L8124A,C,E,L and M Aquastat® Relays

INSTALLATION INSTRUCTIONS

APPLICATION

These immersion type controllers are used with forced hydronic heating systems that include domestic hot water service. All models provide high limit, low limit and circulator control. Table 1 lists the various models and their applications.

These Aquastat® relays have a diaphragm powerhead and MicroSwitch™ assembly that respond to temperature changes in the boiler water. L8124 can provide multizone control by using a separate circulator and R845 Relay for each zone. L8124E and L have large transformers and extra terminals for supplying power to low voltage valves. L8124L includes a large transformer and extra terminals for low voltage zone valves. L8124M is for use in a wood-coal/gas-oil multifuel heating system. Circulator is independently controlled by the thermostat.

Do not use these Aquastat® Relays where the pressure can exceed 100 psi (690 kPa) on the bulb if inserted directly or 200 psi (1380 kPa) when using an immersion well, or where the ambient temperature can exceed 150°F (66°C) at the case or 265°F (129°C) at the sensing element.

SPECIFICATIONS

Low Limit:

Setting: 110°F to 220°F (43°C to 104°C), adjustable. Differential: 10°F to 25°F (6°C to 14°C), adjustable.

High Limit:

Setting: 130°F to 240°F (54°C to 116°C), adjustable. Differential: 10°F (6°C), fixed.



MARNING

Explosion Hazard. Can cause serious injury, death or property

Use this product only in systems with a pressure relief valve.

Table 1. Model Descriptions.

| Model Number | Burner Control Circuit | Can Be Used For Multizone With Circulators ^a | No. of V8043 Zone Valves Powered Without Additional Transformer | Electrical Ratings | |
|-----------------|------------------------------|---|--|--|--|
| | | | | Burner Circuit | Circulator Circuit |
| L8124A | 120V | Yes | | Same as L8124A,C,L circulator rating. | 120 Vac: 7.4A (full load), 44.4A (locked rotor). 240 Vac: 3.7A (full load), 22.2A (locked rotor). |
| L8124C | | | | | |
| L8124L | | | 3 | | |
| L8124E | 24V | | 2 | 1.25A at 24 Vac; 30 VA (total load) B ₁ -B ₂ , T _V -Z. | |
| L8124M | 120V | | | Same as L8124A. | None. |

Multizone control can be provided by using a separate circulator and R845 Relay for each zone.



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Honeywell L8124a Manual

M Mark

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