

First meeting

EGEA WG 9

Mobile Air-Conditioning

Brussels, 06th December 2011



3. Background to the ASA - MAC Working Group

ASA

The German Garage Equipment Association

- ▶ **Worked directly with the VDA to create a 1234YF product spec.**

4. Reasons & intentions to form a similar EGEA WG

- **The VDA specification is a German VM focus and there is no EU/ISO standard for 1234YF Servicing Stations.**
- **Would an European ISO standard benefit both the equipment manufacturers and users?**
- **What are the alternatives?**



Reference Standards

A mix of existing American standards or EU Directives:

SAE J639: Safety standards for motor vehicle refrigerant vapour compressor system

SAE J2844: Refrigerant Purity and Container Requirements for HFO-1234yf refrigerant used in MAC systems

SAE J2843: HFO-1234yf RRR Equipment for flammable refrigerant for MAC systems

SAE J2888: HFO-1234yf Service hose, fittings and couplers for mobile refrigerant systems service equipment

SAE J2770: HFO-1234yf Service standards for MAC systems

SAE J2099: Standard of purity for recycled HFC-134a and HFO-1234yf for use in MAC Systems

UL 1963

UL 1604

CE Marking which includes:

PED: Pressure Equipment Directive (Directive 97/23/EC)

ATEX 95: Equipment Explosive Atmospheres Directive (Directive 94/9/EC)

EMC: Electromagnetic Compatibility Directive (Directive 2004/108/EC)

LVD: Low Voltage Directive (Directive 2006/42/EC)

Machinery: Machinery Directive (Directive 2006/42/EC)

Batteries and Accumulator Directive: (Directive 2006/66/EC)

WEEE: Directive 2002/96/EC

RoHS: Directive 2002/95/EC



5. Purpose and terms of reference (TOR) for the WG (1)

- **What TOR's should we use?**
- **Do we need two levels of reference?**
- **Do we need an EU Standard as the reference?**
- **What are the technical and commercial objectives?**



5. Purpose and terms of reference (TOR) for the WG (2)

- **Is the VDA standard the right benchmark?**
- **Does it meet the VM and Aftermarket requirements?**
- **To discuss and agree an EGEA position for 1234YF servicing stations, leak detectors and other associated equipment or training needs.**



6. Discussion on how to proceed



- **Practically**
- **Allocation of work**
- **Delegates' commitment**

7. Decision and next steps

- **Timescales**
- **ISO Standard process, if appropriate**
- **Meeting schedule and location(s)**



8. EC Public Consultation

EC Public Consultation on the reduction of fluorinated greenhouse gas emissions

- **Implications for WG9 members?**
- **Should EGEA respond?**





Thank you!

