2. Does not always solve the problem

1. May not be necessary and...

**BUT...**

Changing Parts Might Be The First Reaction

- High friction loss

- Vertical lift

11. Liquid line vapor

10. Low refrigerant charge

9. Restricted or capped external equalizer

8. External equalizer location

no external equalizer

6. Wrong thermostatic charge

5. Dead thermostatic element charge

4. Gas charge condensation

3. High superheat adjustment

2. Undersized valve

1. Moisture, dirt, wax

- Long or small line

- Plugged drier or strainer

- Same as #11 above

12. Low pressure drop across valve

b. Undersized distributor nozzle or

c. Low condensing temperature

d. Circuits

* Inches mercury below one atmosphere

**SUCTION PRESSURE**

**POSSIBLE CAUSES**

- Mispreduction
- Dirty air filters
- Not enough air
- Oversized valve
- TEV seat leak
- Low load
- High superheat adjustment
- Bulb temperature too high
- Depressed suction pressure drop
- Air too cold
- Not enough internal equalizer
- Restricted or clogged internal equalizer
- Low refrigerant charge
- High superheat adjustment
- Liquid line super heat
- Plugged distributor or strainer or line at end of line
- Long atler line
- Evaporator temperature too low
- External equalizer blocked
- Plugged suction strainer or receiver
- Liquid line super heat
- Low suction pressure across valve
- Dryer or strainer plugged or clogged
- Moisture, dirt, wax
- Refrigerant charge too low
- Compressor too small
- Too large a valve
- Oil logged in capillary tubes
- Short circuiting of receiver and line

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