

THERMOSTATS AND ACC CONTROL

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There are numerous types of thermostats, with varying complexities; ALL should work with Opto Generic Device's (OGD) Adaptive Climate Controller (ACC).

The ACC's Adaptive fan motor speed control is based on real time room climate conditions and the hvac system's actual thermal output. To provide the best or optimum performance in both climate comfort and energy efficiency the ACC should be powered on at all the times. When this is done it will optimize, compute and cause the ideal or best continuous airflow operation for the HVAC fan motor to achieve the best results.

How best can this be accomplished via the Thermostat?

On many existing Thermostats (Tstats) there are existing controls, modes or features that let you turn the hvac system on and off via the Tstat. The ideal or preferred Tstat control choices would have three modes or choices "**Off, Auto, Fan On**". If Fan On is available on the Tstat system when installing an ACC choosing or setting the Tstat to "**Fan Continuous On**", "**Fan On**" or "**On**" mode now becomes "**ACC Mode**".!

Whether you are in heating or cooling operation, the ACC will adaptively translate the former "**Fan On**" mode into: **Full closed loop Adaptive Speed and Climate control!**

If "Fan Continuous On" or "On" mode, is not available, then "**Auto**" mode will also work, but, the HVAC system may not perform to the ACC's full capabilities. If there is a 3 speed option, Hi, Med, Lo or any other multi-speed fan option, usually you should select the highest fan speed setting.

In all cases the temperature you select, via the Tstat, will control the ACC system to achieve your desired heat or cool comfortably and more efficiently.

You still operate the Tstat as you did in the past, just set or adjust your temperature dial or control to activate your hvac system to the set point you want. However you most likely will find that in heating the same temperature setting may now seem too warm (or cooling too cool); this is because the ACC is operating your hvac system much more efficiently! **But what should you now do?....**

The same as you did before the ACC was installed.... and as you would normally do on any Tstat ... If in heating mode and you're too warm, then just lower the Tstat temp setting (or in cooling just raise it)...!!!

This is one of the major improvements and benefits of installing Opto's new patented ACC.... **It saves energy and makes the system equipment more efficient.... It also actually improves the room climate and environment at the same time and makes your comfort much improved...!!!**