

Food Retail Store Certification Program for Advanced Refrigeration Technology

Agenda

- Why we have a certification program
- Why stores should want to achieve certification
- Program overview
- Brief explanation of criteria
- Explanation of the process
- ▶ What you get
- Experience thus far
- ▶ Some guidance
- Special Thanks
- ▶ Contact info



GreenChill's Certification Program Why us?

- Environment is an important issue for consumers
- Consumer need for information
- Refrigeration is a large part of supermarket environmental footprint
- Need a way to recognize excellence
- ► It didn't exist yet
- ► We tried to get others to do it

GreenChill's Certification Program Why you? Recognition.

- Important for stores to communicate with customers about the environment
 - ▶ If you don't tell them, they don't know!
- ► THE big issue: global warming
 - Supermarket refrigeration/global warming very technical issues, difficult to communicate
- GreenChill's certification program does the communicating for you

GreenChill's Certification Program Overview

- ► EPA recognition for green refrigeration
- ► Two award levels: gold & silver
- Objective criteria for store achievement
 - Refrigerant charge
 - ► Refrigerant leak rate
 - Type of refrigerants used
- Process is easy, fast and free
- See http://www.epa.gov/greenchill/certcenter.html for details and guidance

GreenChill's Certification Program Overview

- ► May be re-earned annually
 - ▶ "Continued excellence" awards
 - ► May lose certification reapply in 1 yr.
- GreenChill may verify the information on your application by
 - ► inspecting the store
 - requesting third party certification
 - and/or requesting copies of store records related to the certification criteria

GreenChill's Certification Program Overview

- ▶ Do NOT have to be a GreenChill Partner
- ► Only for U.S. stores
- Only for supermarket-type stores
- ► Still a lot of "firsts"
- Taking suggestions for a good name

GreenChill's Certification Program Criteria for Gold

- ► All refrigerants in the store must have zero ozone-depleting potential. No R-22.
- ► Refrigerants must be on EPA's SNAP list
- Reduced refrigerant charge
 - ► Max 1.25 lbs. of refrigerant per 1000 BTU/hr. total evaporator cooling load
- ► Low leak rate
 - **▶**≤ 15%

GreenChill's Certification Program Criteria for Silver

- ► All refrigerants in the store must have zero ozone-depleting potential. No R-22.
- ► Refrigerants must be on EPA's SNAP list
- Reduced refrigerant charge
 - ► Max 1.75 lbs. of refrigerant per 1000 BTU/hr. total evaporator cooling load
- ► Low leak rate
 - **▶**≤ 15%

GreenChill's Certification Program Application Process

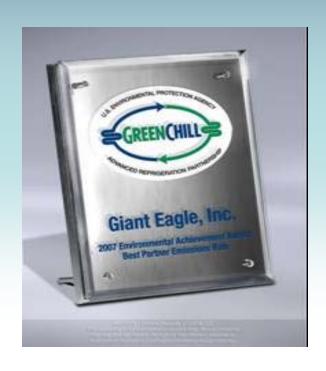
- Application forms are on GreenChill's website
 - ► Newly constructed stores
 - ► Fully operational stores
- ► Easy: 1 page front and back
- ► Fast: often same day
- ► Free: No application fee, no EPA cost, applicant pays for the plaque

GreenChill's Certification Program Application Process

► Can an EPA process be easy?



GreenChill's Certification Program Award







Company

Gold/Silver Level Certification –

Certified by U.S. EPA's GreenChill Partnership for using green refrigeration technology

Certified through MM/DD/YY

GreenChill's Certification Program Experience

- R-22 has ruined many applications from operational stores
- Charge size is key
- ► Emailed applications I have to be able to read the refrigeration schedule/legend
- ➤ You may have to explain "new and different" equipment to me
 - ▶ "Steering committee" is invaluable

GreenChill's Certification Program Guidance

- Step-by-step instructions on the forms
- ► Detailed guidance on the website
- ► Different equipment is counted in different criteria



GreenChill's Certification Program Guidance

Included??	BTU Calc.	Refrigerant leaked	Refrigerant Stocked	Non-ozone- depleting Refrigerant	Snap approved refrigerant
Self contained Commercial refrigeration equipment	no	yes	yes	yes	yes
Remote commercial refrigeration equipment	yes	yes	yes	yes GREEN	yes
HVAC Equipment	no	no	no	yes	yes

Special Thanks!

- ► Special thanks to the GreenChill partners who helped develop this program:
 - ► Jon Perry Farm Fresh / Supervalu
 - ► Scott Martin Hill Phoenix
 - ► Steve Hagler Hussmann
 - ► Buzz Schaeffer Hussmann
 - ► Travis Lumpkin Kysor Warren
 - ► Bruce Hierlmeier Zero Zone

Special Thanks!

- Special thanks to the technical Steering Committee:
 - ► Buzz Schaeffer Hussmann
 - ► Travis Lumpkin Kysor Warren
 - ► Scott Martin Hill Phoenix
 - ► David Hinde Hill Phoenix
 - ► Bruce Hierlmeier Zero Zone

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