

Electric CER Parts
Series 2

**LINE VOLTAGE ELECTRICAL CONTROL
COMPONENTS CONTROL LIST
ELECTRICAL POWER SUPPLY – 240/60/1**

Part No.	Description	Mfr.	No.	Notes	Qty. Req'd. Per Boiler		
					24	32	40
591-550-250	HEATING ELEMENT, INCOLOY SHEATHED w/GASKET 8KW 240 VOLT	Watlow	6-22-8-2		3	4	5
590-317-523	HEATING ELEMENT GASKET, RUBBER 1 3/4"	Heatube			5	5	5
592-243-200	HEATING ELEMENT OPENING COVER PLATE	Watlow	278-62-1-1		2	1	0
512-150-147	HEATING ELEMENT CONTACTOR, DPST, 24-VOLT HOLDING COIL, 48.0 AMPS. RATING - RESISTIVE LOAD AT 240 VOLT	Honeywell	R8246A1006		3	4	5
512-050-015	LINE VOLTAGE TERMINAL AND FUSE BLOCK	Marathon	4959001		2	2	2
512-050-015	LINE VOLTAGE TERMINAL AND FUSE BLOCK	Devices	13195-511LCR		2	2	2
591-850-176	HEATING ELEMENT FUSE 50AMP 250 VOLT	Bussman	NON 50		6	8	10
511-842-361	TRANSFORMER 208/240 VOLT PRIMARY TO 24 VOLT SECONDARY, 48 VA, FOOT MOUNTING	Honeywell	At87A-1106		1	1	1

ADDITIONAL

**LINE VOLTAGE ELECTRICAL CONTROL
COMPONENTS CONTROL LIST
ELECTRICAL POWER SUPPLY – 208/60/1**

Part No.	Description	Mfr.	No.	Notes	Qty. Req'd. Per Boiler		
					24	32	40
591-550-229	HEATING ELEMENT, INCOLOY SHEATHED w/GASKET 8KW 208 VOLT	Heatube	B430786-15		3	4	5
590-317-523	HEATING ELEMENT GASKET, RUBBER 1 3/4"	Heatube			5	5	5
592-243-200	HEATING ELEMENT OPENING COVER PLATE	Watlow	278-62-1-1		2	1	0
512-150-147	HEATING ELEMENT CONTACTOR, DPST, 24-VOLT HOLDING COIL, 48.0 AMPS. RATING - RESISTIVE LOAD AT 240 VOLT	Honeywell	R8246A1006		3	4	5
512-050-015	LINE VOLTAGE TERMINAL AND FUSE BLOCK	Marathon	4959001		2	2	2
512-050-015	LINE VOLTAGE TERMINAL AND FUSE BLOCK	Devices	13195-511LCR		2	2	2
591-850-176	HEATING ELEMENT FUSE 50AMP 250 VOLT	Bussman	NON 50		6	8	10
511-842-361	TRANSFORMER 208/240 VOLT PRIMARY TO 24 VOLT SECONDARY, 48 VA, FOOT MOUNTING	Honeywell	AT87A-1106		1	1	1

Electric CER Parts
Series 2

**LINE VOLTAGE ELECTRICAL CONTROL
COMPONENTS CONTROL LIST
ELECTRICAL POWER SUPPLY – 208/60/3**

Part No.	Description	Mfr.	No.	Notes	Qty. Req'd. Per Boiler		
					24	32	40
591-550-229	HEATING ELEMENT, INCOLOY SHEATHED w/GASKET 8KW 208 VOLT	Heatube	B430786-15		3	4	5
590-317-523	HEATING ELEMENT GASKET, RUBBER 1 3/4"	Heatube			5	5	5
592-243-200	HEATING ELEMENT OPENING COVER PLATE	Watlow	278-62-1-1		2	1	0
512-150-149	HEATING ELEMENT CONTACTOR, 3PST, 24 VOLT HOLDING COIL, 50.0 AMPS. RATING - RESISTIVE LOAD AT 480 VOLT	Honeywell	DP3040A1001		3	4	5
512-050-017	LINE VOLTAGE TERMINAL AND FUSE BLOCK	Marathon	4835901		3	3	3
512-050-017	LINE VOLTAGE TERMINAL AND FUSE BLOCK	Underwriters Safety Devices	4835901		3	3	3
591-850-174	HEATING ELEMENT FUSE 30AMP 250 VOLT	Bussman	NON 30		9	12	15
511-842-361	TRANSFORMER 208/240 VOLT PRIMARY TO 24 VOLT SECONDARY, 8 VA, FOOT MOUNTING		AT87A-1106		1	1	1

**LINE VOLTAGE ELECTRICAL CONTROL
COMPONENTS CONTROL LIST
ELECTRICAL POWER SUPPLY – 240/60/3**

Part No.	Description	Mfr.	No.	Notes	Qty. Req'd. Per Boiler		
					24	32	40
591-550-249	HEATING ELEMENT, INCOLOY SHEATHED w/GASKET 8KW 240 VOLT	Watlow	6-22-8-2		3	4	5
590-317-523	HEATING ELEMENT GASKET, RUBBER 1 3/4"	Heatube			5	5	5
592-243-200	HEATING ELEMENT OPENING COVER PLATE	Watlow	278-62-1-1		2	1	0
512-150-149	HEATING ELEMENT CONTACTOR, 3PST, 24 VOLT HOLDING COIL, 50.0 AMPS. RATING - RESISTIVE LOAD AT 480 VOLT	Honeywell	DP3040A1001		3	4	5
512-050-016	LINE VOLTAGE TERMINAL AND FUSE BLOCK	Marathon	4959055		3	3	3
512-050-016	LINE VOLTAGE TERMINAL AND FUSE BLOCK	Underwriters Safety Devices	4959055		3	3	3
591-850-174	HEATING ELEMENT FUSE 30AMP 250 VOLT	Bussman	NON 30		9	12	15
511-842-361	TRANSFORMER 208/240 VOLT PRIMARY TO 24 VOLT SECONDARY, 48 VA, FOOT MOUNTING	Honeywell	AT87A-1106		1	1	1

ADDITIONAL

Electric CER Parts
Series 2

**LINE VOLTAGE ELECTRICAL CONTROL
COMPONENTS CONTROL LIST
ELECTRICAL POWER SUPPLY – 480/60/3**

Part No.	Description	Mfr.	No.	Notes	Qty. Req'd. Per Boiler		
					24	32	40
591-550-272	HEATING ELEMENT, INCOLOY SHEATHED w/GASKET 8KW 480 VOLT	Watlow	16-22-15-10		3	4	5
590-317-523	HEATING ELEMENT GASKET, RUBBER 1 3/4"	Heatube			5	5	5
592-243-200	HEATING ELEMENT OPENING COVER PLATE	Watlow	278-62-1-1		2	1	0
512-150-148	HEATING ELEMENT CONTACTOR, 3PST, 24 VOLT HOLDING COIL, 50.0 AMPS. RATING - RESISTIVE LOAD AT 480 VOLT	Hamilton Standard	1154-111111- 52000A		3	4	5
		White-Rodgers	90-160S1				
512-050-017	LINE VOLTAGE TERMINAL AND FUSE BLOCK	Marathon	4835901		3	3	3
512-050-017	LINE VOLTAGE TERMINAL AND FUSE BLOCK		13394-5CR		3	3	3
		Devices					
591-850-178	HEATING ELEMENT FUSE 15 AMP 600 VOLT	Bussman	JKS 15		9	12	15
511-842-362	TRANSFORMER 480 VOLT PRIMARY TO 24 VOLT SECONDARY, 48 VA, FOOT MOUNTING	Honeywell	AT87A-1155		1	1	1

ADDITIONAL

**WATER TRIM AND CONTROL
COMPONENTS CONTROL LIST
ELECTRICAL POWER SUPPLY – 208/60/1, 240/60/1 AND 208/60/3, 240/60/3, 480/60/3**

Part No.	Description	Mfr.	No.	Notes	Qty. Req'd. Per Boiler		
					24	32	40
562-850-089	DOOR LATCH WITH RETAINER, PUSH-ON CLIP AND KNOB	Arden			1	1	1
562-850-089	DOOR LATCH WITH RETAINER, PUSH-ON CLIP AND KNOB	Southco			1	1	1
510-350-061	CONTROL, DPST, AUTOMATIC RECYCLE (less enclosure and well) LOW LIMIT: 120-220deg. F range, 10-25 deg. F adjustable subtractive differential HIGH LIMIT: 140-240 deg. F range, 10 deg. Fixed subtractive differential	Honeywell	L6081C1010		1	1	1
592-300-006	TEMPERATURE CONTROL WELL, 3/4" N.P.T.	Honeywell	123870A		1	1	1
511-546-924	ASME PRESSURE RELIEF VALVE, SET TO RELIEVE AT 30PSIG, 3/4" N.P.T. FEMALE INLET, BRASS, SIDE OUTLET	Watts Regulator	335		1	1	1
511-546-924	ASME PRESSURE RELIEF VALVE, SET TO RELIEVE AT 30PSIG, 3/4" N.P.T. FEMALE INLET, BRASS, SIDE OUTLET	Conbraco	10-408-05		1	1	1
388-800-185	REPLACEMENT PRESSURE GAUGE KIT	Weil-McLain			1	1	1

Electric CER Parts
Series 2

**LOW VOLTAGE CONTROL CIRCUIT ELECTRICAL
CONTROL COMPONENTS CONTROL LIST**
ELECTRICAL POWER SUPPLY – 208/60/1, 240/60/1 AND 208/60/3, 240/60/3, 480/60/3

Part No.	Description	Mfr.	Mfr.'s Part No.	Notes	Qty. Req'd. Per Boiler		
					24	32	40
510-350-211	ELECTRONIC DELAY TIMER, SOLID STATE, 2 1/2 MINUTE DELAY ON MAKE, 24 VOLT	SSAC	TS121150		2	3	4
388-800-187	THERMAL TIME DELAY KIT, 15 SEC. DELAY ON MAKE, 10 SEC. DELAY ON BREAK, SPST, 24 VOLT	Weil-McLain			2	3	4
510-350-219	CIRCULATOR RELAY, SPST, 24 VOLT HOLDING COIL	White-Rodgers	184-20102-102		1	1	1
512-050-002	LOW VOLTAGE TERMINAL BLOCK	Marathon	4969057		1	1	1
512-050-002	LOW VOLTAGE TERMINAL BLOCK	Underwriters Safety Devices	13195-607LS		1	1	1

ADDITIONAL

**Electric CE Parts
Series 2**

Part No.	Description	Mfr.	Mfr.'s Part No.	Notes
318-302-100	CES & CEW SECTION	Weil-McLain	2370	
590-317-523	ELEMENT GASKET, RUBBER 1 3/4"	McGraw		
510-312-135	PRESSURE TROL	Honeywell	PA-404-A1009	
510-350-061	LIMIT CONTROL w/o WELL 140-240 DEG.	Honeywell	L6081A1010	
510-350-211	SOLID STATE TIMER 24 VOLT	SSAC	TS121150	
510-350-220	TIME DELAY CONTROL	Texas Instruments	60704A1-1	
510-350-219	PUMP RELAY CONTROL	White-Rodgers	184-20102-102	
511-114-494	LOW WATER CUTOFF 24 VOLT	McDonnell-Miller	67 W-1	
510-632-088	EXPANSION TANK w/o FILL VALVE	Amtrol	109	
511-210-423	DRAIN COCK 3/4" 1 1/2" SHANK	Conbraco	31-606-01	
511-210-433	90 DEG. FILL VALVE	Conbraco		
511-405-117	PUMP DWG. DA-E100-A ELEC. BLR	Bell & Gossett	100	
511-546-924	WATER RELIEF VALVE 30PSI 3/4" FEMALE			
511-548-020	STEAM RELIEF VALVE 15 PSI 3/4"			
511-842-365	TRANSFORMER 208/240 VOLT	Micron	B200MP7XK	
388-800-000	TRANSFORMER 480 VOLT	Micron	B200U7XK	
512-050-013	TERMINAL BLOCK	Clinch-Jones	2-140	
512-050-018	TERMINAL BLOCK	Marathon	4965700	
512-050-019	TERMINAL BLOCK	USD	313394-6CR	
512-050-021	TERMINAL BLOCK	Marathon	4947900	
512-050-023	TERMINAL BLOCK	Marathon		
512-150-147	CONTACTOR – Single Phase	Honeywell	R8246A1004	
512-150-149	CONTACTOR – Three Phase	Honeywell	DP3040A1001	
562-850-089	DOOR KNOB LATCH w/PAWL			
563-334-580	GLASS GUARD RODS 3/16" X 9 3/8"			
386-600-000	Gauge Glass kit, includes glass, gaskets, and brass washers			
591-550-164	ELEMENT w/GASKET 16KW 208 VOLT	Watlow	6-22-15-4	
591-550-165	ELEMENT w/GASKET 16KW 240 VOLT	Watlow	6-22-15-5	
591-550-166	ELEMENT w/GASKET 16KW 480 VOLT	Watlow	6-22-15-6	
591-550-229	ELEMENT w/GASKET 8KW 208 VOLT	Heatube	B430786-15	
591-550-250	ELEMENT w/GASKET 8KW 240 VOLT	Watlow	6-22-8-2	
591-850-176	FUSE 50AMP 250 VOLT	Bussman	NON 50	
591-850-179	FUSE 30AMP 600 VOLT	Bussman	JKS 30	
591-850-181	FUSE 60AMP 250 VOLT	Bussman	NON 60	
591-850-185	FUSE 10AMP	Bussman	FNM 10	
592-300-006	CONTROL WELL 3/4"			
510-218-045	STEAM GAUGE CENTER REAR MOUNT 0-30 PSI			
388-800-185	REPLACEMENT PRESSURE GAUGE KIT	Weil-McLain		
592-243-200	ELEMENT OPENING COVER PLATE	Watlow	278-62-1-1	

ADDITIONAL

Electric PER Parts Series 3

Part No.	Description	Mfr.	Mfr.'s Part No.	Notes	Qty. Req'd. Per Boiler		
					15	20	25
590-317-523	HEATING ELEMENT GASKET, RUBBER 1 3/4"	HEATUBE	-		3	4	5
510-350-061	COMBINATION LOW LIMIT/HIGH LIMIT TEMPERATURE CONTROL, DPST, AUTOMATIC RECYCLE (less enclosure and well) LOW LIMIT: 120-220 deg F range, 10-25 deg. F adjustable subtractive differential HIGH LIMIT: 140-240 deg. F range, 10deg.F fixed subtractive differential	HONEYWELL	L6081A-1010		1	1	1
510-350-211	ELECTRONIC DELAY TIMER, SOLID STATE, 2 1/2 MINUTE DELAY ON MAKE, 24 VOLT	SSAC	TS121150		2	3	4
388-800-187	THERMAL TIME DELAY KIT, 15 SEC. DELAY ON MAKE, 10SEC. DELAY ON BREAK, SPST, 24 VOLT	W-M	-		2	3	4
510-350-219	CIRCULATOR RELAY, SPST, 24 VOLT HOLDING COIL	RODGERS	184-20102-102		1	1	1
510-632-088	EXPANSION TANK w/o FILL VALVE	AMTROL	109		1	1	1
511-210-423	DRAIN COCK 3/4" 1 1/2" SHANK	CONBRACO	31-606-01		1	1	1
511-210-433	90 DEG. FILL VALVE	CONBRACO	-		1	1	1
511-405-117	PUMP DWG. DA-E100-A ELEC. BLR	BELL & GOSSET	100		1	1	1
511-546-924	ASME PRESSURE RELIEF VALVE, SET TO RELIEVE AT 30PSIG, 3/4" N.P.T. FEMALE INLET,BRASS, SIDE OUTLET	WATTS REGULATOR	335		1	1	1
511-546-924	ASME PRESSURE RELIEF VALVE, SET TO RELIEVE AT 30PSIG, 3/4" N.P.T. FEMALE INLET,BRASS, SIDE OUTLET	CONBRACO	10-408-05		1	1	1
511-842-361	TRANSFORMER 208/240 VOLT PRIMARY TO 24 VOLT SECONDARY, 48 VA, FOOT MOUNTING	HONEYWELL	AT87A-1106		1	1	1
512-050-002	LOW VOLTAGE TERMINAL BLOCK	MARATHON	4969057		1	1	1
512-050-002	LOW VOLTAGE TERMINAL BLOCK	UNDERWRITER S SAFETY DEVICE	13195-607LS		1	1	1
512-050-004	LINE VOLTAGE TERMINAL AND FUSE BLOCK (upper block)	MARATHON	496058		1	1	1
512-050-004	LINE VOLTAGE TERMINAL AND FUSE BLOCK (upper block)	UNDERWRITER S SAFETY DEVICE	13201R		1	1	1
512-050-013	LOW VOLTAGE TERMINAL AND FUSE BLOCK (lower block)	CLINCH-JONES	2-140		1	1	1
512-150-147	HEATING ELEMENT CONTACTOR, DPST, 24 VOLT HOLDING COIL	HONEYWELL	R8246A1004		3	4	5
562-850-089	DOOR KNOB LATCH w/PAWL	ARDEN	-		1	1	1
562-850-089	DOOR KNOB LATCH w/PAWL	SOUTHCO	-		1	1	1
590-317-535	CIRCULATOR GASKET (two required per unit)	GSKT	-		2	2	2
590-317-535	CIRCULATOR GASKET (two required per unit)	SPLY	-		2	2	2
591-550-135	HEATING ELEMENT, INCOLOY SHEATHED w/GASKET 5KW 240 VOLT	WATLOW	3-16-6-1		3	4	5
591-850-172	CONTROL CIRCUIT FUSE 15AMP	BUSSMAN	NON 15		1	1	1
591-850-174	HEATING ELEMENT FUSE 30AMP	BUSSMAN	NON 30		6	8	10
592-300-010	TEMPERATURE CONTROL WELL, BRASS, 3/4" N.P.T.	HONEYWELL	123870A		1	1	1
510-148-567	AUTOMATIC AIR VENT, FLOAT TYPE, 1/8" N.P.T.	TACO	400-3		1	1	1
510-350-218	PUMP TEMPERATURE CONTROL	THERM-O-DISC	TOD 60T-82		1	1	1
381-354-526	CIRCULATOR UNIVERSAL HARDWARE KIT 1 1/4" (kit contains: (1) 1 1/4" c.i. pump flange, (1) universal circulator gasket, (2) screws and nuts)	W-M	-		2	2	2
388-800-185	REPLACEMENT PRESSURE GAUGE KIT	W-M	-		1	1	1
592-243-200	HEATING ELEMENT OPENING COVER PLATE	WATLOW	278-62-1-1		2	1	-

ADDITIONAL