

**IMPORTANT**

1. Always include complete heater model and serial number so that any specification change can be considered for parts shipment. It can save time and expense.
2. Specifications are subject to change without notice.
3. We reserve the right to substitute functional replacements.
4. Order by Part No. Do not order parts by Option No.

**REZNOR** *Thomas & Betts*



**Replacement  
Thermostats and  
Accessories**

Parts/Service Form RGM 702-A  
Obsoletes Form 702-3

**APPLIES TO:** Service Data

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**1. Single-Stage Thermostats**

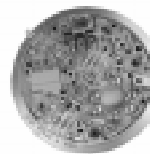
**Figure 1**



**Single-Stage Thermostat  
24-volt  
40-80°F Range  
Snap Action contacts  
30 VAC Maximum  
.15 to 1.0 Amps  
Adjustable Anticipator  
Vertical Mounting with  
Wall Mounting Plate  
Dial 'OFF' Switch**

**P/N 91919**  
W/R #1C30-341

**Figure 5A**



**Sub-Base**

**P/N 15954**  
M/H #Q539A

**Figure 5B -  
P/N 103352**  
M/H #137421

**Sub-Base used with Figure 4 thermostat  
when installed in a remote console**

**Figure 2**



**Sub-Base with Auto/On**

**P/N 91920**  
W/R #W-S23-6

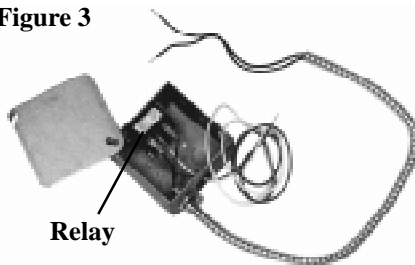
**Figure 6**



**Single-Stage Thermostat  
120-240 Line Voltage  
50-80°F Range  
Magnetic Switch  
Vertical Mounting  
Full Load Amps --  
16 @ 120V; 8 @ 240V**

**P/N 36392**  
M/H #T4051A1003

**Figure 3**



**SPST Relay,  
P/N 14747  
(RBM 84-  
20102-101),  
Mounted in  
4 x 4 x 2-1/2  
Electrical Box**

**Relay**

**Figure 7**



**Single-Stage Thermostat  
Unit Mounted  
115/230 Volt  
Includes wires for field  
installation**

**P/N 46365**  
Thermodisc #50T15X46035400

Applies to all AEUH Models  
except 5-1-24)

**Figure 4**



**Single-Stage  
24 Volt  
40-90°F Range  
SPDT Mercury Switch  
30 VAC Maximum  
.1 to 1.2 Amps  
Adjustable Anticipator  
Round Horizontal Mount  
with wall mounting plate**

**P/N 39581**  
M/H #T87F3665

**Figure 8**

**Adjustment Knob  
(Used with the  
thermostats in  
Figures 7 and 9)**



**P/N 46859**  
Malory #47-366-1

**Figure 9**

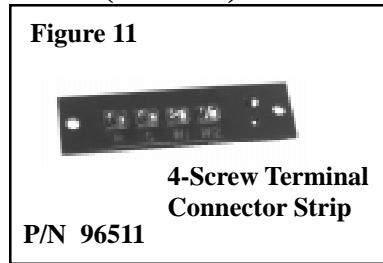
**Single-Stage  
Thermostat  
Unit Mounted  
115/230 Volt**



**P/N 46361**  
White Rodgers #2B61-11

Includes wires for  
field installation

# 1. Single-Stage Thermostats (cont'd)



## Single-Stage Thermostat Package/Option Cross-Reference Chart and Parts List (photos on pages 1-2)

Option Pkg P/N	Heater Option No.	Consisting of: See Figure	P/N	Description	
91919	CL1①	1 (page 1)	91919	Thermostat (40-80°F)	
94291	CL2②	3 (page 1)	68738	Packaged Thermostat and Sub/Base (WR #1C50-301) consisting of:	
				<b>P/N Description See Figure</b>	
			91919	Thermostat	1 (page 1)
			91920	Sub/Base	2 (page 1)
			14747	Relay	
			10159	Electrical Box	
			32550	Box Cover	
			46534	(2) Black Wire Assemblies, 18 ga. x 6" with terminal	
60146	Brown Wire Assembly, 18 ga. x 6" with terminal				
			60145	Yellow Wire Assembly, 18 ga. x 6" with terminal	
39581	CL3	4 (page 1)	39581	Thermostat (40-90°F)	
36392	CL5	6 (page 1)	36392	Thermostat (50-80°F)	
73411	CL10③ & obsolete CL4	4 (page 1)	93581	Thermostat (40-90°F)	
		5A (pg1)	15954	Sub/Base	
46362	CL12	7 (page 1)	46365	Thermostat (40-80°F)	
		8 (page 1)	46859	Knob	
		Not illustrated:			
			46363	Wire Assembly	
			45541	Center Line Splice	
		20913	Plastic Ty-Rap® Cable Ties		
46360	CL16	9	46361	Thermostat (40-80°F)	
		8 (page 1)	46859	Knob	
98474	CL17④		68738	Packaged Thermostat and Sub/Base with summer fan (WR #1C50-301) consisting of:	
				<b>P/N Description See Figure</b>	
			91919	Thermostat	1 (page 1)
			91920	Sub-Base	2 (page 1)
			10	98118	Relay
			11	96511	4-Screw Terminal Connector Strip
			Not illustrated:		
				98117	Open/closed Bushing, Heyo #OCB-500
				101241	(2) Black Wire Assemblies, 14 gauge x 8" long with Terminals
				97478	Brown Wire Assembly, 18 gauge x 18" long with Terminals
	98125	Purple Wire Assembly, 18 gauge x 18" long with Terminals			
	101798	(2) Plastic Dart Fasteners			
110252	CL34	12	110252	Thermostat (50-90°F)	

① If replacing **Option EB9** or **Option RCT1** thermostat factory-mounted in a remote console, select P/N 91919.

If replacing thermostat originally ordered as part of gas control **Option AG10**, select P/N 91919.

② Not a currently available option -- applied to obsolete unit heater Model Series XL, XLB, EEXL, EEXLB.

③ If replacing **Option BF2** thermostat on models **other than F/FE/B/BE**, select P/N 73411.

If replacing **Option EB11** or **Option RCT3** thermostat factory-mounted in a remote console, select P/N 39581 and P/N 103352.

④ If replacing **Option BF2** thermostat on a Model F/FE/B/BE, select P/N 68738; replacement relay, P/N 98118.

## 2. Two-Stage Thermostats

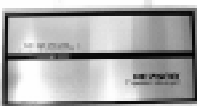
**Figure 13**



**Two-Stage Thermostat**  
**24 Volt, 30 VAC Maximum**  
**.1 to 1.2 Amps**  
**Two-Stage Heating**  
**40-90°F Range**  
**Dust-Free Mercury Switch**  
**Adjustable Anticipator**  
**Horizontal Mounting**

**P/N 91921**  
 M/H #T874F1130


**Figure 16**



**Two-Stage Heating/Cooling Thermostat**  
**24 Volt, 30 VAC maximum**  
**.12 to 1.2 Amps**  
**40-90°F Range**  
**Dust-Free Mercury Switch**  
**Adjustable Anticipator**  
**Horizontal Mounting**

**P/N 91924**  
 M/H #T874D1629

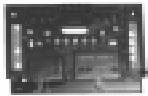
**Figure 14**



**Sub-Base with Off/ Auto System Switch**

M/H #Q674G1005


**Figure 15**



**Sub-Base with Auto/On (fan) Switch and Off/Auto Switch System Switch**

M/H Q674C1009

**Figure 17**



**Sub-Base with Auto/ On (fan) Switch and Off/Heat/Auto/Cool Switch**

M/H #Q674E1007

### Two-Stage Thermostat Package/Option Cross-Reference Chart and Parts List

Option Pkg P/N	Heater Option No.	Consisting of:														
		See Figure	P/N	Description												
93435	CL7⑤		93435	Packaged Thermostat and Sub/Base (MH Pkg #Y594F1063) consisting of:												
				<table border="0"> <tr> <td></td> <td><b>P/N</b></td> <td><b>Description</b></td> <td><b>See Figure</b></td> </tr> <tr> <td></td> <td>91921</td> <td>Thermostat</td> <td>13</td> </tr> <tr> <td></td> <td>⑤</td> <td>Sub/Base</td> <td>14</td> </tr> </table>		<b>P/N</b>	<b>Description</b>	<b>See Figure</b>		91921	Thermostat	13		⑤	Sub/Base	14
	<b>P/N</b>	<b>Description</b>	<b>See Figure</b>													
	91921	Thermostat	13													
	⑤	Sub/Base	14													
94024	CL8⑥	3	93436	Packaged Thermostat and Sub/Base (MH Pkg #Y594F1048) consisting of:												
				<table border="0"> <tr> <td></td> <td><b>P/N</b></td> <td><b>Description</b></td> <td><b>See Figure</b></td> </tr> <tr> <td></td> <td>91921</td> <td>Thermostat</td> <td>13</td> </tr> <tr> <td></td> <td>⑥</td> <td>Sub/Base</td> <td>15</td> </tr> </table>		<b>P/N</b>	<b>Description</b>	<b>See Figure</b>		91921	Thermostat	13		⑥	Sub/Base	15
				<b>P/N</b>	<b>Description</b>	<b>See Figure</b>										
				91921	Thermostat	13										
				⑥	Sub/Base	15										
				14747	Relay											
				10159	Electrical Box											
				32550	Box Cover											
				123942	Terminal jumper											
				46534	(2) Black Wire Assemblies, 18 ga. x 6" with terminals											
	60146	Brown Wire Assembly, 18 ga. x 6" with terminal														
	60145	Yellow Wire Assembly, 18 ga. x 6" with terminal														
134926	CL11⑦		93437	Packaged Thermostat and Sub/Base (MH Pkg #Y594D1248) consisting of:												
				<table border="0"> <tr> <td></td> <td><b>P/N</b></td> <td><b>Description</b></td> <td><b>See Figure</b></td> </tr> <tr> <td></td> <td>91924</td> <td>Thermostat</td> <td>16</td> </tr> <tr> <td></td> <td>⑦</td> <td>Sub/Base</td> <td>17</td> </tr> </table>		<b>P/N</b>	<b>Description</b>	<b>See Figure</b>		91924	Thermostat	16		⑦	Sub/Base	17
				<b>P/N</b>	<b>Description</b>	<b>See Figure</b>										
	91924	Thermostat	16													
	⑦	Sub/Base	17													
	123942	Terminal Jumper														
98494	CL18⑧	10 11	93436	Packaged Thermostat and Sub/Base with Summer Fan (MH Pkg #Y594F1048) consisting of:												
				<table border="0"> <tr> <td></td> <td><b>P/N</b></td> <td><b>Description</b></td> <td><b>See Figure</b></td> </tr> <tr> <td></td> <td>91921</td> <td>Thermostat</td> <td>13</td> </tr> <tr> <td></td> <td>⑧</td> <td>Sub/Base</td> <td>15</td> </tr> </table>		<b>P/N</b>	<b>Description</b>	<b>See Figure</b>		91921	Thermostat	13		⑧	Sub/Base	15
				<b>P/N</b>	<b>Description</b>	<b>See Figure</b>										
				91921	Thermostat	13										
				⑧	Sub/Base	15										
				98118	Relay											
				96511	4-Screw Terminal Connector Strip											
				123942	Terminal Jumper											
				101241	(2) Black Wire Assemblies, 14 ga. x 8" with terminals											
				97478	Brown Wire Assembly, 18 ga. x 18" with terminals											
				98125	Purple Wire Assembly, 18 ga. x 18" with terminals											
				101798	(2) Plastic Dart Fasteners											
	98117	Open/Closed Bushing, Heyco #OCB-500														

⑤ If replacing **Option BF3** thermostat on models other than F/FE/B/BE, select P/N 93435.

If replacing **Option EB10** or **Option RCT2**, factory-mounted in a remote console, select P/N 93435.

If replacing thermostat originally ordered as part of gas control **Option AG11**, select P/N 93435.

⑥ If replacing **Option BF6** thermostat on Models **other than F/FE/B/BE**, select P/N 93436; replacement relay, P/N 14747.

⑦ If replacing **Option EB12** or **Option RCT4** thermostat factory mounted in a remote console, select P/N 93437.

⑧ If replacing **Option BF7** thermostat on Models F/FE/B/BE, select P/N 93436; replacement relay, P/N 98118.

⑨ Sub-base is no longer available from Reznor as a separate part.

**3. Thermostat Air Recirculation Kits -- Thermostats used in these Kits are illustrated on page 3. Air recirculation kits cannot be used with two-stage gas valve.**

**Air Recirculation Thermostat Package /Option Cross-Reference Chart and Parts List**

Option Pkg P/N	Heater Option No.	Consisting of: See Figure	P/N	Description					
52974	CL13②	3 (page 1)	93435	Packaged Thermostat and Sub/Base (MH Pkg #Y594F1063) consisting of: P/N Description See Figure 91921 Thermostat 13 (page 3) ⑨ Sub/Base 14 (page 3)					
			14747	Relay					
			10159	Electrical Box	32550	Box Cover			
			1417	90° Box Connector	16199	Box Connector T&B #253			
			16358	(2) Anti-Short bushing	19680	Cable 3/8 x 24"			
			53224	(2) Black Wire Assemblies, 18 ga. x 32" with terminals					
			53225	White Wire Assembly, 18 ga. x 32" with terminal					
			53226	Blue Wire Assembly, 18 ga. x 32" with terminal					
			103055	Transformer 120/24V 40VA					
			63068	CL14②	3 (page 1)	93436	Packaged Thermostat and Sub/Base (MH Pkg #Y594F1048) consisting of: P/N Description See Figure 91921 Thermostat 13 (page 3) ⑨ Sub/Base 15 (page 3)		
						14747	(2) Relay		
						10159	(2) Electrical Box	1417	90° Box Connector
						3814	(2) Black Wire, 18 gauge x 32"	3815	White Wire, 18 gauge x 32"
16199	Box Connector T&B #253	16221				Offset Conduit Nipple 5/8"			
16222	Lock Nut 1/2	16354				(4) Wire Nuts 73B			
16358	(2) Anti-Short bushing	19680				Cable 3/8 x 24"			
21753	(4) Black Wire Assemblies, 18 gauge x 5"								
32550	(2) Box Covers								
53226	Blue Wire Assembly, 18 ga. x 32" with terminal								
39523	(2) White Wire Assemblies, 18 gauge x 5" with terminals								
45999	Red Wire Assembly, 18 gauge x 32" with terminal								
103055	Transformer 120/24V 40VA								
98495	CL19⑩	10 (page 2) 11 (page 2)				93435	Packaged Thermostat and Sub/Base with Summer Fan (MH Pkg #Y594F1063) consisting of: P/N Description See Figure 91921 Thermostat 13 (page 3) ⑨ Sub/Base 14 (page 3)		
						98118	Relay		
						96511	4-Screw Terminal Connector Strip		
						101241	(2) Black Wire Assemblies, 14 ga. x 8" with terminals		
			97478	Brown Wire Assembly, 18 ga. x 18" with terminals					
			98125	Purple Wire Assembly, 18 ga. x 18" with terminals					
			101798	(2) Plastic Dart Fasteners					
			98117	Open/Closed Bushing, Heyco #OCB-500					
			98496	CL20❶	10 (page 2) 11 (page 2)	93436	Packaged Thermostat and Sub/Base (MH Pkg #Y594F1063) consisting of: P/N Description See Figure 91921 Thermostat 13 (page 3) ⑨ Sub/Base 15 (page 3)		
						98118	Relay		
						96511	4-Screw Terminal Connector Strip		
						123942	Terminal Jumper		
						101241	(2) Black Wire Assemblies, 14 ga. x 8" with terminals		
97478	Brown Wire Assembly, 18 ga. x 18" with terminals								
98125	Purple Wire Assembly, 18 ga. x 18" with terminals								
101798	(2) Plastic Dart Fasteners								
98117	Open/Closed Bushing, Heyco #OCB-500								

②Not a currently available option - applied to obsolete unit heater Model Series XL, XLB, EEXL, EEXLB.


⑨Sub-base is no longer available from Reznor as a separate part.

⑩If replacing Option BF3 thermostat on a Model F/FE/B/BE, select P/N 93435; replacement relay, P/N 98118.

❶If replacing Option BF6 thermostat on a Model F/FE/B/BE, select P/N 93436; replacement relay, P/N 98118.

## 4. Thermostats Used with Electronic Modulation Gas Control Systems

**Figure 19**




**Room Override Thermostat**  
**Electronic Modulating**  
**40-90°F Range**  
**Vertical Mounting**  
**SPST, Line Voltage**

(This overriding thermostat is used on makeup air installations with electronic modulation Options AG8 or AG9.)

**P/N 24857**  
 Maxitrol #T115

**Figure 20**



**Thermostat provided with electronic modulation gas control system for heating applications, Reznor Option AG7.**


**P/N 48033**  
 Maxitrol #T107A

### Electronic Modulation Thermostat Package/Option Cross-Reference Chart and Parts List

Option Pkg P/N	Heater Option No.	Consisting of:		
		See Figure	P/N	Description
24857	CL9	19	24857	Room Override Thermostat
N/A	N/A	20	48033	Thermostat provided as part of Option AG7, electronic modulation for heating

## 5. Electronic Programmable Thermostat

**Figure 21**



**Packaged Thermostat and Sub/Base**  
 7-Day programmable  
 LCD Display  
 Battery Backup (9-volt battery required)  
 24VAC/50/60 hz Supply  
 Microprocessor Control  
 Selectable Output Staging:

- 1) 1 Heat -- 1 Cool
- 2) 1 Heat -- 2 Cool
- 3) 2 Heat -- 1 Cool
- 4) 2 Heat -- 2 Cool

Sub/Base has Auto/Cool/Off/Heat System switch and Auto/On (fan) Switch

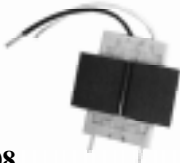
**With cover open showing programmable pad**

### Electronic Programmable Thermostat Package/Option Cross-Reference Chart and Parts List

Option Pkg P/N	Heater Option No.	Consisting of:		
		See Figure	P/N	Description
110158	CL33	21	110158	Packaged Programmable Thermostat, P/N 111421 (M/H #T7300A-1005), and Sub/Base, P/N 111422 (M/H Q7300B-1008)

## 6. Thermostat Accessories

Figure 2<sup>^</sup>

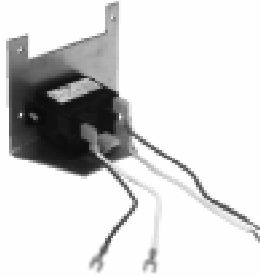


P/N 102708

Basler #B#141640-RAK

Transformer, 35VA, for Multiple Heater Control of Models F, FE, B, BE, TR and TR-H  
115 or 575 volt Master Unit Requires Change to 40 VA Transformer

Figure 23



P/N 102243

Relay, Wired and Mounted on Specially Designed Bracket, for Multiple Control of Models F, FE, B, BE, TR and TR-H  
One Required on All Master and Slave Units (maximum of six units)

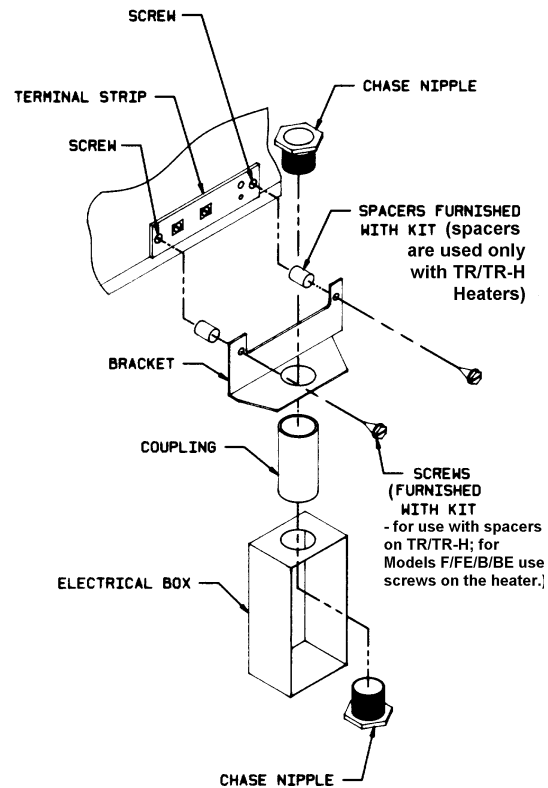
Figure 24



Thermostat Cover  
Clear Plastic  
Locking  
Vertical or Horizontal  
Mounting

P/N 91926

Figure 25 (Designed only for Models F, FE, B, BE, TR, and TR-H -- does not include thermostat)



Bracket and 2x4 outlet box are designed for field mounting to the heater. Thermostat is mounted on the outlet box. (Due to possible vibration, mercury switch thermostats should not be used with this thermostat bracket.)

### Thermostat Accessory Package/Option Cross-Reference Chart and Parts List

Option Pkg P/N	Heater Option No.	Consisting of: See Figure	P/N	Description	
63034	CL15 <sup>Ⓞ</sup>	3 (pg 1)	14747	Relay	
			10159	Electrical Box	
			32550	Box Cover	
			53224	(2) Black Wire Assemblies, 18 ga. x 32" with terminals	
			53225	White Wire Assembly, 18 ga. x 32" with terminal	
			53226	Blue Wire Assembly, 18 ga. x 32" with terminal	
98497	CL21 <sup>Ⓢ</sup>	10 (pg 2)	98118	Relay	
			11 (pg 2)	96511	4-Screw Terminal Connector Strip
		Not illustrated:			
			98117	Open/closed Bushing, Heyo #OCB-500	
			101241	(2) Black Wire Assemblies, 14 gauge x 8" long with Terminals	
			97478	Brown Wire Assembly, 18 gauge x 18" long with Terminals	
			98125	Purple Wire Assembly, 18 gauge x 18" long with Terminals	
	101798	(2) Plastic Dart Fasteners			
102248	CL31	22	102708	Transformer, 35VA	
		23	102243	(2) Relay, P/N 98118 (Essex #134-20101-101), wired and mounted on a specially designed bracket	
102249	CL32	23	102243	Relay, P/N 98118 (Essex #134-20101-101), wired and mounted on a specially designed bracket	
91926	CM1	24	91926	Thermostat Cover	
98524	CM3	25	98524	Unit-Mounted Thermostat Bracket Assembly	

<sup>Ⓞ</sup>Not a currently available option - option applied to obsolete unit heater Model Series XL, XLB, EEXL, EEXLB.

<sup>Ⓢ</sup> If replacing an Option BF5 relay on a Model F/FE/B/BE, select P/N 98118.

## 7. Thermostats, Aquastat, and Thermostat Guard for Hydronic Units

P/N	Option No.	Description
700001	HT1	40°-90°F, Low Voltage (T87F-1800), SPDT - Applies to Models HH/HV
700038	HT2	35°-95°F 120/208/230/277 volt, 4 to 8 amps, SPST (T451A-2700) - Heating only - Applies to Models HH/HV
700003	HT8	Explosion Proof, 46°-80°F, Line voltage (10.2 amps @ 120 volt; 6.5 amps @ 240 volt), SPDT (T6051B-1006) - Applies to Models HH/HV
700041	HT10	Plastic Thermostat Guard (TG500A) - Applies to Models HH/HV/HC
700009	HT11	Aquastat; Surface Mount; Pipes/Tanks; Hi-limit, Lo-limit; Circulator Controller; L60006C - Applies to Models HH/HV/HC

## 8. Cross-Reference Chart for Obsolete Thermostats

Obsolete Thermostat		Replacement Thermostat	
Reznor P/N	Manufacturer's P/N	Reznor P/N	Refer to Page No.
12459	TC99AV103A101	91919	1
11654	Y01P200A195	93435	3
11651	T91210A197	94024	3
11657	T344G200A196	93437	3
14634	TC99AV103A103	68738	1 and 2

## 9. Thermostat Terminal Symbols

R	=	Hot Side
W	=	Heat
G	=	Blower Relay or Fan
Y	=	Air Conditioning
C	=	Cold Side (Ground)

***Thomas & Betts***

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MANUFACTURER OF GAS, OIL, ELECTRIC HEATING AND VENTILATING SYSTEMS

997 7.5M Form 702-A