



CALIFORNIA AIR RESOURCES BOARD (CARB) CLEAN PATH TO REGULATORY COMPLIANCE

In December 2020, CARB approved rules to further restrict the use of synthetic refrigerants for refrigeration units and systems. Some of the new regulations are effective as early as 2022 with additional requirements set for 2026 and 2030.

OVERVIEW OF CARB RULING

NEW FACILITY COMPLIANCE EFFECTIVE JANUARY 1, 2022

- Systems with a charge **less than** 50 pounds can use SNAP approved refrigerants with Global Warming Potentials (GWP's) **less than** 2,200
- Systems with a charge **greater than** 50 pounds will require SNAP approved refrigerants with GWP's **less than** 150

EXISTING FACILITY COMPLIANCE

- Retailers can use one of two options for 2030 compliance
- Retailers can begin taking credit for fleet Greenhouse Gas Potential (GHGp) reduction using 2020 reworks

OPTION 1

- Reduce the total GHGp of refrigerants 55% below 2019 baseline by 2030 (**per company** not per system / store)

OPTION 2

- Reduce the weighted average GWP of refrigerants used to less than 1,400 by 2030:
 - Fixed target; no need for tracking company baselines
 - Per company not per system / store
 - Retailers **under** 20 stores have until 2030 to achieve
 - Retailers **over** 20 stores have until 2026 to show path to compliance and baseline of each location

SUSTAINABLE SOLUTIONS FOR AN EVER-CHANGING REGULATORY ENVIRONMENT

Hussmann stands ready to help you navigate these regulations and plan for the coming years to ensure your refrigeration assets are well managed and equipment life is not cut short.



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Compliance Reporting Requirements

FOR RETAIL FOOD FACILITY OWNER-OPERATORS

- Refrigerant Registration (2022) & Reporting (R3) System for New GWP < 150 Facilities
 - **ACTION:** Register for **FREE** by January 1, 2022
- Existing Facility Compliance (2022)
 - **ACTION:** Annually report and certify
 - **ACTION:** Keep records
 - **ACTION:** Update R3

“NEW FACILITY” DEFINITION:

- New construction;
- An existing facility not previously used for cold storage, retail food refrigeration, commercial refrigeration, industrial process refrigeration; or
- An existing facility used for cold storage, retail food refrigeration, commercial refrigeration, or industrial process refrigeration; with a replacement of 75 percent or more of evaporators (by number) and, 100 percent of compressors racks, and 100 percent of condensers.

NOTE: CARB has not provided guidance on thresholds for enforcement (e.g. 74% instead of 75%).

“COMPANY” DEFINITION:

- All businesses, affiliates, brands, or subsidiaries or franchises, owned or operated by the same parent company.

SIGNIFICANT NEW ALTERNATIVES POLICY (SNAP):

- Requires the EPA to evaluate substitutes for the ozone-depleting substances to reduce overall risk to human health and the environment.

Customer-Focused Solutions

Hussmann has a long history of innovation – continually updating current product offerings and developing new solutions to help reduce your environmental impact and satisfy regulatory requirements.

Hussmann can help you understand benefits and trade-offs associated with each solution and make the most of incentive and rebate programs.

REFRIGERANTS AVAILABLE				
REFRIGERANT NAME	COMMON NAME	ASHRAE CLASS	OZONE DEPLETING POTENTIAL (ODP)	GLOBAL WARMING POTENTIAL (GWP)
R-717	Ammonia	B2L	0	0
R-744	CO ₂	A1	0	1
R-290	Propane	A3	0	3
R-513A	Opteon XP10	A1	0	631
R-448A	Solstice N40	A1	0	1387
R-449A	Opteon XP40	A1	0	1397
R-134a	HFC-134a	A1	0	1430
R-407C	R-407C	A1	0	1774
R-407F	R-407F	A1	0	1825
R-410A	Puron, AZ-20	A1	0	2088
R-407A	KLEA 60	A1	0	2107
Legacy Solutions				
R-404A	HP-62	A1	0	3900
R-507A	AZ-50	A1	0	3985

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