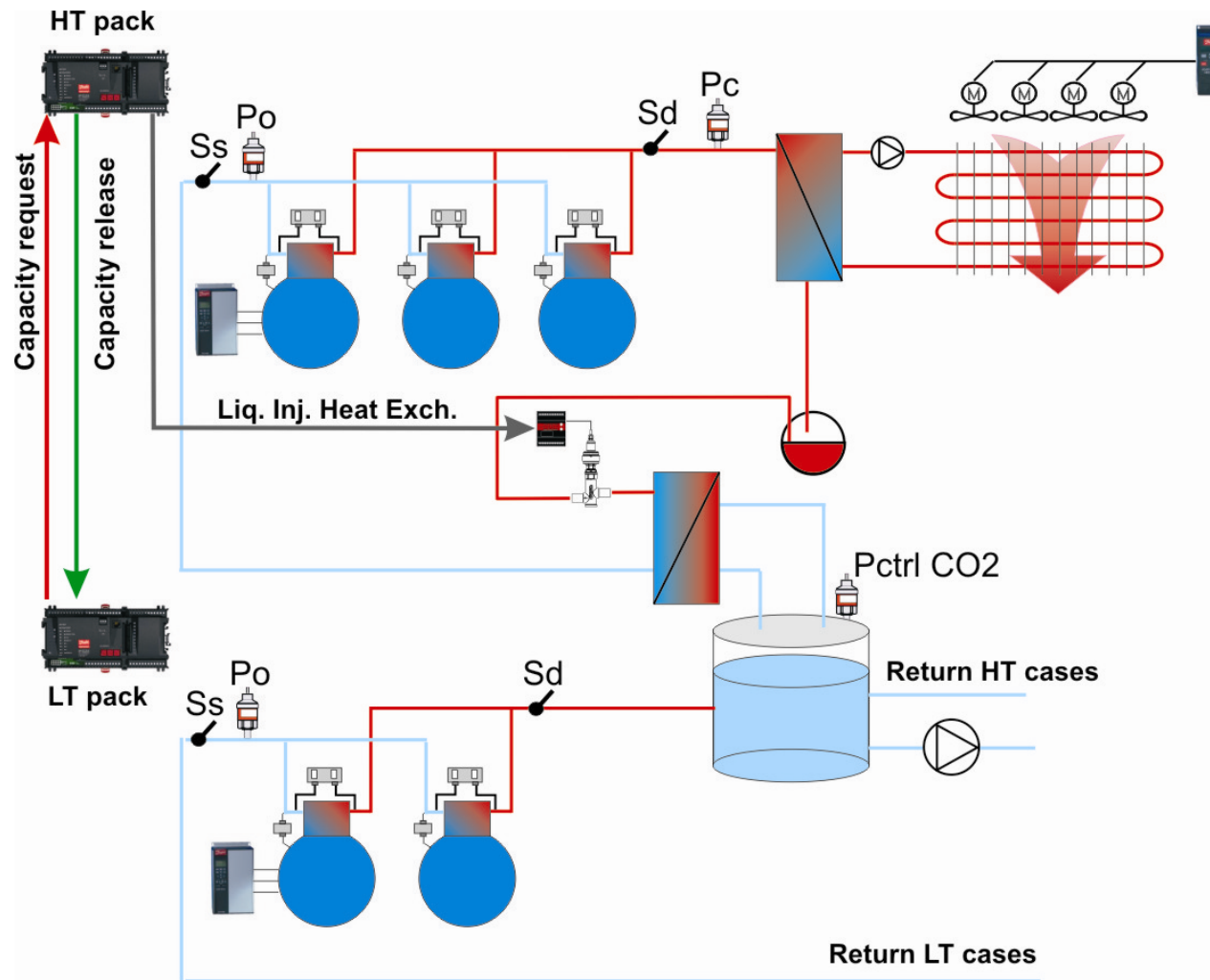


Cascade systems design

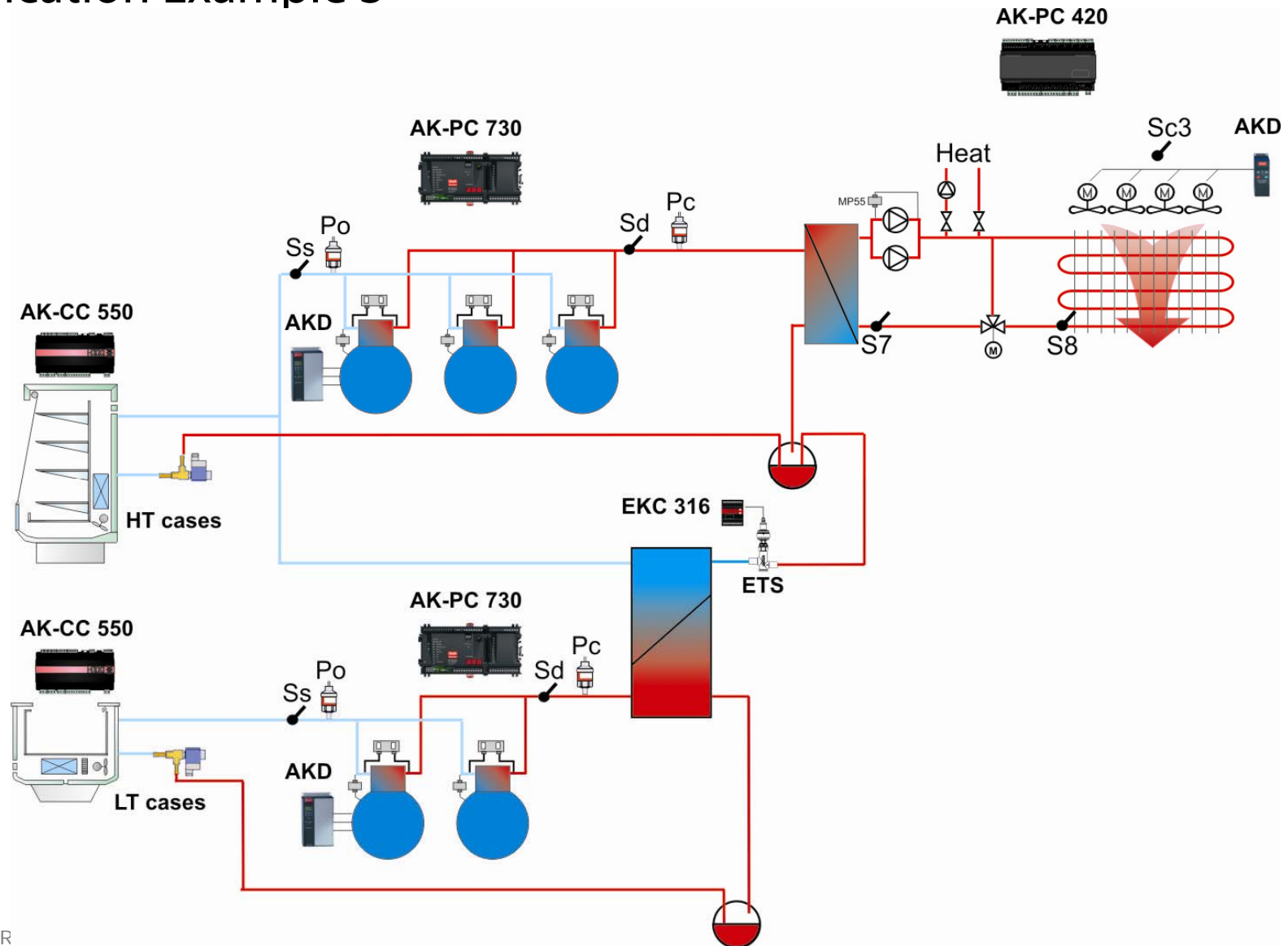
CO₂/R404a Cascade system



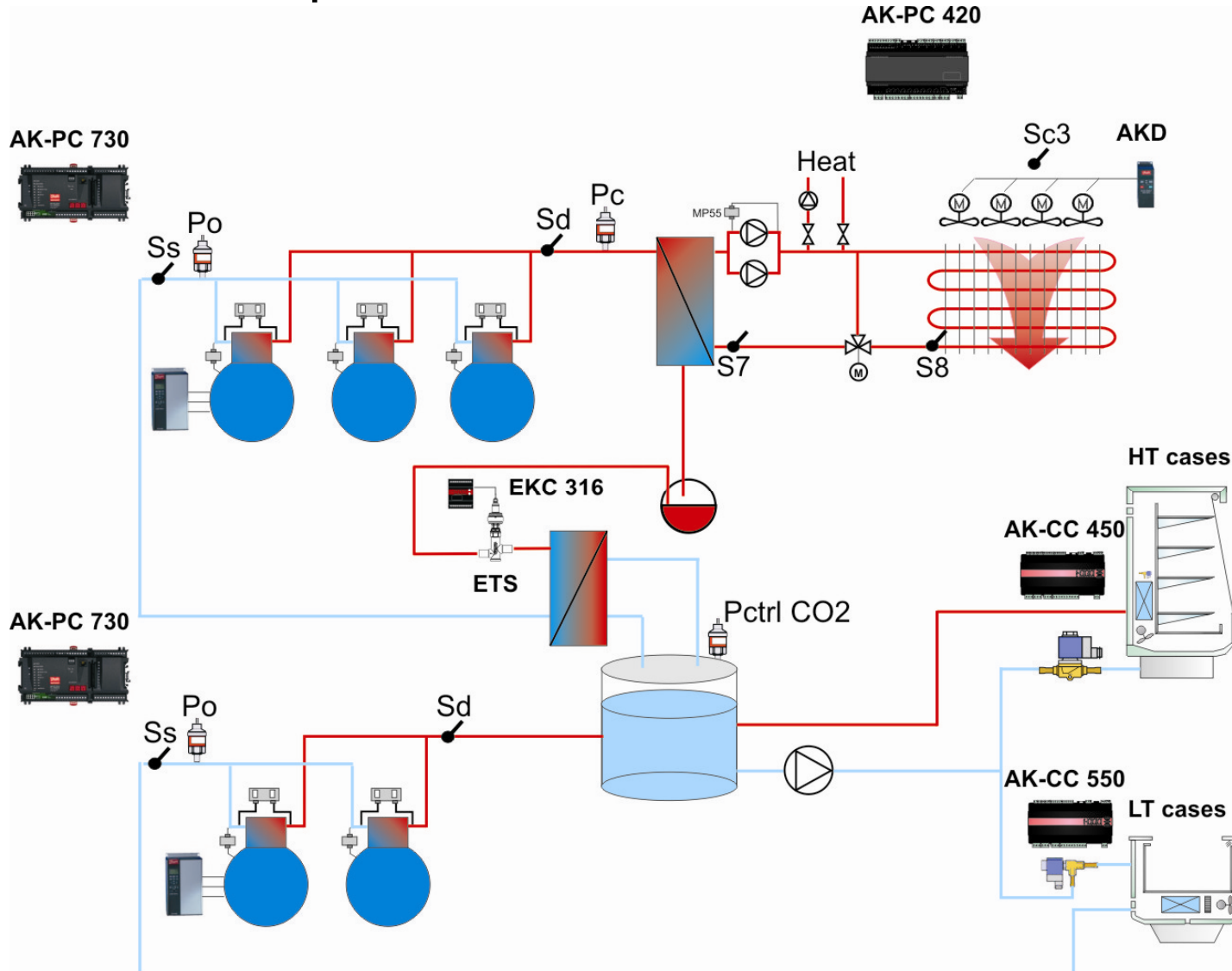
Application Example 1: Two Suction Group Cascade with Dry Cooler



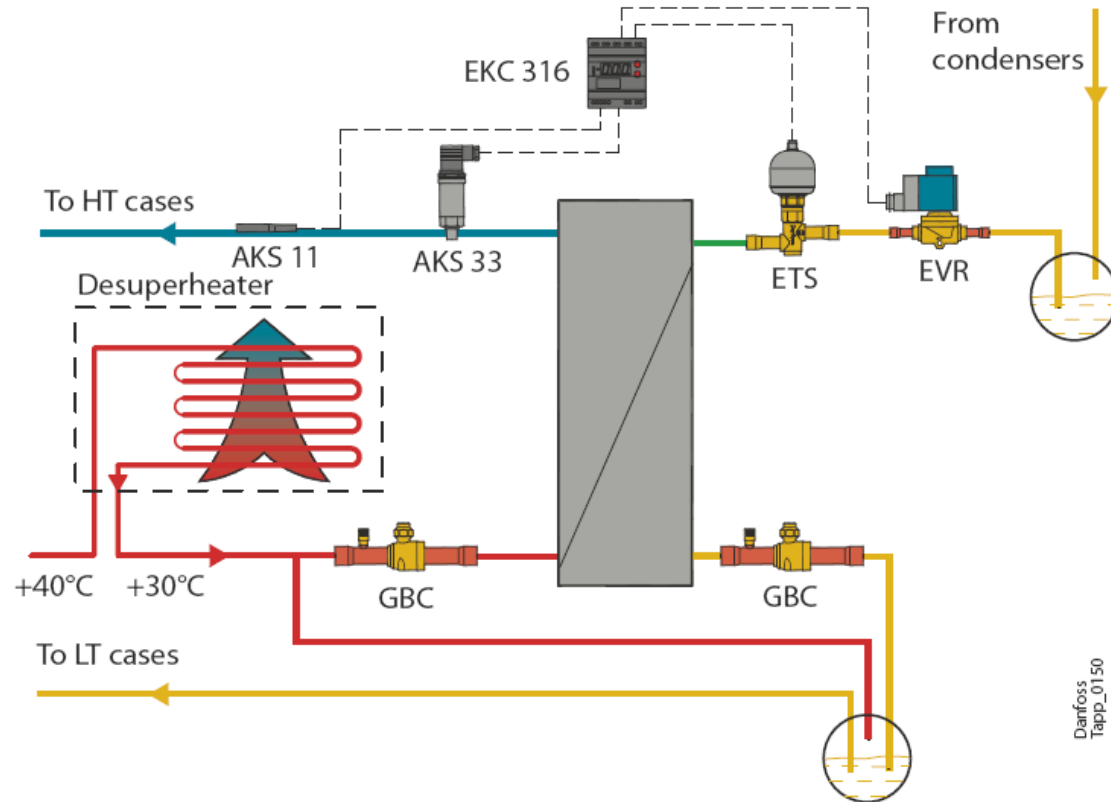
Application Example 3



Application Example 4



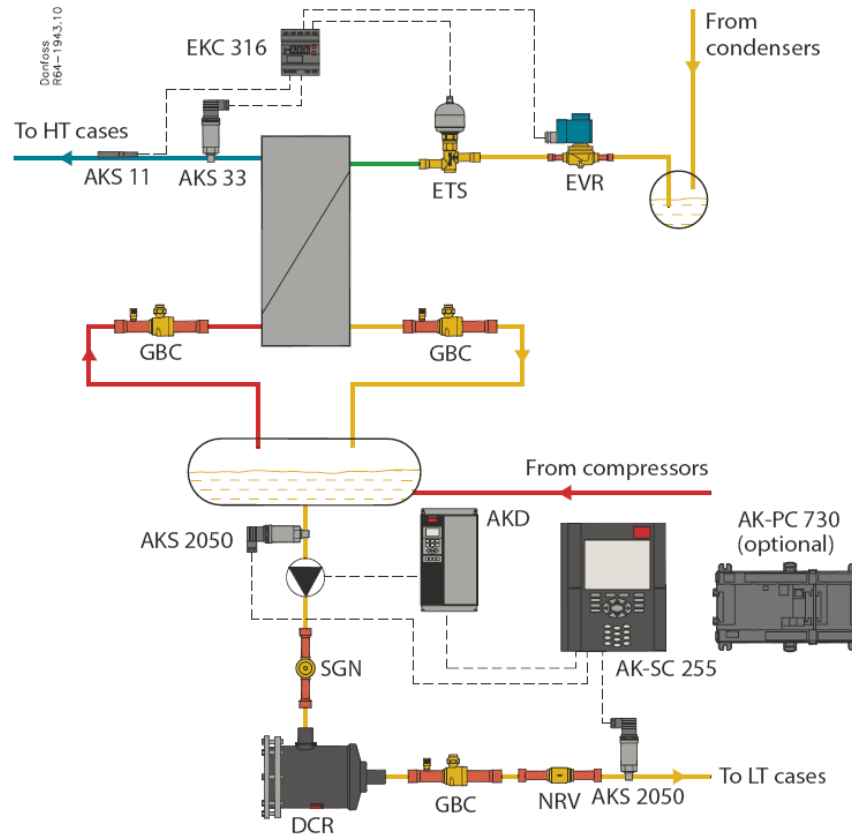
Desuperheater



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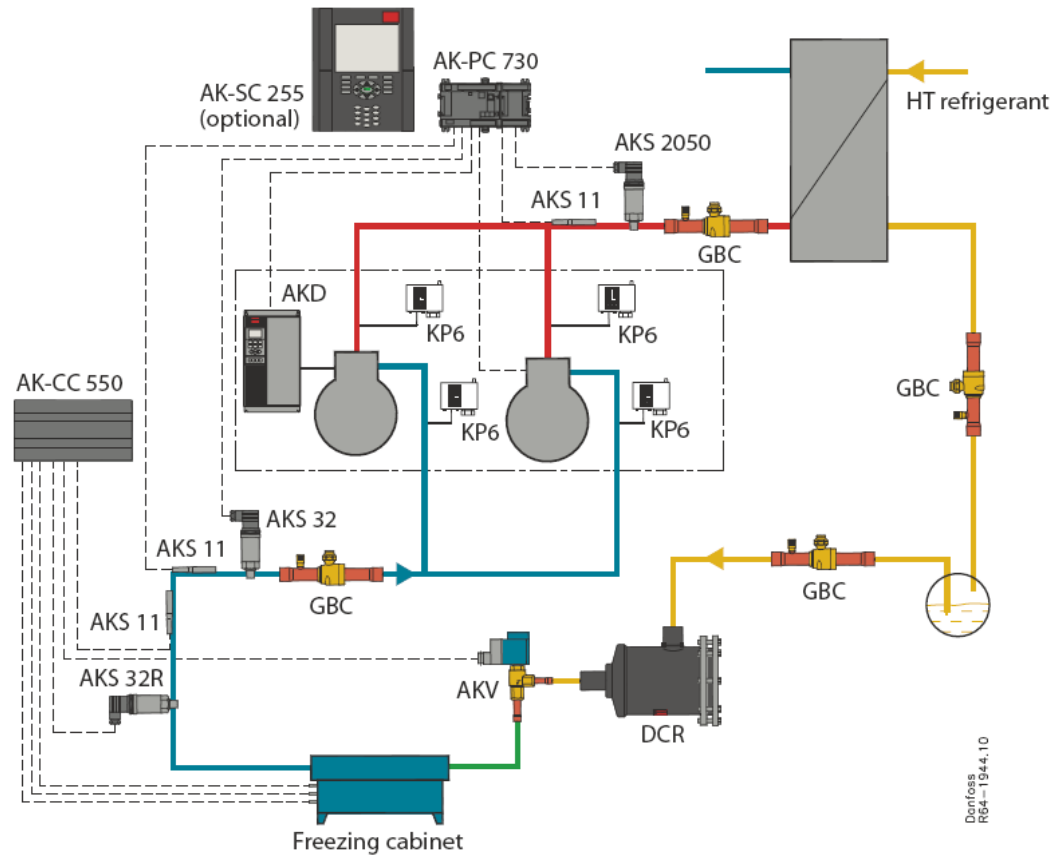
- Stable operation + protection of the plate heat exchanger from too high temperature + reduction of the load on HT system

Cascade condenser control



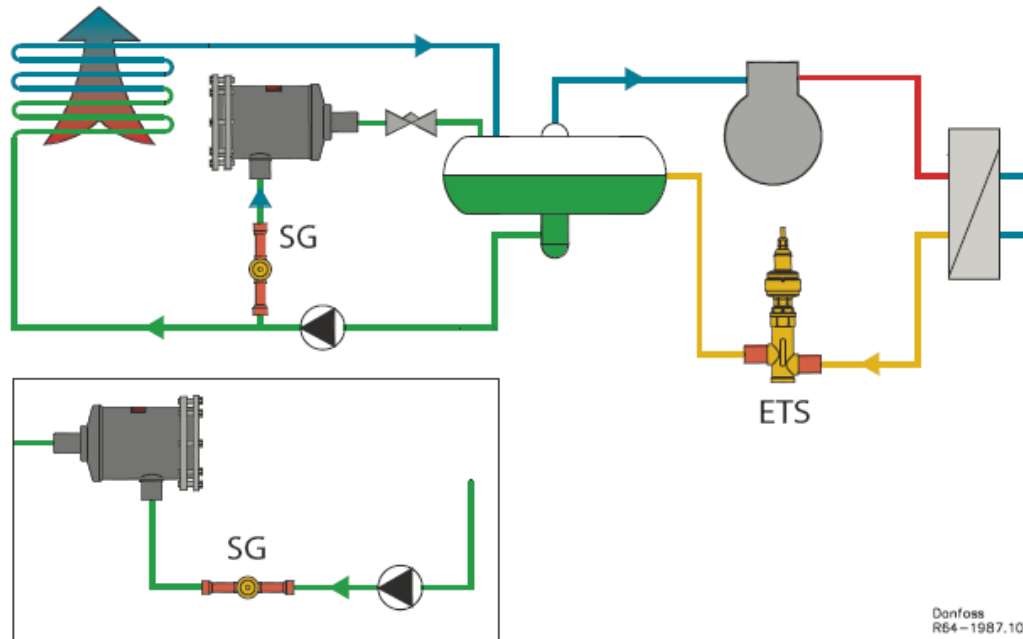
- Typically superheat control by stepper-motor valves.

LT system overview



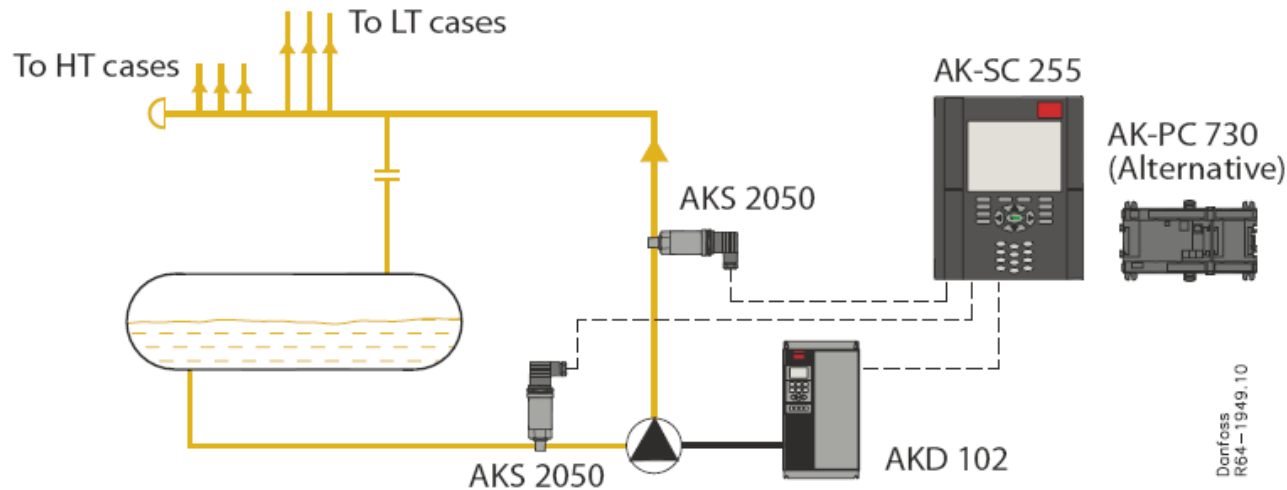
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R64-1944.10

Filter drier position



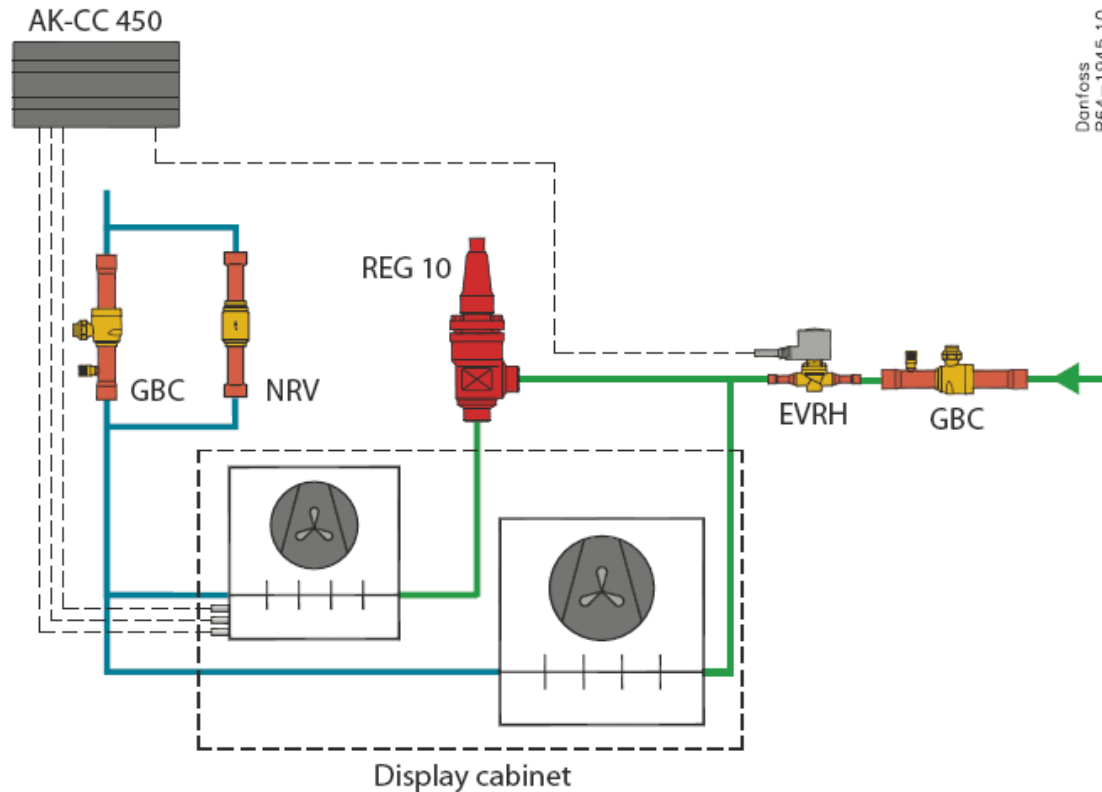
- In case of pumped operation filter drier is to be placed after the pump or in parallel with the pump

Pump control



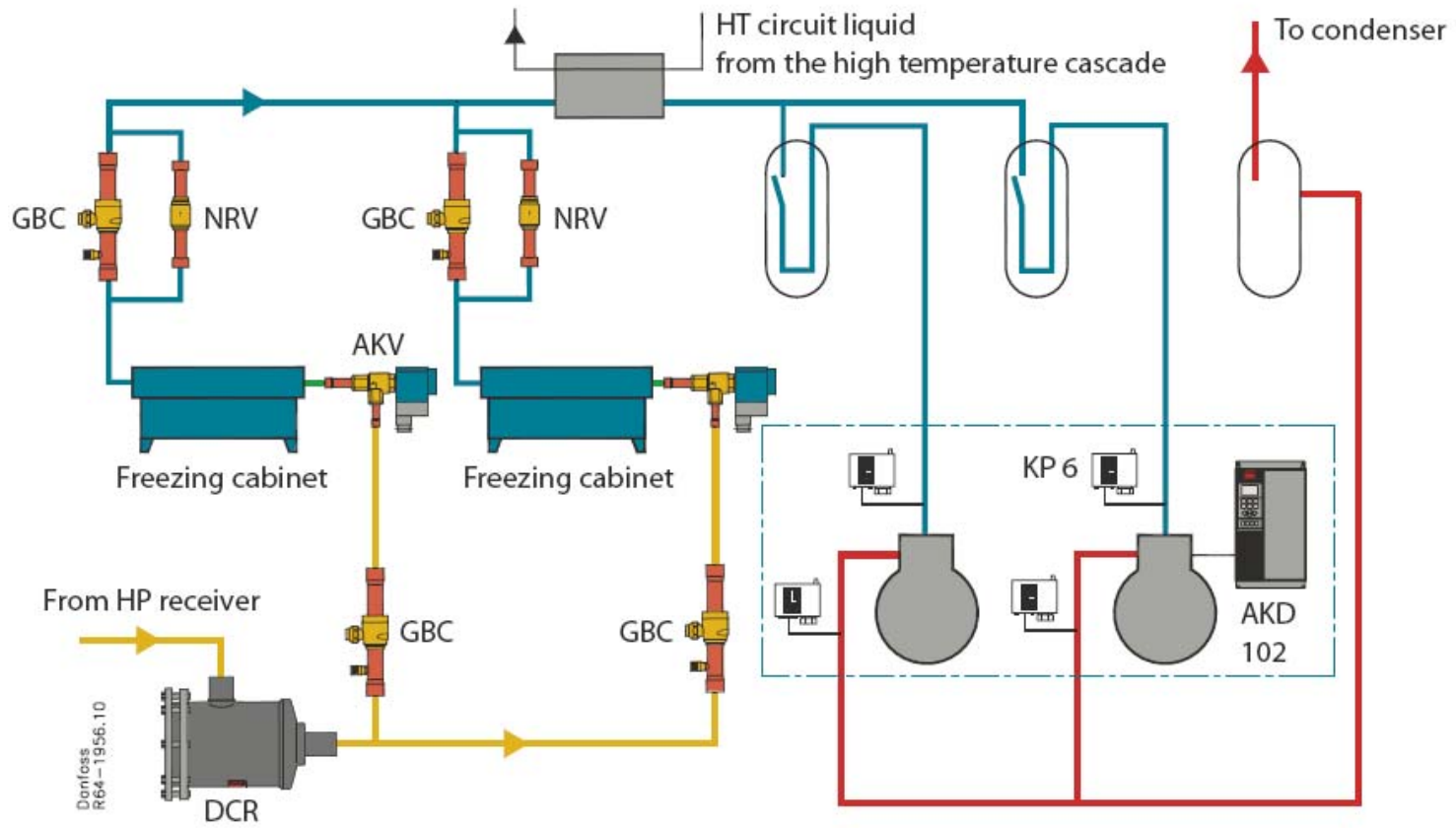
- AKD control by differential pressure. Allows stable operation and energy savings
- Pump feed to both HT and LT cases

Pumped evaporators control

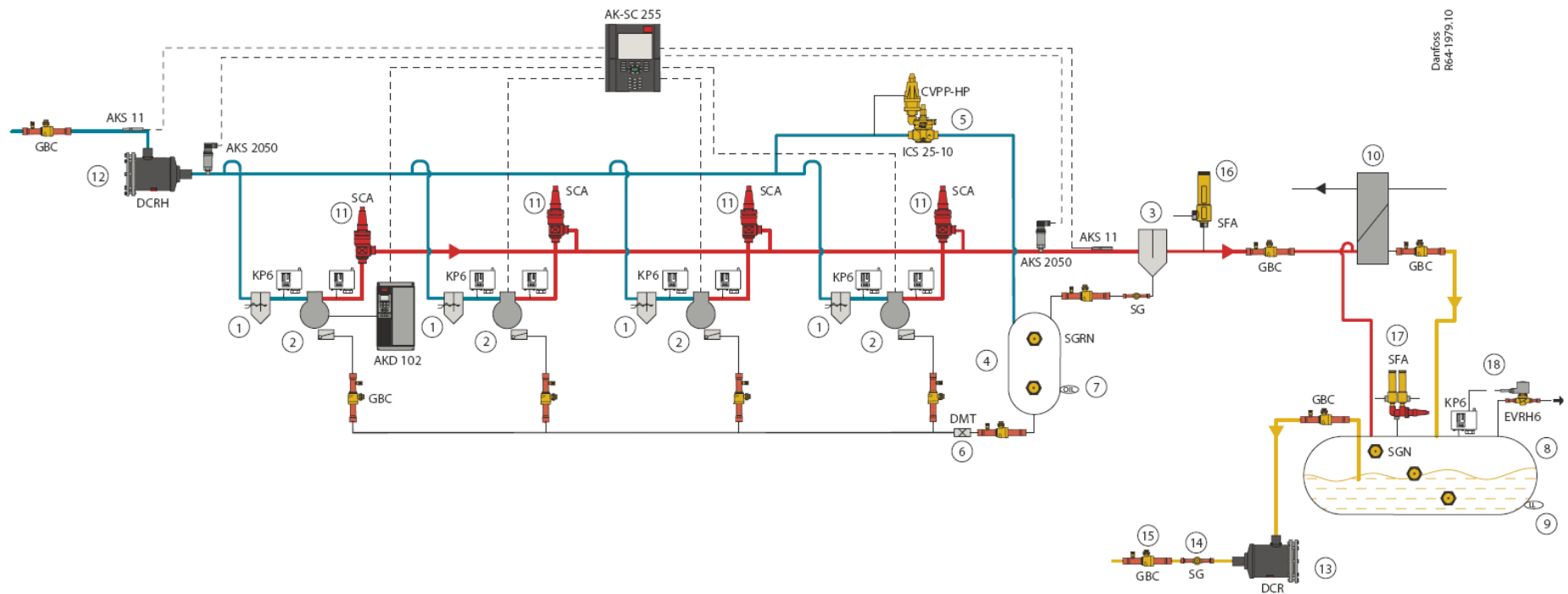


- REG valves are installed to balance the flow
- In case of different size cases REG is to be fitted on the smallest one

Superheat control



Pack design



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