



Tools for Scientists®



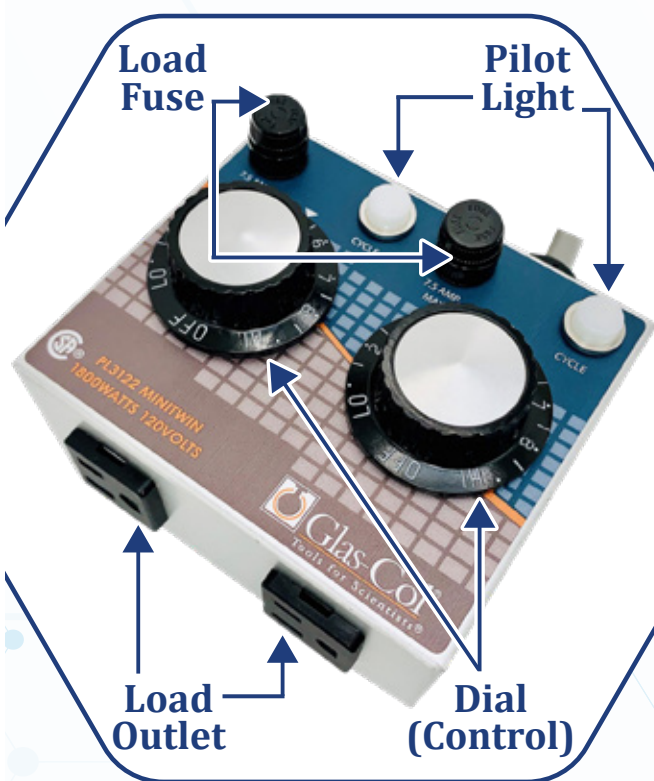
## Description and Operation of Minitrol and Minitwin

The Glas-Col Minitrol and Minitwin are manually adjusted power controls of percentage-timer design. They are designed to provide full-line voltage to load from 5-1/2% to 100% of time, depending on the dial position. The OFF position positively breaks both sides of line. The controls can be used on any non-inductive load up to rated capacity, and smaller fuses may be used for protection of very small loads.

These controls effectively regulate Glas-Col heating mantles, tapes and cords. Also, they may be used for small furnaces or ovens, hot plates, dies or other applications requiring infinite control.

The maximum combined load for the PL3122 Minitwin is 1800 Watts (15 amps). Minitwin may be used for controlling two separate heating circuits of the same mantle or two separate mantles. The heating circuits may have the same or different power ratings up to 900 Watts (7.5 amps) at 120 Volts.

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Safety Emporium  
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## Description and Operation of Minitrol and Minitwin

### Operation:

Operation of the control is regulated by the operator and does not utilize a sensing element. After a desired temperature has been determined on the initial run, a simple resetting of the dial offers control for repeated operations.

- 1.) Turn knob to OFF position.
- 2.) Plug device into the 3-wire outlet of the control.
- 3.) Insert plug of the control cord into 3-wire wall or bench receptacle.
- 4.) Adjust knob to desired setting. The pilot (cycle) light is connected across the output side of the control and indicates power to load.

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### PL312 and PL3122

#### Typical Times in Seconds

Dial Settings	On	Off	Total Cycle	% Active (Percentage of current passage)
LO	4.00	50.00	54.00	7.41%
1	4.00	50.00	54.00	7.41%
2	4.20	31.00	35.20	11.93%
3	4.60	20.10	24.70	18.62%
4	5.20	14.60	19.80	26.26%
5	6.00	11.90	17.90	33.52%
6	6.40	10.40	16.80	38.10%
7	7.50	9.00	16.50	45.45%
8	9.80	7.50	17.30	56.65%
9	Does not Go Off	Does not Go Off	Does not Go Off	100%
HI	Does not Go Off	Does not Go Off	Does not Go Off	100%

These regulators should not be exposed to temperatures above 125°F (52°C)



Catalog Numbers	Power
PL312	1440 watts, 12A, 120V
PL3122	1800 watts, 15A, 120V

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## Limited Warranty:

See the current Glas-Col warranty policy located under the General Sales Policy on the Glas-Col website at [www.glascol.com](http://www.glascol.com)

## Catalogs:

Glas-Col manufactures a complete line of heating mantles, heating tapes and cords, power controls, liquid mixing equipment and accessories for the laboratory. Send for complete details and prices or visit Glas-Col at [www.glascol.com](http://www.glascol.com).