

TWO MOST COMMONLY ASKED QUESTIONS ABOUT AIRCOSAVER & THERMAMAX

1. Will installing the AircoSaver void my warranty?

Officially it falls under the Magnuson-Moss Act passed by congress that states manufacturers cannot void warranties on their equipment when after-market products are added, provided they are approved by the governing body that approves such products. If it is electrical, it must be approved by UL or ETL, which the **AircoSaver** is. Some persons dislike hearing “the government says we can do it”, so here is the analogy to use. A standard thermostat turns an AC on and off based on reaching the desired set point. A programmable thermostat does the same thing PLUS allows you to set a time table for on and off operation, in addition to, and/or regardless of, reaching the desired set point. The **AircoSaver** works much the same way as a programmable thermostat but is based on the time it takes to fill the evaporator with refrigerant. These timed amounts will vary based on the hotter it is, the longer it takes fill up and get as cold as possible. The **AircoSaver** only intercepts the 24 volt signal from the thermostat to the compressor and does not interfere with the cooling ability or modify the mechanics of the system in any way. When the evaporator is full, the **AircoSaver** shuts down the compressor and allows the fan to continue to pull cold air into the plenum that feeds the ductwork. If set point is still not reached during this time, the **AircoSaver** releases the compressor. The temperature sensor connected to the **AircoSaver** makes this decision when the temperature rises by 1.25 degrees and never interferes with the thermostat function or interfere with cooling.

This same question also comes up when adding our **Thermamax** P.R.O.A. to any HVAC/R systems. It is an ASHRAE approved additive although it would not be as easily removed from the system as the **AircoSaver**. This is one of the reasons why it is mandatory to replace the filter dryer.

2. Will the AircoSaver cause short cycling of my compressor?

According to Copeland, who manufactures more compressors than anyone, a compressor has approximately 12,000,000 (yes, million) stops and starts in a 20 year life. During this lifetime, it is not as critical how many times it starts and stops in 24 hours but rather how long it is OFF before it has to re-start. The more extreme the conditions are, the hotter the compressor will be, along with high head pressure. The longer it is off, the more the pressure dissipates and cools down, making it less stressful to re-start. Copeland recommends an OFF time of at least 3 minutes for optimal life of the compressor. The **AircoSaver** has a built-in “default” at 3 minutes and will not allow the compressor to re-start. Most new programmable thermostats now also have a built in 3 minute delay.