

Storage of Solstice[®] yf Refrigerant (R-1234yf)

Indoor Storage and Classification Guidelines for
Warehouses, Retail Stores and Service Shops

International Building Code & National Fire Protection Agency Occupancy Classification

Storage Quantity Single Control Area	Un-Sprinklered		Sprinklered	
	No Cabinets	Approved Cabinets	No Cabinets	Approved Cabinets
0 – 150 lbs	S-1, M, F-1	S-1, M, F-1	S-1, M, F-1	S-1, M, F-1
150 – 300 lbs	Sprinklers are required for these volumes	S-1, M, F-1	S-1, M, F-1	S-1, M, F-1
300 – 600 lbs			H-2*	S-1, M, F-1
>600 lbs			H-2*	H-2*

* H-2 is the IBC Occupancy Class and is essentially equivalent to NFPA55 Protection Level 2.

H-2 Occupancy Requirements

H-2 Occupancy Requirements are not easily achieved and an expert in local, state and federal building codes should be consulted. Floor area limitations, exterior wall area minimums, explosion protection, fire detection and automatic sprinkler requirements are a few of the considerations to take into account if High Hazard (H-2) Occupancy volumes are stored.

R-1234yf

- Hazard Class 2.1
- Liquefied Gas
- Flammable
- ASHRAE A2L
- LFL = 6.2%
- UFL = 12.3%

Use and Occupancy Class

IBC Classification Groups

2012 (Second Printing)

Chapter 3


- S = Storage
- M = Mercantile
- F = Factory
- H = High Hazard





Disposable Cylinder Inside Carton
10 lb or 25 lb Cylinders Available

Transporting Solstice[®] yf Refrigerant

North America – Aftermarket Cylinders (25 lb and 10 lb)

Element	Requirement	Examples and Location
Cylinder Type	US and MX - Non-Returnable DOT 39 Canada - Returnable 4BA (TC Certified)	n/a
Proper Shipping Name	Liquefied gas, Flammable, n.o.s. (R-1234yf)	Near DOT Label
UN Number	UN3161	Near DOT Label
DOT Label and Hazard Class	Minimum 100 mm (3.9 inches) Red Flammable Diamond Hazard Class 2.1	Square On Point On outside of carton 

Global Harmonized Standard (GHS) Label – Required on all packages

Element	Requirement	Examples and Location
Chemical Name and CAS No.	2,3,3,3-Tetrafluoroprop-1-ene 754-12-1	Near GHS or Dangerous Goods Information
GHS Label	Compressed Gas Pictogram and Flammable Pictogram	 
GHS Warning	DANGER	Near Pictograms
GHS Languages Required: USA - English Canada - English and French Mexico and South America - English, Spanish and Portuguese	Extremely flammable gas. Contains gas under pressure; may explode if heated. May displace oxygen and cause rapid suffocation. Prevention: Keep away from heat/sparks/open flames/hot surfaces. No Smoking. Response: Leaking gas fire: Do not extinguish, unless leak can be stopped safely. Eliminate all ignition sources if safe to do so. Storage: Protect from sunlight. Store in a well-ventilated place.	



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Honeywell Refrigerants

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Chemical Name
CAS Number

DOT Label
Hazard Class

GHS Information

Proper Shipping
Name & UN Number



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