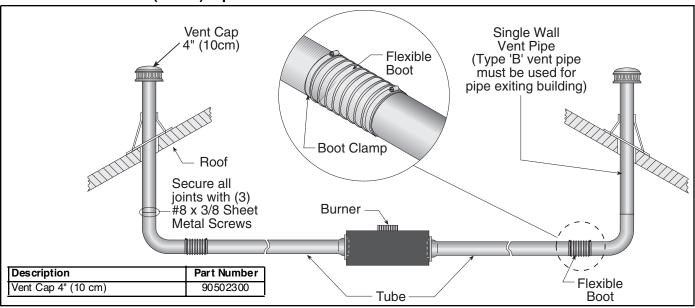


VENTING

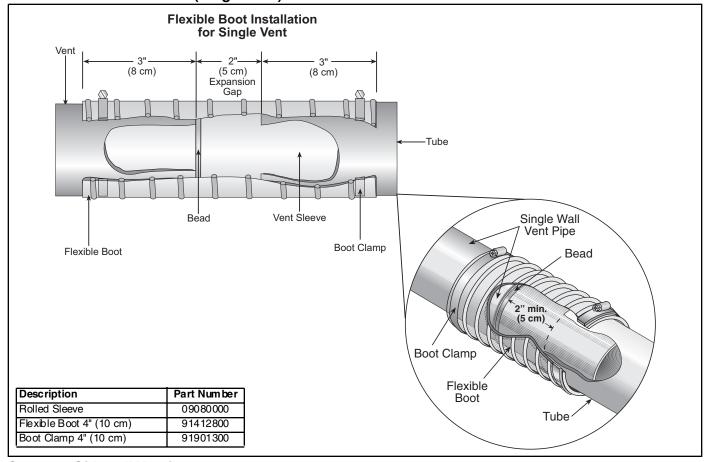
Horizontal Ventilation 4" (10 cm) Pipe



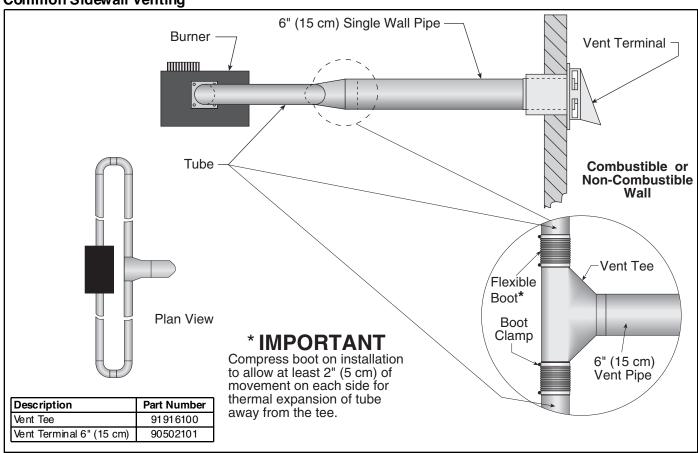
Vertical Ventilation 4" (10 cm) Pipe



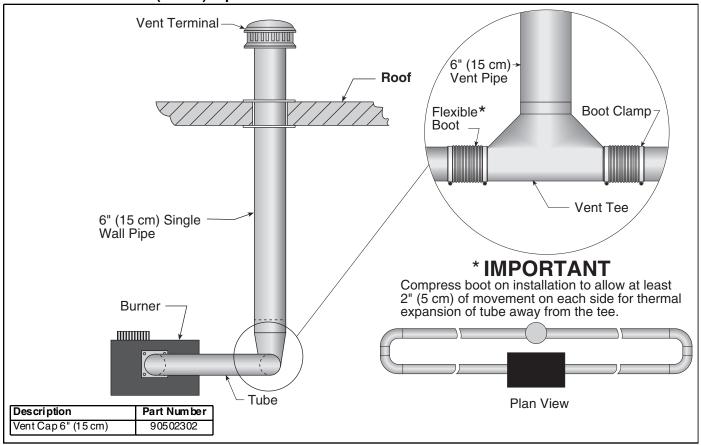
CFlexible Boot Installation (Single Vent)



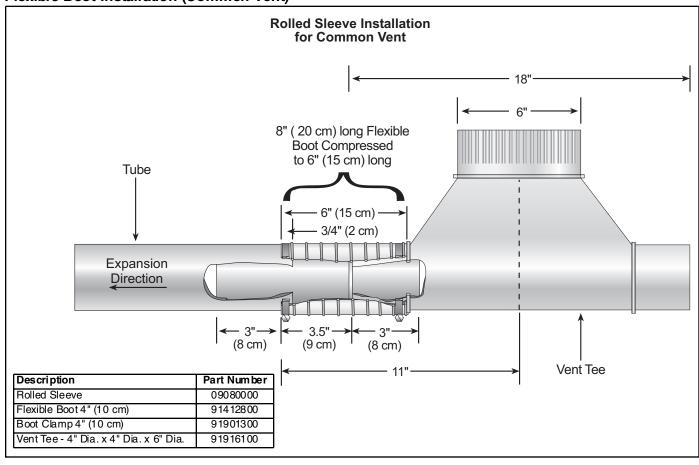
Common Sidewall Venting



Vertical Ventilation 6" (15 cm) Pipe

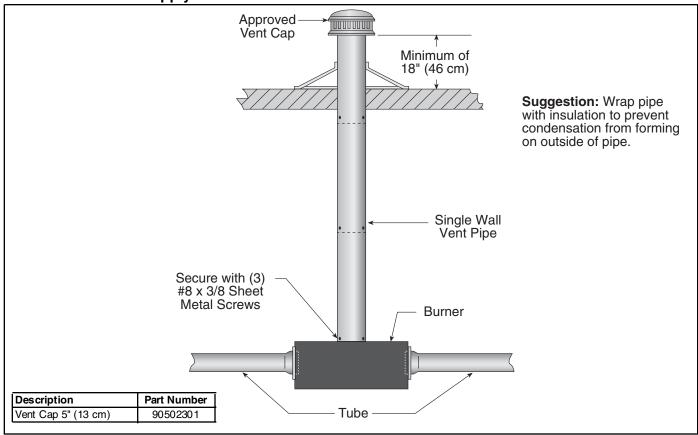


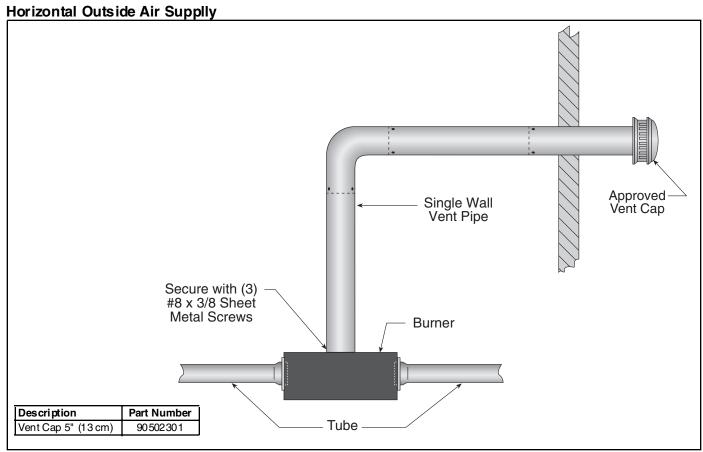
Flexible Boot Installation (Common Vent)



OUTSIDE COMBUSTION AIR SUPPLY

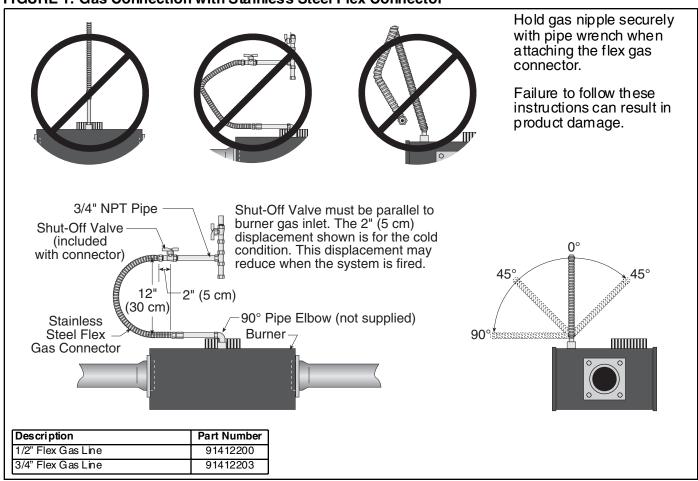
Vertical Outside Air Supply





GAS PIPING

FIGURE 1: Gas Connection with Stainless Steel Flex Connector



WIRING



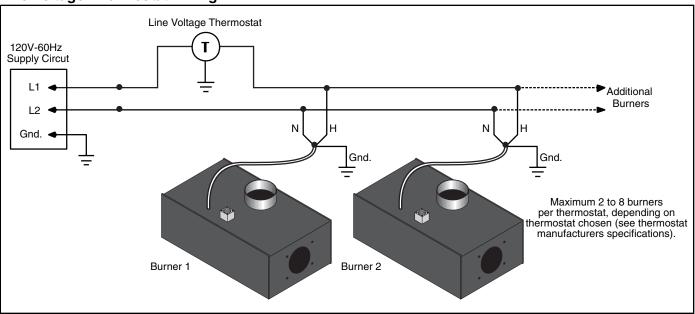
Electrical Shock Hazard

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.

Line Voltage Thermostat Wiring





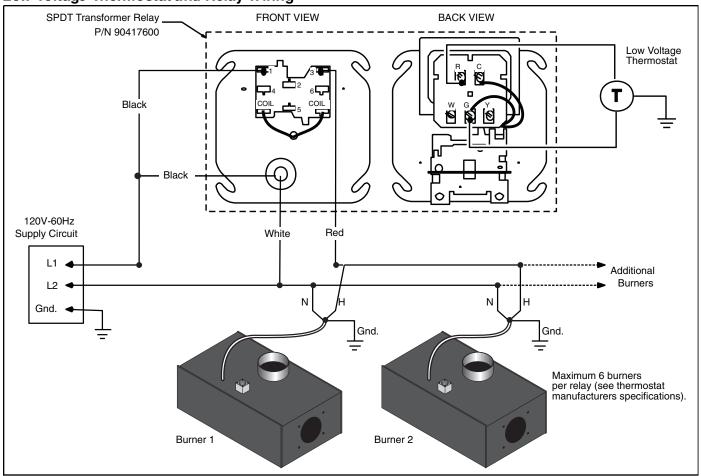
Electrical Shock Hazard

Disconnect electrical power and gas supply before servicing.

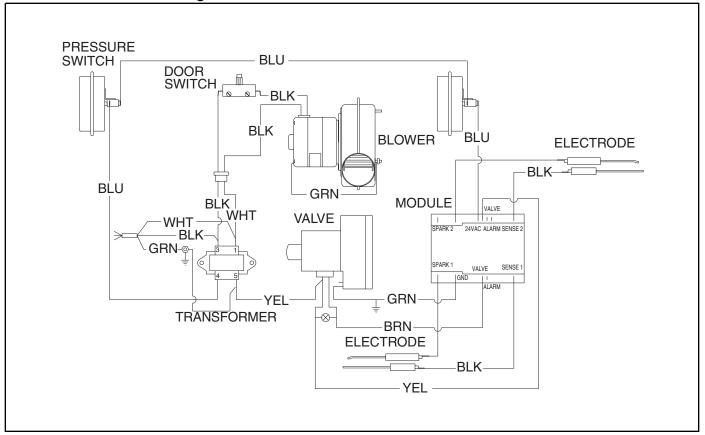
This appliance must be connected to a properly grounded electrical source.

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

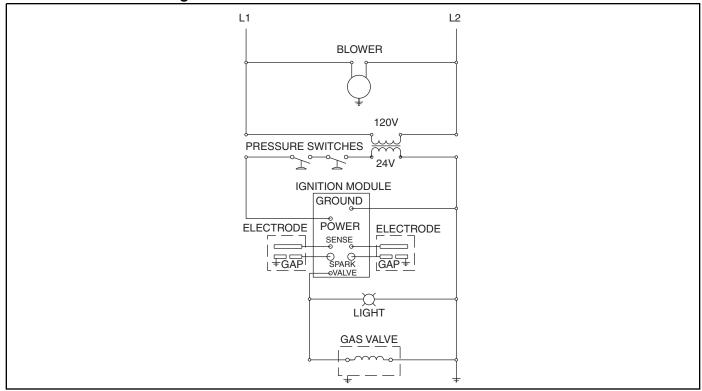
Low Voltage Thermostat and Relay Wiring



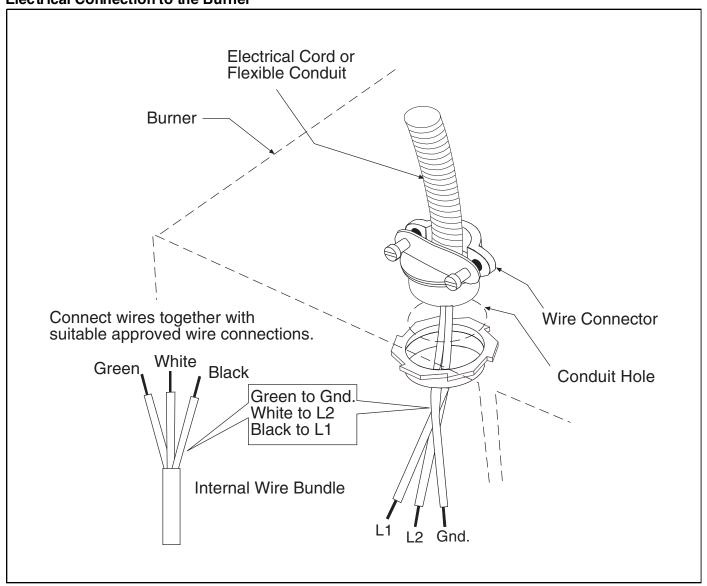
0.1 TF-Series Internal Wiring



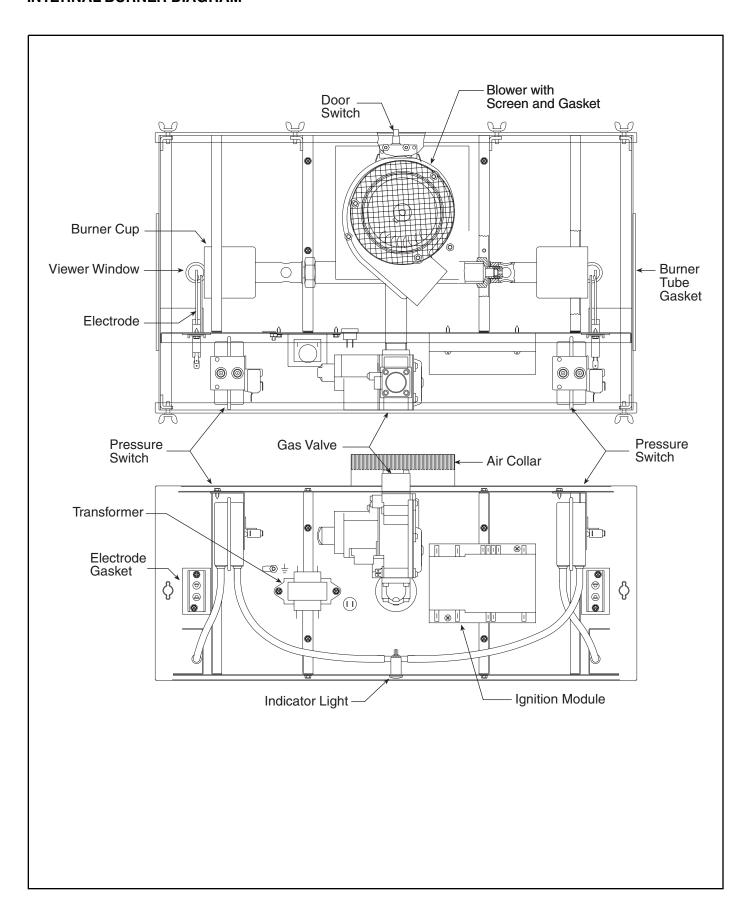
0.2 TF-Series Ladder Diagram



Electrical Connection to the Burner



INTERNAL BURNER DIAGRAM



THE ROBERTS GORDON® VANTAGE® TF 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® VANTAGE® TF 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® VANTAGE® TF in any way.
- Use of the ROBERTS GORDON® VANTAGE® TF 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 GORDON® VANTAGE® TF as directed in the Installation, Operation and Service manual.
- Relocation of the ROBERTS GORDON® VANTAGE® TF after initial installation
- The use of the ROBERTS GORDON® VANTAGE® TF in a corrosive atmosphere containing contaminants.
- The use of the ROBERTS GORDON® VANTAGE® TF in the vicinity of a combustible or explosive material.
- Any defect in the ROBERTS GORDON® VANTAGE®
 TF 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® VANTAGE® TF 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® VANTAGE® TF 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® VANTAGE® TF. 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 circumstances 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.