



CDFA OFFICE OF
FARM to FORK

California Department of Food and Agriculture

Office of Farm to Fork

Farm to Community Food Hubs Grant Program

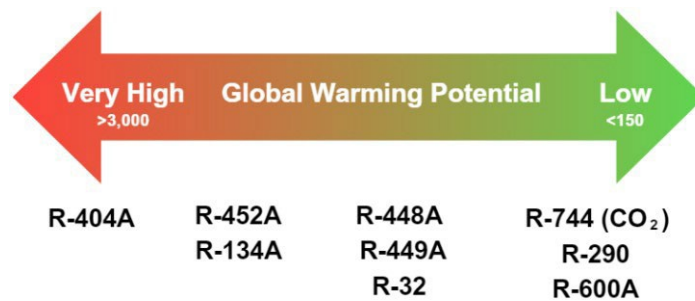
Guide and Manufacture List: Climate-Friendly and Energy Efficient Equipment

As part of the Farm to Community Food Hubs Grant Program, the California Department of Food and Agriculture encourages (but does not require) grant recipients to purchase the most energy-efficient and climate-friendly refrigerated equipment possible.

Energy Efficiency. Grant recipients are encouraged to purchase the most energy-efficient equipment available. All equipment will have a rated cooling capacity. This is the amount of cooling the unit can achieve. This will vary on its size, design, product type, and operating conditions. When comparing stand-alone units, use the [Energy Star Product Finder Tool](#) to search for options.

Climate and Environmental Friendliness. A key factor in determining climate-friendliness is the choice of refrigerant. Conventional, high global warming potential (GWP) refrigerants are being phased out and their prices are expected to increase rapidly in the coming years. Buying climate-friendly refrigerants will ensure that costs of replacing leaked refrigerants are kept low throughout the unit’s lifetime.

When there is a choice of refrigerants used, choosing the lowest GWP option is considered the most climate friendly.



- Many refrigerants used today are very potent greenhouse gasses. GWP is the metric used to compare the relative warming impacts of greenhouse gasses, including refrigerants. Refrigerants today are often thousands of times more polluting than carbon dioxide.
- The most climate-friendly refrigerants have low global warming potential GWP values.
- Examples of ultra-low GWP refrigerants that are climate-friendly include CO₂ (R744), propane (R-290) and isobutane (R-600a). The availability of these refrigerants varies depending on the type of equipment.

- Systems that contain over 50 pounds of refrigerant must be registered with the [California Air Resources Board Refrigerant Management Program](#).

Specific Manufacturer Information Submitted

These manufacturers responded to a publicized request for information. CDFA cannot recommend any manufacturer, equipment type, or distributor, and cannot guarantee all the products will be available in every location of the state. Manufacturers may make other product lines (in some cases many) that they did not submit to the request. Some manufacturers may also make ineligible equipment – it is applicants’ responsibility to select allowable units.

Company	Contact Information	Details
Novum USA	Terence.smith@novumusa.com or + 678 708 3687	Standalone equipment
RivaColdAmerica	TommasoScavone@rivacoldamerica.com or www.rivacold.com or +1 (678) 737-3530	CO2 systems, remote condensing units, R290 waterloop packaged systems, sealed systems
True Manufacturing	(800) 325- 6152	Self-contained units, remote display cases, and more. Network of distributors throughout the state
Z Group	info@zgroup-usa.com or +1 305-924-6483	Modular refrigeration solutions including CO2-based
Zero Zone	for cases: 262-392-6400; for systems: 763-398-1998	

Partial List of Manufacturers Producing Climate-Friendly Equipment

These lists are not comprehensive and there are many more manufacturers, brands, and models that could be considered climate friendly. CDFA cannot recommend any manufacturer, equipment type, or distributor, and cannot guarantee all the products will be available in every location of the state.

Stand-alone units (refrigeration & freezers) – the following list of manufacturers make equipment using hydrocarbons:

- AHT Cooling Systems USA
- Amerikooler
- Arneg USA
- Avantco
- Beverage Air
- Continental Refrigeration
- Hillphoenix
- Howard McCray
- Hussmann Corporation (also makes microdistributed systems that combine stand-alone cases)
- Kysor Warren
- Novum
- Rivacold America (microdistributed system)
- Summit Appliances
- True Manufacturing
- Zero Zone

Remote condensing units

- AREA Cooling Solutions

Walk-In coolers:

- Amerikooler

Outdoor cold storage:

- Amerikooler

- Kysor Warren
- Heatcraft
- Hillpheonix
- Hussmann
- Turbo Air

- Arctic Industries
- Heatcraft
- Kolpak
- Master-Bilt
- Nor-Lake
- Turbo Air
- Hussmann

- CoolBot
- Heatcraft
- Kolpak
- Leer
- Nor-Lake
- Turbo Air