

# Top 3 Reasons Why Your Car AC is Not Blowing Cold Air

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During the hot summer months in Utah you want your vehicle's AC to blow cool refreshing air for your comfort and the comfort of your passengers. There are a variety of reasons why your car AC is not blowing cold air. ***Fixing the AC could be as simple as recharging your car's AC refrigerant or repairing a refrigerant leak but may also require complex electrical climate control repair or slipping compressor clutch to get your air conditioning operating at top performance once again.***

## Understanding Your Vehicle's AC System

The air conditioning system in your vehicle can be complex due to the location of the hoses and lines. Essentially, your vehicle's AC system compresses and heats the refrigerant, then allowing it to decompress and condense into a liquid that causes it to rapidly lose heat. This process absorbs heat from the car's cabin and is continuously repeated to achieve your desired temperature.

The ***basic concept is much easier to understand when the components are broken down***, as follows:

- The compressor runs off an engine belt that ***squeezes or compresses the gaseous refrigerant.***
- Once it has been pressurized, ***the condenser cools it down through a series of finned tubes*** where it returns to a liquid state. This liquid will then pass through a dryer or receiver that removes excess water to eliminate the risk of ice crystal formations inside the AC system.
- Next the liquid refrigerant enters the evaporator via a thermal expansion valve where

it is then exposed to heat from the vehicle's cabin. At this point the fluid boils, reducing it to a gas form once again. During this process ***the heat from the surrounding air is absorbed causing the evaporator coil to chill***. Finally, ***it is redistributed throughout the cabin by the blowing fan*** through the vents as cool, crisp air-conditioned air.

Just about ***every car has the same basic AC parts consisting of a compressor, condenser and evaporator that work together to keep you cool*** during the warm summer months. When any of these parts fail, you're left with uncomfortable heat that a rolled-down window just can't fix.

Here are the ***top 3 reasons why your car may not be blowing cold air***

## #1 Your AC Refrigerant Needs a Recharge

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The most common cause of a vehicle's air conditioner not getting cold enough is that it needs to be recharged. You can recharge your refrigerant by yourself, but to save time and make sure the job is done correctly you should make an appointment with your local professional auto shop.

***The trusted professionals at Ace Auto in West Jordan, Utah can help you recharge your car's AC refrigerant.*** Give us a call at **801-447-1693** for **a free quote** to get you back on the road with the comfort and safety with a recharged AC blowing crisp, cool air again.

## #2 An AC System Refrigerant Leak

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When your vehicle's AC system develops a refrigerant fluid leak it can be challenging to detect due to the fact that refrigerant fluid instantly evaporates when it comes in contact with air. A ***professional mechanic uses specialized tools to determine if there is a leak by introducing ultraviolet fluid to show signs of low refrigerant pressure*** in the AC system. Signs of an AC system refrigerant leak:

- **Audible click** when the AC is turned on.
- **AC cycles on and off** frequently.
- **Hissing sounds** from the AC system (when the engine is off).
- **Oil residue** around AC pipe fittings and hoses.

A refrigerant leak repair may include repairing or replacing the specific failing component. If a large amount of fluid has been lost, your AC system will need to be flushed and the refrigerant fluid will need to be replaced to function properly and get the cool air flowing.

***\*Please note that refrigerant is a very harmful toxic chemical and should not be handled without the proper equipment operated by a trained professional.***

## #3 Fan Motor Failure

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Another common source of trouble in your car's AC system might be the fan(s) motor located at the front of the vehicle's motor. Whether your car has one or two fans, it is important that the fan is in good working order to both keep you cool and to provide vital

cooling to your engine.

***If you are unsure about the correct diagnosis of your car's failing air conditioner, the friendly and caring certified mechanics at Ace Auto in West Jordan, Utah will give you a free repair quote and work quickly to fix your AC and get you back out on the road.***

## Professional Help from Ace Auto to Keep You and Your Passengers Comfortable with Cool Air

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If you are suffering with a broken air conditioner in your car in Utah, make sure you find a professional, trusted auto mechanic to quickly inspect and repair your AC and avoid a more serious overheating engine. For ***an honest AC diagnosis and speedy repairs in West Jordan, schedule an appointment with Ace Auto at 801-447-1693 for your FREE repair quote. Our master mechanics are experienced technicians that are certified and can repair any AC system problem*** and have your AC working properly again.