

# Basic refrigeration and air conditioning by anathanarayanan

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**What is the refrigeration cycle of an air conditioner?** Principles of Refrigeration  
For this reason, all air conditioners use the same cycle of compression, condensation, expansion, and evaporation in a closed circuit. The same refrigerant is used to move the heat from one area, to cool this area, and to expel this heat in another area.

**What are the basics of air conditioning and refrigeration?** Air conditioners have three main components: a compressor, a condenser coil, and an evaporator coil. They also have a special chemical called refrigerant that loops through the system absorbing and removing heat. Working together these three components convert the refrigerant from gas to liquid and back to gas quickly.

**What are the 4 cycles of refrigeration?** A refrigeration cycle has four major components: the compressor, condenser, expansion device, and evaporator. Refrigerant remains piped between these four components in the refrigerant loop. The refrigeration cycle of an HVAC system is a critical component governed by the principles of thermodynamics.

**What is basic refrigeration cycle?** One very important part of all HVAC systems is the basic refrigeration cycle. It contains four major components: the compressor, condenser, expansion device, and evaporator. The system pipes refrigerant through these four components in a loop, giving the cycle its name and keeping your home cool!

**What is the difference between refrigeration and HVAC?** HVAC and refrigeration are closely related but distinct fields. HVAC focuses on controlling indoor climate for

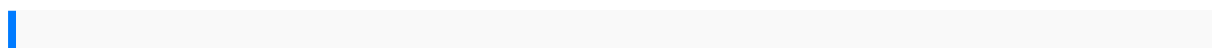
comfort, while refrigeration deals with cooling systems to preserve perishable items.

**At what temperature does freon turn to gas?** Refrigerant starts inside the compressor, where the reduction of volume turns it into a high pressure gas about 150°F. It moves to the outdoor condenser coil, where the warm air (which is still cooler than the refrigerant) moves across it and causes condensation, which releases heat from the refrigerant.

**What is the basic knowledge of air conditioner?** In its most basic description, the air conditioning process involves two actions that occur simultaneously, one inside the home and one outside the home. Inside the home (sometimes referred to as the “cold side” of the system), warm indoor air is cooled as it blows across a cold cooling coil full of refrigerant.

**What is the basic theory of air conditioning?** Air-conditioning Basics Air conditioners exploit this feature of phase conversion by forcing special chemical compounds to evaporate and condense over and over again in a closed system of coils. The compounds involved are refrigerants that have properties enabling them to change at relatively low temperatures.

**What is the most common refrigeration cycle?** These are the vapour compression cycle and the absorption cooling cycle. The vapour compression cycle is the most common method of refrigeration. It is used in almost all refrigeration applications and accounts for almost 90 per cent of all refrigeration systems.



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