



SURFACE VEHICLE STANDARD

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Criteria for Refrigerant Identification Equipment for Use with
Mobile Air-Conditioning Systems

RATIONALE

This document applies to R12 refrigerant which has been phased out of OEM usage since 1995. This standard covers technology, products, or processes which are mature and not likely to change in the foreseeable future.

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Foreword—The purpose of this SAE Standard is to establish criteria for refrigerant identification equipment intended for use with or without recycling equipment when removing refrigerant from Mobile Air-Conditioning (A/C) Systems or from refrigerant containers prior to charging a mobile A/C system.

Establishing such specifications will provide a means to identify relatively pure refrigerant CFC-12 (R-12) or HFC-134a (R-134a) from mixtures of refrigerants (HFC, HCFC, CFC, hydrocarbons, etc.), in a mobile system prior to recovering/recycling (R/R) the refrigerant or prior to charging an A/C system from a refrigerant container.

1. Scope—This SAE Standard applies to refrigerant identification equipment to be used for identifying refrigerant CFC-12 (R-12) and HFC-134a (R-134a) refrigerant when servicing a mobile A/C system or for identifying refrigerant in a container to be used to charge a mobile A/C system. Identification of other refrigerants are the option of the equipment manufacturer.

2. References

2.1 Applicable Publications—The following publications form a part of this specification to the extent specified herein. Unless otherwise indicated, the latest issue of SAE publications shall apply.

2.1.1 SAE PUBLICATION—Available from SAE, 400 Commonwealth Drive, Warrendale, PA 15096-0001.

SAE J639—Safety and Containment of Refrigerant for Mechanical Vapor Compression Systems Used for Mobile Air-Conditioning Systems

2.1.2 UL PUBLICATION—Available from Underwriters Laboratories, Inc., 333 Pfingsten Road, Northbrook, IL 60062-2096. (1-800-704-4050)

UL 1604—Electrical Equipment for Use in Class I and II, Division 2 and Class III Hazardous (Classified) Locations

3. Equipment evaluated under this document shall have the following specification and general description.

3.1 The equipment shall be suitable for use in an automotive service garage environment and be capable of continuous operation in ambients from 10 to 49 °C.