AHRI Guideline K

2015 Guideline for

Containers for Recovered Non-flammable Fluorocarbon Refrigerants

AHRI
AIR-CONDITIONING, HEATING, & REFRIGERATION INSTITUTE
we make life better™

2111 Wilson Boulevard, Suite 500
Arlington, VA 22201, USA
www.ahrinet.org
PH 703.524.8800
FX 703.562.1942

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IMPORTANT

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Note:

This guideline supersedes AHRI Guideline K-2009.

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CONTAINERS FOR RECOVERED NON-FLAMMABLE FLUOROCARBON REFRIGERANTS

Section 1. Purpose

1.1 *Purpose.* Recovery, recycling and Reclamation of certain non-flammable fluorocarbon refrigerants will prevent unnecessary release of these compounds. For practical and safety reasons, there is a need for containers designed and identified specifically for these uses. This document is intended as a recommended guide of good practice to be used on a voluntary basis by all who supply, use, store or transport these containers. In certain instances, this document sets forth federal requirements as of the date of publication hereof. This document is not intended to be an exhaustive listing of all such requirements. Applicable federal, state, and local requirements should be reviewed.

1.1.1 *Intent*. This guideline is intended for the guidance of the industry, including manufacturers, engineers, installers, contractors, and users.

1.1.2 *Review and Amendment*. This guideline is subject to review and amendment as technology advances.

Section 2. Scope

2.1 *Scope.* This guideline applies to cylinders with a maximum Service Pressure of 400 psig and ton tanks with a maximum Service Pressure of 500 psig for the receipt, storage and transportation of Recovered Non-flammable Fluorocarbon Refrigerants.

Where this guideline mentions regulations that are mandated by the United States Federal Government, the reference to the Federal regulation is provided.

2.2 *Exclusions.* This guideline does not apply to American Society of Mechanical Engineers (ASME) pressure vessels for on-site recovery and storage that are not U.S. Department of Transportation (DOT) approved for transportation of non-flammable fluorocarbon refrigerants.

Section 3. Definitions

All terms in this document shall follow the standard industry definitions in the current edition of ASHRAE Terminology website (https://www.ashrae.org/resources--publications/free-resources/ashrae-terminology) unless otherwise defined in this section.

3.1 *Reclamation.* To reprocess refrigerant to new product specifications, by means which may include distillation. Chemical analysis of the refrigerant will be required to determine that appropriate product specifications are met. This term usually implies the use of processes or procedures available only at a reprocessing or manufacturing facility.

3.2 *Recovered Non-flammable Fluorocarbon Refrigerant.* Refrigerant that has been removed from a system for the purpose of storage, recycling, Reclamation or transportation.

3.3 *Service Pressure*. The rated pressure marked on the cylinder or ton tank.

3.4 *Special Permit Cylinder*. A cylinder that has been by authorized by the DOT to be manufactured outside the scope of existing DOT regulations but in accordance with the requirements specified by DOT in a special permit. The requirements in the special permit may include design, composition, manufacture, testing, marking, and transportation criteria as well as special provisions.

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