



Sub-cooling

Most efficient airconditioning systems use the principle of 'sub-cooling' to further enhance energy savings. A sub-cooler is a component where the cold refrigerant vapour exiting the evaporator, exchanges heat with the liquid refrigerant coming out of the condenser.

This process increases the cooling capacity per unit of refrigerant flow.

Small units use tube-in-tube heat exchangers for sub-cooling, while larger systems use plate or shell-and-tube heat exchangers.

Sub-cooling can save upto 10% energy.