



RESIDENTIAL ELECTRIC REPLACEMENT PARTS LIST

Energy Saver Models



Models Covered:
M(120, 130, 140, 150,
230, 240, 250)L
M(180, 230, 265, 280, 2120)R
M(240, 250)S
M(240, 250)T
M2HE(40, 50)S
M2HE(65, 80)R
*Denotes warranty year

Effective: October, 2024
ECO 8780

**NOTE: BOTH MODEL AND SERIAL
NUMBERS ARE REQUIRED FOR
ORDERING REPLACEMENT PARTS**

Dimensions and specifications
subject to change without notice.



As required by the state of California Proposition 65.

| Item | Description | Model M230R | Model M240S | Model M240T | Model M250S | Model M250T |
|------|---|----------------|----------------|----------------|----------------|----------------|
| 1 | T&P Relief Valve | 415-40594-02 | 415-32920-01 | 415-32920-01 | 415-32920-01 | 415-32920-01 |
| 2 | Heat Trap Insert (Outlet) | 415-45167-00 | 415-45167-00 | 415-45167-00 | 415-45167-00 | 415-45167-00 |
| 3 | Hot Water Outlet Anode Magnesium ♦# | 415-55482-00 | 415-55482-00 | 415-55482-00 | 415-55482-00 | 415-55482-00 |
| | Aluminum ♦# | 415-55484-00 | 415-55484-00 | 415-55484-00 | 415-55484-00 | 415-55484-00 |
| | A420 ♦# | 415-55486-00 | 415-55486-00 | 415-55486-00 | 415-55486-00 | 415-55486-00 |
| 4 | Cover Conduit/Ground | 239-39451-00 | 239-39451-00 | 239-39451-00 | 239-39451-00 | 239-39451-00 |
| 5 | Cover Junction Box | 243-39452-00 | 243-39452-00 | 243-39452-00 | 243-39452-00 | 243-39452-00 |
| 6 | Heat Trap Insert (Inlet) | 415-45073-00 | 415-45073-00 | 415-45073-00 | 415-45073-00 | 415-45073-00 |
| 7 | Cold Water Inlet Tube Polypropylene ♦♦ | 415-51230-21 | 229-51230-08 | 415-51230-09 | 229-51230-08 | 415-51230-09 |
| 8 | Thermostat with High Limit (59T66) & Protector ▲■ | 415-51046-00 | 415-51046-00 | 415-51046-00 | 415-51046-00 | 415-51046-00 |
| | Thermostat (59T) w/ Protector ▲■ | 415-51046-00 | 415-51046-00 | 415-51046-00 | 415-51046-00 | 415-51046-00 |
| | Thermostat with High Limit (59T66) & Protector ▲ | 415-50691-00 | 415-50691-00 | 415-50691-00 | 415-50691-00 | 415-50691-00 |
| 9 | Heating Element 240V 4500W w/ Gasket* (qty 2) | 415-48642-00 | 415-48642-00 | 415-48642-00 | 415-48642-00 | 415-48642-00 |
| 10 | Thermostat Mounting Bracket | 415-50689-00 | 415-50689-00 | 415-50689-00 | 415-50689-00 | 415-50689-00 |
| 11 | Access Cover | 243-36618-02 | 243-36618-02 | 243-36618-02 | 243-36618-02 | 243-36618-02 |
| 12 | Brass Drain Valve | 415-42351-02 | 415-42351-02 | 415-42351-02 | 415-42351-02 | 415-42351-02 |
| 13 | ASSE Approved Mixing Valve | 239-51778-00 | 239-51778-00 | 239-51778-00 | 239-51778-00 | 239-51778-00 |
| 14 | Kit-Heat Trap Insert | 265-45420-00 | 265-45420-00 | 265-45420-00 | 265-45420-00 | 265-45420-00 |

♦ Order with item 2.

♦♦ Order with item 6.

▲ Thermostat protector provided with thermostat.

* For other voltage and wattage combinations, refer to heating elements on page 10 & 11.

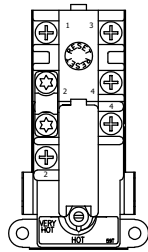
■ These parts are packaged together.

Anode may need to be cut to length.

TOP LOCATION

- Double element water heater, non-simultaneous single phase and three phase operation.

59T66T



415-51046-00

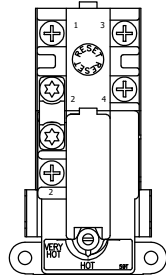
TOP LOCATION

- Double element water heater, simultaneous operation.

BOTTOM LOCATION

- Single element water heater.
- Double element water heater, non-simultaneous three phase operation.
- Double element water heater, simultaneous operation.

59T66T

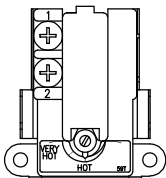


415-50691-00

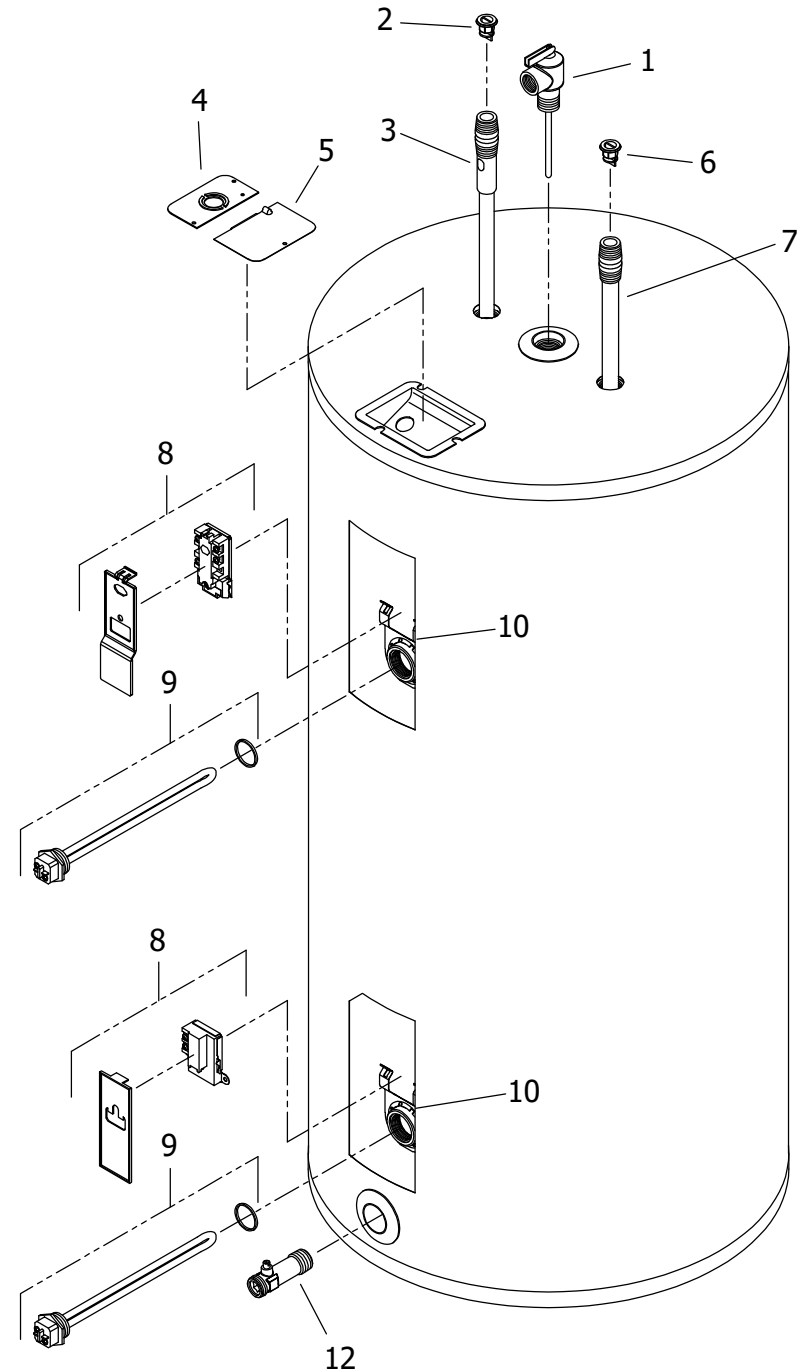
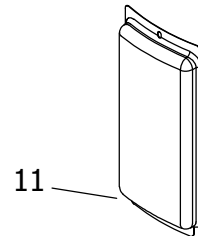
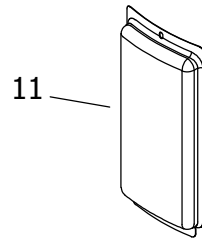
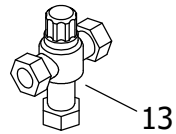
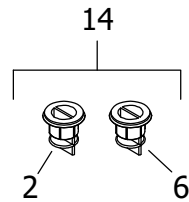
BOTTOM LOCATION

- Double element water heater, non-simultaneous single phase operation

59T



415-51046-00



| Item | Description | Model M265R | Model M280R | Model M180R | Model M2120R | Model M120L |
|------|---|----------------|----------------|----------------|-----------------|----------------|
| 1 | T&P Relief Valve | 415-32920-01 | 415-32920-01 | 415-40594-02 | 415-40594-02 | 415-32920-01 |
| 2 | Heat Trap Insert (Outlet) | 415-45167-00 | 415-45167-00 | 415-45167-00 | 415-45167-00 | 415-45167-00 |
| 3 | Hot Water Outlet Anode Magnesium ♦# | 415-55482-00 | 415-55482-00 | 415-55482-00 | 415-47780-01 | 415-55482-00 |
| | Aluminum ♦# | 415-55484-00 | 415-55484-00 | 415-55484-00 | 415-45036-01 | 415-55484-00 |
| | A420 ♦# | 415-55486-00 | 415-55486-00 | 415-55486-00 | --- | 415-55486-00 |
| 4 | Cover Conduit/Ground | 239-39451-00 | 239-39451-00 | 239-39451-00 | 239-39451-00 | 239-39451-00 |
| 5 | Cover Junction Box | 243-39452-00 | 243-39452-00 | 243-39452-00 | 243-39452-00 | 243-39452-00 |
| 6 | Heat Trap Insert (Inlet) | 415-45073-00 | 415-45073-00 | 415-45073-00 | 415-45073-00 | 415-45073-00 |
| 7 | Cold Water Inlet Tube Polypropylene ♦♦ | 415-51230-10 | 415-51230-10 | 415-51230-22 | 415-45031-01 | 415-51230-01 |
| 8 | Thermostat with High Limit (59T66) & Protector ▲■ | 415-51046-00 | 415-51046-00 | 415-51046-00 | 415-51046-00 | 415-51046-00 |
| | Thermostat (59T) w/ Protector ▲■ | 415-51046-00 | 415-51046-00 | 415-51046-00 | 415-51046-00 | 415-51046-00 |
| | Thermostat with High Limit (59T66) & Protector ▲ | 415-50691-00 | 415-50691-00 | 415-50691-00 | 415-50691-00 | 415-50691-00 |
| 9 | Heating Element 240V 4500W w/ Gasket * (qty 2) | 415-48642-00 | 415-48642-00 | 415-48642-00 | 415-48642-00 | 415-48642-00 |
| 10 | Thermostat Mounting Bracket | 415-50689-00 | 415-50689-00 | 415-50689-00 | 415-50689-00 | 415-50689-00 |
| 11 | Access Cover | 243-36618-02 | 243-36618-02 | 243-36618-02 | 243-36618-02 | 243-36618-02 |
| 12 | Brass Drain Valve | 415-42351-02 | 415-42351-02 | 415-42351-02 | 415-42351-02 | 415-42351-02 |
| 13 | ASSE Approved Mixing Valve | 239-51778-00 | 239-51778-00 | 239-51778-00 | 239-51778-00 | 239-51778-00 |
| 14 | Kit-Heat Trap Insert | 265-45420-00 | 265-45420-00 | 265-45420-00 | 265-45420-00 | 265-45420-00 |

♦ Order with item 2.

♦♦ Order with item 6.

▲ Thermostat protector provided with thermostat.

* For other voltage and wattage combinations, refer to heating elements on page 10 & 11.

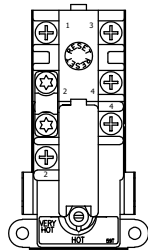
■ These parts are packaged together.

Anode may need to be cut to length

TOP LOCATION

- Double element water heater, non-simultaneous single phase and three phase operation.

59T66T



415-51046-00

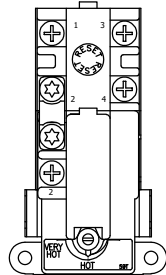
TOP LOCATION

- Double element water heater, simultaneous operation.

BOTTOM LOCATION

- Single element water heater.
- Double element water heater, non-simultaneous three phase operation.
- Double element water heater, simultaneous operation.

59T66T

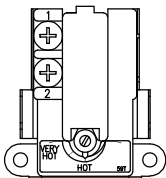


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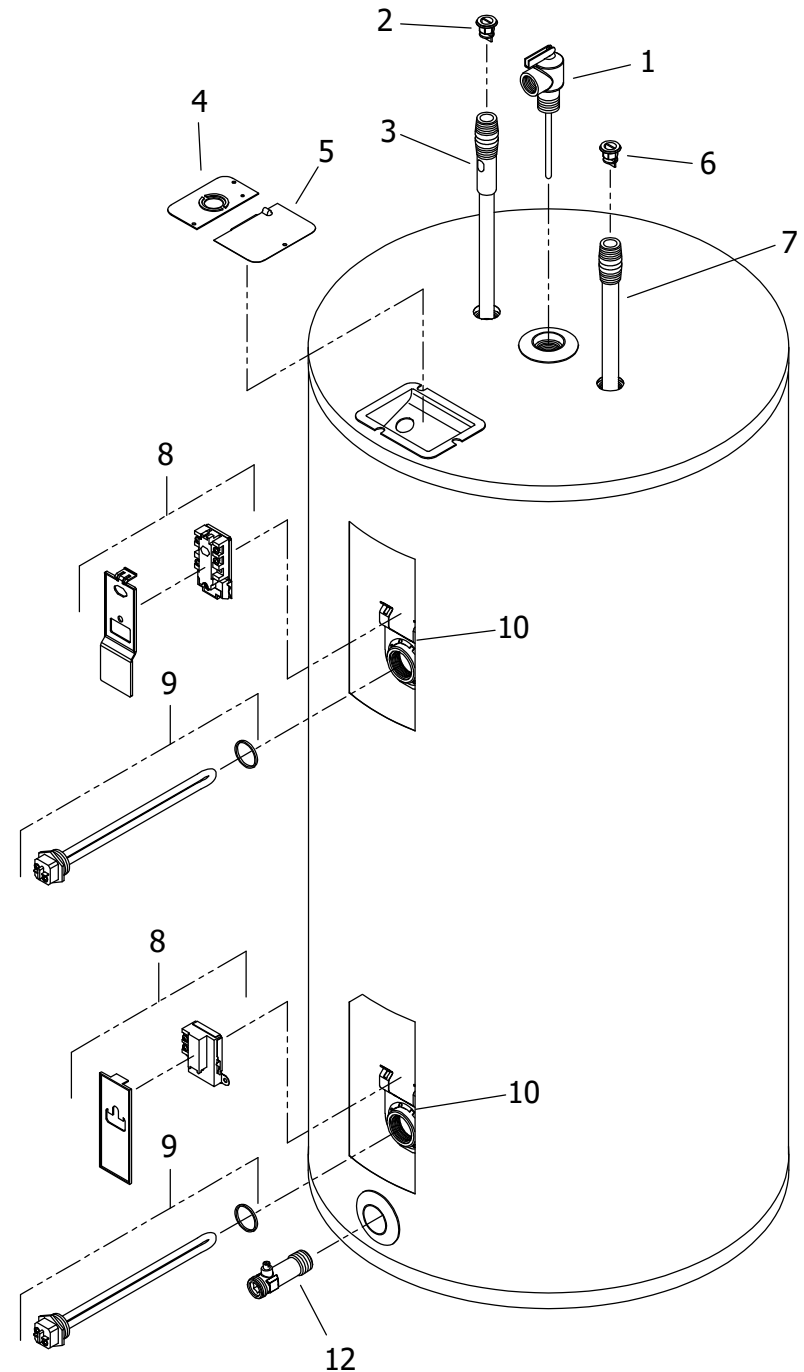
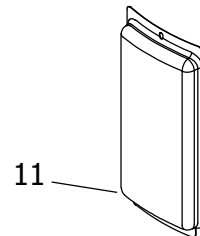
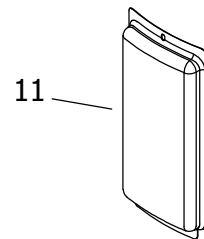
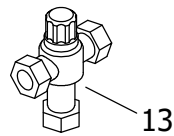
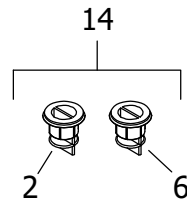
BOTTOM LOCATION

- Double element water heater, non-simultaneous single phase operation

59T



415-51046-00



| Item | Description | Model M130L | Model M230L | Model M140L | Model M240L | Model M150L |
|------|--|----------------|----------------|----------------|----------------|----------------|
| 1 | T&P Relief Valve | 415-32920-01 | 415-40594-02 | 415-32920-01 | 415-40594-02 | 415-32920-01 |
| 2 | Heat Trap Insert (Outlet) | 415-45167-00 | 415-45167-00 | 415-45167-00 | 415-45167-00 | 415-45167-00 |
| 3 | Hot Water Outlet Anode Magnesium ♦# | 415-55482-00 | 415-55482-00 | 415-55482-00 | 415-55482-00 | 415-55482-00 |
| | Aluminum ♦# | 415-55484-00 | 415-55484-00 | 415-55484-00 | 415-55484-00 | 415-55484-00 |
| | A420 ♦# | 415-55486-00 | 415-55486-00 | 415-55486-00 | 415-55486-00 | 415-55486-00 |
| 4 | Cover Conduit/Ground | 239-39451-00 | 239-39451-00 | 239-39451-00 | 239-39451-00 | 239-39451-00 |
| 5 | Cover Junction Box | 243-39452-00 | 243-39452-00 | 243-39452-00 | 243-39452-00 | 243-39452-00 |
| 6 | Heat Trap Insert (Inlet) | 415-45073-00 | 415-45073-00 | 415-45073-00 | 415-45073-00 | 415-45073-00 |
| 7 | Cold Water Inlet Tube Polypropylene ♦♦ | 229-51718-04 | 229-51718-04 | 415-51230-27 | 415-51230-27 | 415-51230-27 |
| 8 | Thermostat with High Limit (59T66) w/ Protector ▲■ | 415-51046-00 | 415-51046-00 | 415-51046-00 | 415-51046-00 | 415-51046-00 |
| | Thermostat (59T) w/ Protector ▲■ | 415-51046-00 | 415-51046-00 | 415-51046-00 | 415-51046-00 | 415-51046-00 |
| | Thermostat with High Limit (59T66) ▲ | 415-50691-00 | 415-50691-00 | 415-50691-00 | 415-50691-00 | 415-50691-00 |
| 9 | Heating Element 240V 4500W w/ Gasket* (qty 2) | 415-48642-00 | 415-48642-00 | 415-48642-00 | 415-48642-00 | 415-48642-00 |
| 10 | Thermostat Mounting Bracket | 415-50689-00 | 415-50689-00 | 415-50689-00 | 415-50689-00 | 415-50689-00 |
| 11 | Access Cover | 243-36618-02 | 243-36618-02 | 243-36618-02 | 243-36618-02 | 243-36618-02 |
| 12 | Brass Drain Valve | 415-42351-02 | 415-42351-02 | 415-42351-02 | 415-42351-02 | 415-42351-02 |
| 13 | ASSE Approved Mixing Valve | 239-51778-00 | 239-51778-00 | 239-51778-00 | 239-51778-00 | 239-51778-00 |
| 14 | Kit-Heat Trap Insert | 265-45420-00 | 265-45420-00 | 265-45420-00 | 265-45420-00 | 265-45420-00 |

♦ Order with item 2.

♦♦ Order with item 6.

▲ Thermostat protector provided with thermostat.

* For other voltage and wattage combinations, refer to heating elements on page 10 & 11.

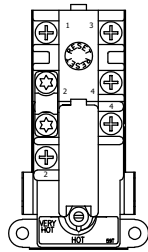
■ These parts are packaged together.

Anode may need to be cut to length

TOP LOCATION

- Double element water heater, non-simultaneous single phase and three phase operation.

59T66T



415-51046-00

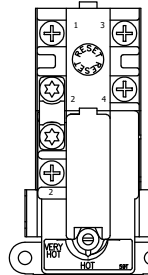
TOP LOCATION

- Double element water heater, simultaneous operation.

BOTTOM LOCATION

- Single element water heater.
- Double element water heater, non-simultaneous three phase operation.
- Double element water heater, simultaneous operation.

59T66T

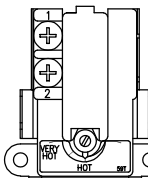


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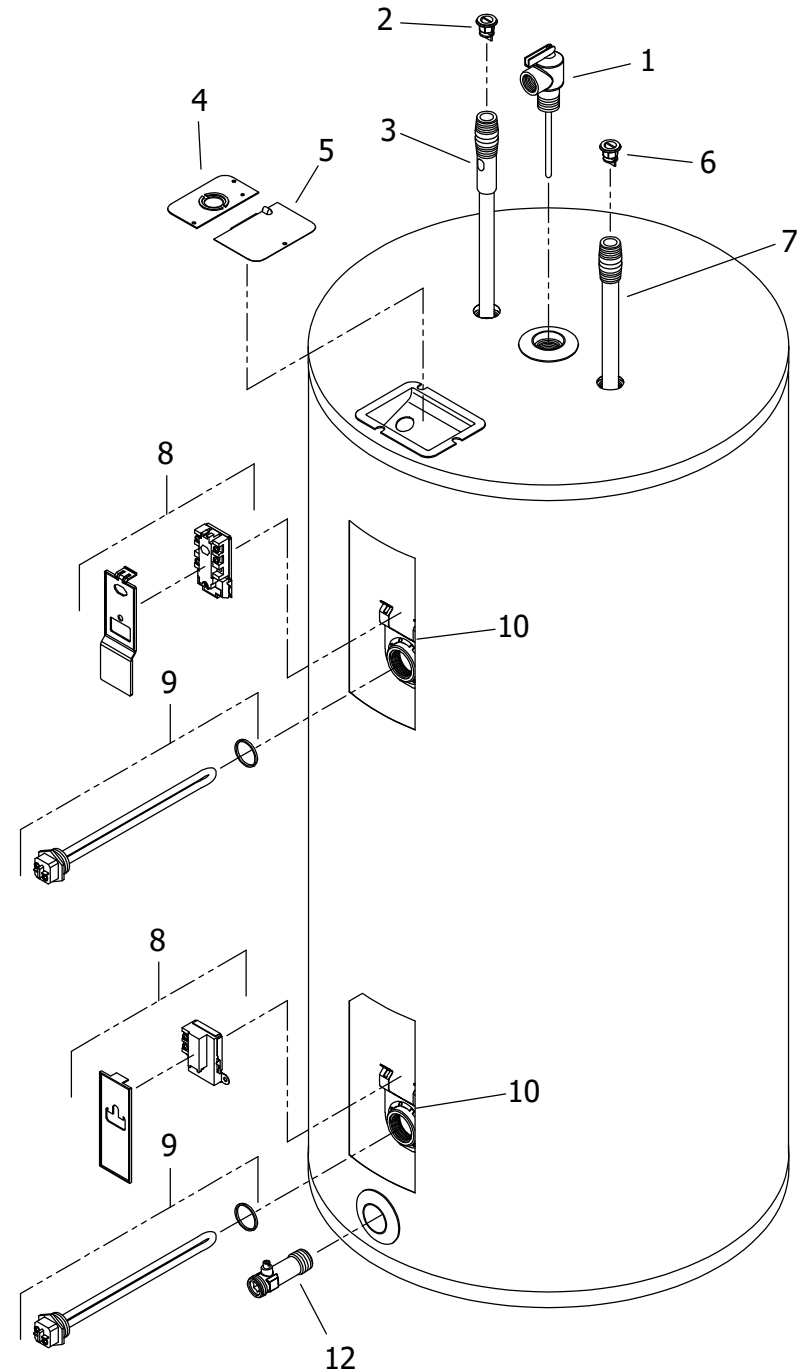
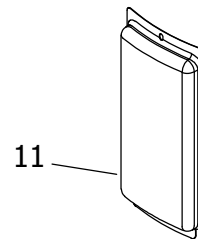
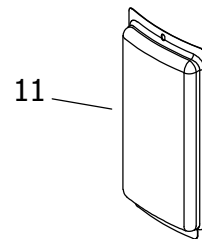
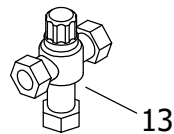
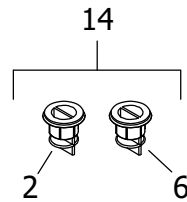
BOTTOM LOCATION

- Double element water heater, non-simultaneous single phase operation

59T



415-51046-00



| Item | Description | Model M250L | Model M2HE40S | Model M2HE50S | Model M2HE65R | Model M2HE80R |
|------|--|----------------|------------------|------------------|------------------|------------------|
| 1 | T&P Relief Valve | 415-40594-02 | 415-40594-02 | 415-40594-02 | 415-40594-02 | 415-40594-02 |
| 2 | Heat Trap Insert (Outlet) | 415-45167-00 | 415-45167-00 | 415-45167-00 | 415-45167-00 | 415-45167-00 |
| 3 | Hot Water Outlet Anode Magnesium ♦# | 415-55482-00 | 415-55482-00 | 415-55482-00 | 415-55482-00 | 415-55482-00 |
| | Aluminum ♦# | 415-55484-00 | 415-55484-00 | 415-55484-00 | 415-55484-00 | 415-55484-00 |
| | A420 ♦# | 415-55486-00 | 415-55486-00 | 415-55486-00 | 415-55486-00 | 415-55486-00 |
| 4 | Cover Conduit/Ground | 239-39451-00 | 239-39451-00 | 239-39451-00 | 239-39451-00 | 239-39451-00 |
| 5 | Cover Junction Box | 243-39452-00 | 243-39452-00 | 243-39452-00 | 243-39452-00 | 243-39452-00 |
| 6 | Heat Trap Insert (Inlet) | 415-45073-00 | 415-45073-00 | 415-45073-00 | 415-45073-00 | 415-45073-00 |
| 7 | Cold Water Inlet Tube Polypropylene ♦♦ | 415-51230-27 | 415-51230-21 | 415-51230-21 | 415-51230-22 | 415-51230-22 |
| 8 | Thermostat with High Limit (59T66) w/ Protector ▲■ | 415-51046-00 | 415-51046-00 | 415-51046-00 | 415-51046-00 | 415-51046-00 |
| | Thermostat (59T) w/ Protector ▲■ | 415-51046-00 | 415-51046-00 | 415-51046-00 | 415-51046-00 | 415-51046-00 |
| | Thermostat with High Limit (59T66) ▲ | 415-50691-00 | 415-50691-00 | 415-50691-00 | 415-50691-00 | 415-50691-00 |
| 9 | Heating Element 240V 4500W w/ Gasket * (qty 2) | 415-48642-00 | 415-48642-00 | 415-48642-00 | 415-48642-00 | 415-48642-00 |
| 10 | Thermostat Mounting Bracket | 415-50689-00 | 415-50689-00 | 415-50689-00 | 415-50689-00 | 415-50689-00 |
| 11 | Access Cover | 243-36618-02 | 243-36618-02 | 243-36618-02 | 243-36618-02 | 243-36618-02 |
| 12 | Brass Drain Valve | 415-42351-02 | 415-42351-02 | 415-42351-02 | 415-42351-02 | 415-42351-02 |
| 13 | ASSE Approved Mixing Valve | 239-51778-00 | 239-51778-00 | 239-51778-00 | 239-51778-00 | 239-51778-00 |
| 14 | Kit-Heat Trap Insert | 265-45420-00 | 265-45420-00 | 265-45420-00 | 265-45420-00 | 265-45420-00 |

♦ Order with item 2.

♦♦ Order with item 6.

▲ Thermostat protector provided with thermostat.

* For other voltage and wattage combinations, refer to heating elements on page 10 & 11.

■ These parts are packaged together.

Anode may need to be cut to length

**Heating Elements (Copper) for:
Residential Series
Light Duty (LD) Commercial Series
Medium Duty (E32) Commercial Series
Commercial (MII) Series**

| Wattage | 120 Volt | 208 Volt | 240 Volt | 277 Volt | 380 Volt |
|------------------|--------------|--------------|--------------|--------------|--------------|
| 1000W ▲ | 415-42540-01 | 415-42544-01 | 415-42546-01 | N/A | N/A |
| 1250W ▲ | N/A | N/A | 415-42544-13 | N/A | N/A |
| 1500W ▲ | 415-42540-02 | 415-42544-03 | 415-42544-01 | N/A | N/A |
| 1500W (LWD) ▲ | 415-42540-03 | N/A | 415-42544-02 | N/A | N/A |
| 2000W ▲ | 415-42540-04 | 415-42544-04 | 415-42544-03 | N/A | N/A |
| 2500W ▲ | 415-42540-05 | 415-42544-06 | 415-42544-04 | N/A | N/A |
| 3000W ▲ | 415-42540-07 | 415-42544-14 | 415-42544-15 | N/A | N/A |
| 3500W ▲▲ | N/A | 415-51333-08 | 415-42544-06 | N/A | N/A |
| 3800W ▲▲ | N/A | N/A | 415-42546-10 | N/A | N/A |
| 4000W ▲▲ | N/A | 415-42544-16 | 415-42544-14 | N/A | N/A |
| 4500W ▲▲ | N/A | 415-42544-12 | 415-51333-08 | N/A | N/A |
| 4500W (LWD) ▲▲ | N/A | N/A | 415-51333-09 | N/A | N/A |
| 5000W ▲▲ | N/A | N/A | 415-42544-10 | N/A | N/A |
| 5500W ▲▲ | N/A | N/A | 415-42544-16 | N/A | N/A |
| 6000W ▲▲ | N/A | N/A | 415-42544-12 | N/A | N/A |
| Element gasket ^ | 223-34019-00 | 223-34019-00 | 223-34019-00 | 223-34019-00 | 223-34019-00 |
| Element plug | 223-34020-00 | 223-34020-00 | 223-34020-00 | 223-34020-00 | 223-34020-00 |

(LWD) = Low Watt Density

▲ For 12" Diameter tanks and above.

▲▲ For 14" Diameter tanks and above.

* For 16" Diameter tanks and above.

** For 18" Diameter tanks and above.

^ Element gaskets should be ordered with elements.

**Heating Elements (Incoloy) for:
Residential Series
Light Duty (LD) Commercial Series
Medium Duty (E32) Commercial Series
Commercial (MII) Series**

| Wattage | 120 Volt | 208 Volt | 240 Volt | 277 Volt | 380 Volt |
|------------------|--------------|--------------|--------------|--------------|--------------|
| 1000W ▲ | N/A | 415-42545-13 | 415-42547-10 | N/A | N/A |
| 1250W ▲ | N/A | N/A | N/A | N/A | N/A |
| 1500W ▲ | 415-42541-02 | 415-42545-02 | 415-42545-13 | 415-42547-10 | 415-42551-12 |
| 1500W (LWD) ▲ | N/A | N/A | N/A | N/A | N/A |
| 2000W ▲ | N/A | 415-42545-14 | 415-42545-02 | 415-42547-07 | 415-42549-04 |
| 2500W ▲ | N/A | 415-42545-11 | 415-42545-14 | 415-42547-11 | 415-42551-13 |
| 3000W ▲ | N/A | 415-42545-12 | 415-42545-15 | 415-42547-08 | 415-42551-10 |
| 3500W ▲▲ | N/A | 415-51328-07 | 415-42545-11 | N/A | 415-42551-05 |
| 3800W ▲▲ | N/A | N/A | 415-42547-15 | N/A | N/A |
| 4000W ▲▲ | N/A | 415-42545-17 | 415-42545-12 | 415-42547-03 | 415-42551-16 |
| 4500W ▲▲ | N/A | 415-42545-19 | 415-51328-07 | 415-42547-12 | 415-42551-17 |
| 4500W (LWD) ▲▲ | N/A | N/A | N/A | N/A | N/A |
| 5000W ▲▲ | N/A | 415-42543-04 | 415-42545-18 | 415-42547-15 | 415-42551-18 |
| 5500W ▲▲ | N/A | 415-42543-05 | 415-42545-17 | 415-42547-13 | 415-42549-06 |
| 6000W ▲▲ | N/A | 415-42543-06 | 415-42545-19 | 415-42547-14 | 415-42549-05 |
| Element gasket ^ | 223-34019-00 | 223-34019-00 | 223-34019-00 | 223-34019-00 | 223-34019-00 |
| Element plug | 223-34020-00 | 223-34020-00 | 223-34020-00 | 223-34020-00 | 223-34020-00 |

(LWD) = Low Watt Density

Element wrench *** 415-35897-12

Adapt-a-flange kit *** 265-36968-12

*** For use with residential, LD, E32, and MII series heating elements only. Not for use with commercial "A" series heating elements.

▲ For 12" Diameter tanks and above.

▲▲ For 14" Diameter tanks and above.

* For 16" Diameter tanks and above.

** For 18" Diameter tanks and above.

^ Element gaskets should be ordered with elements.



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For U.S. and Canada field service, contact your professional installer or local Bradford White sales representative.

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