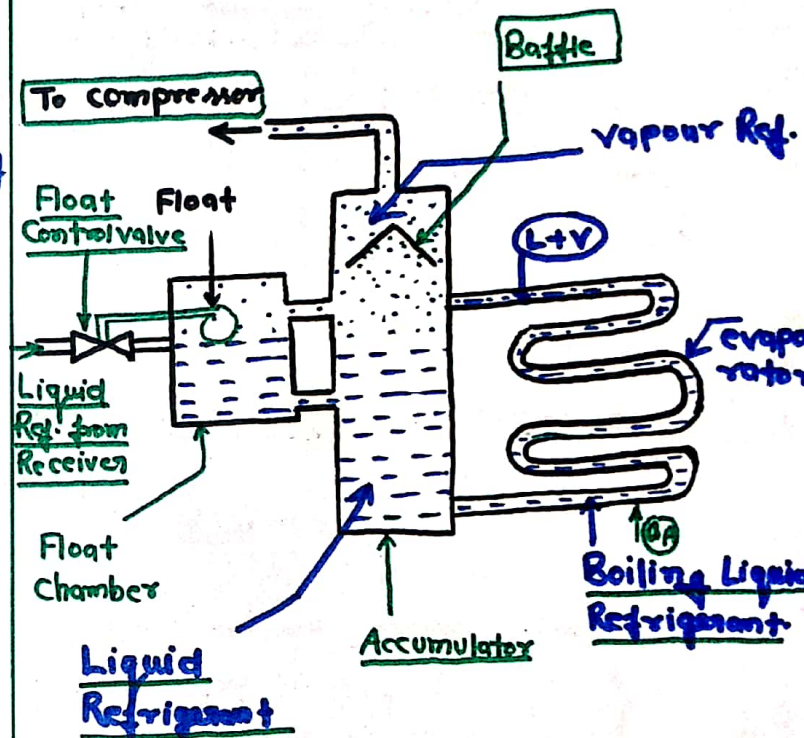


FLOODED EVAPORATOR:-

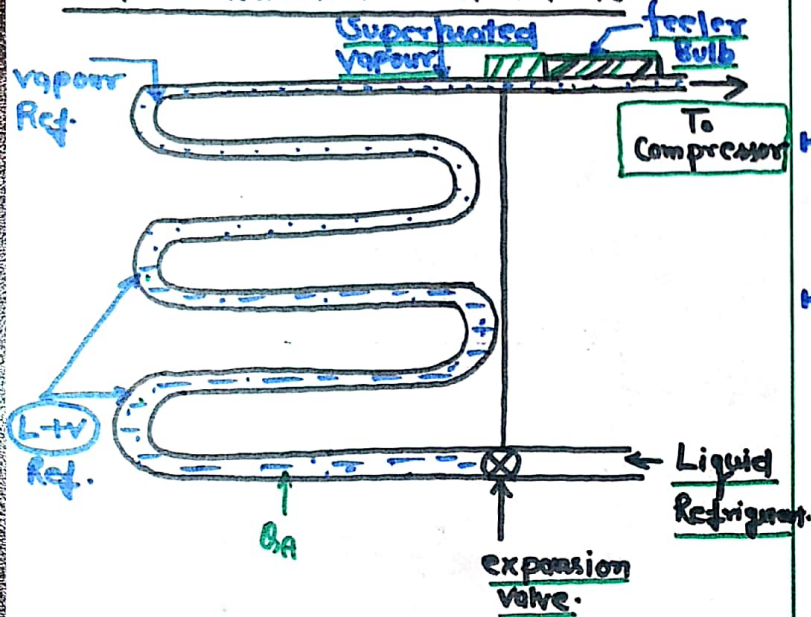
- Evaporator is always kept filled with Liquid Refrigerant.
- Float valve is used as a throttling to maintain Constant liquid in the evaporator.
- Accumulator is used to prevent liquid carry over to compressor.
- Having Higher H.T. rate so that smaller evaporator can be used.
- Used in large installation, specially in chemical and food processing industries.
- The evaporator coil is connected with Accumulator.



CONSTRUCTION:-

- Accumulator ✓
- Float chamber ✓
- Float ✓
- Float Valve ✓
- Evaporator tubes ✓

DRY EXPANSION EVAPORATOR:

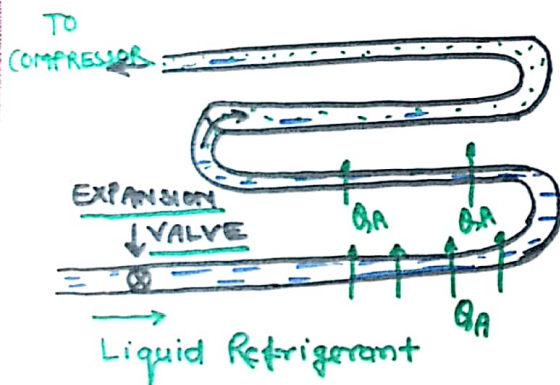


(10)

- feeler bulb of expansion valve controls the rate of flow of Refrigerant.
- Rate of Liquid fed to evaporator is depends on the load on evaporator.
- Called as DX evaporator, used for RC < 150 TR.

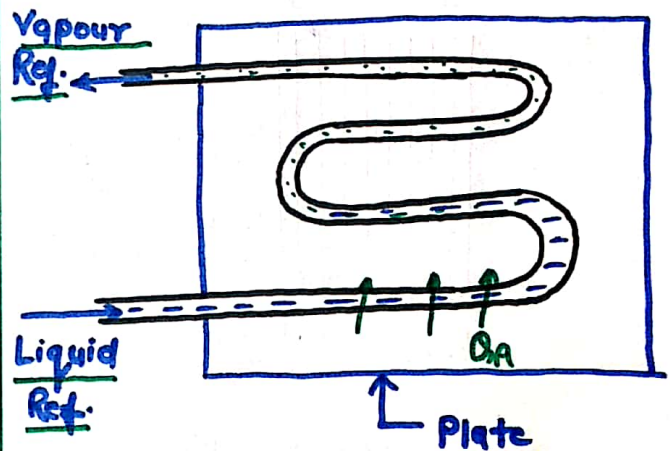
→ The expansion valve controls the rate of flow of liquid ref. so that liquid refrigerant is vapourised by time it reaches at the end of evaporator coil.

BARE TUBE EVAPORATOR:-

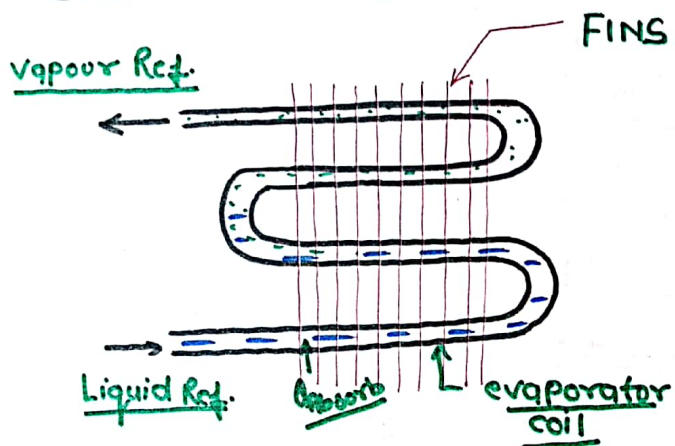


- Many more tube of Copper & steel.
- Maybe spiral, zig-zag flat.
- Domestic Refrigerator because of easy cleaning and defrosting.
- Less Contact Area, so less H.T. rate.
- Simple open tube.

PLATE EVAPORATOR:-



- evaporator coiled are welded at a side of plate.
- Generally used for Domestic freezer, icecream-cabinet, cooler, etc.

FINNED EVAPORATOR:-EXPANSION VALVE :-

- Metal fins ($K \Rightarrow$ High) are attached with evaporator coil for better H.T. rate.
- Used in A.C.
- evaporator size is compact for same capacity compared with others.