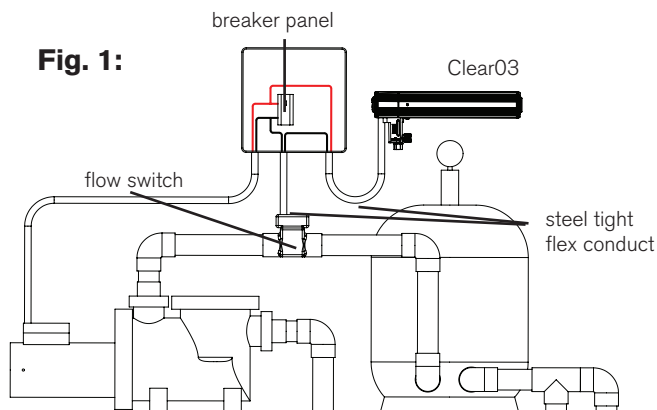




## FLOW SWITCH INSTALLATION WITH NO PUMP CONTROLLER

When a pool is built without a controller or time clock for the pump and a variable speed pump is used the power input is hot all the time. The variable speed pump is turned on and off by its own internal controller. There is nothing to connect the ClearO3 to (a relay in a control panel) so it will turn on and off with the pump. When the ClearO3 is installed on these pools it does not have a way to be turned off when the pump is not operating. These pumps are available from all the major pool equipment suppliers and several small manufacturers.

Paramount has available an add-on paddle flow switch (Paramount part# 004-402-0010-00 or Grid Controls part # 57-F1-225-00W). The power is run through this switch and then to the ClearO3. The flow switch is plumbed in the main line of the pool return and when it sees flow the ClearO3 is turned on.



**The ClearO3 unit is factory set to 240VAC. The ClearO3 should be wired to run with the filter pump which creates the air draw through the unit needed to create ozone. Do not set the ClearO3 to run when the filter pump is off.**

1. Plumb the Flow Switch in the main header after the filter. **(Fig.1)**
2. A licensed electrician should make all electrical connections. Make sure the unit is grounded by connecting to the pool equipment bond wire to comply with local electrical codes.
3. Turn off power to the filtration system pump at the circuit breaker. **(Fig 2)**
4. Install an approved seal tight flex conduit (not included) rated for outdoor use between the breaker panel and the flow switch and between the ClearO3 and the breaker panel. **(Fig. 1)**

**Fig. 2**



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US and Foreign patents and patents pending see [www.1paramount.com/about/patents/](http://www.1paramount.com/about/patents/)

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5. Connect the black leg of the ClearO3 to normally open terminal of the flow switch. **(Fig. 3)**
6. Connect a black wire to one of the terminals of the filter pump breaker and the other end to the power in (common) terminal of the flow switch. **(Fig. 3)**
7. Connect the red leg of the ClearO3 to the other terminal of the filter pump breaker if a 220V circuit **(Fig. 5)** or to the common bar in the electrical panel for a 120V circuit. **(Fig. 6)**
8. Connect the green ground wire from the ClearO3 to the ground bar in the breaker panel. **(Fig. 6)**
9. Use the external ground lug to connect the ClearO3 to the pool pump bond wire. **(Fig. 4)**
10. Turn on power to the filtration system pump. Check the glow tube on the left front of the ClearO3. **(Fig. 7)** A light blue light indicates the lamp is lit and the unit should be producing ozone. If you see a red or yellow light through the glow tube turn off the power immediately and replace the lamp. Running the unit with a yellow or red light will damage the ballast.

**Fig. 7**

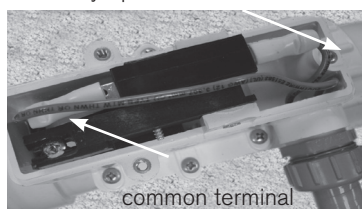


**Fig. 4**

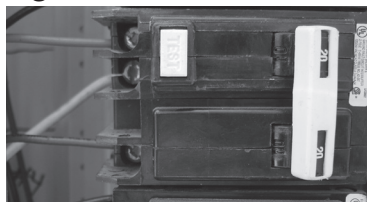


**Fig. 3**

Normally open terminal.



**Fig. 5**



**Fig. 6**



**WARNING**

WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.



**WARNING**

UV light produced by this unit is harmful to the eyes and may cause blindness! Do not look directly at a lit bulb!