

Air-Source Heat Pumps for Heating and Cooling

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When your old cooling and heating system demands switching out, take into consideration an air-source heat pump. These are one of the most energy-efficient means to condition your residence suggests **Air Conditioning Repair Clearwater FL**. A heat pump is capable of making 3 times much more heat from one device of electricity, something that other type of fuel-burning heaters or electric heater could not.

Heat pumps work by relocating heat from one location to another. They bring it inside in the winter season and eliminate it in the summer, much like a refrigerator does. Each heat pump has a reversing valve that makes it simple to change from one feature to an additional. An air-source heat pump functions well in our environment, because temperatures hardly ever approach freezing in the winter season, when this type has additional difficulty catching enough heat airborne to heat your home.

A heat pump has two major components: the exterior condenser and the compressor. The outside condenser includes

coils and a compressor that puts the refrigerant under pressure. The compressor delivers the refrigerant in to the air trainer, where an evaporator coil and blower fan are situated. As the fan strikes over the evaporator coil, it exchanges the heat or takes it outdoors. In the summertime, the heat is taken outed from the refrigerant by pulling outside air over the copper coils inside the condenser.

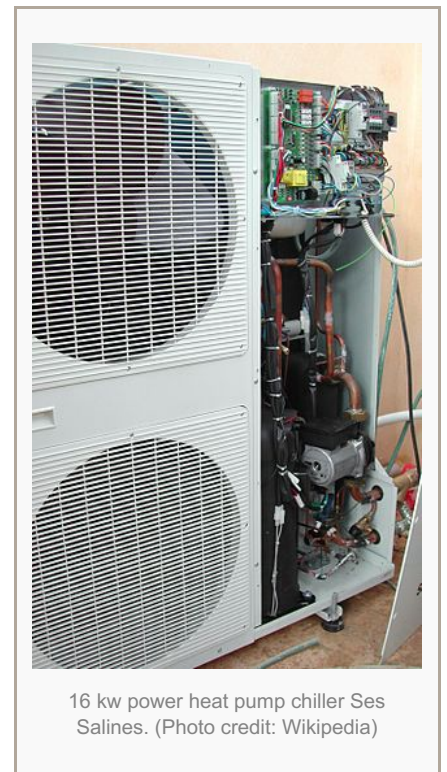
The pattern continues till the thermostat indoors turns the system off. An upgrade to an air-source system called a desuperheater can also take that squandered heat and use it to heat water when the system joins the cooling mode.

The [US Department of Energy](#) states that “Although air-source heat pumps can be used in nearly all parts of the United States, they do not generally perform well during extended periods of sub-freezing temperatures. In regions with sub-freezing winter temperatures, it may not be cost-effective to meet all your heating needs with a standard air-source heat pump.”

Another alternative to check out for an air-source system in our area is to have a variable-speed motor airborne trainer. This kind runs a lot more gradually, which assists it remove more humidity, making you feel more comfortable. These electric motors are quiet and usage far less electrical power.

If you 'd such as to find out more regarding an air-source heat pump, get in touch with *Air Conditioning Repair Clearwater FL*.

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16 kw power heat pump chiller Ses Salines. (Photo credit: Wikipedia)