

Observe the following conditions prior to the A/C performance test:

1. Connect diagnosis system. Check of the fault memory (no faults in the fault memory).
2. Attach a thermometer with separate display element to the head restraint. Lay display element outwards out of passenger compartment.
3. Perform the test in a suitable workshop area with an ambient temperature above 18° C.
4. Vehicle temperature should be approximately the same as the ambient temperature in the workshop.
5. Engine must be at operating temperature (does not apply for electric vehicles).

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Heat passenger compartment:

- "A/C button" is **not** activated during the heating process
- Close all windows and doors.
- Set air recirculation function.
- Select air distribution mode for footwell and defrosting.
- *On vehicles with CID:* In A/C menu (CID) in Air distribution index tab: select 100 % footwell for driver and front passenger and 100 % defrosting for driver (this applies here to driver and front passenger)
- Maximum temperature setting
- Maximum blower speed
- Start engine (does not apply for electric vehicles)

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Cool down passenger compartment:

Switch on air conditioning compressor with "A/C button" at a vehicle interior temperature of 45 °C (measured at the head restraint).

On vehicles with MAX-AC button:

- Activation of MAX-AC (= maximum cooling power)

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On vehicles without MAX-AC button:

- Set maximum cooling power by means of following steps:
 - Setting minimum temperature
 - Blower setting maximum
 - Stratification maximum cold (4 blue bars)
 - Only ventilation open
 - Close remaining flaps (air outlet **only** from centre fresh air grille, left and right)

After 5 minutes measure both ventilation temperatures with a thermometer at the same time (fresh air grille centre, left and right). The measured temperature must be ≤ 16 °C and the difference between right and left may not be greater than 2 °C.

If one or both temperature specifications is not reached [drain off heating and air conditioning system](#). Measure amount of refrigerant drawn off.

If drawn-off quantity does not correspond to [specified fill quantity](#): supplement refrigerant and repeat test.

If capacity is correct, continue troubleshooting by pressure measurement.