Mobile Air Conditioner
Leakage Rate Report Form
High Global-Warming Potential Gases
Doc Type: Mobile Sources

Instructions on Page 2

Purpose: The State of Minnesota has developed greenhouse gas reduction goals (Minn. Stat. § 216H.02, subd. 1). One component of the reduction goals is to provide consumers with information regarding emissions of gases that have a high global-warming potential. Legislation was passed in early 2008 (Minn. Stat. § 216H.12) that requires reporting of leakage rates from motor vehicle air conditioners using HFC-134a as a refrigerant.

Submit completed reports by e-mail to: MobileAirReport.PCA@state.mn.us or by mail to: Azra Kovacevic, Minnesota Pollution Control Agency, 520 Lafayette Road North, St. Paul, MN 55155.

Reporting Information

1. Manufacturer name: ____________________________________________

2. Contact name: ___________________________ Phone:______________________
   Contact e-mail address: ____________________________________________
   2a. Today’s date (mm/dd/yyyy): ________________________________

3. Type of air conditioner system: □ Single evaporator □ Double evaporator

4. Individual vehicle make and model: __________________________ or group ID: __________________
   4a. Type of vehicle(s) in this group: □ Crossover □ Minivan □ Passenger car □ Pickup □ SUV □ Other/Multiple
       Other/more than one (describe): ______________________________________

5. Model year of vehicle(s) offered for sale: ________________________

6. Revision date of SAE J2727 used for calculation: ________________

7. Maximum SAE J2727 leakage rate for vehicle or group (grams per year [g/yr]): ________________
   7a. Charge size of AC system in Item 7 (kilograms): ________________

8. Is an alternative test method report being submitted for this vehicle/group: □ Yes □ No
   8a. Describe the alternative test method: __________________________
   8b. Alternative test method results (g/yr): __________________________

9. Name of person certifying this submittal, if different from Item 2: _______________________
   9a. Certification of timing:
       I certify that this report is being submitted at least 90 days prior to the vehicle(s) initially being offered for sale in Minnesota.
       □ Yes □ No
       If no, explain: _____________________________________________

9b. Certification of content:
   I certify that the enclosed documents were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. The information submitted is, to the best of my knowledge and belief, true, accurate, and complete.
   □ Yes □ No
   If no, explain: _____________________________________________
Instructions

Who should report?
Vehicle manufacturers who sell new cars, pick-up trucks or sport-utility vehicles in Minnesota.

Note: For vehicles that are manufactured by one company but sold under another company’s nameplate or brand, it is acceptable for the manufacturer to prepare the report for all the vehicles it produces. To ensure that all makes and models are reported and to avoid duplication, manufacturers and purchasers/marketers should agree on who will be responsible for their data prior to a report’s being submitted.

Which vehicles are included?
Light duty vehicles (up to 8,500 lbs. gross vehicle weight rating (GVWR)) and medium duty passenger vehicles (up to 10,000 lbs. GVWR) that use HFC-134a as a refrigerant, for model year 2009 and later.

When does this apply?
This requirement applies to qualifying new motor vehicles sold in Minnesota on or after January 1, 2009.

What needs to be done?
- Calculate the air conditioner leakage rate using the method in the most recent version of the Society of Automotive Engineers (SAE) International document J2727 HFC-134a Mobile Air Conditioning (MAC) System Emission Chart.
- After October 1, 2008, the report is due at least 90 days before a vehicle is initially offered for sale for new models or models in which the air conditioner system has been changed from the original report.

Instructions for Completing Form
1. Enter the name of the vehicle manufacturer reporting the air conditioner leakage rate.
2. Enter the name, telephone number, and email address of the person to contact with questions regarding the information on this report.
2a. Enter the date the report is being completed.
3. Select single or dual evaporator for the type of MAC system being reported.
4. If the leakage rate on this form is for only one vehicle, enter the vehicle’s make and model. If you are aggregating your report for a group of vehicles, provide an identifier for that grouping. Note that vehicles within the same MAC group should have a similar compressor type, similar amounts and types of hosing, a similar number and type of system connections, the same refrigerant, and a similar refrigerant charge.
4a. For groups, select the type of vehicle included. If more than one vehicle type is in the group, enter the types of vehicles.
4b. For groups, enter the vehicle makes and models included.
5. Enter the model year of the vehicle(s) that is/are to be offered for sale in Minnesota.
6. Enter the revision date of the version of SAE International document J2727 HFC-134a Mobile Air Conditioning System Emission Chart that was used to complete the calculations summarized in the table on this form.
7. Enter the maximum (worst case) leakage rate for the vehicle or for the group listed in Item 4. This leakage rate must be determined using the most recent SAE J2727 revision listed in Item 6.
7a. Enter the refrigerant charge size associated with the leakage rate entered in Item 7.
8. Optional question: Select yes or no for whether a supplemental data using an alternative test method is being submitted.
8a. Describe the alternative test method and how it is used to calculate leakage rate.
8b. Enter the worst case leakage rate for the vehicle or for the vehicle or group listed in Item 4 using the alternative test method.
9. Enter the name of the person certifying this submittal, if different from Item 2.
9a. Check to certify the timing of this submittal is at least 90 days prior to the vehicle(s) initially being offered for sale in Minnesota.
9b. Check to certify the content of this submittal.