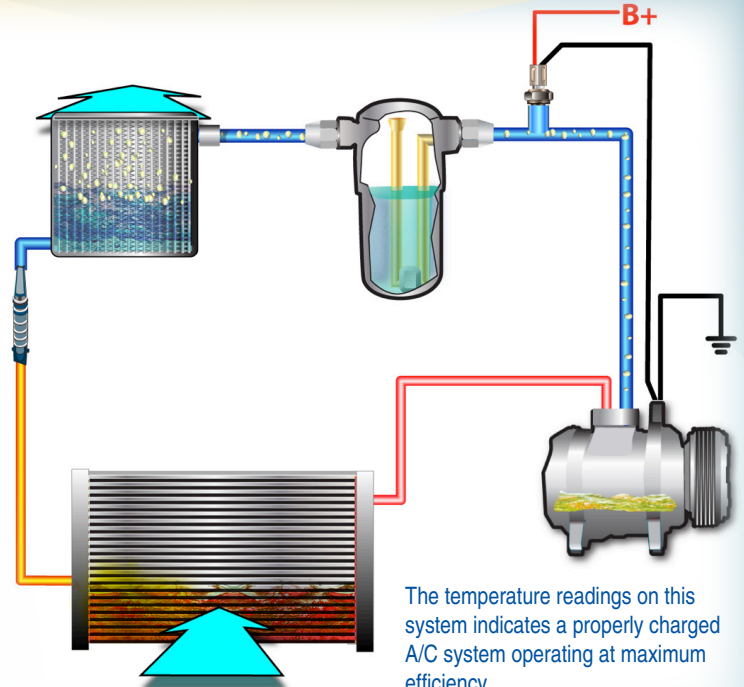




DID YOU KNOW?

TYPICAL ORIFICE TUBE SYSTEM



In an HVAC system the refrigerant changes state at the evaporator and at the condenser.

- Evaporator - the refrigerant liquid changes to a vapor.
- Condenser - the refrigerant changes from a vapor to a liquid.

If this state change does not take place in both places, the efficiency of the HVAC system will decrease significantly. While heat transfer would still take place, the refrigerant cannot remove enough heat from the air in the passenger compartment, and the refrigerant cannot efficiently get rid of the heat at the condenser

Properly charged A/C systems will show no difference in temperature across the evaporator, indicating there is still some liquid refrigerant exiting in the evaporator and therefore oil circulation is being maintained.

Measuring evaporator inlet and outlet temperature is usually fairly easy on an orifice tube system. However on a TXV system, the valve may be inside the HVAC case and taking the evaporator inlet temperature reading after the valve may be impossible.