



TECHNICAL DATA

VSH200 EXTINGUISHING AGENT

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The technical data described herein is for components of the Viking VSH200 Clean Agent Systems.

For design, installation, and operation instructions, refer to the latest edition of the original source documents as outlined below.
VSH200: Installation and Service Manual (Part No. 932167), Design Manual (Part No. 932165), and Operation Manual (Part No. 932169).
Visit the Viking website for the latest edition of the technical manuals listed above.

1. DESCRIPTION

The Viking VSH200 Fire Extinguishing System uses HFC-227ea agent, which is a zero ozone depleting replacement for Halon 1301 for use as a gaseous fire suppression agent. It generally finds use in Data Processing, Clean Rooms, Museums, and Telecommunication Facilities, protecting expensive equipment or contents. HFC-227ea agent is a colorless, odorless, non-toxic fire suppression agent, which has zero ozone depletion, low global warming, and a short atmospheric lifetime. Extinguishment is by a combination of chemical and physical mechanisms, causing an interruption in the fire chemistry.

2. LISTINGS AND APPROVALS



UL Listed: For the Clean Agent Fire Extinguishing System



FM Approved: For the Clean Agent Fire Extinguishing System

3. TECHNICAL DATA

Specifications

Minimum and Maximum Agent Storage Temperatures: 0°F to 122°F (-18°C to 50°C)

Minimum and Maximum Temperatures of Protected Spaces per UL and FM: 60°F to 80°F (15.6°C to 26.7°C)

Chemical Formula: C₃HF₇

Chemical Name: 1,1,1,2,3,3,3-Heptafluoropropane

Molecular Weight: 170.03

ISO Designation: HFC-227ea

Density, Liquid @ 77 °F (25 °C): 86.53 lb/ft³ (1.386 g / cm³)

Melting Point: -204 °F (-131 °C)

Boiling Point: 2.5 °F (-16.4 °C)

Viscosity, Liquid @ 77 °F (25 °C): 0.443 lb/ft/hr (0.184 centipoise)

Heat of Vaporization @ BP: 57.0 BTU / lb (132.6 kJ / kg)

Vapor Pressure @ 77 °F (25 °C): 65.7 psi (4.53 bar)

Environmental Properties: No ozone depletion potential (ODP 0)

Low global warming potential (GWP 3500)

Atmospheric Lifetime 31-42 years

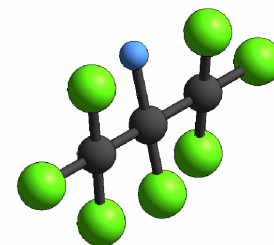
Ordering Information

DuPont HFC-227ea agent Part Number: 887745

Waysmos HFC-227ea agent Part Number: 18878



WARNING: Cancer and Reproductive Harm-
www.P65Warnings.ca.gov



**Figure 1: HFC-227ea
Agent Molecule**