



Revision: VZ-VZH-VZT-RPL (09-25) REV-G
Supersedes: VZ-VZH-VZT-RPL (07-25) REV-F

**REPLACEMENT PARTS FOR GAS-FIRED LOW-INTENSITY
RADIANT TUBE HEATERS**

MODELS VZ, VZH, AND VZT

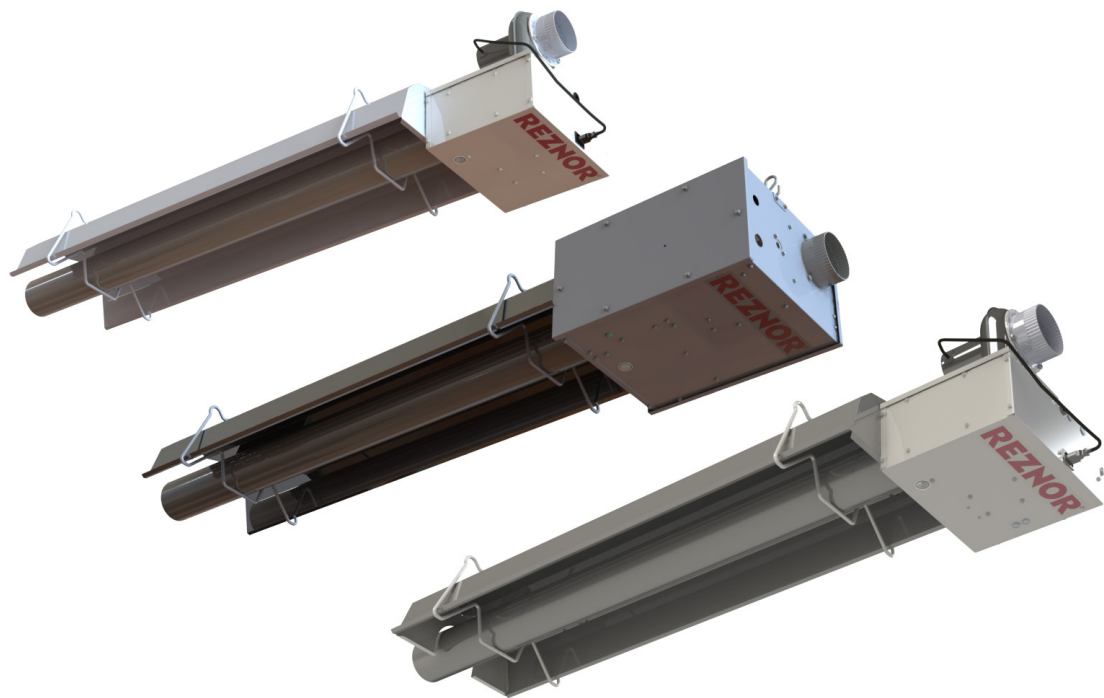


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IMPORTANT

- Always include complete model and serial number so that any specification change can be considered for parts replacement. It can save time and expense.
- In keeping with our policy of continuous product improvement, we reserve the right to alter any information shown here.
- Order by Part Number (PN) not by option designation.

WE RESERVE THE RIGHT TO SUBSTITUTE FUNCTIONAL REPLACEMENTS.

SERIAL NUMBER

NOTE: The serial number is located on the unit's rating plate.

Decode serial numbers as follows:

Serial number sample: **BOG 3062 00000**
 Elements key number: **1 | 2 | 3**

Key:

- 1 = Date code (refer to [Table 1](#))
- 2 = Plant of manufacture (3062 = Monterrey)
- 3 = Consecutive number

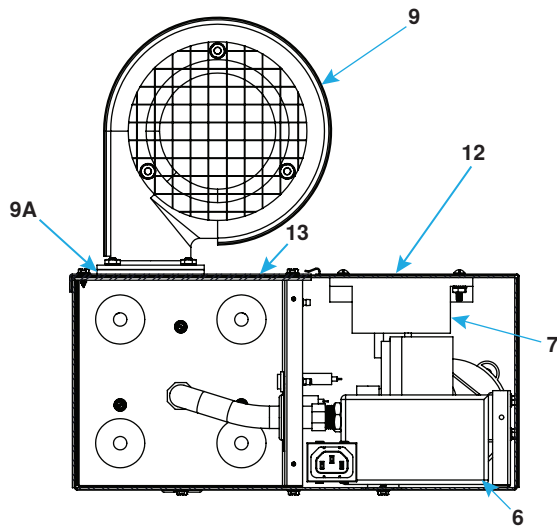
Table 1. Serial Number Date Codes (Month and Year)

Year	Month											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
2024	BXA	BXB	BXC	BXD	BXE	BXF	BXG	BXH	BXI	BXJ	BXK	BXL
2025	BYA	BYB	BYC	BYD	BYE	BYF	BYG	BYH	BYI	BYJ	BYK	BYL
2026	BZA	BZB	BZC	BZD	BZE	BZF	BZG	BZH	BZI	BZJ	BZK	BZL
2027	CAA	CAB	CAC	CAD	CAE	CAF	CAG	CAH	CAI	CAJ	CAK	CAL
2028	CBA	CBB	CBC	CBD	CBE	CBF	CBG	CBH	CBI	CBJ	CBK	CBL
2029	CCA	CCB	CCC	CCD	CCE	CCF	CCG	CCH	CCI	CCJ	CCK	CCL
2030	CDA	CDB	CDC	CDD	CDE	CDF	CDG	CDH	CDI	CDJ	CDK	CDL
2031	CEA	CEB	CEC	CED	CEE	CEF	CEG	CEH	CEI	CEJ	CEK	CEL
2032	CFA	CFB	CFC	CFD	CFE	CFF	CFG	CFH	CFI	CFJ	CFK	CFL
2033	CGA	CGB	CGC	CGD	CGE	CGF	CGG	CGH	CGI	CGJ	CGK	CGL
2034	CHA	CHB	CHC	CHD	CHE	CHF	CHG	CHH	CHI	CHJ	CHK	CHL
2035	CIA	CIB	CIC	CID	CIE	CIF	CIG	CIH	CII	CIJ	CIK	CIL

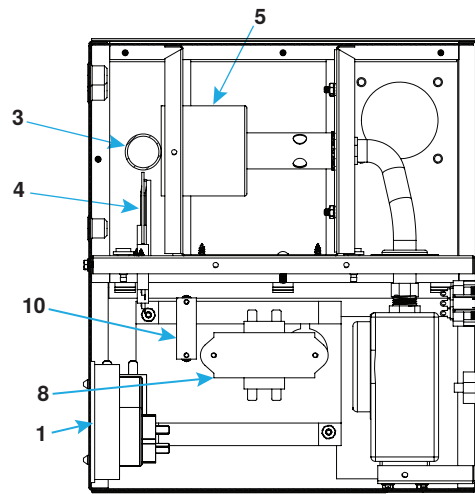
BURNER CABINET COMPONENTS

Table 2. Burner Cabinet Assemblies

Model	Gas Type	Unit Size (MBTUh)									
		40	60	80	100	115	125	140	150	175	200
		PN									
VZ	Natural gas	1047360	1047361	1047362	1047363	1047364	1047365	1047366	1047367	1047368	1047369
	Propane	1047370	1047371	1047372	1047373	1047374	1047375	1047376	1047377	1047378	—
VZH	Natural gas	1047346	1047347	1047348	1047349	—	1047350	—	1047351	1047352	—
	Propane	1047353	1047354	1047355	1047356		1047357		1047358	1047359	
VZT	Natural gas	—		1047503	1047504	1047505		1047506		1047507	1047508

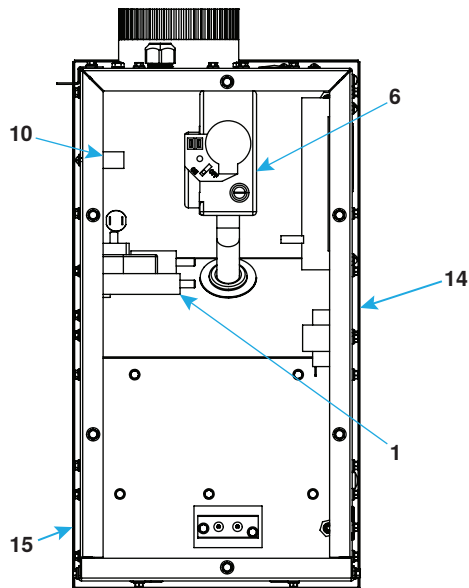


SIDE VIEW

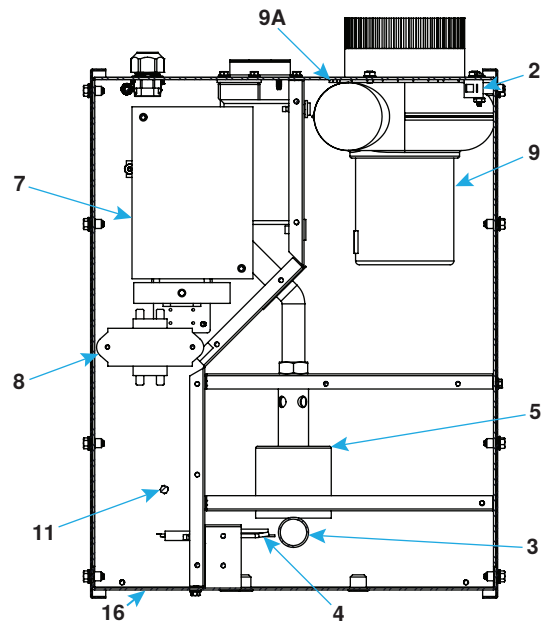


BOTTOM VIEW

Figure 1. Model VZ Burner Cabinet Components (Refer to [Table 3](#))



SIDE VIEW



BOTTOM VIEW

Figure 2. Model VZH Burner Cabinet Components (Refer to [Table 3](#))

BURNER CABINET COMPONENTS—CONTINUED

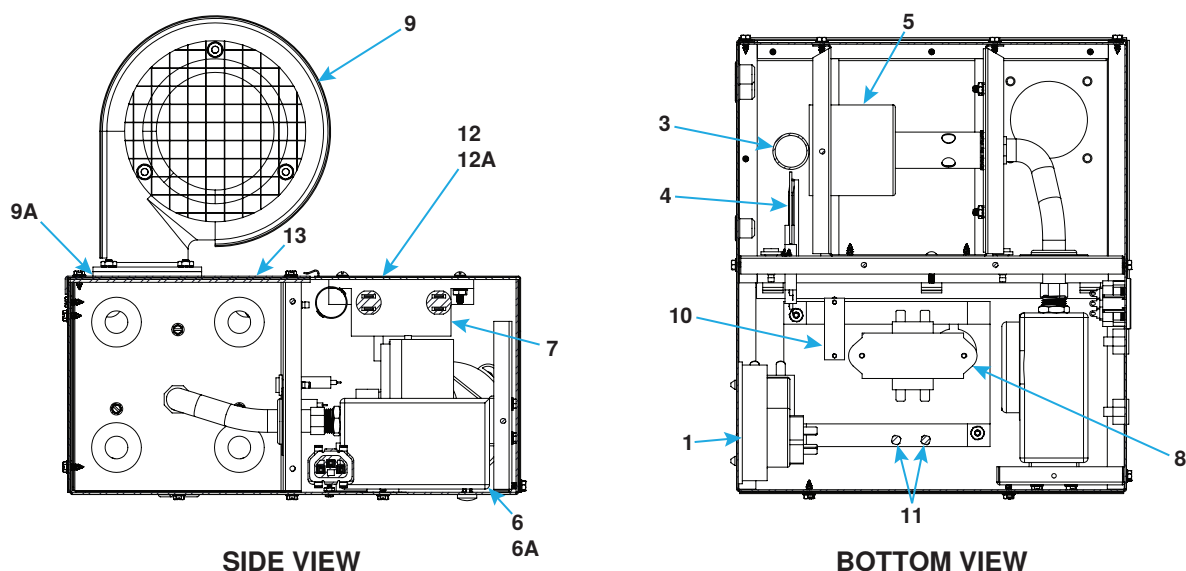


Figure 3. Model VZT Burner Cabinet Components (Refer to [Table 3](#))

Table 3. Burner Cabinet Components										
Item No.	Component	Description	Model	Unit Size (MBTUh)						
				40, 60	80, 100	115	125	140	150, 175	200
				PN						
1	Switch	Pressure	Refer to Table 4							
2		Door safe	VZH	90436800		—	90436800	—	90436800	—
3	Viewport	Mica	All	2553203						
4	Electrode			90427400						
4A	Gasket	Electrode		2558501						
5	Burner	Assembly		3020100						
6	Combination gas valve	Single-stage, natural gas	VZ	90032500						
			VZH	90032500		—	90032500	—	90032500	—
		Single-stage, propane	VZ	90032502						
			VZH	90032502		—	90032502	—	90032502	—
		Two-stage, natural gas	VZT	—	90034900	—	90034900	—	90034900	
6A	Plate	Valve support			1047496	—	1047496	—	1047496	
7	Module	Ignition control, DSI	All	90439500						
8	Transformer			90436900						
9	Blower and motor	Assembly	VZ	90709700						
			VZH	90708600		—	90708600	—	90708600	—
			VZT	—	90709700		90709700		90709700	
9A	Gasket	Blower outlet	VZ	90709801						
			VZT	—	90709801	—	90709801	—	90709801	
		Blower inlet	VZH	3050900			3050900	—	3050900	—
10	Relay	24V, SPDT	VZ	90447140						
			VZH	90447140	90447140	—	90447140	—	90447140	—
			VZT	—						90447140
11	LED, green	Burner status indicator	VZH	91316103		—	91316103	—	91316103	—
			VZT	—	91316103					91316103
12	Door	Control	VZ	1043202						
12A	Housing		VZT	—	1047495	—	1047495	—	1047495	
				1047494	1047494		1047494			

Table 3. Burner Cabinet Components—Continued

Item No.	Component	Description	Model	Unit Size (MBTUh)						
				40, 60	80, 100	115	125	140	150, 175	200
				PN						
13	Door	Chamber, assembly	VZ	1043228						
			VZT	—	1043228		1043228		1043228	
14		Component, assembly	VZH	1047400		—	1047400	—	1047400	—
15	Gas-pressurized, assembly	1047401		1047401	1047401					
16	Plate	Front, assembly	VZH	1046955			1046955		1046955	
17	Gasket (not shown)	Burner tube	All	02568200						
18	Collar (not shown)	Combustion air inlet	VZ	91911700						
			VZH	91911704		—	91911704	—	91911704	—
			VZT	—	91911704				91911704	
18A	Hex washer	#8 × 3/8, quantity three (3)	All	94118106						
18B	Locknut	#10-32, quantity four (4)		026490						
19	Air-metering plate (not shown)		Refer to Table 5							
20	Inlet hood (not shown)	Combustion air	VZH	1047430		—	1047430	—	1047430	—
21	Pipe nipple (not shown)	1/2 NPT × 4, black	VZ	003757						
			VZT	—	003757	—	003757	—	003757	—
		1/2 NPT × 4, galvanized	VZH	91221100			91221100		91221100	
21A	Grommet	Pipe nipple, liquid-tight		91309701			91309701		91309701	
22	Flexible gas connector with shutoff valve, 36 inches long (not shown)	SST, 1/2 (US installations)	VZ	91412200				—		
			VZT	—	91412200	—	91412200			
		SST, 3/4 (US installations)	VZ	—				91412203		
			VZT						—	91412203
		Vinyl-coated SST, 3/4 (US installations)	VZH	91412204		—	91412204	—	91412204	—
		Rubber, Type 1, 1/2 (Canadian installations)	All	91412206				—		
Rubber, Type 1, 3/4 (Canadian installations)	—				91412207					
23	Wire harness (not shown)	18AWG, 3-wire	All	7150003						

Table 4. Pressure Switches

Model	Unit Size (MBTUh)									
	40	60	80	100	115	125	140	150	175	200
	PN									
VZ	90439808	90439805			90439802	90439810	90439802			90439801
VZH	90439805		90439810	90439803	—	90439805	—	90439804	90439810	—
VZT	—		90439805			90439803		90439803	90439802	90439801

Table 5. Air-Metering Plates

Model	Unit Size (MBTUh)									
	40	60	80	100	115	125	140	150	175	200
	PN									
VZ	1043203	1043215	1043206	1043207	1043209	1043208	1043211	1043223	1043211	1043213
VZH	1046966	1046967	1046964	1046962	—	1046962	—	1046985	1046968	—
VZT	—		1043206	1043207		1043208		1043223	1043211	1043213

TUBE ASSEMBLY COMPONENTS

NOTE: Refer to the *VZ-VZH-VZT-TUBE-KITS* document provided with the shipped-separately tube kit for specific tube kit components.

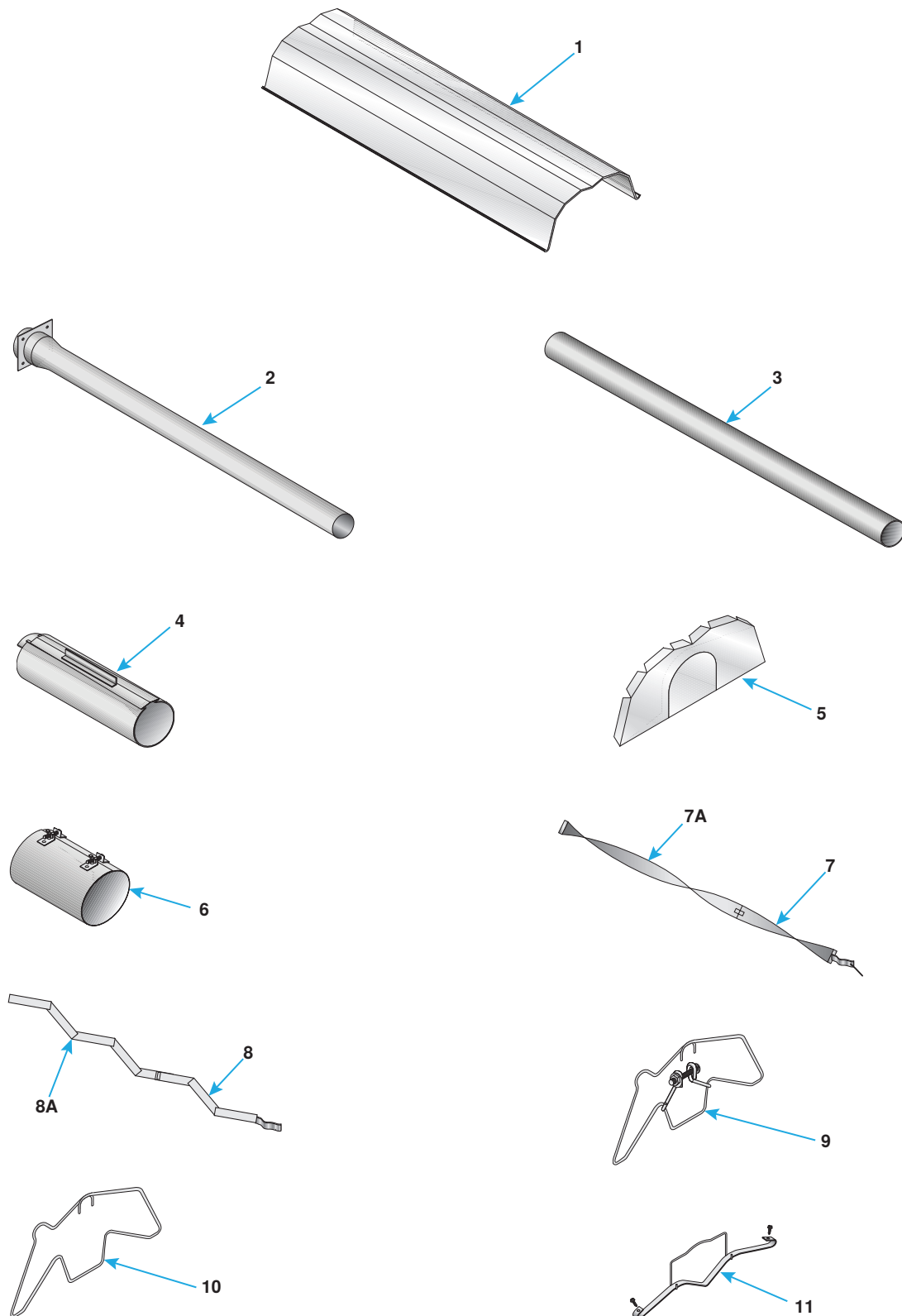


Figure 4. Tube Assembly Components (Refer to [Table 6](#))

Table 6. Tube Assembly Components

Item No.	Component	Description	PN
1	Reflector	Aluminum, 8-foot	02750303
		Stainless steel, 8-foot	027503SS
2	Burner tube	ALUMI-THERM® steel, 10-foot	03051101
		ALUMI-THERM® steel, 10-foot, with corrosion-resistant weld	03051102
		Heat-treated ALUMI-THERM® steel, 10-foot	03051601
		Heat-treated ALUMI-THERM® steel, 10-foot, with corrosion-resistant weld	03051602
3	Extension tube	Hot-rolled steel, 10-foot	91409300
		Heat-treated ALUMI-THERM® steel, 10-foot	91409408
4	Coupling	Assembly, with tube and slide bar	01312700
5	End cap	Reflector, aluminum	02750800
		Reflector, stainless steel	027508SH
6	Adapter	Vent	90502701
7	Swirler*	Tabbed section, 62-inch	03051506
7A		Connector section, 62-inch	03051507
8	Turbulator	Tabbed section, 2-inch	03051502
8A		Connector section, 2.5-inch	03051501
		Connector section, 2.5-inch, stainless steel (unit size 40 only)	03051505
9	Suspension bracket	With tube clamp and hardware	01318901
10		Without tube clamp and hardware	03090100
11	Support strap	Reflector, includes tube clamp and screws	03050010
12	Hardware (not shown)		
	Bolt	Hex head, 5/16-18, Rolok, quantity four (4)	94273914
	Lockwasher	Split, quantity four (4)	96411600
	S-hook	Burner cabinet suspension, quantity two (2)	91907302
		Tube assembly suspension	
	U-clip	Package of 20	91107720
		Package of 4	91107702

*Available in 10-foot package (PN 03051509K), 15-foot package (PN 03051510K), and 20-foot package (PN 03051511K).

Straight Tube Kits

Table 7. Straight Tube Kits

Unit Size (MBTUh)	Length (Feet (Meters))	Hot-Rolled Steel Tube(s)	Aluminized Steel Tube(s)				
			Model VZ		Model VZH		Model VZT
			Assembly PN				
40	10 (3)	—	1047138	1047146*	1047138	1047146*	—
60, 80	20 (6)	1047134	1047139	1047147*	1047139	1047147*	1047139
80, 100, 115, 125	30 (9)	1047135	1047140	1047148*	1047140	1047148*	1047140
100, 115, 125, 140, 150, 175	40 (12)	1047136	1047141	1047149*	1047141	1047149*	1047141
140, 150, 175, 200	50 (15)**	1047135 and 1047143	1047140 and 1047144	1047148* and 1047151*	1047140 and 1047144	1047148* and 1047151*	1047140 and 1047144
150, 175, 200	60 (18)**	1047135 and 1047381	1047140 and 1047380	—			
200	70 (21)**	1047136 and 1047381	1047141 and 1047380				

*With stainless steel reflectors.

**Includes a standard tube package and a 20- or 30-foot extension package.

TUBE ASSEMBLY COMPONENTS—CONTINUED

U-Tube Kits

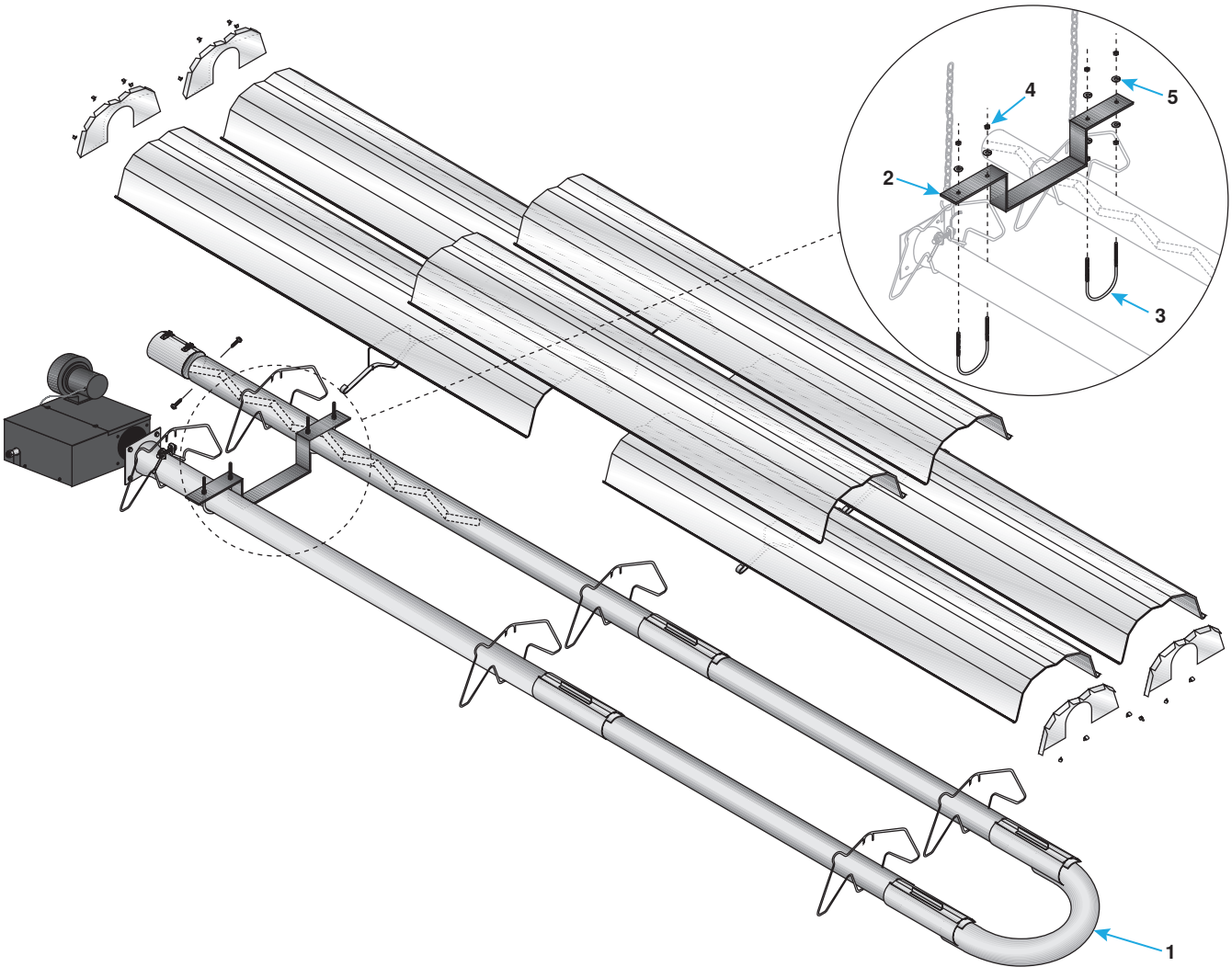


Figure 5. U-Tube Components (Refer to [Table 8](#))

Table 8. U-Tube Components		
Item No.	Component	PN (Quantity)
1	U-tube, 4-inch tube DIA	01335901 (1)
2	Support bracket, U-tube	03020501 (1)
3	U-bolt, 1/4-20 × 4	91912500 (2)
4	Hex nut, 1/4-20	007328 (8)
5	Lockwasher, 1/4	96411500 (8)

Table 9. U-Tube Kits		
Length (Feet (Meters))	Type	PN
20–60 (6–18)	Aluminized	03011000
	Stainless steel	030110SS
30–70 (9–21)	Aluminized	03011002
	Stainless steel	03011002SS

L-Tube Kits

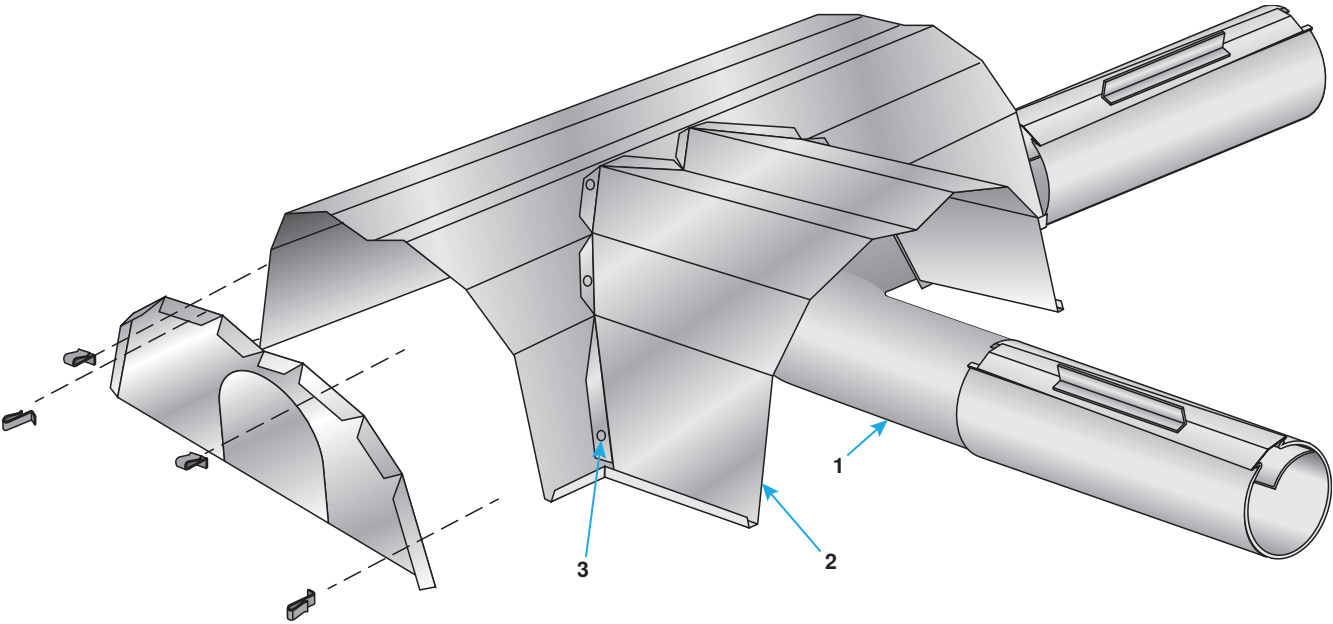


Figure 6. L-Tube Components (Refer to [Table 10](#))

Table 10. L-Tube Kit (PN 02718702) Components		
Item No.	Component	PN (Quantity)
1	L-tube, 4-inch, 90-degree, aluminized steel	01335801(1)
2	Reflector joint	02750900 (1)
3	Sheet metal screw, #8	Field-supplied (6)

ACCESSORIES/OPTIONS

Vent Caps and Terminals (Options CC1, CC17, and CC18)

Table 11. Vent Caps and Terminals		
Option	Component	PN
CC1	Vent cap, 4-inch	90502300
	Vent cap, 6-inch	90502302
CC17	Vent terminal, 4-inch, Tjernlund	90502100
CC26	Vent terminal kit, models VZ and VZH	02537800
	Vent terminal kit, model VZT	02537801

Reflector Side Extension Kit (Option CD28)

NOTE: Refer to the installation manual provided with the reflector side extension kit (PN 02712700) for components and installation instructions.

Suspension Kits (Options CK53, CK54, CK55, and CK56)

NOTE: Refer to the installation manual provided with the suspension kit for components and installation instructions.

Table 12. Suspension Kits		
Option	Description	PN
CK53	Steel hanger kit	270725
CK54	Stainless steel hanger kit	270717
CK55	Steel turnbuckle kit	1047421
CK56	Stainless steel turnbuckle kit	1047422

Thermostats (Options CL1, CL5C, CL65, and CM1)

Table 13. Thermostats		
Option	Component	PN
CL1	Thermostat, 24V, single-stage, 50–90°F, models VZ and VZH	255350
CL22	Thermostat, two-stage, digital, model VZT	220630
CL5C	Thermostat, single-stage, line voltage, 120V/240V, models VZ and VZH	270715
CL65	Thermostat, analog, 120V, NEMA 4X moisture-resistant, models VZ and VZH	90437200
CL83	Thermostat, programmable, WIFI-enabled, 2H/2C, model VZT	1043196
CM1	Thermostat guard with locking cover	257464

Outside Combustion Air Kits (Options DE1 and DE2)

NOTE: Refer to the installation manual provided with the outside combustion air kit for components and installation instructions.

Table 14. Outside Combustion Air Kits	
Option	PN
DE1	270613
DE2*	270614

*With stainless steel hardware.

High-Elevation Conversion Kit (Option DJ20)

NOTE: Refer to the installation manual provided with the high-elevation conversion kit for components and installation instructions.

Table 15. High-Elevation Conversion Kits										
Model	Unit Size (MBTUh)									
	40	60	80	100	115	125	140	150	175	200
	PN									
VZ	1047456	1047457	1047458	1047459	1047460	1047461	1047462	1047463	1047464	1047465
VZH	1047466	1047467	1047468	1047469	—	1047470	—	1047471	1047472	—
VZT	—		1047458	1047459		1047461		1047463	1047464	1047465

Propane Conversion Kit (Option DL2)

NOTE: Refer to the installation manual provided with the propane conversion kit for components and installation instructions.

Table 16. Propane Conversion Kits									
Model	Unit Size (MBTUh)								
	40	60	80	100	115	125	140	150	175
	PN								
VZ	BH040NP-WR	BH060NP-WR	BH080NP-WR	BH100NP-WR	BH115NP-WR	BH125NP-WR	BH140NP-WR	BH150NP-WR	BH175NP-WR
VZH	V040NP	V060NP	V080NP	V100NP	—	V125NP	—	V150NP	V175NP

Protective Grille Kit (Option DN7)

NOTE: The protective grille is NOT APPROVED for use with angled reflectors. Refer to the installation manual provided with the protective grille kit (PN 1047443) for components and installation instructions.

Protective Shield Kit (Option DO3)

NOTE: Refer to the installation manual provided with the protective (lower clearance) shield kit (PN 01397501) for components and installation instructions.

ACCESSORIES/OPTIONS—CONTINUED

Transformer Relay for Multiple Unit Control (Option IRT1)

NOTE: Refer to the manufacturer's installation instructions provided with the transformer relay (PN 90436300).

Wire multiple burner cabinets for control by one thermostat in accordance with the following diagrams.

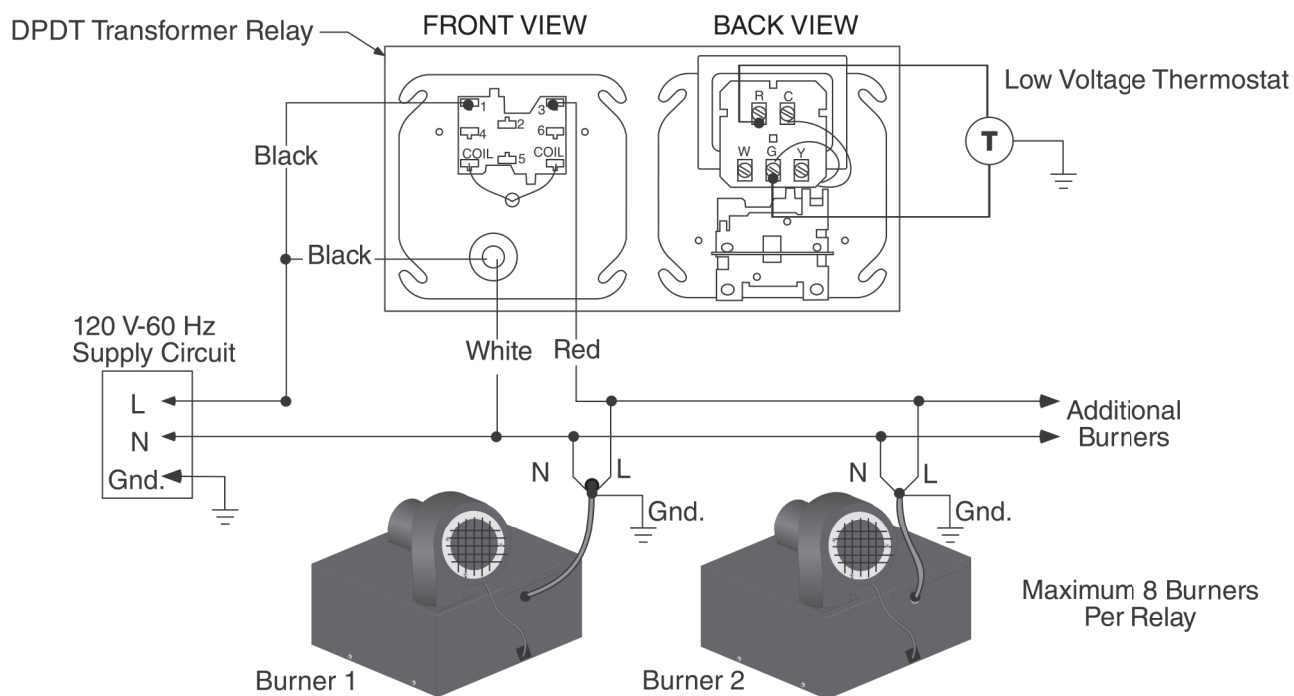


Figure 7. Model VZ Transformer Relay Wiring Diagram

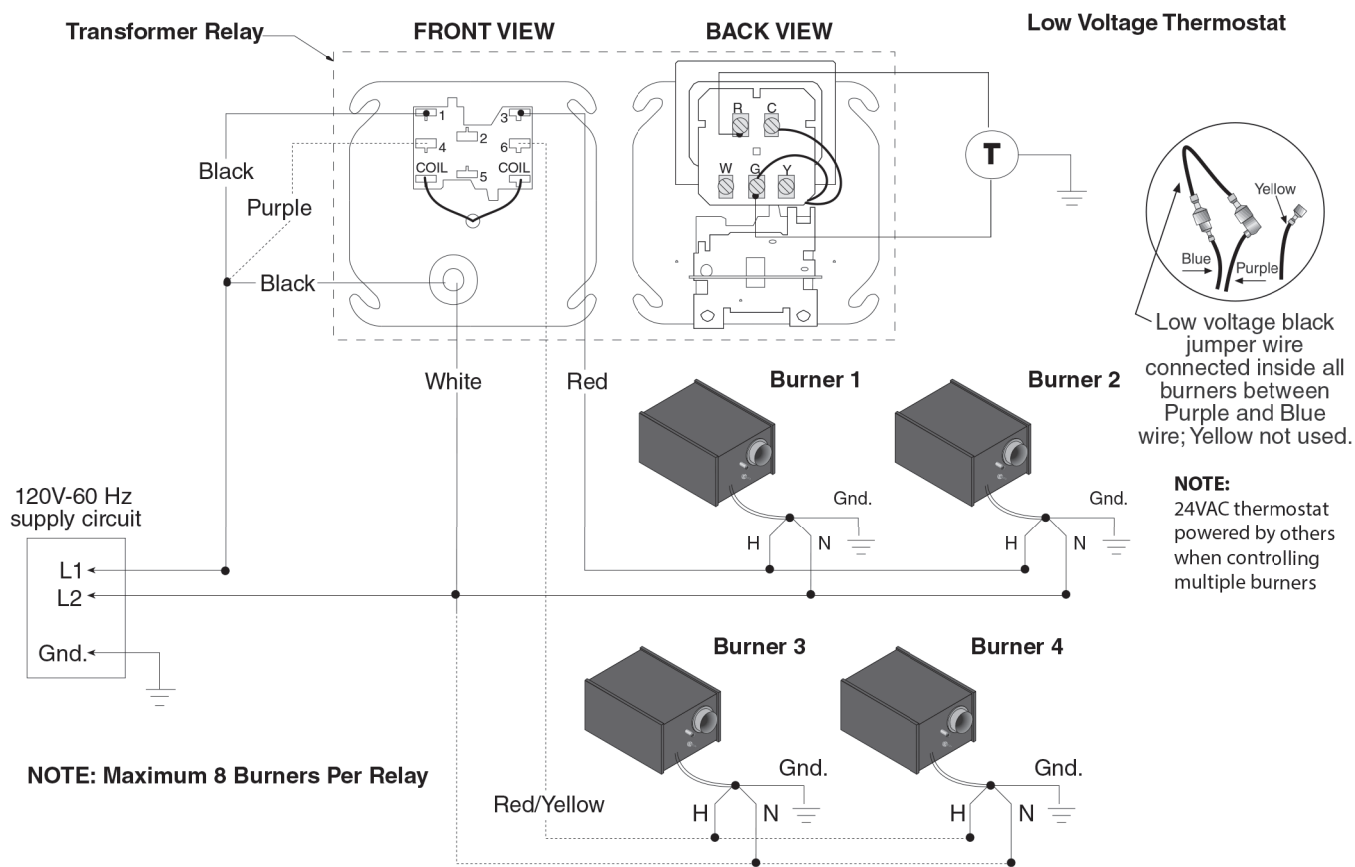
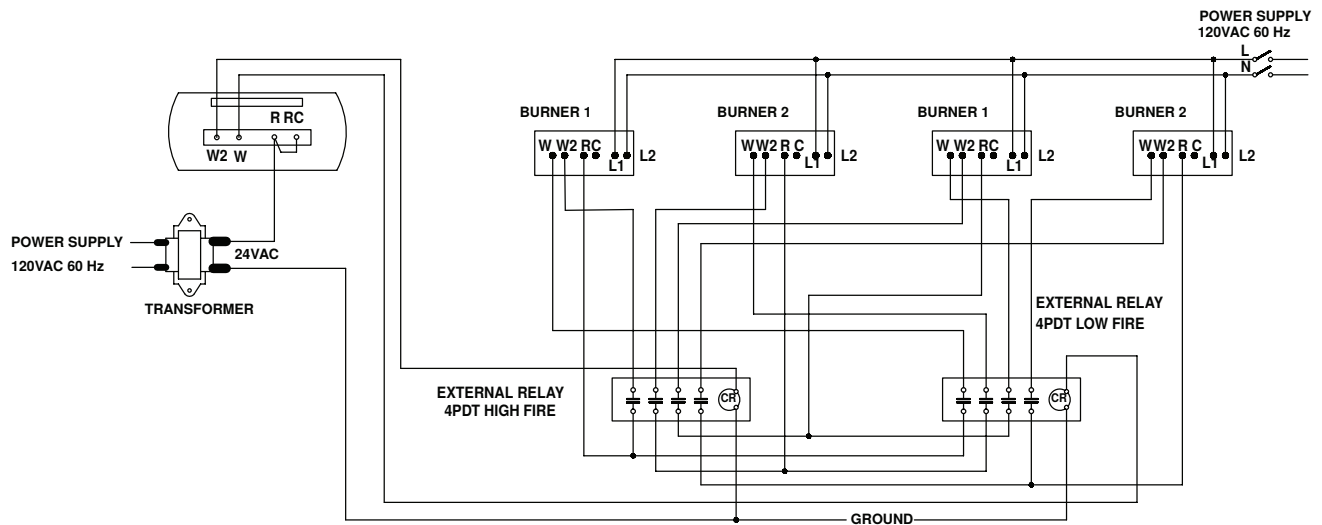


Figure 8. Model VZH Transformer Relay Wiring Diagram

ACCESSORIES/OPTIONS—CONTINUED

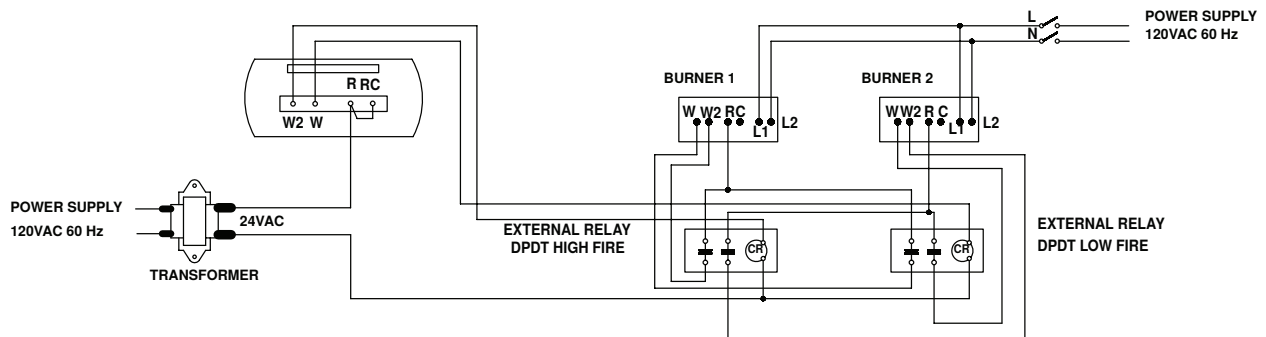
Transformer Relay for Multiple Unit Control (Option IRT1)—Continued

FOUR BURNERS FOR CONNECTION TO ONE THERMOSTAT



NOTE: TWO FIELD-SUPPLIED 4PDT RELAYS ARE REQUIRED FOR THREE OR FOUR BURNERS AND ONE THERMOSTAT (MAXIMUM OF FOUR BURNERS PER THERMOSTAT). A 24VAC TRANSFORMER (PROVIDED BY OTHERS) IS REQUIRED FOR MULTIPLE BURNERS WITH A SINGLE THERMOSTAT. ALL BURNERS MUST BE CONNECTED TO GROUND (NOT SHOWN).

TWO BURNERS FOR CONNECTION TO ONE THERMOSTAT



NOTE: TWO FIELD-SUPPLIED DPDT RELAYS ARE REQUIRED FOR TWO BURNERS AND ONE THERMOSTAT. A 24VAC TRANSFORMER (PROVIDED BY OTHERS) IS REQUIRED FOR MULTIPLE BURNERS WITH A SINGLE THERMOSTAT. ALL BURNERS MUST BE CONNECTED TO GROUND (NOT SHOWN).

Figure 9. Model VZT Transformer Relay Wiring Diagram

