

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

DISCONTINUED MODEL TR



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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, SERIAL NUMBER, CONVERSION LABELS, AND PARTS TAGS

REZNOR

MERCER, PA. USA 16137

MADE IN MEXICO / FABRIQUÉ AU MEXIQUE



TUBULAR INFRARED HEATER

FOR INDUSTRIAL / COMMERCIAL USE ONLY
POUR USAGE INDUSTRIEL / COMMERCIAL SEUL

ANSI Z83.6b- [A] CAN/CGA-2.16-M [A'] INFRARED HEATER

MODEL/DATE	MODÈLE/DATE	[B]	[C]
SERIAL NO.	#DE SÉRIE	[]	[]
TYPE OF GAS	TYPE DE GAZ	[E]	
VOLTS/PH/HZ	VOLTS/PH/HZ	[D]	
MAX. TOTAL AMPS	TOTALE MAX. DE AMPERAGE	[K]	
ALTITUDE	ALTITUDE	[F] FEET	[G] METERS
GAS ORIFICE SIZE	DIMENSION DE GAZ L'ORIFICE	[H] DRILL/FORET	
NORMAL INPUT	ENTRÉE NORMALE	[I] BTUH	
ALT. ADJ. NORMAL INPUT	ALT. ADJ. ENTRÉE NORMALE	[Q] BTUH	
MANIFOLD PRESSURE	PRESSION DE LA TUB	[O] IN. W.C./PO/COL D'EAU	
MIN. PERMISSIBLE GAS SUPPLY PRESSURE FOR PURPOSE OF INPUT ADJUSTMENT: [P] IN. W.C.			

CLEARANCES TO COMBUSTIBLE CONSTRUCTION:

TOP- [X] INCHES; SERVICE SIDE- [Y] INCHES; OPPOSITE SIDE [Z] INCHES;
FLUE CONNECTION - 6 INCHES; BELOW- [W] INCHES

REFLECTOR	MAX. MOUNTING ANGLE	BELOW	FRONT/REAR
STANDARD	0 DEGREES	[W]"	[S]"
STANDARD	45 DEGREES	[W]"	[T]"
STANDARD W/SIDE SHIELDS	[R] DEGREES	[W]"	[U]"

* 24" IF UNVENTED

THIS UNIT IS FOR USE WITH NATURAL OR PROPANE GAS. A CONVERSION KIT, AS SUPPLIED BY THE MANUFACTURER, SHALL BE USED TO CONVERT THIS HEATER TO THE ALTERNATE FUEL.

FOR ALTERNATE INSTALLATIONS USE THE LATEST ADDITIONS OF THE APPROPRIATE STANDARDS LISTED BELOW:

STANDARD ON AIRCRAFT HANGARS:	ANSI/NFPA 409
STANDARD ON PARKING STRUCTURES:	ANSI/NFPA 88A
STANDARD ON REPAIR GARAGES:	ANSI/NFPA 88B

PRES. D'ALIM MIN. ACCEPTABLE DE GAZ POUR DES FIN DE RÉGLAGE DE L'ENTRÉE: [P] PO/COL D'EAU

DÉGAGEMENT ENTRÉE LES CONTRUCTIONS COMBUSTIBLES:

EN HAUT- [X] PO; CÔTÉ ENTRETIEN [Y] PO; CÔTÉ OPPOSÉ [Z] PO;
EN BAS- [W] PO; RACCORD DE TUYAUX- 6 PO

CET APPAREIL POUR UTILISATION AVEC LE GAZ NATUREL OU LE PROPANE.
UNE TROUSSE DE CONVERSION FOURNIE PAR LE FABRICANT DOIT ÊTRE UTILISÉ POUR

PASSER D'UN COMBUSTIBLE À L'AUTRE.

L'INSTALLTION DE L'UNITÉ DANS DES GARAGES D'AVIONS DOIT SE CONFORMER AUX

CONDITIONS DES AUTORITÉS CHARGÉE DE FAIRE APPLIQUER LA LOI.
L'INSTALLATION DANS DES GARAGES PUBLICS DOIT SE CONFORMER AU CODE CAN/CGA-B149 (.1 OU .2).

SEPARATED COMBUSTION UNITS MUST USE THE CONCENTRIC ADAPTER ASSEMBLY LISTED IN THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
CONSTRUCTION WALL THICKNESS FOR PURPOSE OF VENTING: 1" MINIMUM, 30" MAXIMUM

Key:

- A** Design Standards (ANSI Z83.6B and CGA 2.16-M)
- B** Model No.
(Model Suffixes: H - High altitude; DP - Separated combustion; WP - Outdoor unit)
- C** Mfg Date (month and year)
- D** Supply Voltage
- E** Type of Gas (Natural or Propane)
- F** Altitude (feet)
- G** Altitude (meters)
- H** Orifice Size
- I** Normal Sea Level Input (BTUH)
- K** Maximum Total Amps
- O** Normal Manifold Pressure ("w.c.)
- P** Minimum Gas Supply Pressure
- Q** High Altitude Input (BTUH)
- R** Maximum Mounting Degrees with Side Shield
- S** Front/Rear Clearances (Horizontal Mounting)
- T** Front/Rear Clearances (Angled up to 45°)
- U** Front/Rear Clearances with Side Shield
- W** Clearance Below
- X** Clearance Above
- Y** Clearance on Service Side
- Z** Clearance on Other Side

Serial No.

Example:

AZA	71	T9	N	12345
1	2	3	4	5

Codes:

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

Serial Number Date Codes (Month and Year)												
Year	Month											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1992	ARA	ARB	ARC	ARD	ARE	ARF	ARG	ARH	ARI	ARJ	ARK	ARL
1993	ASA	ASB	ASC	ASD	ASE	ASF	ASG	ASH	ASI	ASJ	ASK	ASL
1994	ATA	ATB	ATC	ATD	ATE	ATF	ATG	ATH	ATI	ATJ	ATK	ATL
1995	AUA	AUB	AUC	AUD	AUE	AUF	AUG	AUH	AUI	AUJ	AUK	AUL
1996	AVA	AVB	AVC	AVD	AVE	AVF	AVG	AVH	AVI	AVJ	AVK	AVL
1997	AWA	AWB	AWC	AWD	AWE	AWF	AWG	AWH	AWI	AWJ	AWK	AWL
1998	AXA	AXB	AXC	AXD	AXE	AXF	AXG	AXH	AXI	AXJ	AXK	AXL
1999	AYA	AYB	AYC	AYD	AYE	AYF	AYG	AYH	AYI	AYJ	AYK	AYL
2000	AZA	AZB	AZC	AZD	AZE	AZF	AZG	AZH	AZI	AZJ	AZK	AZL
2001	BAA	BAB	BAC	BAD	BAE	BAF	BAG	BAH	BAI	BAJ	BAK	BAL
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

Size Conversion Label - Models TR 75, 125, 175

When servicing a heater with a rating plate reading Model TR75, TR125, or TR175, always look for a Size Conversion label.

- **Rating Plate reads Model TR75/ Size Conversion Label reads TR100** - Burner/control boxes originally ordered as Model TR-A or Model TR75/100 include a factory-built Model TR75 and a field kit to convert to a Model TR100. A heater with Model TR75 rating plate and a Field Conversion Label converting it to a Model TR100 is the same as a factory-built Model TR100.
- **Rating Plate reads Model TR125/ Size Conversion Label reads TR150** - Burner/control boxes originally ordered as Model TR-C or Model 125/150 include a factory-built Model TR125 and a field kit to convert to a Model TR150. A heater with Model TR125 rating plate and a Field Conversion Label converting it to a Model TR150 is the same as a factory-built Model TR150.
- **Rating Plate reads Model TR175/ Size Conversion Label reads TR200** - Burner/control boxes originally ordered as Model TR-K or Model TR 175/200 include a factory-built Model TR175 and a field kit to convert to a Model TR200. A heater with Model TR175 rating plate and a Field Conversion Label converting it to a Model TR200 is the same as a factory-built Model TR200.

Example of a Size Conversion Label

This appliance has been converted at the time of installation to a Model 100 with Kit No. 120096 by _____ who accepts the responsibility for the correctness of this conversion.	
ORIFICE SIZE - #12 drill NORMAL INPUT - 100,000 btu/hr	Minimum permissible gas supply pressure for purposes of input adjustment - 4.5" w.c.

Example of a Replacement Parts Tag

Replacement parts tags on Model TR/TR-H and TRP heaters are for your convenience in identifying replacement part numbers. Always give the complete Model No., Serial No., and P/N with description when ordering replacement parts.

COMMON REPLACEMENT PARTS FOR: REZNOR

MODEL TR75

SERIAL NUMBER ARI66M4N44585

WHEN ORDERING PART, ALWAYS GIVE THE FULL MODEL NUMBER AND SERIAL NUMBER

TRANSFORMER 102709

PILOT 097534

SPARK IGNITION 097782

TIME DELAY RELAY 116044

BLOWER MOTOR 097738

BLOWER WHEEL 097724

PRESSURE SWITCH 120031

BURNER DOOR SWITCH 116023

BURNER ON LIGHT 116045

OPTIONAL REPLACEMENT PARTS:

4" INLET AIR CAP 120724

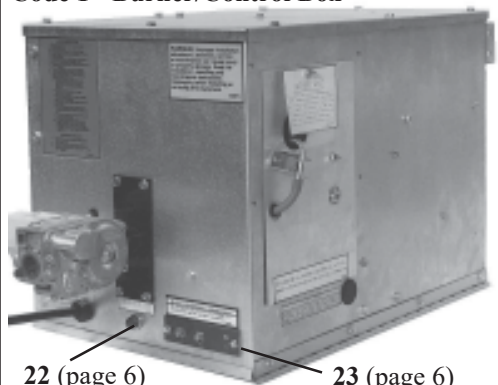
-- WARNING --

ALL PARTS ARE FOR USE WITH THE FUEL IDENTIFIED ON THE UNIT RATING PLATE. IF THE UNIT HAS BEEN CONVERTED TO OTHER FUELS, CHECK WITH DEALER FOR PROPER FUEL-CARRYING PARTS. INSTALLATION OF IMPROPER PARTS CAN CAUSE DEATH OR INJURY OR PROPERTY LOSS.

BURNER BOX COMPONENTS

Code	Description			Qty (other than 1)	50	75	100	125	150	175	200
1	Burner Control Box	Gas Natural	Ignition System Recycling Spark		125791	115953	120521	120297	120523	133246	133248
		Natural	Spark with Lockout		150000	150001	150002	150003	150004	150005	150006
		Propane	Spark with Lockout		125797	115997	120522	120298	120524	--	--
2	Burner Box Hanger			2	116030	116030	116030	116030	116030	116030	116030
3	Burner Box Door Assembly				125794	115964	115964	115964	115964	115964	115964
4	Draw/Pull Door Latch, Guden #832-02			2	120735	120735	120735	120735	120735	120735	120735
5	Combustion Air Inlet Cover Assembly				116040	116040	116040	116040	116040	133253	133253
6	Hardware Bag for attaching Burner/Control Box and Combustion Chamber Tube (includes 4 lockwashers, 4 nuts, 3 “S” hooks, 1 gasket (Code 6A), 2 bolts, 4 screws)				120348	120348	120348	120348	120348	120348	120348
6A	Combustion Chamber/Burner Box Gasket				116029	116029	116029	116029	116029	116029	116029
7	Hole Plug for Testing Port, Heyco #DP-875 (replaces P/N 120350)				16452	16452	16452	16452	16452	16452	16452
8	Vent Cap, 4"				110051	110051	110051	110051	110051	110051	110051
9	Combustion Air Restrictor Plate (also referred to as an air orifice plate)										
	Natural Gas, 0-2000 Ft Elevation (Model TR)		U.S. & Canada		125795	120354	120546	120355	120547	133166	133167
	Propane Gas, 0-2000 Ft Elevation (Model TR)				125795	120529	120546	120355	120547	--	--
	Natural, 2001-4000 Ft (Model TR-H)		U.S. (ANSI Std)		126072	120381	120382	120383	120384	133802	133803
	Propane, 2001-4000 Ft (Model TR-H)				126072	120381	120382	120383	120384	--	--
	Natural, 4001-6000 Ft (Model TR-H)				126075	120981	120982	120983	120984	133807	133808
	Propane, 4001-6000 Ft (Model TR-H)				126075	120981	120982	120983	120984	--	--
	Natural, 6001-8000 Ft (Model TR-H)				126081	120985	120986	120987	120988	133810	--
	Propane, 6001-8000 Ft (Model TR-H)				126081	120985	120986	120987	120988	--	--
	Natural, 2001-4500 Ft (Model TR-H)		Canada (CGA Std)		126072	120381	120382	120383	120384	133802	133803
Propane, 2001-4500 Ft (Model TR-H)				126072	120381	120382	120383	120384	--	--	
10	Sensing Tube with Bracket				115969	115969	115969	115969	115969	115969	115969
11	Pilot Mounting Bracket with Sensing Rod				120675	120675	120675	120675	120675	120675	120675

Code 1 - Burner/Control Box



22 (page 6)

23 (page 6)

5

2

7

3 Square gasket fits over the four studs; gasket is not shown in this illustration.

Code 4 - Door Latch



Code 8 - 4" Vent Cap



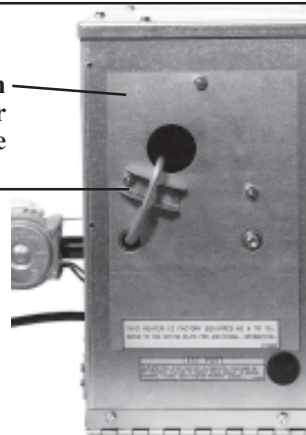
Code 11 - Pilot Mounting Bracket with Ground Rod



Codes 9 and 10

9 - Combustion Air Restrictor Plate

10 - Combustion Air Flow Sensor Bracket and Tube



Burner/Control Box Top View (with Top Panel Removed)

14A/B - Combustion Air/Venter Motor and Wheel Assembly

14C

14D

13

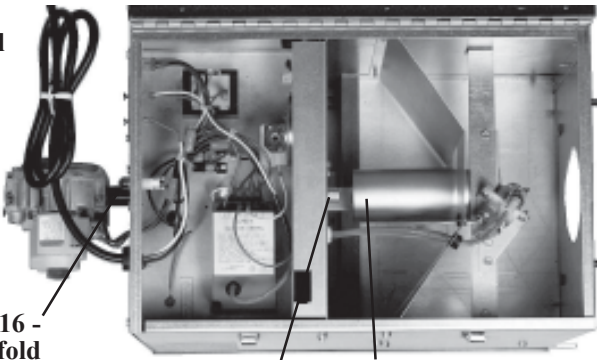


Code 14E - Capacitor

Combustion Air/Venter Blower and Motor (Model TR operates at 0-2000 ft elevation; Model TR-H above 2000 ft)

Code	Description	Model	50	75	100	125	150	175	200
13	Blower Housing	TR	120999 Hi-Tech #360	120999 Hi-Tech #360	120999 Hi-Tech #360	120999 Hi-Tech #360	121861	132006	132006
		TR-H	120999 Hi-Tech #360	120999 Hi-Tech #360	120999 Hi-Tech #360	121575	121575	132006	132006
14	Combustion Air/Venter Mtr & Wheel Assy (includes Codes 14A-G)	TR	116002	116002	116002	116003	116003	132009	132009
		TR-H	116002	116002	116002	121052	121052	132009	132009
14A	Motor - 115Volt	TR & TR-H	97738 Universal #JAIM156M	97738 Universal #JAIM156M	97738 Universal #JAIM156M	97741 Universal #JEIE009N	97741 Universal #JEIE009N	132058 Universal #JEIF015N	132058 Universal #JEIF015N
14B	Motor - 208/230 Volt	TR & TR-H	98157 Universal #JEIE010N	98157 Universal #JEIE010N	98157 Universal #JEIE010N	98157 Universal #JEIE010N	98157 Universal #JEIE010N	98157 Universal #JEIE010N	98157 Universal #JEIE010N
14C	Venter Wheel	TR	97724 Brookside #FE-400-200	97724 Brookside #FE-400-200	97724 Brookside #FE-400-200	97724 Brookside #FE-400-200	97724 Brookside #FE-400-200	132007 Brookside #FE-610-216-1	132007 Brookside #FE-610-216-1
		TR-H	97724 Brookside #FE-400-200	97724 Brookside #FE-400-200	97724 Brookside #FE-400-200	120545 Brookside #FE-519-119-2	120545 Brookside #FE-519-119-2	132007 Brookside #FE-610-216-1	132007 Brookside #FE-610-216-1
14D	Motor Plate	TR	97301	97301	97301	97301	97301	132019	132019
		TR-H	97301	97301	97301	120997	120997	132019	132019
14E	Motor Capacitor - 4MFD @ 370V	TR & TR-H	--	--	--	163894	163894	163894	163894
14F	Capacitor Boot - Syntex #M-78	TR & TR-H	--	--	--	103182	103182	103182	103182
14G	Spacers - #8 Spirol	TR & TR-H	(4)97721 3/4"lg	(4)97721 3/4"lg	(4)97721 3/4"lg	(4)97722 15/16"lg	(4)97722 15/16"lg	(4)97722 15/16"lg	(4)97722 15/16"lg

Burner, Manifold and Orifices



Burner Control Box

16 - Manifold

17 - Burner Orifice

15 - Burner Assembly

Code 15 - Main Burner Assembly



Code 16 - Manifold



Code 17 - Burner Orifice

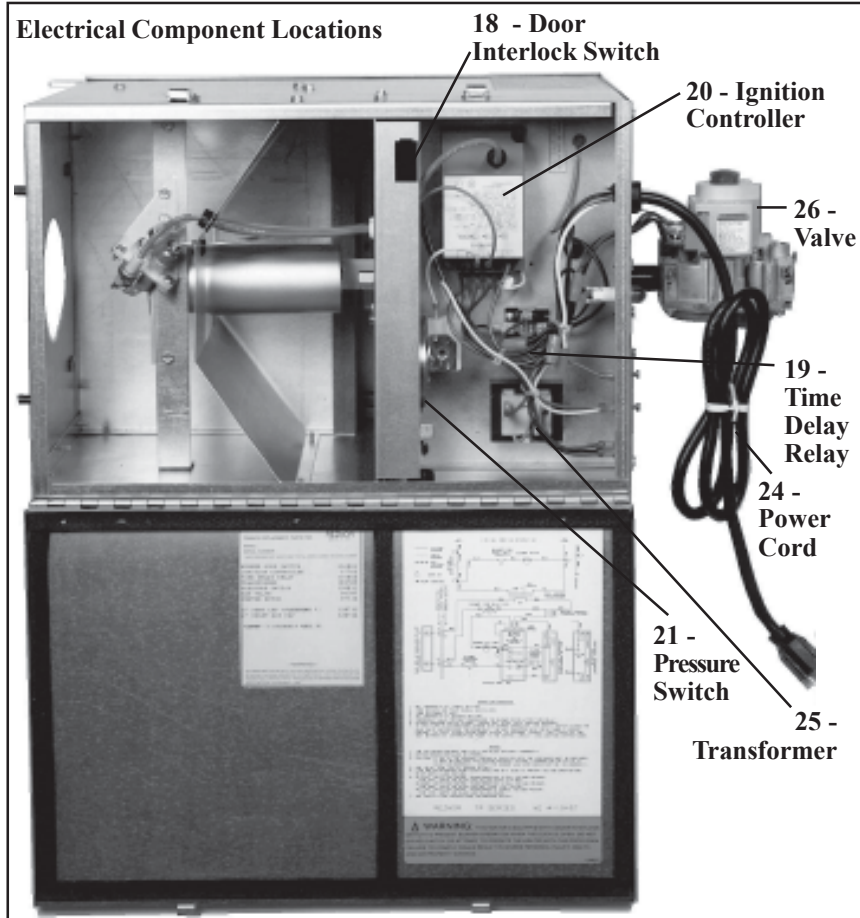


Select burner orifice carefully. Do not ream.

Code	Description	Model	50	75	100	125	150	175	200
15	Main Burner Assembly	TR/TR-H	115973	115973	115973	115973	115973	132022	132022
16	Manifold & Manifold Bracket	TR/TR-H	115981	115981	115981	115981	115981	115981	115981
17	Burner Orifice	Natural	TR	120146 3.4mm	120153 #20	120157 #12	120161 #1	120165 D	120164 C
		Propane	TR	124966 #45	120137 #40	120141 #32	120145 3.3mm	120149 #27	--
	Burner Orifice (Do not use for high altitude conversion; high altitude kits are on page 8.)	Natural	TR-H	120147 #29	120154 #19	120158 #10	131581 5.9mm	120166 E	120165 D
		Propane	TR-H	124967 2.1mm	120138 #39	120142 #3.0mm	120145 3.3mm	120150 #26	--
		Natural	TR-H	124969 #28	131579 4.25mm	120159 5.0mm	120162 A	120167 F	120166 E
		Propane	TR-H	124968 2.15mm	120139 #38	120143 #31	120146 3.4mm	120151 3.8mm	--
		Natural	TR-H	120149 #27	120155 #18	131580 #8	120164 C	120168 G	120167 F
		Propane	TR-H	131578 2.2mm	120140 #37	120144 3.1mm	120148 3.5mm	120152 #23	--

ELECTRICAL COMPONENTS

Electrical Component Locations



Code 18 - Safety Door Interlock Switch



Code 19 - Time Delay Relay



Code 20 - Ignition Controllers



Code 20A - G67BG-5, Ignition Controller (recycling)



Code 20B - G770NGC-4, Ignition Controller with lockout

Code 21 - Pressure Switch



Code	Description	Application	P/N
18	SPST Switch (Door Interlock Switch), MCG 0815-9011	All Sizes	116023
19	Time Delay Relay, 24V, T.I. #60704A0-41	All Sizes	116044
20A	Ignition Controller - Model G67BG-5	All Sizes	97782
20B	Ignition Controller with lockout - Model G770NGC-4	All Sizes (required w/propane)	97547
21	Pressure Switch, Tri-Delta #PPS10138-2813	All Sizes 0-2000 ft elevation; Sizes 50-150 - 2001-6000 ft; Sizes 75-150 - 6001-8000 ft	171825 (replaces 120031)
	Pressure Switch, Tri Delta #PPS10138-2814	Sizes 175, 200 - 2001-6000 ft; Sizes 50, 175 - 6001-8000 ft	171826 (replaces 120322)
22	Indicator Light, Jemco #XL-9036-5JL, 24V (See page 4)	All Sizes	116045
23	Terminal Strip, 2 Pole - Doran Mfg. Co (See page 4)	All Sizes	96041
24	Power Cord 4'6", 115 volt, #068-32-41552	All Sizes	116046
	Power Cord 4'6", 208/230 volt, NEMA 6-15P	Sizes 50 - 150	120689
25	Transformer, 115V, 20 VA, Basler #BE141620-RAD		132204 (replaces 102709)
	Transformer, 208/230V, 40VA, Basler #BE21537004		103500
	Transformer, 115V, 35VA, Basler #BE141640-RAK		102708
26	Gas Valve - Natural, 1/2", Honeywell Model VR8204-M1000	Sizes 50 - 150	96307
	Gas Valve - Propane, 1/2", Honeywell Model VR8204-M1018	Sizes 50 - 150	96310
	Gas Valve - Natural, 1/2", Honeywell Model VR8304-M2824	Sizes 175-200	136193
27	Replacement Pilot Assy (for natural or propane, 0-6000 ft) - see page 7 for components and pilots for altitudes above 6000 ft	Size 50	110854
		Sizes 75 - 200	110853

Code 26 - Gas Valve



Sizes	Gas	P/N
50-100	Natural	170609
125-150	Natural	96307
50-150	Propane	96310
175-200	Natural	136193

SPARK PILOTS, TUBE SYSTEMS, AND GAS CONVERSION KITS

Code 27 - Spark Pilot 	Code	Size	Elevation	Gas	P/N	Component Description
	27A	50	0-6000	Natural	126060	Pilot Assy with orifice, pilot tubing, flame rod, less flame sensor lead and fitting
		75-200	0-6000	Natural	97534	Pilot Assy with orifice, pilot tubing, flame rod, less flame sensor lead and fitting, Johnson #J982HKW-9733-715
		50-150	0-6000	Propane		
		50-150	6001-8000	Propane		
		50-175	6001-8000	Natural	126060	Pilot Assy with orifice, pilot tubing, flame rod, less flame sensor lead and fitting
	27B	50-200	0-6000	Natural	103034	Orifice only, Johnson #9731-715 (brass)
		50-150	0-6000	Propane		
		50-150	6001-8000	Propane		
		50-175	6001-8000	Natural	134507	Orifice only, Johnson #7721D (red)
	27C	All	0-8000	Natural	98698	Pilot Tubing, Johnson #B10499-995-11, 1/8" O.D. x 18" long
	27D			Natural and Propane	97572	Compression fitting, FTG75 (2 required when replacing pilot tubing)
	27E				98697	Flame Rod, Johnson #Y57AA-3
	27F				97575	Flame Sensor Lead, 21"

Tubular System (Tubes, Reflectors, and Hardware) - Models TR/TR-H

Code	Description	P/N	Code	Description	P/N
34	Combustion Chamber Tube only	123196	43	Reflector End Cap with Hardware Bag (Same as Option CD27) - use only gap cover kits, Code 44	143563
35	Heat Exchanger Tube only - 10' straight	123198	44	Reflector Gap Cover Kits (Same as Options CD21-26 for 20'-70' tube lengths)	See list on page 8
36	Tail Pipe Tube	123200	45	"L" Heat Exchanger Tube with Reflector (Same as Option UC2) (component listing on page 8)	120713
37	Tube Connection Hardware Bag (see illustration below, for components)	116017	46	"U" Heat Exchanger Tube with Reflector (Same as Option UB3) (component listing on page 8)	120712
38A	Turbulator Section - 37-1/8"	116019	47	Package containing 5' Heat Exchanger Tube with Reflector (Same as Option UA1) (not illustrated)	125184
38B	Turbulator Section - 26"	120538	47A	Heat Exchanger Tube only - 5' straight	125185
39	Reflector Bracket	131787	47B	Reflector only for straight 5' tube	125186
40	Reflector Retainer	131786			
41	U-Bolt with brass nuts, 3/8-16 x 4-1/2	131785			
42	Reflector only for straight 10' tube	123202			

Code 34 - Combustion Chamber Tube



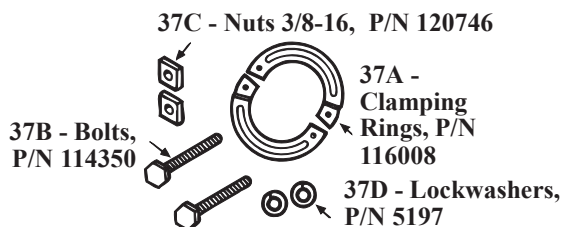
Code 35 - Heat Exchanger Tube



Code 36 - Tail Pipe Tube



Code 37 - Tube Connection Hardware

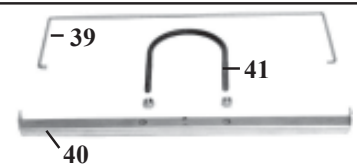


Codes 38A and B - Turbulator Section



Codes 39, 40, and 41 - Reflector Bracket, Retainer and Hardware

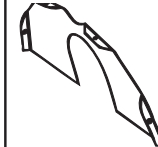
Complete Kit for 1 Tube, P/N 136128
 Complete Kit for 2 Tubes, P/N 136129
 Complete Kit for 3 Tubes, P/N 136130



Code 42 - Reflector



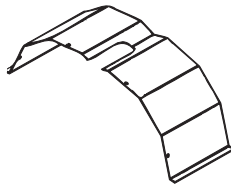
Code 43 - Reflector End Cover



Reflector end cover must be used with reflector gap covers (Code 44). End cover cannot be installed on a tube without a gap cover.

SPARK PILOTS, TUBE SYSTEMS, AND GAS CONVERSION KITS—CONTINUED

Code 44 - Reflector Gap Covers



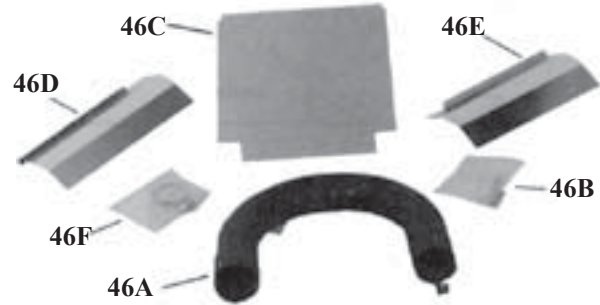
No. of Tubes	Same as Option	P/N
2	CD21	143500
3	CD22	143501
4	CD23	143502
5	CD24	143503
6	CD25	143504
7	CD26	143505

Code 45 - "L" Heat Exchanger Tube Package with Reflector (Same as Option UC2)

Components -- "L" Tube only, P/N 120535; "L" Tube Reflector Right Half, P/N 144415; "L" Tube Reflector Left Half, P/N 144416; "L" Tube Reflector Side, P/N 144417; Reflector Hardware Bag, P/N 143474



Code 46 - "U" Heat Exchanger Tube Package (Same as Option UB3)



Code	Qty	P/N	Component Description
46A	1	120534	"U" Heat Exchanger Tube
46B	1	116017	Tube Connecting Hardware Bag
46C	1	120993	Reflector Top
46D	1	120994	Reflector Right Side
46E	1	120995	Reflector Left Side
46F	1	120719	Reflector Hardware Bag including: 14 - P/N 113275, Screws #10-32 x 1/2" lg; 2 - P/N 113807, Washers; 14 - P/N 26490, Nuts Kep #10-32

Tubular System Cartons and Packaging Scheme

48	Tubular System Package , P/N 120294, includes											
	Qty	Code	P/N	Description	Qty	Code	P/N	Description	Qty	Code	P/N	Description
	1	34	123196	Combustion Chamber Tube	1	36	123200	Tail Pipe Tube	4	39	131787	Reflector Bracket
	4	40	131786	Reflector Retainer	4	41	131785	U-Bolt w/brass nuts	2	42	123202	Reflectors
49	Tubular System Package , P/N 120295, includes											
	Qty	Code	P/N	Description	Qty	Code	P/N	Description	Qty	Code	P/N	Description
	1	34	123196	Combustion Chamber Tube	1	35	123198	Heat Exchanger Tube	1	36	123200	Tail Pipe Tube
	6	39	131787	Reflector Bracket	6	40	131786	Reflector Retainer	6	41	131785	U-Bolt w/brass nuts
50	Tubular System Package , P/N 120296, includes											
	Qty	Code	P/N	Description	Qty	Code	P/N	Description	Qty	Code	P/N	Description
	2	35	123198	Heat Exchanger Tube	4	39	131787	Reflector Bracket	4	40	131786	Reflector Retainer
	4	41	131785	U-Bolt with brass nuts	2	42	123202	Reflectors	2	37	116017	Tube Connection Hardware Bag

Tube Packages above Required by Length of System

Length of Tubular System	20ft	30ft	40ft	50ft	60ft	70ft
Required Pkgs by Codes above (quantity in parenthesis)	(1) Code 48	(1) Code 49	(1) Code 48 (1) Code 50	(1) Code 49 (1) Code 50	(1) Code 48 (2) Code 50	(1) Code 49 (2) Code 50

High Altitude and Gas Conversion Kits - Model TR

Code 51 - High Altitude Conversion Kits for Model TR												
Type of Gas	Natural Gas							Propane Gas				
BTUH Size	50	75	100	125*	150*	175	200	50	75	100	125*	150*
Elevation	2001-4000 feet (611-1219 meters)											
Pkg P/N	126440	120880	120882	132664	132667	132670	132673	126441	120881	120883	132676	132679
Elevation	4001-6000 feet (1220-1829 meters)											
Pkg P/N	126442	120884	120886	132682	132685	132688	132691	126443	120885	120887	132694	132697
Elevation	6001-8000 feet (1830-2438 meters)											
Pkg P/N	126444	120888	120890	132700	132703	132706	--	126445	120889	120891	132712	132715

* Sizes 125 and 150 - Do not install a High Altitude Conversion Kit in a Size 125 or 150 heater that is factory built for operation at sea level (0-2000 ft elevation). These kits for Size 125 and 150 heaters are designed only to change the elevation range of a heater that is factory-built for operation above 2000 ft.

Code 52 - Gas Conversion Kits for Model TR (sea level only)

Sizes	Natural to Propane	Propane to Natural
TR 75 and 100	193859	193861
TR 125 and 150	193860	193862

IMPORTANT: When selecting a gas conversion kit, check

- ☐ Rating plate information
- ☐ For size conversion label (see page 2)
- ☐ For altitude conversion label (gas conversion kits are not available for high altitude; consult the factory)

NOTES: Gas conversion kits are not available for Size 50. Sizes 175 and 200 are available for use with natural gas only.

ACCESSORIES/OPTIONS

Code 109 - Single-Stage Thermostat, W/R #1C30-341 (Same as Option CL1), P/N 91919 - Applies to Models TR, TR/H, and TRP



24 Volt
40-80° F Range
Snap Action Contacts
30 V.A.C. Maximum
.15 to 1.0 Amps
Adjustable Anticipator
Vertical Mounting with Wall Mounting Plate
Dial "off" Switch

Code 110 - Thermostat Cover, W/R 29-0143 (Same as Option CM1), P/N 91926- Applies to Models TR, TR/H, and TRP

Clear Plastic
Locking Cover



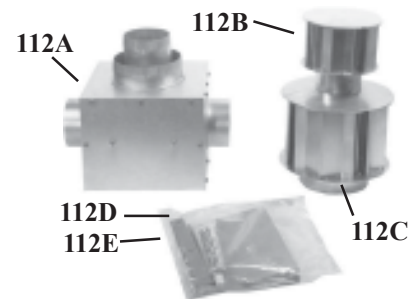
Code	Description (see illustrations below and on page 14)	Applies to Model	P/N
111	Complete Combustion Air Inlet Kit (Same as Option DE2)	TR and TR/H	120724
112	Dual Vent Kit (Same as Option CC5) - See illustration below for components	TR, TR/H, and TRP	120736
113	Turnbuckle, Forged Carbon Steel, #10704, with Lock Nut (part of Options CK 12-18)	TR, TR/H, and TRP	120704
114	Side Shield Package (hangs along rear of tubular system)	TR, TR/H, and TRP	See List
115	Multiple Heater Control Pkg (for 115V master and one slave, same as Option CL31)	TR and TR/H	102248
116	Multiple Heater Control Pkg (for 208/230V master & all slave units, same as Option CL32)	TR and TR/H	102249
117	Thermostat Bracket Package for Heater Mounting (Same as Option CM3)	TR and TR/H	98524
118	Gas Connector, 1/2" Flexible, 24" long Stainless (Same as Option CE3)	TR, TR/H, and TRP	120715
	Gas Connector, 3/4" Flexible, 24" long Stainless (Same as Option CE4)	TR, TR/H, and TRP	120874
119	Hanger Chain Kit (Same as Option CK11) <u>Components:</u> Hanging Chain, 50 ft, 200 lb load, P/N 120703; "S" Hook, 1/4", Campbell #610-8024, P/N 116034	TR and TR/H (For chain and hooks for TRP, see Codes 101 and 102, page 11.)	120698

Code 111 - Combustion Air Inlet Kit (Same as Option DE2 for TR and TR/H)



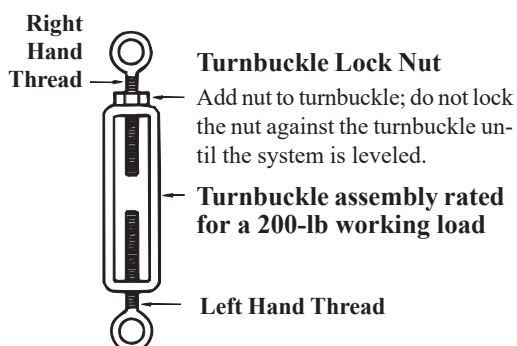
Code	Qty	P/N	Component Description
111A	1	120729	Expandable Combustion Air Inlet Pipe, 4" dia.
111B	2	120716	Clamp, Worm Drive, 1/2" Stainless Steel
111C	1	120726	Inlet Cap, 4"

Code 112 - Dual Vent Kit (Same as Option CC5 for TR, TR/H, and TRP)



Code	Qty	P/N	Component Description
112A	1	120291	Dual Vent Adapter Box
112B	1	110051	4" Vent Cap
112C	1	120869	6" Vent Cap
112D	1	53335	Tube of Silicone Rubber
112E	2	120108	Support Angles

Code 113, Turnbuckle and Turnbuckle Lock Nut for Models TR, TR-H, and TRP



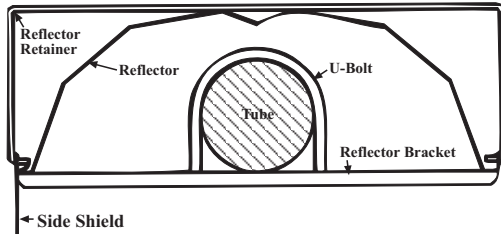
Each package (kit) includes equal quantities of:
Eye-to-Eye Turnbuckle of forged carbon steel,
P/N 120704, and 5/16-18 Nut (Kep), P/N 6554

Model	Straight Tube Length (feet)	System Configuration					
		Straight or "L"			"U"		
		Option No.	Package P/N	Qty per pkg	Option No.	Package P/N	Qty per pkg
TR/TR-H	20	CK12	120699	4	CK13	121045	5
	30	CK13	121045	5	CK14	120700	6
	40	CK14	120700	6	CK15	121046	7
	50	CK15	121046	7	CK16	120701	8
	60	CK16	120701	8	CK17	121047	9
	70	CK17	121047	9	CK18	132517	10
TRP 30 & 60	N/A	CK12	120699	4			
TRP 50 & 100	N/A	CK14	120700	6			

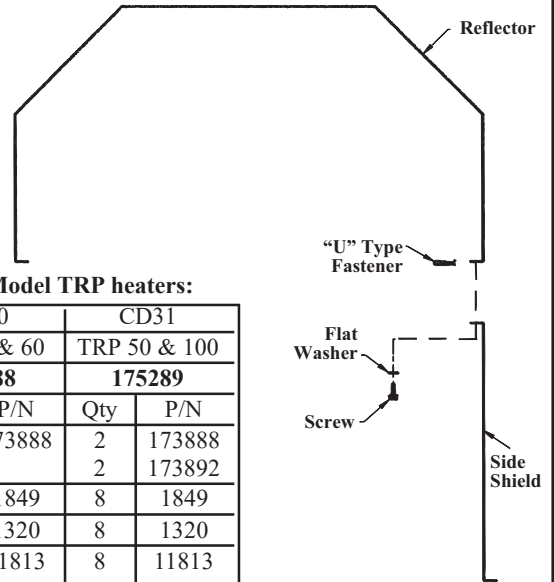
ACCESSORIES/OPTIONS—CONTINUED

Code 114 - Optional Side Shield Kits

Side Shield Kits for Models TR and TR/H



Side Shield Kits for Model TRP



Side Shield Option Kits for Model TRP heaters:

Option	CD30		CD31	
Applies to	TRP 30 & 60		TRP 50 & 100	
Option Pkg P/N	175288		175289	
	Qty	P/N	Qty	P/N
Side Shield	2	173888	2	173888
U-Type Nut	4	1849	8	1849
1/4" Flat Washer	4	1320	8	1320
Sheetmetal Screw #10 x 1/2"	4	11813	8	11813

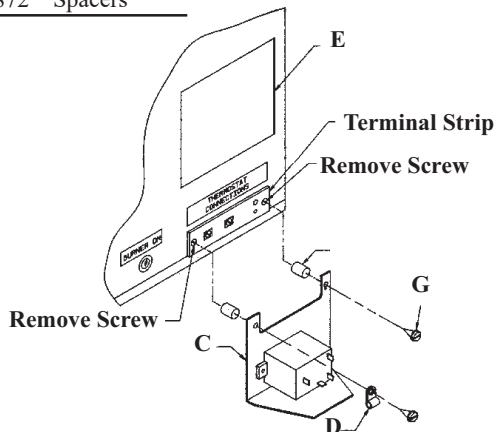
	Length of Shielded Tubes - Models TR and TR/H															
	5'		10'		20'		30'		40'		50'		60'		70'	
Option Designation	CD19		CD13		CD14		CD15		CD16		CD17		CD18		CD20	
Option Package P/N	125340		120132		120705		120706		120707		120708		120709		132059	
	Qty	P/N	Qty	P/N	Qty	P/N	Qty	P/N	Qty	P/N	Qty	P/N	Qty	P/N	Qty	P/N
Side Shield Modular Section	1	116020	2	116020	4	116020	6	116020	8	116020	10	116020	12	116020	14	116020
Reflector Bracket	0	—	2	131787	4	131787	6	131787	8	131787	10	131787	12	131787	14	131787
U-Bolt with two Brass Nuts	0	—	2	131785	4	131785	6	131785	8	131785	10	131785	12	131785	14	131785
Reflector Retainer	0	—	2	131786	4	131786	6	131786	8	131786	10	131786	12	131786	14	131786
#10-32 x 1/2" long Screw	1	113275	1	113275	2	113275	3	113275	4	113275	5	113275	6	113275	7	113275

Codes 115 and 116 - Multiple Heater Control Packages (Same as Options CL31 and CL32 for Models TR and TR/H)

	CL31	CL32	P/N	Component
A	1	--	102708	Transformer 35VA, Basler #BE141640-RAK
B	2	--	103152	Sheet Metal Screws, #6 x 1-3/4" lg (to hold transformer)
C	2	1	102243	RBM Relay Assembly consisting of one P/N 98118 RBM Relay (WR #134-20102-101) wired & mounted on a specially designed bracket
D	2	1	16228	Cable Clamp 3/16"
E	2	1	131127	Wiring Diagram Label
G	4	2	121033	Screws, #8 x 1" lg
F	4	2	98872	Spacers

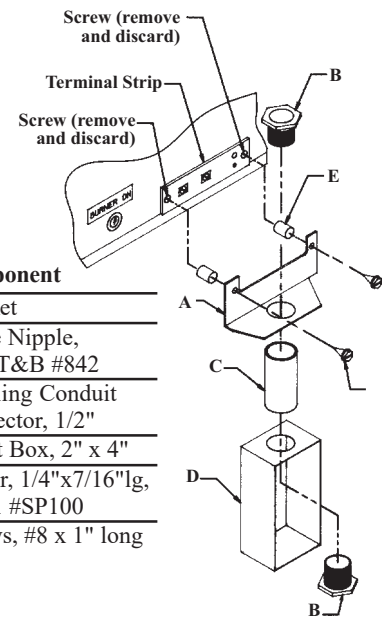
NOTE: Pkg P/N

102248 also includes two Tinnerman clips which are not used on Model TR. Pkg covers multiple product lines.



Code 117 - Thermostat Bracket Package (Same as Option CM3)

	Qty	P/N	Component
A	1	98353	Bracket
B	2	3618	Chase Nipple, 1/2", T&B #842
C	1	7447	Coupling Conduit Connector, 1/2"
D	1	17782	Outlet Box, 2" x 4"
E	2	98872	Spacer, 1/4"x7/16"lg, Spirol #SP100
F	2	121033	Screws, #8 x 1" long



Code 119 - Flexible Gas Connector (Options CE3 and CE4 for TR, TR/H and TRP)

1/2", P/N 120715; 3/4", P/N 120874



NOTES

