

How an Air Conditioner Works

Air Flow Cycle

- A. Let's start with the cool air coming out of the ductwork
- B. After cooling the room, the air returns into the ductwork
- C. The return air goes through a filter to remove dust/pollen and is moved through the ductwork by a fan
- D. The filtered air passes over a cooling coil (heat exchanger) and the process repeats

Refrigerant Flow Cycle

1. The compressor in your outdoor unit pumps refrigerant coming from the cooling coil inside your home
2. The warm, high pressure refrigerant is then pumped through the outdoor coil where it is cooled by the fan moving outdoor air across it
3. The heat is transferred from the refrigerant to the outdoor air
4. The cooled, condensed refrigerant is pumped to the indoor coil (heat exchanger) where it cools the indoor air and the process repeats

