



Article Side

The Components Behind the Function of an Air Conditioner by [Darren Gersol](#)

Article published on February 5th 2012 | [Home](#)

With constant use throughout the summer months, your home's air conditioners are bound to acquire some malfunctions and defects. To know more about how to perform simple repairs on malfunctioning air conditioners, it is best to first learn about the components of an air conditioning unit and how they function. This article will discuss the different parts commonly found in a residential air conditioning system.

The air conditioning procedure begins with the heat pump processor. The heat pump processor is often found in the outside compartment of the air conditioning unit. This part of the system compresses low pressure refrigerant to raise its temperature and turn it into high pressure gas. The pressure pump used to compress the refrigerant is powered by an electric motor.

After this, the high pressure gas goes through a condensing coil which changes its state from gas to liquid. This change of state produces heat, which is released to the outdoor part of the air conditioner. The dispensed liquid refrigerant is then diffused into an evaporator coil by a metering device. This looks like a thin piece of tubing or an advanced thermostatic expansion valve that has a temperature sensory feature which automatically opens and closes to regulate refrigerant flow.

An evaporator or cooling coil again changes the state of the refrigerant from liquid to gas. It is a portion of finned tubing through which the liquid passes through. This change of state absorbs the heat from the refrigerant, cooling the air blown into the room from the cooling coil. It is in this part of the system for air conditioning Utah homes have where defects often occur.

Air flow through the evaporator coil is facilitated by an air handler and blower unit. This component is responsible for blowing cool air through the evaporator coil and removing any moisture from it. A duct system then spreads the conditioned air into the supply ducts from the air handler and returns it there. Heat pump systems apply similar components as that of the air conditioning Utah homes have, with an added reversing valve that configures the system to work in reverse during winter to heat homes.

The malfunctions of air conditioning units can be attributed to a number of causes. While some require the service of an air conditioning contractor Utah homes have, there are some you can actually repair on your own. Now that you have read about the different parts of an air conditioner, it would be easier for you to identify them when malfunction occurs.

Article Source:

<http://www.articleside.com/home-articles/the-components-behind-the-function-of-an-air-conditioner.htm> - [Article Side](#)

[Darren Gersol](#) - About Author:

For more details, please search a [air conditioning Utah](#) and a [air conditioning contractor Utah](#) in Google.

Article Keywords:

air conditioning contractor utah, air conditioning utah

You can find more [free articles](#) on [Article Side](#). Sign up today and share your knowledge to the community! It is completely FREE!