

Enterprise and Industry Directorate-General

The European Legislation on Mobile Air Conditioning Systems

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Mobile Air Conditioners (MACs)

Subject matter

- Type approval of vehicles as regards emissions from, and the safe functioning of air conditioning systems fitted to vehicles
- Retrofitting and refilling of such systems

Scope

- passenger cars M1
- certain commercial vehicles N1 class I

Mobile Air Conditioners (MACs)

3 legal acts

- Directive 2006/40/EC relating to emissions from air conditioning systems in motor vehicles
- Commission Regulation (EC) No 706/2007 laying down administrative provisions for the EC type-approval of vehicles, and a harmonised test for measuring leakages from certain air conditioning systems
- Commission Directive 2007/37/EC amending Annexes I and III to Council Directive 70/156/EEC

Mobile Air Conditioners (MACs)

All 3 acts applicable as from

5 January 2008

 Voluntary type-approval possible as from that date

The main objectives of MACs Directive

The **control of leakage** of certain fluorinated greenhouse gases with a global warming potential (GWP) higher than 150 in MACs

Mandatory type-approval

- 21 June 2008 for new types of vehicles
- 21 June 2009 for all new vehicles

The main objectives of MACs Directive

The **prohibition** of MACs using F-Gases with GWP>150 from dates

- 1 January 2011 for new types of vehicles
- 1 January 2017 for all new vehicles

Training programmes for personnel

Regulation (EC) No 842/2006 on certain fluorinated greenhouse gases

- F-gases (also in mobile equipment) shall, to the extent that it is technically feasible and does not entail disproportionate cost, be recovered by appropriately qualified personnel, to ensure their recycling, reclamation or destruction
- Rules on appropriate qualification of personnel recovering F-gases from MACs to be established

Training attestation to personnel

Commission Regulation to be adopted soon

- Minimum requirements for training programmes of personnel
- Conditions for mutual recognition

Training attestation to personnel

- Training course covering minimum skills and knowledge (set out in the legislation) introduced
- Training attestation holder considered appropriately qualified
- Attestation body to be provided by law or designated by the competent authority
- Member States shall give mutual recognition to training attestations issued in other Member States
- → **Transitional period** introduced

CO₂ Communication

Communication from the Commission (7.02.2007) on the review of the Community Strategy to reduce CO₂ emissions from cars

- Average new car fleet will have to reduce emissions to no more than 130 g/km CO2 through vehicle technology
- Additional 10 g/km by other technological improvements and increased use of bio-fuels

These **complementary measures** include efficiency improvements for car components with the highest impact on fuel consumption:

- Efficiency requirements for air-conditioning systems
- Tyre pressure monitoring systems
- Low rolling resistance tyres
- Gear shift indicators
- Mandatory fuel efficiency targets for LCV

CO₂ strategy

1st step

- CO₂ proposal adopted by the Commission on 19
 December 2007
- Based on Article 95 EC Treaty
- The proposed Regulation implements part of the integrated approach by establishing emission performance standards for new passenger cars

CO₂ strategy

Next steps

- Complementary measures
- ✓ Vehicle Safety Regulation proposal to be adopted soon
- ✓ Efficiency requirements for MACs

Efficiency requirements for MACs

- Legislative proposal to be expected
- Commission looking currently at different options
 - Virtual testing
 - Physical testing
- Public consultation to be launched

Thank you!

Thank you for your attention!

http://ec.europa.eu/enterprise/automotive/pagesbackground/pollutant_emission/index.htm#macs