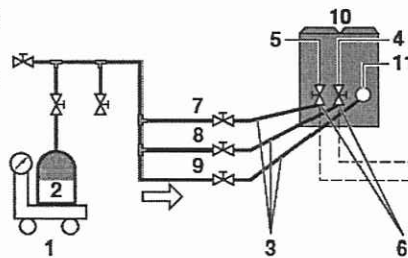


The automatic refrigerant charging has limits as described below.

● out of limit, the system can not operate the automatic refrigerant charging.

Outdoor temperature : 0°C DB-43°C DB
 Indoor temperature : 10°C DB-32°C DB
 Total indoor unit capacity : ±50%

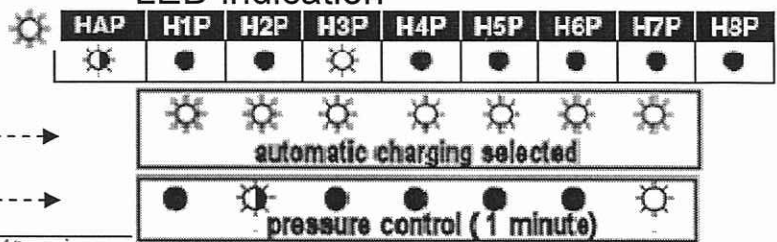


- 1 Measuring instrument
- 2 Tank (siphon system)
- 3 Charge hose
- 4 Liquid line stop valve
- 5 Gas line stop valve
- 6 Stop valve service port
- 7 Valve B
- 8 Valve C
- 9 Valve A
- 10 Outdoor unit
- 11 Refrigerant charge port
- 12 To indoor unit
- 13 Interunit piping
- 14 Refrigerant flow

- step 1 : calculate trim charge "G" by formula
- step 2 : precharge volume ≤ trim charge - 10 kg through liquid line service port of liquid stop valve : 2→8→4
- step 3 : stop pre-charge : close valve "8".

- step 4 : automatic charge :
 - 4.1 : open both stop-valves 4 + 5 .
 - 4.2 : push "Test" BS4 once
 - 4.3 : hold "Test" BS4 ± 5 sec.

LED indication

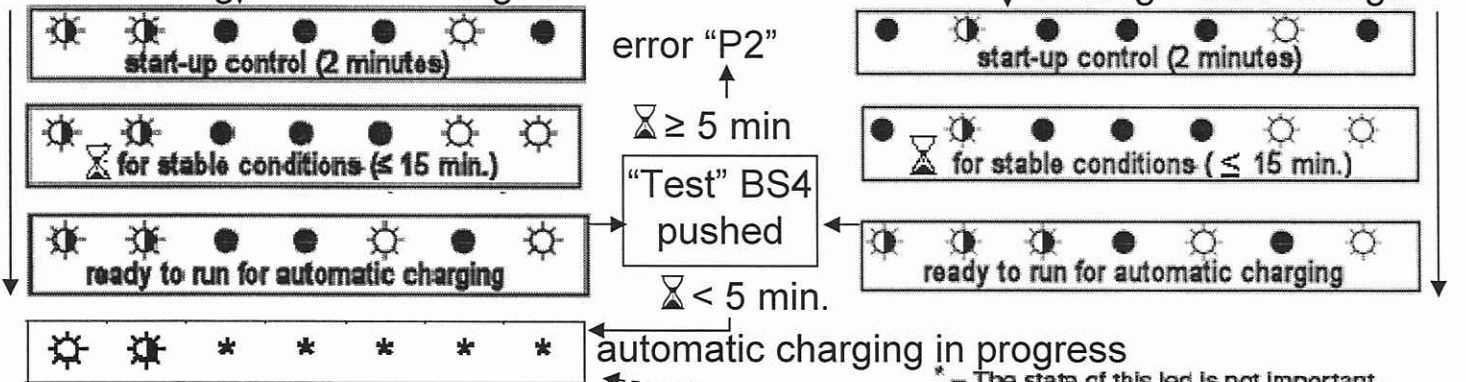


Or Outdoor < -2°C
 Or Outdoor < 21°C & indoor < 8°C

Outdoor > -2°C & indoor ≥ 8°C

Heating = manual charge !

Cooling = auto-charge



➢4.5 : open valve 9 & close front panel LED3~7 ON= LP >7.5b, if LED7 LP <3.0 b

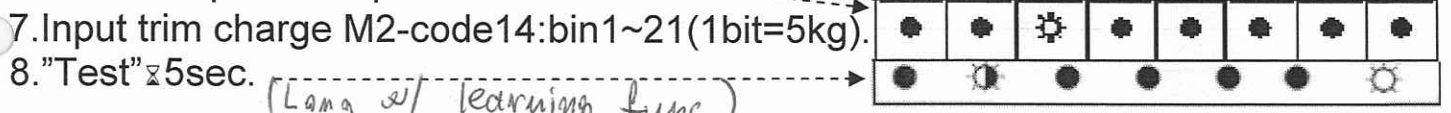


- 4.7 : push BS3 "Return" : stop heating
- 4.8 : push BS 4 "Test : ? temperature range IN RANGE for charging COOLING
 6. ← "Mode" BS1 once to stop
- 4.9 : charge Cooling mode

➢4.10 : caution nearly termination automatic charging : remote controller PE

- 4.11: termination charge :
 - ⊗ remote controller P9 : close valve 9

- 5. Check end condition : push 1x "Test" BS4
- 6. Normal operation: push 1x "Mode" BS1



- 7. Input trim charge M2-code14:bin1~21(1bit=5kg).
- 8. "Test" x5sec. (Lang w/ learning func.)

M2-code 3 - 01 → 02 ↺ ↻