

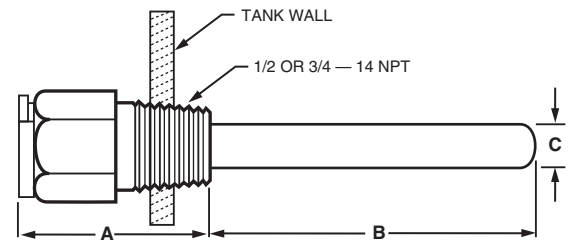
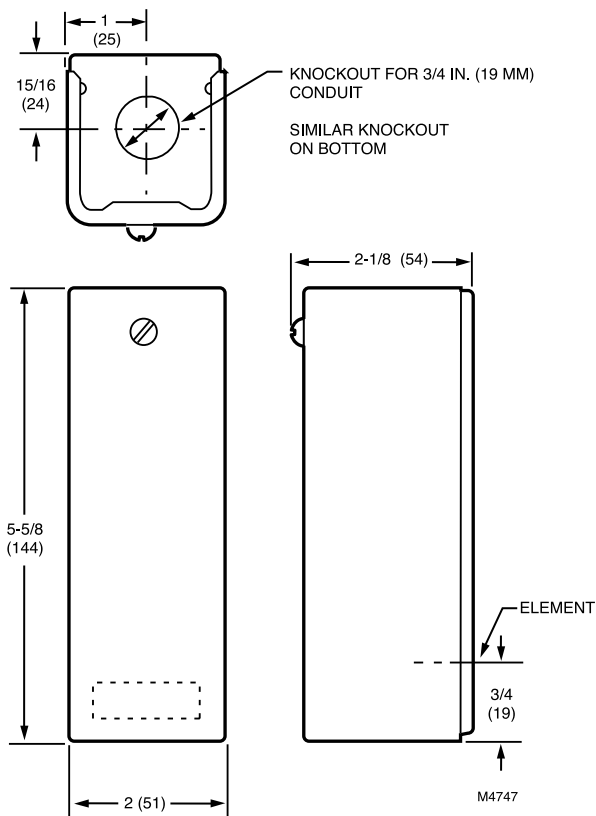
L8100 Aquastat® Controller



L8100A,B, and C are immersion type controllers for regulating and limiting the tank temperature in water heaters. As the water temperature rises past the setpoint, the controller switches off the gas valve.

- Regulates temperature and provides energy cutoff (ECO) action on a temperature rise past the setpoint.
- Includes a second sensing element that senses average water temperature to minimize stacking.
- Fluid-filled element operates Micro Switch™ SPST snap-acting switch.
- ECO switch interrupts the thermocouple circuit or main valve before tank reaches 210 F (99 C) maximum temperature.
- Includes factory-installed immersion well on controller.
- Internal adjustment screw.
- Special switch terminal provides three-wire hookup from Aquastat® controller to gas valve.

Dimensions in inches (millimeters)



	CONTROLLER WELL		REMOTE WELL	
	IN.	MM	IN.	MM
A INSULATION DEPTH	2-1/4	57	1-1/2 OR 2-1/2	38 OR 64
B INSERTION DEPTH	5	127	3	76
C WELL DIAMETER	7/16	11	7/16	11

M4746

Case Dimensions: 5 5/8 in. high x 2 in. wide x 2 1/8 in. deep (136 mm high x 51 mm wide x 54 mm deep)

Temperature Rating (ECO) Energy Cutoff: 190 F

Electrical Ratings

Millivolt: 2A maximum at 24 Vac.

Maximum Ambient Temperature: Maximum Tank: 210 F (Maximum Tank: 99 C)

Operating Temperature Range: 100 F to 180 F (38 C to 82 C)

Differential Temperature: Controller: 5 F, fixed. Energy Cutoff Switch: 20 F, fixed (Controller: 3 C fixed; Energy Cutoff Switch: 11 C fixed.)

Approvals

American Gas Association IAS: Design Certified: Report Number 23-11B

Underwriters Laboratories, Inc: UL Component Recognized: File No. MP466, Guide No. MBPR2

Product Number	Application	Bulb Size		Capillary Length	Insulation Depth		Switching Action	Mounting	Includes
		(inch)	(mm)	(inch)	(inch)	(mm)			
L8100B1037/U	High Limit	3/8 in.	10 mm	42 in.	controller well: 2 1/4 in. remote well: 1 1/2 or 2 1/2 in.	controller well: 57 mm, remote well: 38 mm or 64 mm	SPST, contacts break on temperature rise.	Immersion Well	—
L8100B1094/U	High Limit	3/8 in.	10 mm	54 in.	controller well: 2 1/4 in. remote well: 1 1/2 or 2 1/2 in.	controller well: 57 mm, remote well: 38 mm or 64 mm	SPST, contacts break on temperature rise.	Immersion Well	Two zinc plated wells and one well clamp for remote well.
L8100B1128/U	High Limit	3/8 in.	10 mm	39 in.	1 1/2 in.	38 mm	SPST, contacts break on temperature rise.	Immersion Well	—