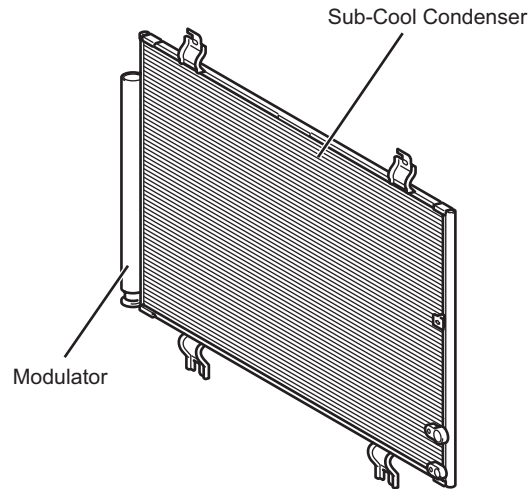


Condenser

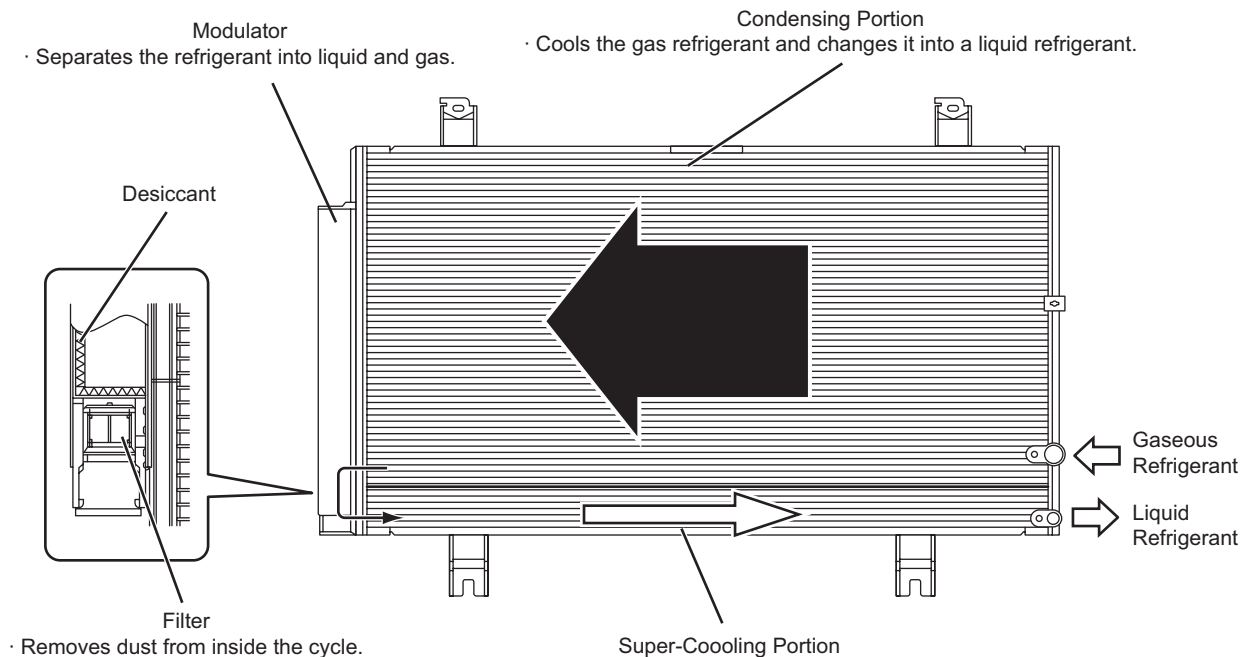
- The GS430 has been sub-cool condenser in which a multi-flow condenser (consisting of two cooling portions: a condensing portion as super-cooling portion) and a gas-liquid separator (modulator) have been integrated. This Condenser adopted the sub-cool cycle for its cycle system to improve the heat exchanging efficiency. Furthermore, the effective surface area has been expanded through the use of a more closely packed core, resulting in better performance and reducing the volume of refrigerant used.



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Sub-Cool Condenser Structure

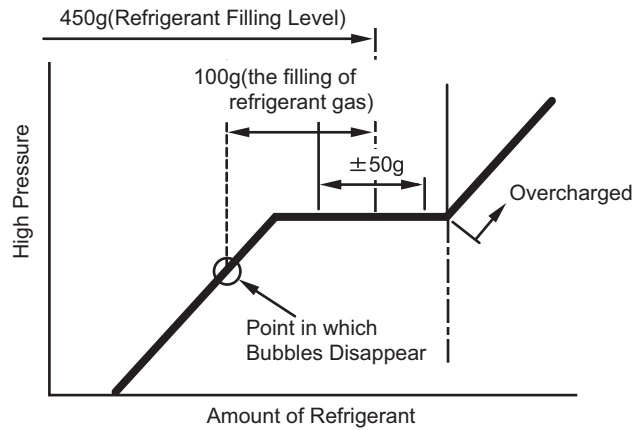
- The sub-cool cycle divides one condenser into a condensation area and a super-cooling area. A gas-liquid separator is located between the two areas in order to further cool the liquid refrigerant that has undergone a gas-liquid separation. This increases the energy (enthalpy) that the liquid refrigerant possesses and improves refrigeration efficiency.



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Charging the Sub-Cool Cycle with Refrigerant Gas

- In a receiver cycle, the point at which the bubbles disappear from the refrigerant gas is at the entrance to the refrigeration capacity stabilization region (shelf). However, in a sub-cool cycle, the point at which the bubbles disappear is before the refrigeration stabilization region (shelf). For this reason, the cycle must be charged with an additional 100g to reach the proper charging volume (proper refrigerant charging volume: 450 ± 50 g). (The proper refrigeration capacity cannot be reached if the charging of the cycle with refrigerant gas is stopped at the point at which the bubbles disappear.) Overcharging the cycle will also lead to poor fuel economy or insufficient refrigeration capacity. Therefore, make sure to charge the cycle with the proper volume of refrigerant gas.

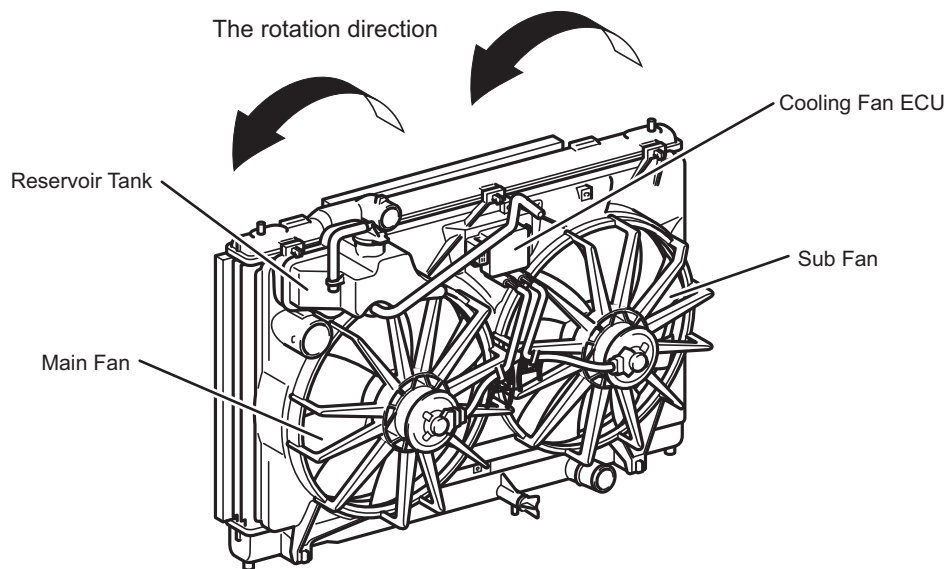


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AC

Electric Fan

- Suction type electric fans are used on all models.
- A cooling fan ECU is used for controlling the electric fans, and is installed on the radiator fan shroud.



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