How do you use heating, ventilation and air conditioning system in your car?

I. Respondent data
   1. You are
      ○ a. male
      ○ b. female
   2. Your age
      ○ a. younger than 30 years
      ○ b. from 30 till 50 years
      ○ c. more than 50 years

II. Car data
   1. Fuel type
      ○ a. gasoline
      ○ b. diesel
      ○ c. other
   2. Powertrain type
      ○ a. manual transmission
      ○ b. automatic transmission
      ○ c. hybrid-electric vehicle
      ○ d. all electric vehicle
   3. Car age
      ○ a. less than 3 years
      ○ b. from 3 up to 5 years
      ○ c. from 5 up to 10 years
      ○ d. more than 10 years
   4. Heating, ventilation and air conditioning (HVAC) system type
      ○ a. manual control
      ○ b. automatic control
   5. Cabin filter type
      ○ a. no filter
      ○ b. dust filter
      ○ c. carbon filter
   6. Do you use additional equipment for air purification
      ○ a. nothing
      ○ b. additional in-cabin filter
      ○ c. air purifier other than filter
III. Time inside a car

1. Do you store your car in a garage
   - a. outside
   - b. car port, roof only
   - c. inside garage

2. Do you pre-heat or pre-cool the interior prior to driving, if your answer “no” then skip the next question.
   - a. no
   - b. yes, outside the vehicle with remote key fob or phone application
   - c. yes, while waiting in the vehicle

3. What time do you usually wait to pre-heat or pre-cool the interior

<table>
<thead>
<tr>
<th>time</th>
<th>winter time</th>
<th>summer time</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. less than 5 minutes</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>b. 5 to 10 minutes</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>c. 10 to 15 minutes</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>d. more than 15 minutes</td>
<td>☐</td>
<td>☐</td>
</tr>
</tbody>
</table>

4. What total time do you usually drive inside a car daily
   - a. less than ½ hour
   - b. from ½ to 1 hour
   - c. from 1 to 2 hours
   - d. more than 2 hours

5. What total time do you usually idle inside a parked car with engine running

<table>
<thead>
<tr>
<th>time</th>
<th>winter time</th>
<th>summer time</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. never</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>b. less than 5 minutes</td>
<td>☐</td>
<td>☐</td>
</tr>
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<td>☐</td>
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</tr>
<tr>
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<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>e. more than 15 minutes</td>
<td>☐</td>
<td>☐</td>
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</table>
6. Have you ever smelled an unpleasant odor inside a car while parked with the engine running
   ○ a. no
   ○ b. yes

7. Have you ever smelled an unpleasant odor inside a car while driving
   ○ a. no
   ○ b. yes

please see next page
IV. Heating, ventilation and air conditioning system (HVAC) operation modes settings

NOTES:

- Mark all that apply
- If automatic “auto” mode is selected some items will be left unmarked

1. HVAC operation modes in winter time

<table>
<thead>
<tr>
<th>Driving mode</th>
<th>Heating/conditioning</th>
<th>Auto Mode</th>
<th>Recirculation</th>
<th>Ventilation speed</th>
<th>Ventilation direction</th>
<th>Temperature setting inside car (deg. Celsius)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>on</td>
<td>off</td>
<td>on</td>
<td>off</td>
<td>open window</td>
<td>≤18 19-20 21-22 23-24 ≥25</td>
</tr>
<tr>
<td>parking</td>
<td>on</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>driving</td>
<td>off</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tbody>
</table>

2. HVAC operation modes in summer time

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<th>Recirculation</th>
<th>Ventilation speed</th>
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<tr>
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<td>off</td>
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