Performance Test



NOTE: The graph (Inspection data) below shows humidity between 30% and 90%, in increments of 10%.

Tolerance is ±10% when taking a reading.

1. Connect gauges as shown.

NOTE: Set a attachement (commercially available) to the high pressure side hose first.

- Insert a dry bulb thermometer in the cold air outlet, and place the psychrometer (dry and wet bulb thermometer) close to the inlet of blower. Do not spill wet bulb water.
- 3. Test conditions:
 - Avoid direct sunlight.
 - Open engine hood.
 - Open front doors and windows.
 - Set the temperature control dial to MAX COLD and push the VENT and FRESH buttons.
 - Turn the fan switch to 4.
 - Run the engine at 1,500 min⁻¹ (rpm).
 - No driver and passengers in car.
- After running the system for about 10 minutes under the above conditions, read the thermometer and pressure valve.
- The performance of the system is satisfactory if the measurements are within the range bands shown on the Performance Chart.

Proper intake/delivery pressure and temperature ranges are shown on the chart to right.

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Measurements: Intake temperature

(Dry bulb): 28°C (84°F)

Humidity: 60%

Delivery temperature: 12°C (53.6°F)

Delivery pressure: 1250 kPa (12.5 kg/cm², 178 psi) Intake pressure: 180 kPa (1.8 kg/cm², 25.6 psi)

Find your intake temperature across the bottom, and the relative intake and delivery pressures, and delivery temperature on the side. Draw a line through the chart at right angles to each of your measurement the vertical line should intersect each horizontal line within the range bands on the graph.

NOTE: After the test is complete, when the high pressure gauge hose is disconnected, remove the attachment from the high pressure test valve.



