

# MSB ELECTRONIC CONTROLS AND EZ CONNECT SUBMITTAL SHEET




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Job Name: \_\_\_\_\_

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Location: \_\_\_\_\_

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Architect/Engineer: \_\_\_\_\_

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Wholesaler: \_\_\_\_\_

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Number of Heaters:	BTU/Hr Input:
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Notes: \_\_\_\_\_

## FEATURES AND BENEFITS

- Modulating technology with up to 327:1 Turndown (25 units with MSB electronic controls)
  - 15,200 Btuh to 5 Million Btuh
  - 0.26 gpm to 245 gpm hot water flow range
- Each MSB-M board will connect up to 5 water heaters using the MSB-C1 kits.
- Up to 5 MSB-M boards can be connected together with communication cables (MSB-C2 kits) allowing up to 25 water heaters to operate as a single system.
- When multiple water heaters are operating, they will attempt to supply equal amounts of hot water.
- The temperature setting for all of the connected water heaters is controlled by the temperature controller connected to the water heater with the Master MSB Board. Temperature controllers connected to the other units will provide maintenance codes for their respective units.
- If a water temperature over 140 degree F is desired, then an MCC-91-2 controller needs to be connected to Master Control Board.
- The order in which each water heater operates is occasionally rotated to ensure equal usage among the entire system.
- Detailed installation instructions are provided with each of the kits.  
NOTE: For tankless only systems, reference MSB installation instructions to ensure distance between racks do not exceed MSB communication cable length.

\* The Rinnai EZConnect™ is specifically designed for connecting only 2 water heaters.

## OPTIONS

	MSB-M Kit
	MSB-C1 Kit
	MSB-C2 Kit
	EZ-Connect™



## MSB Control System and EZConnect

- Each MSB-M board will connect up to 5 water heaters using the MSB-C1 kits.
- Up to 5 MSB-M boards can be connected together with communication cables (MSB-C2 kits) allowing up to 25 water heaters to operate as a single system.
- An MSB system could have an operating range of 15,200 BTU to as great as 5 million BTU. In terms of flow rate, 0.4 gpm to 245 gpm.
- When multiple water heaters are operating, they will attempt to supply equal amounts of hot water.
- The temperature setting for all of the connected water heaters is controlled by the temperature controller connected to the water heater with the Master MSB Board. Temperature controllers connected to the other units will provide maintenance codes for their respective units.
- If a water temperature over 140 degree F is desired, then an MCC-91-2 controller needs to be connected to Master Control Board
- The order in which each water heater operates is occasionally rotated to ensure equal usage among the entire system.
- Detailed installation instructions are provided with each of the kits.

NOTE: For tankless only systems, reference MSB installation instructions to ensure distance between racks do not exceed MSB communication cable length.

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No. of water heaters	Number of Components Required		
	MSB-M	MSB-C1	MSB-C2
2*	1	NA	NA
3	1	1	NA
4	1	2	NA
5	1	3	NA
6	2	2	1
7	2	3	1
8	2	4	1
9	2	5	1
10	2	6	1
11	3	5	2
12	3	6	2
13	3	7	2
14	3	8	2
15	3	9	2
16	4	8	3
17	4	9	3
18	4	10	3
19	4	11	3
20	4	12	3
21	5	11	4
22	5	12	4
23	5	13	4
24	5	14	4
25	5	15	4

### MSB-M kit includes

- Control board
- Cable A (23 in, 585 mm)
- Cable B (9.8 ft, 3 m)
- Brackets, ties, and screws
- Instructions

### MSB-C1 kit includes

- Cable B (9.8 ft, 3 m)
- Brackets, ties, and screws
- Instructions

### MSB-C2 kit includes

- MSB Cable (13.1 ft, 4 m)
- Terminal connectors
- Instructions