



**BRADFORD WHITE**<sup>®</sup>  
W A T E R   H E A T E R S

**RESIDENTIAL SOLAR REPLACEMENT PARTS LIST**  
**“MS” Series Models**



**Models Covered:**

MS65R\*SS

MS80R\*SS

MS120R\*SS

(\* Denotes Warranty Years)

Includes Hydrojet<sup>®</sup>  
Total Performance System

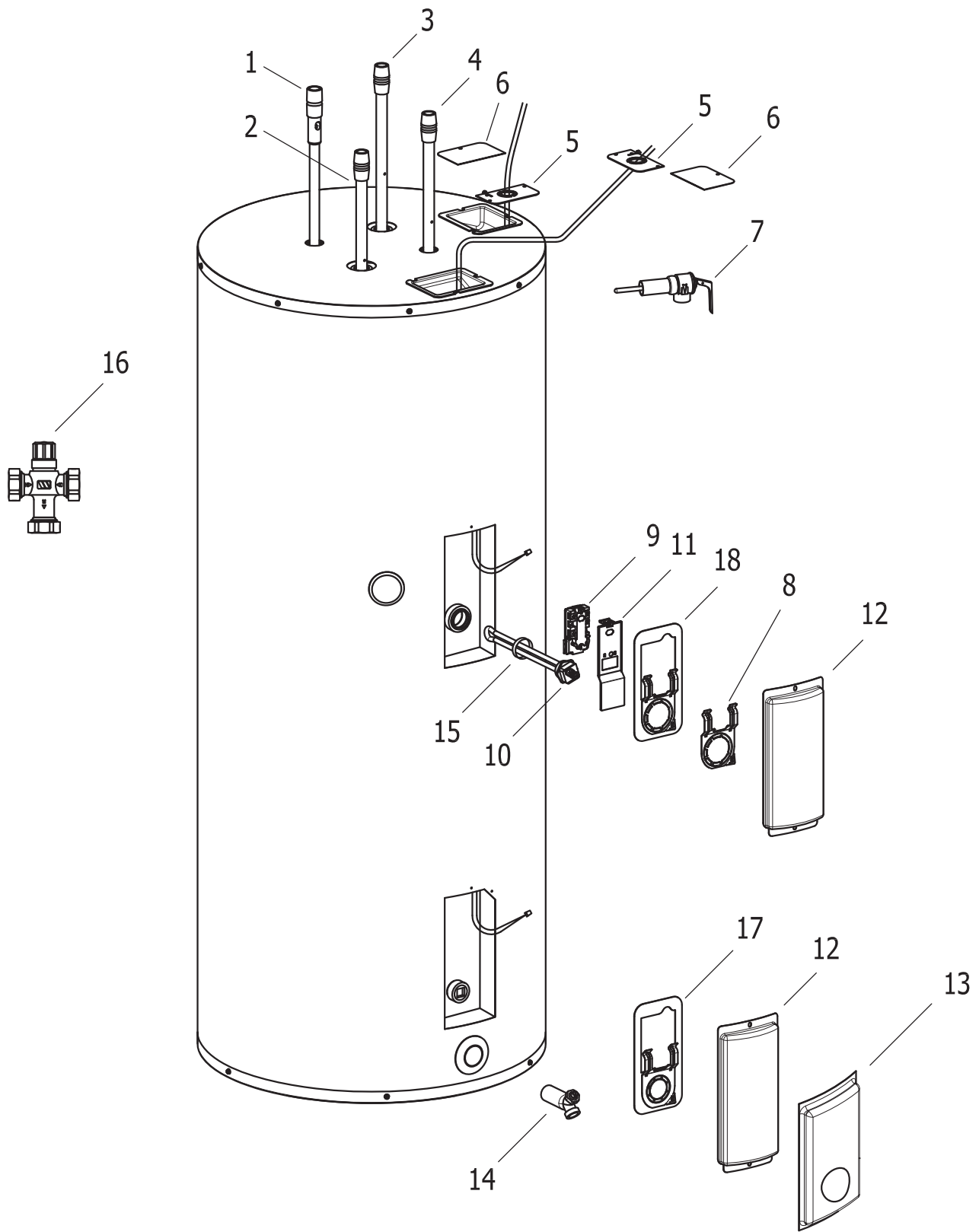
**Effective: August, 2020**  
**ECO 8255**

**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	Model	Model
		MS65R*SS	MS80R*SS	MS120R*SS
1	Hot Outlet Anode Magnesium	224-47776-12	224-47776-13	224-47776-19
2	Dip Tube Pump Suction Polypropylene Polysulfone	229-51534-06	229-51534-06	229-51534-18
3	Dip Tube Collector Return Polypropylene Polysulfone	229-51534-05	229-51534-05	229-51534-17
4	Dip Tube Cold Water Inlet Polypropylene Polysulfone	229-51230-23	229-51230-23	229-51230-22
5	Cover Conduit/Ground	243-39451-00	243-39451-00	243-39451-00
6	Cover Junction Box	243-39452-00	243-39452-00	243-39452-00
7	T&P Valve	230-40594-02	230-40594-02	230-40594-02
8	Solar/Thermostat Mounting Bracket	415-50689-00 <sup>1</sup>	415-50689-00 <sup>1</sup>	415-50689-00 <sup>1</sup>
9	Thermostat with High Limit	219-50691-00	219-50691-00	219-50691-00
10	Heating Element 240V/4500W	415-48642-00	415-48642-00	415-48642-00
11	Thermostat Protector	223-40399-00	223-40399-00	223-40399-00
12	Access Cover	243-36618-02	243-36618-02	243-36618-02
13	Access Cover w/Collector Supply Opening	- - -	243-41246-00	243-41246-00
14	Brass Drain Valve	265-42351-02	265-42351-02	265-42351-02
15	Element Gasket	223-34019-00	223-34019-00	223-34019-00
16	ASSE Approved Mixing Valve	239-51778-00	239-51778-00	239-51778-00
17	Solar Bracket	243-51282-01 <sup>2</sup>	243-51282-01 <sup>2</sup>	243-51282-01 <sup>2</sup>
18	Solar/Thermostat Mounting Bracket	243-51282-02 <sup>2</sup>	243-51282-02 <sup>2</sup>	243-51282-02 <sup>2</sup>

\* Denotes Warranty Years

<sup>1</sup> For Serial Numbers Prior to GL14189366

<sup>2</sup> For Serial Numbers After and Including GL14189366

## Heating Elements (Incoloy):

Wattage	120 Volt	208 Volt	240 Volt	277 Volt	380 Volt	415 Volt	480 Volt	600 Volt
1000W	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1250W	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1500W	415-42541-02	415-42545-02	415-42545-13	N/A	415-42551-12	415-42551-11	N/A	N/A
1500W (LWD)	N/A	N/A	N/A	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	415-42551-12	415-42553-01	N/A
2500W	N/A	415-42545-11	415-42545-14	N/A	415-42551-13	N/A	N/A	N/A
3000W	N/A	415-42545-12	415-42545-15	415-42547-08	415-42551-10	415-42551-13	415-42553-08	N/A
3500W	N/A	415-51328-07	415-42545-11	N/A	415-42551-14	415-42551-10	N/A	N/A
3800W	N/A	N/A	415-42547-15	N/A	N/A	N/A	N/A	N/A
4000W	N/A	415-42545-17	415-42545-12	415-42547-03	415-42551-16	415-42551-14	415-42553-03	N/A
4500W	N/A	415-42545-19	415-51328-07	415-42547-12	415-42551-17	415-42551-15	415-42553-11	N/A
4500W (LWD)	N/A	N/A	N/A	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	415-42551-16	415-42553-12	N/A
5500W	N/A	415-42543-05	415-42545-17	415-42547-13	415-42549-06	415-42551-17	415-42553-13	N/A
6000W	N/A	415-42543-06	415-42545-19	415-42547-14	415-42549-05	415-42551-18	415-42553-14	N/A
Element gasket ^	223-34019-00	223-34019-00	223-34019-00	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	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.

^ Element gaskets should be ordered with elements.

## Heating Elements (Copper):

Wattage	120 Volt	208 Volt	240 Volt	277 Volt	380 Volt	415 Volt	480 Volt	600 Volt
1000W	415-42540-01	415-42544-01	415-42546-01	N/A	N/A	N/A	N/A	N/A
1250W	N/A	N/A	415-42544-13	N/A	N/A	N/A	N/A	N/A
1500W	415-42540-02	415-42544-03	415-42544-01	415-42546-01	415-42551-12	N/A	415-42553-09	N/A
1500W (LWD)	415-42540-03	N/A	415-42544-02	N/A	N/A	N/A	N/A	N/A
2000W	415-42540-04	415-42544-04	415-42544-03	415-42547-07	415-42549-04	415-42551-12	415-42553-01	N/A
2500W	415-42540-05	415-42544-06	415-42544-04	415-42547-11	415-42551-13	415-42549-04	415-42553-10	N/A
3000W	415-42540-07	415-42544-14	415-42544-15	415-42547-08	415-42551-10	415-42551-13	415-42553-08	N/A
3500W	N/A	415-42544-08	415-42544-06	N/A	415-42551-14	415-42551-10	N/A	N/A
3800W	N/A	N/A	415-42546-10	N/A	N/A	N/A	N/A	N/A
4000W	N/A	415-42544-16	415-42544-14	415-42547-03	415-42551-16	415-42551-14	415-42553-03	N/A
4500W	N/A	415-42544-12	415-42544-08	415-42547-12	415-42551-17	415-42551-15	415-42553-11	N/A
4500W (LWD)	N/A	N/A	220-51333-08	N/A	N/A	N/A	N/A	N/A
5000W	N/A	415-42543-04	415-42544-10	415-42546-10	415-42551-18	415-42551-16	415-42553-12	N/A
5500W	N/A	415-42543-05	415-42544-16	N/A	415-42549-06	415-42551-17	N/A	N/A
6000W	N/A	415-42543-06	415-42544-12	415-42547-14	415-42549-05	415-42551-18	415-42553-14	N/A
Element gasket ^	223-34019-00	223-34019-00	223-34019-00	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	223-34020-00	223-34020-00	223-34020-00

(LWD) = Low Watt Density

^ Element gaskets should be ordered with elements.

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Wattage	120 Volt	208 Volt	240 Volt	277 Volt	380 Volt	415 Volt	480 Volt	600 Volt
1000W	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1250W	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1500W	415-42541-02	415-42545-02	415-42545-13	N/A	415-42551-12	415-42551-11	N/A	N/A
1500W (LWD)	N/A	N/A	N/A	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	415-42551-12	415-42553-01	N/A
2500W	N/A	415-42545-11	415-42545-14	N/A	415-42551-13	N/A	N/A	N/A
3000W	N/A	415-42545-12	415-42545-15	415-42547-08	415-42551-10	415-42551-13	415-42553-08	N/A
3500W	N/A	415-51328-07	415-42545-11	N/A	415-42551-14	415-42551-10	N/A	N/A
3800W	N/A	N/A	415-42547-15	N/A	N/A	N/A	N/A	N/A
4000W	N/A	415-42545-17	415-42545-12	415-42547-03	415-42551-16	415-42551-14	415-42553-03	N/A
4500W	N/A	415-42545-19	415-51328-07	415-42547-12	415-42551-17	415-42551-15	415-42553-11	N/A
4500W (LWD)	N/A	N/A	N/A	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	415-42551-16	415-42553-12	N/A
5500W	N/A	415-42543-05	415-42545-17	415-42547-13	415-42549-06	415-42551-17	415-42553-13	N/A
6000W	N/A	415-42543-06	415-42545-19	415-42547-14	415-42549-05	415-42551-18	415-42553-14	N/A
Element gasket ^	223-34019-00	223-34019-00	223-34019-00	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	223-34020-00	223-34020-00	223-34020-00

(LWD) = Low Watt Density

Element wrench \*\*\* 415-35897-12

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## Heating Elements (Copper):

Wattage	120 Volt	208 Volt	240 Volt	277 Volt	380 Volt	415 Volt	480 Volt	600 Volt
1000W	415-42540-01	415-42544-01	415-42546-01	N/A	N/A	N/A	N/A	N/A
1250W	N/A	N/A	415-42544-13	N/A	N/A	N/A	N/A	N/A
1500W	415-42540-02	415-42544-03	415-42544-01	415-42546-01	415-42551-12	N/A	415-42553-09	N/A
1500W (LWD)	415-42540-03	N/A	415-42544-02	N/A	N/A	N/A	N/A	N/A
2000W	415-42540-04	415-42544-04	415-42544-03	415-42547-07	415-42549-04	415-42551-12	415-42553-01	N/A
2500W	415-42540-05	415-42544-06	415-42544-04	415-42547-11	415-42551-13	415-42549-04	415-42553-10	N/A
3000W	415-42540-07	415-42544-14	415-42544-15	415-42547-08	415-42551-10	415-42551-13	415-42553-08	N/A
3500W	N/A	415-42544-08	415-42544-06	N/A	415-42551-14	415-42551-10	N/A	N/A
3800W	N/A	N/A	415-42546-10	N/A	N/A	N/A	N/A	N/A
4000W	N/A	415-42544-16	415-42544-14	415-42547-03	415-42551-16	415-42551-14	415-42553-03	N/A
4500W	N/A	415-42544-12	415-42544-08	415-42547-12	415-42551-17	415-42551-15	415-42553-11	N/A
4500W (LWD)	N/A	N/A	220-51333-08	N/A	N/A	N/A	N/A	N/A
5000W	N/A	415-42543-04	415-42544-10	415-42546-10	415-42551-18	415-42551-16	415-42553-12	N/A
5500W	N/A	415-42543-05	415-42544-16	N/A	415-42549-06	415-42551-17	N/A	N/A
6000W	N/A	415-42543-06	415-42544-12	415-42547-14	415-42549-05	415-42551-18	415-42553-14	N/A
Element gasket ^	223-34019-00	223-34019-00	223-34019-00	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	223-34020-00	223-34020-00	223-34020-00

(LWD) = Low Watt Density

^ Element gaskets should be ordered with elements.



## United States

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

## International

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