

RBT-3000 Low Water Cut-off Fuel Economizer

The RBT-3000 is a combination Low-Water Safety Cut-Off and Fuel-Saving controller for residential heating systems. The Low Water Cut-Off is specifically designed to provide burner cut-off if there is an unsafe water loss, which can result in a broken or leaking radiator or pipe, or a cracked section in the boiler. The energy saving feature reduces: fuel consumption, wear on boiler parts and burner emissions, by actively managing the burner cycling, in conjunction with the boiler operating-control to the to properly match boiler-output to the required load. This controller indicates actual savings on burner cycle by cycle basis and also indicates the averages of these cycles. All programmable parameters are stored in non-volatile memory.

Features:

- For hot water boilers up to 400,000 BTU input
- Reduces fuel consumption an average of 10% to 20%
- Reduces maintenance and extends boiler life
- Increased savings without replacing existing controls
- Illuminated LCD Display
- Fail-safe operation
- Pre-programming for most installations
- Easily installed plug-in sensors
- LWCo test button
- 20,000 ohms probe sensitivity
- Self-cleaning probe

Ordering Information

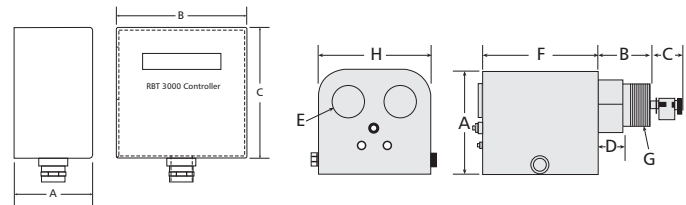
Model Number	Part Number	Description
RBT-3000	153605	LWCO & Fuel Economizer
RBT-TS	354084	Temperature Sensor - DHW
RBT_EC	354085	Junction Box

Control Box - Dimensions, in. (mm)

A	B	C
2½ (63)	4 (101)	4 (101)

Remote Sensor - Dimensions, in. (mm)

A	B	C	D	E	F	G NPT	H
2¾ (70)	1⅝ (51)	1⅜ (35)	¾ (20)	⅞ (22)	3⅜ (99)	¾	3⅜ (81)



Control Box

Remote Sensor

Electric Ratings

Power Input: 24, 115 VAC + 10%/-15%,
3 Watts maximum, 50/60Hz

Control circuit Input:
24, 115 VAC ± 10%, 0.1A maximum Burden

Relay Contact:
Form C, 7.4A @ 120 VAC

Low-Water Cut-Off probe

LWCO Probe:
Low Voltage (24 VAC) Conductance Type
Maximum Water Pressure: 160 psi (11kg/cm²)
Maximum Water Temperature: 250°F, (121°C)

Environmental Conditions

For Indoor Use

Rated Ambient Temperature
32° - 120°F (0° - 49°)
Maximum Rh 85% non-condensing