

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 you usually wait to pre-heat or pre-cool the interior

time	winter time	summer time
a. less than 5 minutes		
b. 5 to 10 minutes		
c. 10 to 15 minutes		
d. more than 15 minutes		

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

time	winter time	summer time
a. never		
b. less than 5 minutes		
c. 5 to 10 minutes		
d. 10 to 15 minutes		
e. more than 15 minutes		

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

