

**REPLACEMENT PARTS FOR FOR GAS-FIRED LOW-INTENSITY
TUBULAR INFRARED HEATERS**

MODEL VR

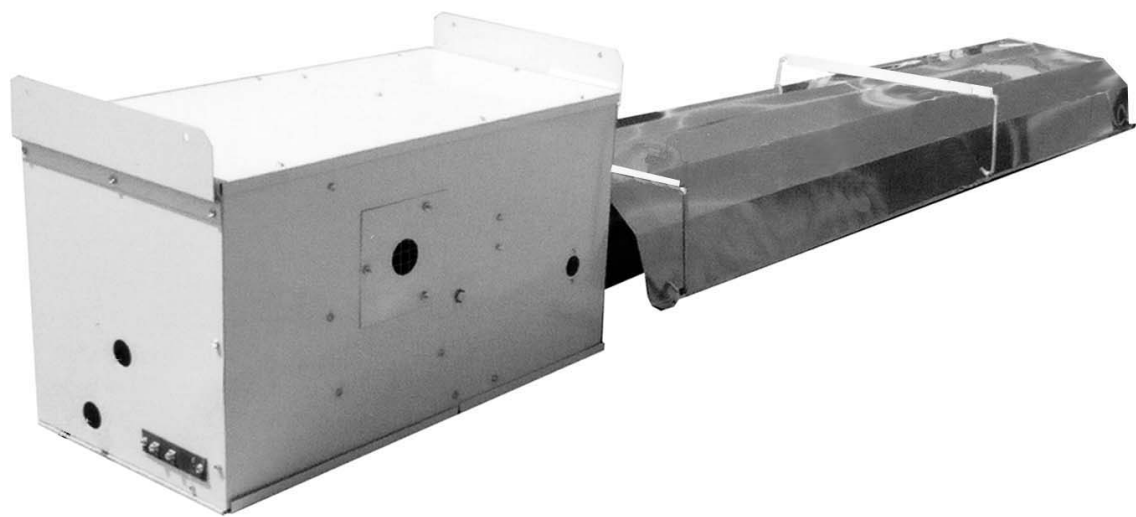


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IMPORTANT

- 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.

Rating Plate and Serial No.

Rating Plate Key:

- A** = Model
B = ANSI Certification
C = CSA Certification
D = Mfg Date (month & year)
E = Supply Voltage
F = Type of Fuel (natural gas or propane)
G = Burner Orifice Drill Size
H = Input (BTUH)
I = Manifold Pressure (" w.c.)
J = Minimum Gas Supply (inches w.c.)
K = Clearances to Combustibles—Burner End
L = Clearance to Combustibles—Heat Exchanger Bend
M = Clearance to Combustibles—Below
N = Clearance to Combustibles—Front/Rear, 0–30° Reflector
O = Clearance to Combustibles—Front/Rear, 31–45° Reflector
P = Clearance to Combustibles—Front/Rear, 0–30° Reflector with Side Shield

MERCER, PA. USA 16137

MADE IN MEXICO
INFRARED RADIANT TUBE HEATER
FOR INDUSTRIAL/COMMERCIAL USE ONLY
FOR INDOOR INSTALLATION ONLY. NOT FOR USE IN RESIDENTIAL DWELLINGS CERTIFIED UNDER ANSI Z83.20b - [B] CSA 2.34b - [C]
LOW INTENSITY INFRARED HEATER
MODEL [A]
SERIAL # [C]
[E] VOLTS [E] PH [E] HZ MAXIMUM TOTAL INPUT [E] AMPS
TYPE OF GAS [F]
FOR USE AT 0-2000 FEET, 0-610 METERS OF ALTITUDE
ORIFICE SIZE [G] DRILL
NORMAL INPUT [H] BTU/HR
NORMAL MANIFOLD PRESSURE [I] IN. W.C.
MIN PERMISSIBLE AS SUPPLY PRESSURE FOR PURPOSE OF INPUT ADJUSTMENT [J] IN. W.C.
CLEARANCE TO COMBUSTIBLE CONSTRUCTION: TOP - 12"; FLUE CONNECTION - 6"; BURNER END [K]; EXHAUST END - 24"; HEAT EXCHANGER BEND (U OR L) [L]
*18" IF UNVENTED

REFLECTOR	MAX MOUNTING ANGLE	BELOW	(FRONT/ REAR)
STANDARD REFLECTOR	0 TO 30 DEG	[M]	[N]
STANDARD REFLECTOR	31 TO 45 DEG	[M]	[O]
STANDARD REFLECTOR W/SIDE SHIELDS (ONE SIDE ONLY)	0 TO 30 DEG	[M]	[P]

THIS UNIT CAN BE INSTALLED IN VARIABLE CONFIGURATIONS AS SPECIFIED IN THE MANUFACTURER'S FORM T-VR-CNFG.
FOR STRUCTURES LISTED BELOW, USE APPLICABLE STANDARDS.
INSTALLATION OF THIS UNIT IN AIRCRAFT HANGARS IN CANADA MUST BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE ENFORCING AUTHORITIES.
IN PUBLIC GARAGES, IN ACCORDANCE WITH THE CAN/CGA-B149 (.1 OR .2) CODES IN CANADA.
AIRCRAFT HANGARS USE STANDARD ANSI/NFPA 409 IN THE USA
PARKING STRUCTURES USE STANDARD ANSI/NFPA 88A IN THE USA
REPAIR GARAGES USE STANDARD ANSI/NFPA 88B IN THE USA
FOR USE WITH TYPE L VENT
FOR INDOOR INSTALLATION ONLY
THIS UNIT IS FOR USE WITH NATURAL GAS AND PROPANE
A CONVERSION KIT AS SUPPLIED BY THE MANUFACTURER SHALL BE USED TO CONVERT THE HEATER TO THE ALTERNATE FUEL.

MERCER, PA. USA 16137

FABRIQUÉ AU MEXIQUE
INFRARED RADIANT TUBE HEATER
POUR USAGE INDUSTRIEL/COMMERCIAL SEUL
INSTALLATION À L'INTÉRIEUR SEULEMENT. NE PAS INSTALLER DANS UN LOGEMENT. CERTIFIED UNDER ANSI Z83.20b - [B] CSA 2.34b - [C]
LOW INTENSITY INFRARED HEATER
MODELE [A]
#DE SÉRIE [C]
[E] VOLTS [E] PH [E] HZ CONSUMMATION TOTALE MAX. DE [E] AMPS
TYPE DE GAZ [F]
PRÉVU POUR 0-2000 PIEDS, 0-610 MÈTRES D'ALTITUDE
DIMENSION DE L'ORIFICE [G] FORET
ENTRÉE NORMALE [H] BTU/HEURE
PRESSION NORMALE DE [I] PO/COL D'EAU LA TUB
PRES. D'ALIM. MI. ACCEPTABLE DE GAZ POUR [J] PO/COL DES FIN DE RÉGLAGE DE L'ENTRÉE D'EAU
DÉGAGEMENT ENTRÉE LES CONSTRUCTIONS COMBUSTIBLES: EN HAUT - *12 PO, RACCORD DE TUYAUX - 6 PO, CÔTÉ BRULEUR - [K]; CÔTÉ EVACUATION - 24 PO, COUDE D'ÉCHANGEUR (U OR L) [L]
*18 PO SI NON VENTILÉ

REFLECTEUR	ANGLE DE MONTAGE MAX.	DESSOUS	(AVANT/ ARRIERE)
RÉFLECTEUR STANDARD	0 À 30 DEG	[M]	[N]
RÉFLECTEUR STANDARD	31 À 45 DEG	[M]	[O]
RÉFLECTEUR STANDARD AVEC CÔTÉ ÉCRANS (UN CÔTÉ SEULEMENT)	0 À 30 DEG	[M]	[P]

CET APPAREIL PEUT ÊTRE INSTALLÉ SELON DES CONFIGURATION VARIABLES COMME IL EST STIPULÉ DANS LE FORMULAIRE T-VR-CNFG DU FABRICANT
L'INSTALLATION DE UNITÉ DANS CES GARAGES D'AVIONS DOIT SE CONFORMER AUX CONDITIONS DES AUTORITÉS CHARGÉES DE FAIRE.
APPLIQUER LA LOI. L'INSTALLATION DANS DES GARAGES PUBLICS DOIT SE CONFORMER AU CODE CAN/CGA-B149 (.1 OU .2).
S'UTILISE AVEC UN ÉVÉNEMENT DE TYPE L.
FOR INDOOR INSTALLATION ONLY
CET APPAREIL POUR UTILISATION AVEC LE GAZ NATURAL ET LE PROPANE.
UNE TROUSSE DE CONVERSION FOURNIE PAR LE FABRICANT UNE TROUSSE DE CONVERSION FOURNIE PAR LE FABRICANT

Serial No. Decoding

Example:

BJK	80	6A	N	12345
1	2	3	4	5

- CODES:** 1 = Date of manufacture (see chart below)
2 = Type of ignition
3 = Type of valve
4 = Type of gas (N= Natural; L= Propane)
5 = Consecutive number (for identification purposes only)

First Element of the Serial Number—Date of Manufacture

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
2002	BBA	BBB	BBC	BBD	BBE	BBF	BBG	BBH	BBI	BBJ	BBK	BBL
2003	BCA	BCB	BCC	BCD	BCE	BCF	BCG	BCH	BCI	BCJ	BCK	BCL
2004	BDA	BDB	BDC	BDD	BDE	BDF	BDG	BDH	BDI	BDJ	BDK	BDL
2005	BEA	BEB	BEC	BED	BEE	BEF	BEG	BEH	BEI	BEJ	BEK	BEL
2006	BFA	BFB	BFC	BFD	BFE	BFF	BFG	BFH	BFI	BFJ	BFK	BFL
2007	BGA	BGB	BGC	BGD	BGE	BGF	BGG	BGH	BGI	BGJ	BGK	BGL
2008	BHA	BHB	BHC	BHD	BHE	BHF	BHG	BHH	BHI	BHJ	BHK	BHL
2009	BIA	BIB	BIC	BID	BIE	BIF	BIG	BIH	BII	BIJ	BIK	BIL
2010	BJA	BJB	BJC	BJD	BJE	BJF	BJG	BJH	BJI	BJJ	BJK	BJL
2011	BKA	BKB	BKC	BKD	BKE	BKF	BKG	BKH	BKI	BKJ	BKK	BKL
2012	BLA	BLB	BLC	BLD	BLE	BLF	BLG	BLH	BLI	BLJ	BLK	BLL
2013	BMA	BMB	BMC	BMD	BME	BMF	BMG	BMH	BMI	BMJ	BMK	BML
2014	BNA	BNB	BNC	BND	BNE	BNF	BNG	BNH	BNI	BNJ	BNK	BNL
2015	BOA	BOB	BOC	BOD	BOE	BOF	BOG	BOH	BOI	BOJ	BOK	BOL

Size Conversion Label—When servicing a heater with a rating plate reading Model VR75, VR125, or VR175, **always** look for a Size Conversion label.

- Rating Plate reads Model VR75 AND Size Conversion Label reads VR100 - Service heater as a Model VR100.
- Rating Plate reads Model VR125 AND Size Conversion Label reads VR150 - Service heater as a Model VR150.
- Rating Plate reads Model VR175 AND Size Conversion Label reads VR200 - Service heater as a Model VR200.

Example of a Size Conversion Label

* Minimum supply pressure is 5" w.c. for natural gas for Sizes 50–150; 6" w.c. for natural gas for Sizes 175–200; or 10" w.c. for propane gas for all sizes.

IMPORTANT

This appliance has been converted at the time of installation to a model

Cet appareil a été converti au moment de l'installation en un modèle (100, 150, or 200) _____
by _____ with kit no. _____

per (name of service person or agency) _____ avec la kit n° (Kit PN) _____

which accepts the responsibility that this conversion has been properly made.

ce qui accepte la responsabilité que cette conversion a été correctement faite.

Orifice Size Dimension de l'orifice (New Orifice Size) Drill Foret

Normal input Entrée Normale (100,000; 150,000; or 200,000) BTU/HR

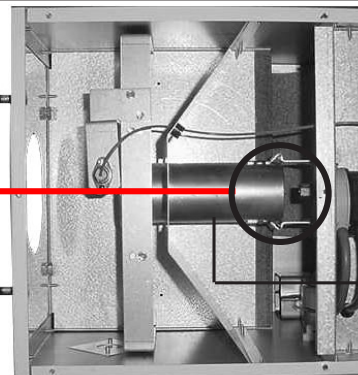
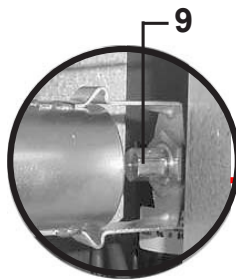
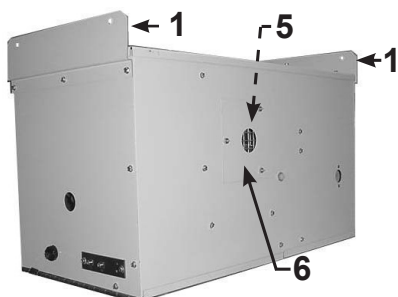
Minimum permissible gas supply pressure for purpose of input adjustment (*) in. w.c.

Pres. D'alim. Min. acceptable de gaz pour des fin de réglage de l'entrée (*) PO/COL D'eau

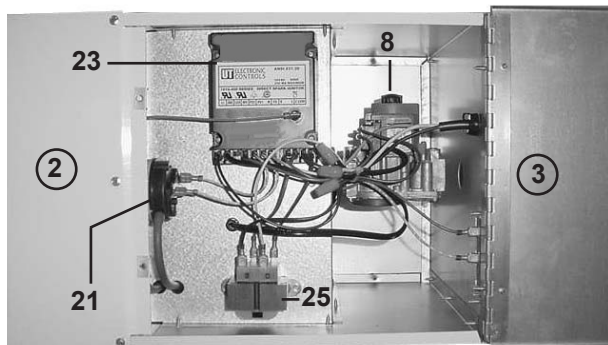
Replacement Parts

Code	Description		Qty	50	75 75/100	100	125 125/150	150	175 175/200	200	
1	Burner/Control Box Hanger		2	203954							
2	Burner Box Access Panel with Gaskets		1	205415							
3	Control Compartment Door w/Hinge and Latch		1	205414							
4	Receptacle Portion of the Door Latch (on box)		1	196336							
5	Combustion Air Inlet Screen		1	203974							
6	Combustion Air Restrictor Plate	115/1/60	1	203967	203968	203969	203970	203971	203972	203973	
		208–230/1/60or50	1	203967	203968	203969	203970	203971	205539	—	
7	Main Burner Assembly		1	204120					204121		
8	Combination Gas Valve (for PN and Serial No. Code, see page 2)	Natural Gas	1	260604 (7E) (replaces 147830(U2))					204301 (6A)		
		Propane Gas		260606 (8E) (replaces 147560(U3))							
9	Burner Orifice	Natural Gas	1	120147	131579	205430	205431	120165		205432	
		Marking		#29	4.25 mm	#11	#2	D		J	
		Propane Gas	1	124966	196852	196854	196838	120149	205433	205434	
		Marking		#45	#39	3 mm	#30	#27	5/32"	4.3 mm	
10A	Orifice Adapter		1	165701							
10B	Brass Pipe Nut		1	165702							
11	Input Conversion Bag (in 75/100, 125/150, 175/200 Boxes ONLY—converts 75 to 100, 125 to 150, and 175 to 200)	Natural Gas	1	—	205504	—	205506	—	205508	—	
		Propane		—	205505	—	205507	—	205509	—	
12	Gas Conversion Kit	Nat to Pro	1	269842			269843		269844		
Pro to Nat		269856			269857		269858				
13	Venter Housing		1	204116			204117		204118		
14	Sensing Tube Bracket and Tube Assembly		1	203938							
15	Venter Wheel	115/1/60	1	195036			120545		132007		
		208–230/1/60or50	1						135980	—	
16	Venter Motor	115/1/60	1	148055			214067 w/capacitor		214066 w/capacitor		
		208-230/1/60or50	1	148054					161416 w/capacitor	—	
17	Venter Motor Capacitor	115/1/60	1	—							
		208–230/1/60or50	1	—							
18	Venter Motor Plate		1	204119			120997		132019		
19	Spirol Spacer	115/1/60	4	97721			97722		—	—	
		208–230/1/60or50	4	97722						—	
20	Venter Motor Clip	115/1/60	2	262441			262442		194805		
		208–230/1/60or50	2	262441			262442		—		
21	Pressure Switch	0–6000 ft	1	205442 (white label)			205443 (yellow label)		205444 (green)		
		Above 6000 ft		205445 (grey label)			205446 (pink label)		205444 (green)		
22	High Altitude Kit (Option DJ20)	Above 6000 ft		205524			205525		—		
23	DSI Ignition Control, UTC #1016-426		1	204955							
24	DSI Electrode Assembly		1	204611							
25	Transformer	115/1/60	1	175265, 30 VA							
		208–230/1/60or50	1	194536, 40 VA							
26	Relay (optional; required with outside air)		1	18549 (for units mfgd before AUG 2011, order Relay Replacement Kit, PN 263527)							
27	Terminal Strip, 2-pole, 24V		1	96041							
28	Vinyl Grommet for Gas Pipe		1	102607							

Burner/Control Box



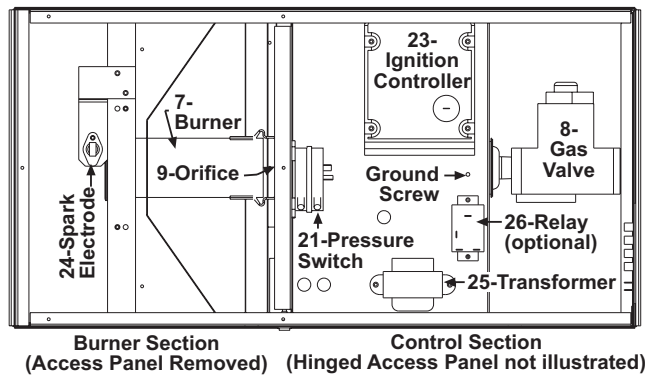
Burner Section—Bottom View with Access Panel Removed



Control Compartment—Bottom View with Door Open and Burner Section Access Panel Closed

Replacement Parts (cont'd)

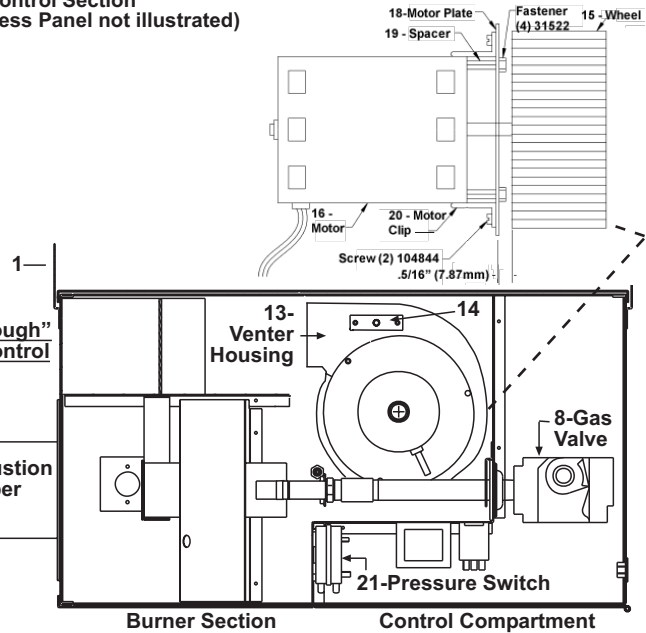
**Burner/Control Box
(cont'd)—see PN
on page 3**



**Bottom View
with Access
Panels
Removed**

27-Terminal
Board, 24V

Venter Motor and Wheel Components



View "through"
Side of Control
Box

Combustion
Chamber
Tube

Burner Section

Control Compartment

**CODE 17 -
Venter
Motor
Capacitor**



**CODE 24 - DSI
Ignition Electrode**



**CODE 21 -
Pressure
Switch**



**CODE 25 -
Transformer**



**CODE 26 -
Relay**



**CODE 27 - 24V
Terminal Strip**



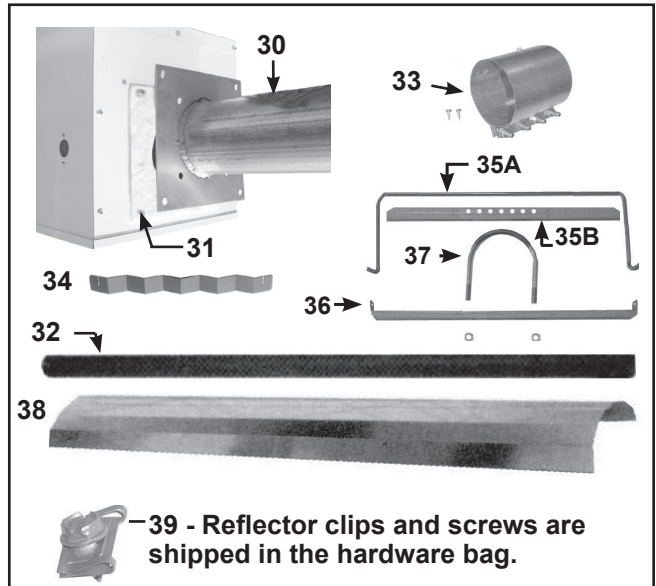
Tubes, Reflectors, and Options

Code	Description	All Sizes
30	Combustion Chamber Tube	205545
31	Combustion Chamber Tube Gasket	116029
32	10-ft Heat Exchanger Tube	205541
33	Compression Coupling w/all Hardware (coupling is used for all tube to tube connections & tube to vent pipe)	205546
34	Turbulator Section	116019
35A	Wire Reflector Retainer	Replaces PN 205543 209321
35B	Tube and Reflector Hanger Bar	209322
36	Reflector Bracket	205586
37	"U" Bolt with brass nuts	131785
38	10-ft Reflector (NOTE: As of JUN 2012, Model VR reflectors are made of aluminized steel and may be used to replace aluminum reflectors.)	268220
39	Clip-on, spring steel receptacle nut	196336

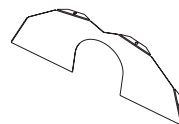
Tube Packages include tubes, reflectors, and hardware					
Package ID	VRE	VRF	VRG	VRH	
Package PN	205204	205205	205206	205151	
Required for 20-foot length	1	—	—	—	
Required for 30-foot length	—	1	—	—	
Required for 40-foot length	1	—	1	—	
Required for 50-foot length	1	—	—	1	
Required for 60-foot length	—	1	—	1	
Required for 70-foot length	—	1	2	—	

PNs and Components of the Hardware Packages included in Tube Packages VRE, VRF, VRG, & VRH listed above							
Tube Pkg	Replacement Hardware Pkg	Qty of Components by Code					
		33	34	35A&B	36	37	39
VRE	PN 209401	2	4	3	3	3	2
VRF	PN 209402	3	3	4	4	4	2
VRG	PN 209403	2	1	2	2	2	2
VRH	PN 209404	3	2	3	3	3	2

Plus each hardware package includes (6) #10 × 1/2" sheetmetal screws, PN 11813, and (4) #10 × 1/2" long Tek's, PN 37661

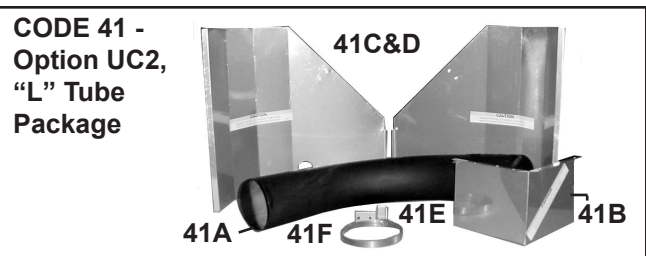


**CODE 40 -
Reflector End
Cover**

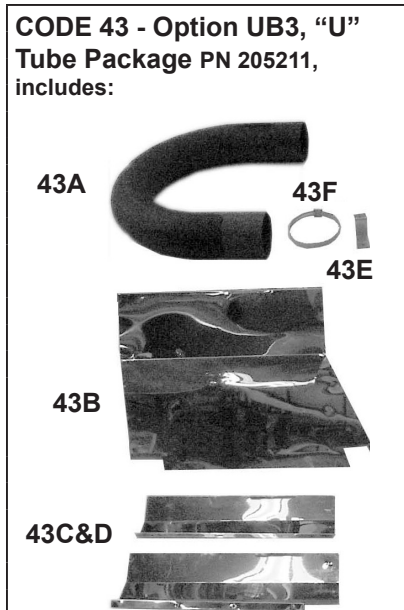


Option Designation	CD27	
Option Package PN	205762	
Description	Qty	PN
Reflector End Cover	2	268218
Screw, #10-32 x 1/2" long	8	113275
Nut, #10-32 (Keps)	8	26490

CODE 41 - Option UC2, Package PN 205217, includes:			
Code	Qty	PN	Description
"L" Tube and Reflector Parts			
41A	1	205218	"L" Heat Exchanger Tube
41B	1	268219	"L" Reflector Side
41C	1	268225	"L" Reflector Half Right
41D	1	268226	"L" Reflector Half Left
41E	1	120677	"L" Tube Reflector Bracket (in parts bag)
Coupling and Hardware for Tube Connection			
Same as CODE 33	1	205546	Compression Coupling
	2	37661	Self-Drilling Screw, #10 × 1/2" (shipped in parts bag below)
Wire Reflector Retainer, Hanger Bar, Tube Bracket, and U-Bolt			
Same as CODES 35A, 35B, 36, & 37	1	209321	Wire Reflector Retainer (Replaces 205543)
	1	209322	Hanger Bar
	1	205586	Reflector Bracket
	1	131785	U-Bolt, w/Brass Nuts (in parts bag below)
"L" Tube Kit Hardware Bag, PN 205723 (includes items below plus items above that indicate they are shipped in parts bag)			
—	15	113275	Screw, #10-32 × 1/2" long
	15	26490	Nut, #10-32 (Keps)
	2	113807	Washer
41F	1	120716	Stainless Worm-drive Clamp, 1/2"
Same as CODE 39	2	196336	Receptacle Nut, clip-on, spring steel
	2	11813	Sheetmetal Screw, #10 × 1/2"



CODE 42 - Option UA1, 5-ft Tube, Pkg PN 205207, includes:			
Code	Qty	PN	Description
5 ft Tube and Reflector			
5 ft Lengths of CODES 32 & 38	1	205208	5-ft Heat Exchanger Tube
	1	268221	5-ft Reflector
Coupling and Hardware for Tube Connection			
Same as CODE 33	1	205546	Compression Coupling
	2	37661	Self-Drilling Screw, #10 × 1/2" (parts bag below)
Wire Retainer, Hanger Bar, Tube Bracket, U-Bolt			
Same as CODES 35A, 35B, 36, & 37	1	209321	Reflector Retainer (replaces 205543)
	1	209322	Hanger Bar
	1	205586	Reflector Bracket
	1	131785	U-Bolt, w/brass nuts (in parts bag)
"5-ft" Tube Kit Hardware Bag, PN 205721 (includes items below plus items above that indicate they are shipped in parts bag)			
Same as CODE 39	2	196336	Receptacle Nut, Clip-On
	2	11813	Sheetmetal Screw, #10 × 1/2"



CODE 43	Qty	PN	Description
"U" Tube and Reflector Parts (see NOTE on page 4 about replacement reflectors)			
43A	1	205212	"U" Heat Exchanger Tube
43B	1	268222	Reflector Top
43C	1	268223	Reflector Right Side
43D	1	268224	Reflector Left Side
43E	1	120677	"U" Tube Reflector Bracket (shipped in parts bag below)
Coupling and Hardware for Tube Connection			
Same as CODE 33	1	205546	Compression Coupling
	2	37661	Self-Drilling Screw, #10 × 1/2" (shipped in parts bag below)
Wire Reflector Retainer, Hanger Bar, Tube Bracket, and U-Bolt			
Same as CODES 35A, 35B, 36, & 37	1	209321	Wire Reflector Retainer (replaces PN 205543)
	1	209322	Hanger Bar
	1	205586	Reflector Bracket
	1	131785	U-Bolt, w/brass nuts (in parts bag below)
"U" Tube Kit Hardware Bag, PN 205722 (includes items below plus items above that indicate they are shipped in parts bag)			
—	14	113275	Screw, #10-32 × 1/2" long
	14	26490	Nut, #10-32 (Keps)
	2	113807	Washer
43F	1	120716	Stainless Worm-drive Clamp, 1/2"
Same as CODE 39	2	196336	Receptacle Nut, clip-on, spring steel
	2	11813	Sheetmetal Screw, #10 × 1/2"

CODE 44 - Optional Side Shield (option selection based on length & number of side shield sections)

Option		CD19	CD13	CD14	CD15	CD16	CD17	CD18	CD20
Length		5 ft	10 ft	20 ft	30 ft	40 ft	50 ft	60 ft	70 ft
Kit PN		205738	205732	205733	205734	205735	205736	205737	205739
Code	Component	Qty	PN	Qty	PN	Qty	PN	Qty	PN
—	Side Shield	1	268227	2	268227	4	268227	6	268227
Wire Reflector Retainer, Hanger Bar, Tube Bracket and U-Bolt									
Same as CODES 35A, 36, & 37	Reflector Retainer	1	209321	2	209321	4	209321	6	209321
	Reflector Bracket	1	205586	2	205586	4	205586	6	205586
	U-Bolt, w/brass nuts (in parts bag below)	1	131785	2	131785	4	131785	6	131785
Side Shield Hardware Bag									
CODE 44A	Pushnut, TRW #250015	4	125848	4	125848	8	125848	12	125848
Same as CODE 39	Receptacle Nut, clip-on spring steel	2	196336	2	196336	4	196336	6	196336
—	Sheetmetal Screw, #10 × 1/2" long	2	11813	2	11813	4	11813	6	11813

Replacement Parts (cont'd)

Optional Accessories

CODE 46 - Option DE2, Outside Combustion Air Inlet, includes:

46D (PN 18549)



CODE 46 - Option DE2, Outside Combustion Air Inlet, includes:

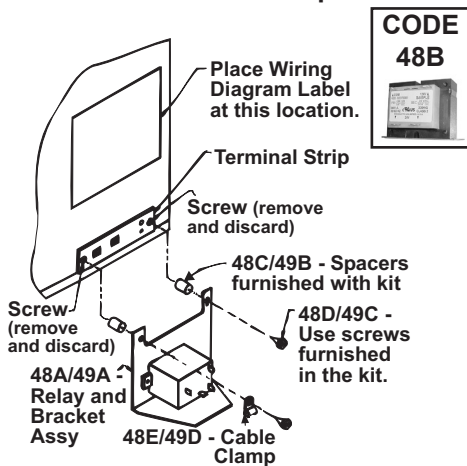
Kit PN			204785	204786
For Model VR Sizes			50, 75, 100, 125, 150	175 and 200
Code	Components	Qty	PN	PN
46A	Combustion Air Inlet Cover	1	204783	204784
46B	Inlet Air Cap	1	120726	204782
46C	Flex Pipe, 40" (1016 mm) long	1	120729, 4" DIA	204956, 5" DIA
46D	Relay Assembly	1	205540, Relay PN 18549 w/three 6" wires w/terminals (to replace relay only on unit mfgd <i>before</i> AUG 2011, order Relay Replacement Kit, PN 263527)	
Hardware Bag				
46E	Worm Drive Clamp, 1/2" wide stainless	2	102716, 3-5/8" to 4-1/2" DIA range	155320, 4-5/8" to 5-1/2" DIA range
Not illustrated	Drill Fixture	1	204615	204617
	Screw, #8-32 × 1/2" long	2	195638 (to attach CODE 46A)	
	Rolox, #6 × 5/8" lg round head phillips	2	110076 (for attaching CODE 46D)	
	Connector, Orange Screw-on Wire	1	16354	
	Connector, Yellow Screw-on Wire	1	16355	
	Wiring Diagram Label	1	205526	

CODE 47 - Option CK11, Hanging Chain Kit, PN 205402, includes:

Qty	Description	PN
1	50' long chain (200-lb working load)	120703
22	S-Hook (for suspension points)*	116034

*The four S-hooks for the burner/control box are included in the burner/control box hardware package.

CODES 48 and 49 - Multiple Heater Control Packages (same as Options CL31 and CL32 for Model VR)



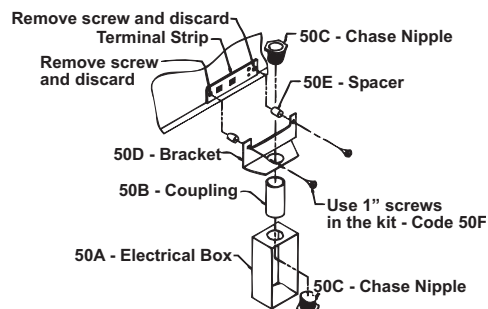
Option CL31 for Model VR—Package PN 205685

Code	Qty	PN	Description
48A	2	102243	Relay Assembly consisting of (1) PN 18549 Relay, wired and mounted on bracket (to replace relay only on unit mfgd before AUG 2011, order Relay Replacement Kit, PN 263527)
Code	Qty	PN	Description
48B	1	194808	Transformer, 40VA
48D	4	121033	Screw, #8 x 1" long
—	1	16354	Orange Twist-On Wire Connector
48E	2	16228	Cable Clamp, 3/16"
48C	4	98872	Spacer
—	2	197164	Wiring Diagram Label

Option CL32 for Model VR—Package PN 205686

Code	Qty	PN	Description
49A	1	102243	Relay Assembly consisting of (1) PN 18549 Relay, wired and mounted on bracket (to replace relay only on unit mfgd before AUG 2011, order Relay Replacement Kit, PN 263527)
Code	Qty	PN	Description
49B	2	98872	Spacer
49D	1	16228	Cable Clamp, 3/16"
49C	2	121033	Screw, #8 x 1" lg
—	1	197164	Wiring Diagram Label

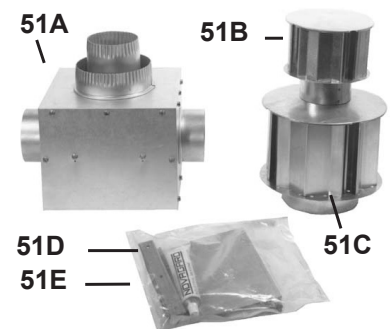
CODE 50 - Thermostat Bracket Package (same as Option CM3)



Thermostat Bracket Kit, PN 98524 includes:

Code	Qty	Description	PN
50A	1	Electrical Box, 2 x 4	17782
50B	1	Coupling conduit connector, 1/2"	7447
50C	2	Chase Nipple, 1/2"	3618
50D	1	Bracket	98353
50E	2	Spacer, 1/4" x 7/16" long	98872
50F	2	Screw, #8 x 1" long, type B	121033

CODE 51 - Dual Vent Kit (same as Option CC5)



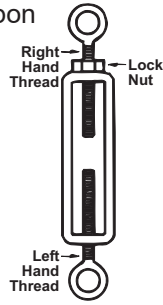
CODE 51 - Option CC5, Package PN 120736, includes:

Code	Qty	PN	Description
51A	1	120290	Dual Vent Adapter Box
51B	1	110051	4" Vent Cap
51C	1	120869	6" Vent Cap
51D	1	53335	High Temperature Silicone
51E	2	120108	Support Angle

CODE 52 - Turnbuckle and Turnbuckle Lock Nut

Each option package includes equal quantities of **PN 120704**, Eye-to-Eye Turnbuckle of forged carbon steel, and **PN 6554**, 5/16-18 Nut (Keps).

Straight Length	Straight		With one "L" or "U"	
	Opt	PN	Opt	PN
20 ft	CK12	121046	CK13	120701
30 ft	CK13	120701	CK14	121047
40 ft	CK14	121047	CK15	132517
50 ft	CK15	132517	CK16	205583
60 ft	CK16	205583	CK17	205584
70 ft	CK17	205584	CK18	205585

**CODE 53 - Flexible Gas Connector, Option CE3 & CE4**

1/2", PN 120715
3/4", PN 120874

CODE 54 - 4" Vent Cap (same as Option CC1), PN 120738**CODE 55 - 1-Stage Thermostat, (same as Option CL1), PN 255350**

24 Volt; 50–90°F Range

**CODE 56 - Thermostat Cover, W/R 29-0143 (same as Option CM1), PN 91926**

Clear Plastic Locking Cover



