Tech Tips

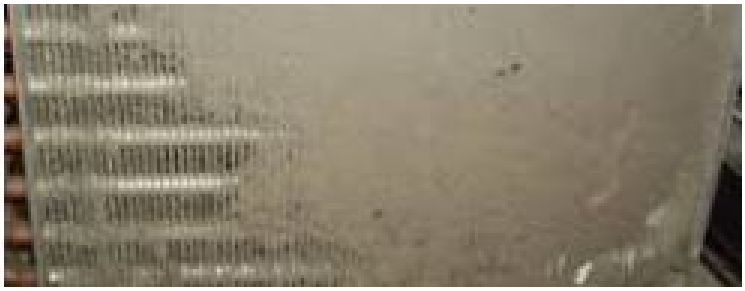
July 2017 Edition

Hello Idle Free Technicians,

This month we will cover overlooked items which can lead to poor system performance.

Coils and Filters

As technicians, we understand the importance of a clean condenser coil. When the coil gets dirty, less heat is transferred from the refrigerant to the air moving across the coil. This leads to heat accumulating in the condenser. This accumulation of heat will cause the condensing temperature to rise. The higher condensing temperature will result in higher compression pressure and system inefficiency. Clean coil with water (no high pressure)



Dirty Condenser Coil

Don't overlook the evaporator because it is inside the truck. Many drivers have pets in their trucks and the hair quickly plugs coils and filters. Start by removing and cleaning the evaporator filter by running water over it in the sink.

Evaporator Filter

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Next inspect the evaporator coil. Many drivers have four-legged companions and hair becomes a big issue as it floats around the sleeper and gets sucked into the evaporator.

Evaporator Plugged with Animal Hair

The evaporator coil absorbs heat from the air and even small amounts of dirt and hair that accumulate on the coil, will have a large impact on performance. Routine visual inspections and cleaning is the best way to eliminate problems before they occur. How can you determine if you might have a problem? If you have systems with any of the following symptoms, please check your coils and filters.

- **Insufficient cooling -** Does it seem like the discharge air from the evaporator isn't cool enough? When the coil is dirty it cannot remove heat from your sleeper and therefore will not get as cool as it could if everything was clean.
- **Short Run Times –** Your system cycles on and off to maintain the desired temperature. If your coils are dirty and cannot transfer heat, the on cycles will increase in time, or the system may run continuously trying to meet the demand. This increase in cycles will have an impact on overall system runtime.
- **Frozen evaporator coil -** If dirt and hair buildup is restricting the evaporator coil's ability to absorb heat, it will freeze up.

Clean evaporator coil with low-pressure compressed air.

As always, our technical support team is available to help you with any issues or questions you have. Please call us at (920) 206-9333 or email us at techsupport@idlefreesystems.com