

How A Refrigerator Works

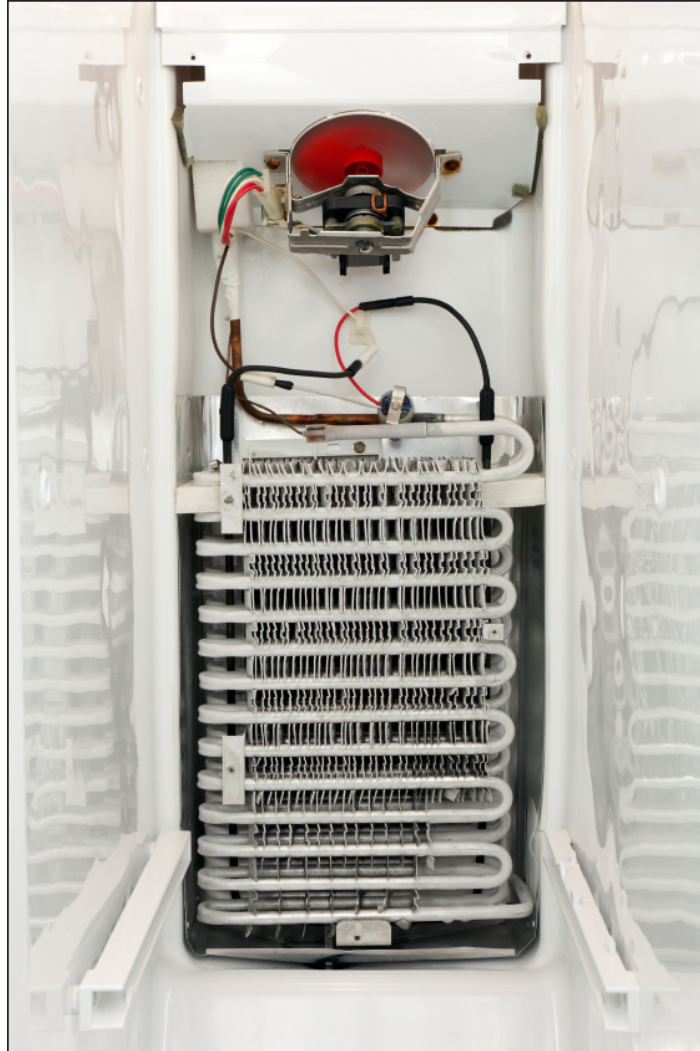


Inside the Refrigerator

A technician removes the cover on the inside of the refrigerator to reveal its mechanics. A substance called 'refrigerant' runs through the coils, absorbing heat from the air inside the refrigerator, making it cool.



Interior view of a refrigerator



Outside the Refrigerator

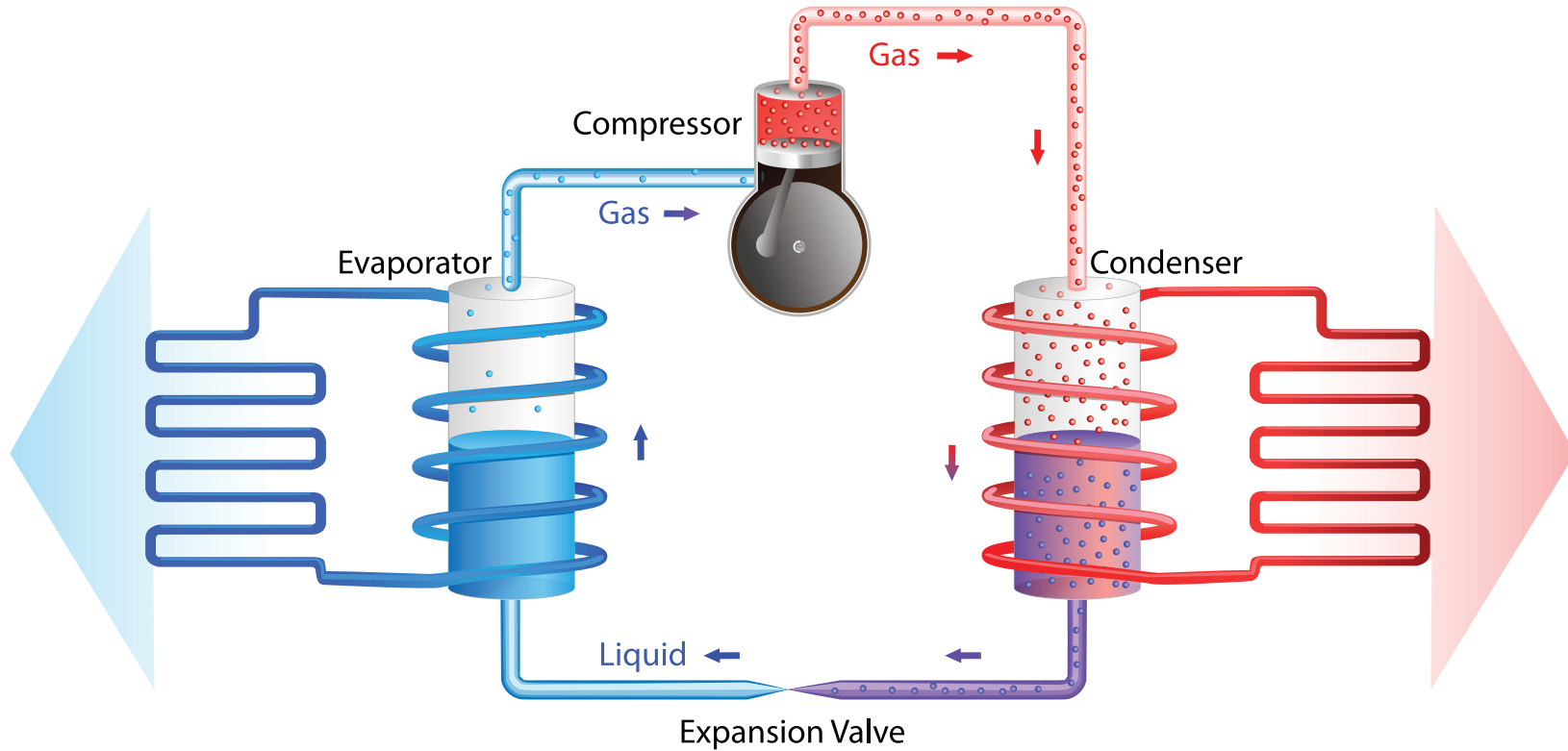
The refrigerant runs through the coils outside the refrigerator allowing heat to be released into the air.



Rear view of a refrigerator

How A Refrigeration Unit Works

Internal workings of refrigerator



External workings of refrigerator



Refrigerants are substances which can be evaporated into a gas form and cooled (condensed) into a liquid form.

The tubes in your refrigerator contain refrigerant. The refrigerator's electric pump pushes the refrigerant through the tubes by compressing (squeezing) it. The refrigerant passes through the coils on the back of the refrigerator in a liquid form, releasing any heat into the air.

When the refrigerant enters the expansion valve the liquid is put under great pressure, causing it to expand and vaporise. As the refrigerant moves through the coils inside the refrigerator it absorbs heat from inside the refrigerator, leaving the air inside cooler.

The warm refrigerant then moves, once again, to the coils outside the fridge and releases its heat outside the refrigerator.